



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 09:03 am GMT

PDB ID : 4V8P
Title : T.thermophila 60S ribosomal subunit in complex with initiation factor 6.
Authors : Klinge, S.; Voigts-Hoffmann, F.; Leibundgut, M.; Arpagaus, S.; Ban, N.
Deposited on : 2011-09-14
Resolution : 3.52 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

<http://wwpdb.org/validation/2016/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
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28972

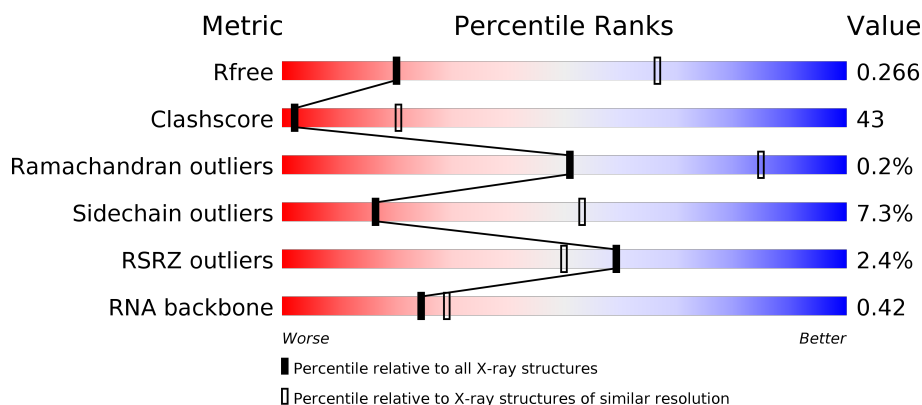
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.52 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}	100719	1239 (3.64-3.40)
Clashscore	112137	1007 (3.62-3.42)
Ramachandran outliers	110173	1328 (3.64-3.40)
Sidechain outliers	110143	1329 (3.64-3.40)
RSRZ outliers	101464	1270 (3.64-3.40)
RNA backbone	2435	1027 (4.18-2.86)

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. 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	A1	3354	<div> <div>3%</div> <div>18% 45% 28% 7%</div> </div>
1	D1	3354	<div> <div>%</div> <div>18% 45% 27% 7%</div> </div>
1	F1	3354	<div> <div>2%</div> <div>18% 45% 27% 7%</div> </div>
1	H1	3354	<div> <div>4%</div> <div>17% 45% 28% 7%</div> </div>

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Mol	Chain	Length	Quality of chain
2	AA	94	
2	DA	94	
2	FA	94	
2	HA	94	
3	AB	52	
3	DB	52	
3	FB	52	
3	HB	52	
4	AC	109	
4	DC	109	
4	FC	109	
4	HC	109	
5	AE	191	
5	DE	191	
5	FE	191	
5	HE	191	
6	AF	126	
6	DF	126	
6	FF	126	
6	HF	126	
7	AG	104	
7	DG	104	
7	FG	104	
7	HG	104	
8	AH	113	

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Mol	Chain	Length	Quality of chain
8	DH	113	
8	FH	113	
8	HH	113	
9	AJ	248	
9	DJ	248	
9	FJ	248	
9	HJ	248	
10	AK	129	
10	DK	129	
10	FK	129	
10	HK	129	
11	AL	123	
11	DL	123	
11	FL	123	
11	HL	123	
12	AM	118	
12	DM	118	
12	FM	118	
12	HM	118	
13	AN	144	
13	DN	144	
13	FN	144	
13	HN	144	
14	AO	134	
14	DO	134	

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Mol	Chain	Length	Quality of chain
14	FO	134	
14	HO	134	
15	AP	89	
15	DP	89	
15	FP	89	
15	HP	89	
16	AQ	104	
16	DQ	104	
16	FQ	104	
16	HQ	104	
17	AT	66	
17	DT	66	
17	FT	66	
17	HT	66	
18	AU	206	
18	DU	206	
18	FU	206	
18	HU	206	
19	AX	189	
19	DX	189	
19	FX	189	
19	HX	189	
20	B2	154	
20	C2	154	
20	E2	154	

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Mol	Chain	Length	Quality of chain
20	G2	154	
21	B3	120	
21	C3	120	
21	E3	120	
21	G3	120	
22	BA	264	
22	CA	264	
22	EA	264	
22	GA	264	
23	BB	391	
23	CB	391	
23	EB	391	
23	GB	391	
24	BC	410	
24	CC	410	
24	EC	410	
24	GC	410	
25	BD	172	
25	CD	172	
25	ED	172	
25	GD	172	
26	BE	188	
26	CE	188	
26	EE	188	
26	GE	188	




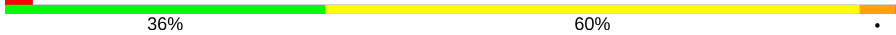
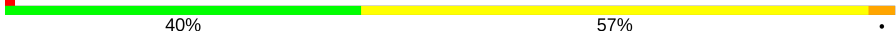
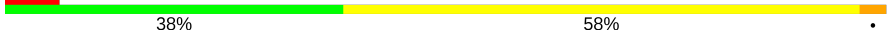
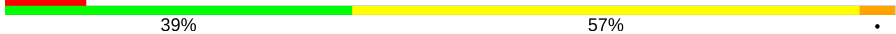
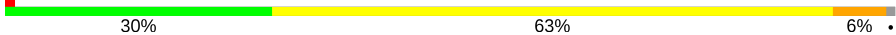
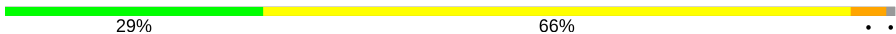
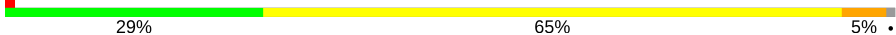
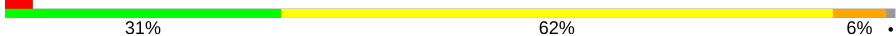

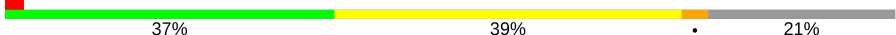












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Mol	Chain	Length	Quality of chain
27	BF	255	
27	CF	255	
27	EF	255	
27	GF	255	
28	BG	123	
28	CG	123	
28	EG	123	
28	GG	123	
29	BH	215	
29	CH	215	
29	EH	215	
29	GH	215	
30	BI	198	
30	CI	198	
30	EI	198	
30	GI	198	
31	BJ	141	
31	CJ	141	
31	EJ	141	
31	GJ	141	
32	BK	149	
32	CK	149	
32	EK	149	
32	GK	149	
33	BL	204	

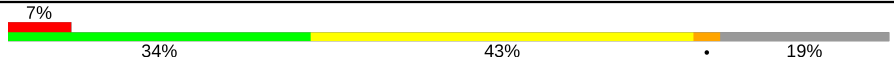

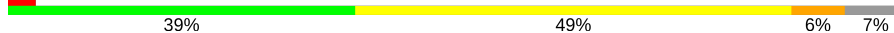
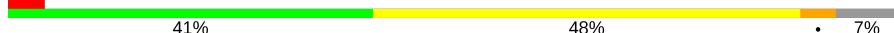





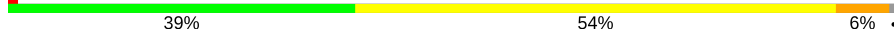
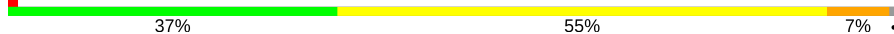
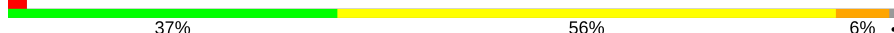









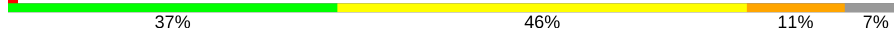



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Mol	Chain	Length	Quality of chain
33	CL	204	
33	EL	204	
33	GL	204	
34	BM	301	
34	CM	301	
34	EM	301	
34	GM	301	
35	BN	181	
35	CN	181	
35	EN	181	
35	GN	181	
36	BO	185	
36	EO	185	
36	GO	185	
37	BP	157	
37	CP	157	
37	EP	157	
37	GP	157	
38	BQ	183	
38	CQ	183	
38	EQ	183	
38	GQ	183	
39	BR	150	
39	CR	150	
39	ER	150	

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Mol	Chain	Length	Quality of chain
39	GR	150	
40	BS	135	
40	CS	135	
40	ES	135	
40	GS	135	
41	BT	158	
41	CT	158	
41	ET	158	
41	GT	158	
42	BU	124	
42	CU	124	
42	EU	124	
42	GU	124	
43	BV	239	
43	CV	239	
43	EV	239	
43	GV	239	
44	BW	111	
44	CW	111	
44	EW	111	
44	GW	111	
45	BX	134	
45	CX	134	
45	EX	134	
45	GX	134	

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Mol	Chain	Length	Quality of chain
46	BY	103	
46	CY	103	
46	EY	103	
46	GY	103	
47	CO	185	

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
48	MG	A1	3412	-	-	-	X
48	MG	A1	3500	-	-	-	X
48	MG	A1	3579	-	-	-	X
48	MG	D1	3412	-	-	-	X
48	MG	D1	3481	-	-	-	X
48	MG	D1	3484	-	-	-	X
48	MG	D1	3497	-	-	-	X
48	MG	D1	3504	-	-	-	X
48	MG	D1	3511	-	-	-	X
48	MG	D1	3516	-	-	-	X
48	MG	D1	3517	-	-	-	X
48	MG	D1	3589	-	-	-	X
48	MG	D1	3603	-	-	-	X
48	MG	D1	3607	-	-	-	X
48	MG	DJ	301	-	-	-	X
48	MG	F1	3479	-	-	-	X
48	MG	F1	3483	-	-	-	X
48	MG	F1	3493	-	-	-	X
48	MG	F1	3506	-	-	-	X
48	MG	F1	3538	-	-	-	X
48	MG	F1	3566	-	-	-	X
48	MG	G2	202	-	-	-	X
48	MG	G3	204	-	-	-	X
48	MG	GO	201	-	-	-	X
48	MG	H1	3409	-	-	-	X
48	MG	H1	3469	-	-	-	X
48	MG	H1	3519	-	-	-	X
48	MG	H1	3529	-	-	-	X

2 Entry composition

There are 50 unique types of molecules in this entry. The entry contains 511395 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 26S RRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A1	3119	Total	C	N	O	P	0	0	0
			66769	29861	12195	21594	3119			
1	D1	3119	Total	C	N	O	P	0	0	0
			66769	29861	12195	21594	3119			
1	F1	3119	Total	C	N	O	P	0	0	0
			66769	29861	12195	21594	3119			
1	H1	3119	Total	C	N	O	P	0	0	0
			66769	29861	12195	21594	3119			

- Molecule 2 is a protein called RIBOSOMAL PROTEIN L37.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AA	91	Total	C	N	O	S	0	0	0
			721	440	158	116	7			
2	DA	91	Total	C	N	O	S	0	0	0
			721	440	158	116	7			
2	FA	91	Total	C	N	O	S	0	0	0
			721	440	158	116	7			
2	HA	91	Total	C	N	O	S	0	0	0
			721	440	158	116	7			

- Molecule 3 is a protein called RPL39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AB	51	Total	C	N	O	S	0	0	0
			456	288	97	70	1			
3	DB	51	Total	C	N	O	S	0	0	0
			456	288	97	70	1			
3	FB	51	Total	C	N	O	S	0	0	0
			456	288	97	70	1			
3	HB	51	Total	C	N	O	S	0	0	0
			456	288	97	70	1			

- Molecule 4 is a protein called 60S RIBOSOMAL PROTEIN L36A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AC	103	Total	C	N	O	S	0	0	0
			836	526	163	140	7			
4	DC	103	Total	C	N	O	S	0	0	0
			836	526	163	140	7			
4	FC	103	Total	C	N	O	S	0	0	0
			836	526	163	140	7			
4	HC	103	Total	C	N	O	S	0	0	0
			836	526	163	140	7			

- Molecule 5 is a protein called RPL6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	190	Total	C	N	O	S	0	0	0
			1525	966	286	272	1			
5	DE	190	Total	C	N	O	S	0	0	0
			1525	966	286	272	1			
5	FE	190	Total	C	N	O	S	0	0	0
			1525	966	286	272	1			
5	HE	190	Total	C	N	O	S	0	0	0
			1525	966	286	272	1			

- Molecule 6 is a protein called RPL14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	125	Total	C	N	O	S	0	0	0
			1021	659	192	169	1			
6	DF	125	Total	C	N	O	S	0	0	0
			1021	659	192	169	1			
6	FF	125	Total	C	N	O	S	0	0	0
			1021	659	192	169	1			
6	HF	125	Total	C	N	O	S	0	0	0
			1021	659	192	169	1			

- Molecule 7 is a protein called RPL30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	96	Total	C	N	O	S	0	0	0
			727	455	129	138	5			
7	DG	96	Total	C	N	O	S	0	0	0
			727	455	129	138	5			
7	FG	96	Total	C	N	O	S	0	0	0
			727	455	129	138	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	HG	96	Total	C	N	O	S	0	0	0
			727	455	129	138	5			

- Molecule 8 is a protein called RPL35A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	107	Total	C	N	O	S	0	0	0
			850	540	167	142	1			
8	DH	107	Total	C	N	O	S	0	0	0
			850	540	167	142	1			
8	FH	107	Total	C	N	O	S	0	0	0
			850	540	167	142	1			
8	HH	107	Total	C	N	O	S	0	0	0
			850	540	167	142	1			

- Molecule 9 is a protein called TRANSLATION INITIATION FACTOR EIF-6, PUTATIVE FAMILY PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AJ	226	Total	C	N	O	S	0	0	0
			1716	1068	302	336	10			
9	DJ	226	Total	C	N	O	S	0	0	0
			1716	1068	302	336	10			
9	FJ	226	Total	C	N	O	S	0	0	0
			1716	1068	302	336	10			
9	HJ	226	Total	C	N	O	S	0	0	0
			1716	1068	302	336	10			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AJ	-2	GLY	-	EXPRESSION TAG	UNP Q245F2
AJ	-1	THR	-	EXPRESSION TAG	UNP Q245F2
AJ	0	SER	-	EXPRESSION TAG	UNP Q245F2
DJ	-2	GLY	-	EXPRESSION TAG	UNP Q245F2
DJ	-1	THR	-	EXPRESSION TAG	UNP Q245F2
DJ	0	SER	-	EXPRESSION TAG	UNP Q245F2
FJ	-2	GLY	-	EXPRESSION TAG	UNP Q245F2
FJ	-1	THR	-	EXPRESSION TAG	UNP Q245F2
FJ	0	SER	-	EXPRESSION TAG	UNP Q245F2
HJ	-2	GLY	-	EXPRESSION TAG	UNP Q245F2
HJ	-1	THR	-	EXPRESSION TAG	UNP Q245F2

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Chain	Residue	Modelled	Actual	Comment	Reference
HJ	0	SER	-	EXPRESSION TAG	UNP Q245F2

- Molecule 10 is a protein called UBIQUITIN-60S RIBOSOMAL PROTEIN L40.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AK	52	Total	C	N	O	S	0	0	0
			415	257	83	69	6			
10	DK	52	Total	C	N	O	S	0	0	0
			415	257	83	69	6			
10	FK	52	Total	C	N	O	S	0	0	0
			415	257	83	69	6			
10	HK	52	Total	C	N	O	S	0	0	0
			415	257	83	69	6			

- Molecule 11 is a protein called RPL34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	108	Total	C	N	O	S	0	0	0
			852	529	170	147	6			
11	DL	108	Total	C	N	O	S	0	0	0
			852	529	170	147	6			
11	FL	108	Total	C	N	O	S	0	0	0
			852	529	170	147	6			
11	HL	108	Total	C	N	O	S	0	0	0
			852	529	170	147	6			

- Molecule 12 is a protein called RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	100	Total	C	N	O	S	0	0	0
			819	530	137	151	1			
12	DM	100	Total	C	N	O	S	0	0	0
			819	530	137	151	1			
12	FM	100	Total	C	N	O	S	0	0	0
			819	530	137	151	1			
12	HM	100	Total	C	N	O	S	0	0	0
			819	530	137	151	1			

- Molecule 13 is a protein called RPL27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AN	143	Total	C	N	O	S	0	0	0
			1170	755	213	199	3			
13	DN	143	Total	C	N	O	S	0	0	0
			1170	755	213	199	3			
13	FN	143	Total	C	N	O	S	0	0	0
			1170	755	213	199	3			
13	HN	143	Total	C	N	O	S	0	0	0
			1170	755	213	199	3			

- Molecule 14 is a protein called RPL28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AO	134	Total	C	N	O	S	0	0	0
			1034	650	204	179	1			
14	DO	134	Total	C	N	O	S	0	0	0
			1034	650	204	179	1			
14	FO	134	Total	C	N	O	S	0	0	0
			1034	650	204	179	1			
14	HO	134	Total	C	N	O	S	0	0	0
			1034	650	204	179	1			

- Molecule 15 is a protein called RPL38.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	66	Total	C	N	O	S	0	0	0
			551	367	93	90	1			
15	DP	66	Total	C	N	O	S	0	0	0
			551	367	93	90	1			
15	FP	66	Total	C	N	O	S	0	0	0
			551	367	93	90	1			
15	HP	66	Total	C	N	O	S	0	0	0
			551	367	93	90	1			

- Molecule 16 is a protein called 60S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
16	AQ	102	Total	C	N	O	0	0	0
			803	506	165	132			
16	DQ	102	Total	C	N	O	0	0	0
			803	506	165	132			
16	FQ	102	Total	C	N	O	0	0	0
			803	506	165	132			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
16	HQ	102	Total	C	N	O	0	0	0
			803	506	165	132			

- Molecule 17 is a protein called RPL29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	AT	65	Total	C	N	O	0	0	0
			533	324	117	92			
17	DT	65	Total	C	N	O	0	0	0
			533	324	117	92			
17	FT	65	Total	C	N	O	0	0	0
			533	324	117	92			
17	HT	65	Total	C	N	O	0	0	0
			533	324	117	92			

- Molecule 18 is a protein called RPL13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AU	203	Total	C	N	O	S	0	0	0
			1624	1015	328	279	2			
18	DU	203	Total	C	N	O	S	0	0	0
			1624	1015	328	279	2			
18	FU	203	Total	C	N	O	S	0	0	0
			1624	1015	328	279	2			
18	HU	203	Total	C	N	O	S	0	0	0
			1624	1015	328	279	2			

- Molecule 19 is a protein called RPL18A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AX	188	Total	C	N	O	S	0	0	0
			1536	972	287	271	6			
19	DX	188	Total	C	N	O	S	0	0	0
			1536	972	287	271	6			
19	FX	188	Total	C	N	O	S	0	0	0
			1536	972	287	271	6			
19	HX	188	Total	C	N	O	S	0	0	0
			1536	972	287	271	6			

- Molecule 20 is a RNA chain called 5.8S RRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	B2	154	Total	C	N	O	P	0	0	0
			3300	1475	602	1069	154			
20	C2	154	Total	C	N	O	P	0	0	0
			3300	1475	602	1069	154			
20	E2	154	Total	C	N	O	P	0	0	0
			3300	1475	602	1069	154			
20	G2	154	Total	C	N	O	P	0	0	0
			3300	1475	602	1069	154			

- Molecule 21 is a RNA chain called 5S RRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	B3	120	Total	C	N	O	P	0	0	0
			2566	1145	463	838	120			
21	C3	120	Total	C	N	O	P	0	0	0
			2566	1145	463	838	120			
21	E3	120	Total	C	N	O	P	0	0	0
			2566	1145	463	838	120			
21	G3	120	Total	C	N	O	P	0	0	0
			2566	1145	463	838	120			

- Molecule 22 is a protein called RPL8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	BA	257	Total	C	N	O	S	0	0	0
			1977	1226	400	343	8			
22	CA	257	Total	C	N	O	S	0	0	0
			1977	1226	400	343	8			
22	EA	257	Total	C	N	O	S	0	0	0
			1977	1226	400	343	8			
22	GA	257	Total	C	N	O	S	0	0	0
			1977	1226	400	343	8			

- Molecule 23 is a protein called RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	BB	386	Total	C	N	O	S	0	0	0
			3080	1944	595	530	11			
23	CB	386	Total	C	N	O	S	0	0	0
			3080	1944	595	530	11			
23	EB	386	Total	C	N	O	S	0	0	0
			3080	1944	595	530	11			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	GB	386	Total	C	N	O	S	0	0	0
			3080	1944	595	530	11			

- Molecule 24 is a protein called RPL4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BC	409	Total	C	N	O	S	0	0	0
			3172	1975	622	571	4			
24	CC	409	Total	C	N	O	S	0	0	0
			3172	1975	622	571	4			
24	EC	409	Total	C	N	O	S	0	0	0
			3172	1975	622	571	4			
24	GC	409	Total	C	N	O	S	0	0	0
			3172	1975	622	571	4			

- Molecule 25 is a protein called 60S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BD	169	Total	C	N	O	S	0	0	0
			1357	851	254	243	9			
25	CD	169	Total	C	N	O	S	0	0	0
			1357	851	254	243	9			
25	ED	169	Total	C	N	O	S	0	0	0
			1357	851	254	243	9			
25	GD	169	Total	C	N	O	S	0	0	0
			1357	851	254	243	9			

- Molecule 26 is a protein called 60S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BE	186	Total	C	N	O	S	0	0	0
			1481	939	272	264	6			
26	CE	186	Total	C	N	O	S	0	0	0
			1481	939	272	264	6			
26	EE	186	Total	C	N	O	S	0	0	0
			1481	939	272	264	6			
26	GE	186	Total	C	N	O	S	0	0	0
			1481	939	272	264	6			

- Molecule 27 is a protein called RPL7A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BF	231	Total	C	N	O	S	0	0	0
			1860	1191	341	327	1			
27	CF	231	Total	C	N	O	S	0	0	0
			1860	1191	341	327	1			
27	EF	231	Total	C	N	O	S	0	0	0
			1860	1191	341	327	1			
27	GF	231	Total	C	N	O	S	0	0	0
			1860	1191	341	327	1			

- Molecule 28 is a protein called RPLP0.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
28	BG	123	Total	C	N	O	0	0	0
			711	465	123	123			
28	CG	123	Total	C	N	O	0	0	0
			711	465	123	123			
28	EG	123	Total	C	N	O	0	0	0
			711	465	123	123			
28	GG	123	Total	C	N	O	0	0	0
			711	465	123	123			

- Molecule 29 is a protein called 60S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BH	201	Total	C	N	O	S	0	0	0
			1620	1027	319	271	3			
29	CH	201	Total	C	N	O	S	0	0	0
			1620	1027	319	271	3			
29	EH	201	Total	C	N	O	S	0	0	0
			1620	1027	319	271	3			
29	GH	201	Total	C	N	O	S	0	0	0
			1620	1027	319	271	3			

- Molecule 30 is a protein called 60S RIBOSOMAL PROTEIN L13A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BI	198	Total	C	N	O	S	0	0	0
			1594	1019	308	263	4			
30	CI	198	Total	C	N	O	S	0	0	0
			1594	1019	308	263	4			
30	EI	198	Total	C	N	O	S	0	0	0
			1594	1019	308	263	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	GI	198	Total	C	N	O	S	0	0	0
			1594	1019	308	263	4			

- Molecule 31 is a protein called RPL23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BJ	138	Total	C	N	O	S	0	0	0
			1022	643	193	179	7			
31	CJ	138	Total	C	N	O	S	0	0	0
			1022	643	193	179	7			
31	EJ	138	Total	C	N	O	S	0	0	0
			1022	643	193	179	7			
31	GJ	138	Total	C	N	O	S	0	0	0
			1022	643	193	179	7			

- Molecule 32 is a protein called 60S RIBOSOMAL PROTEIN L27A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BK	148	Total	C	N	O	S	0	0	0
			1161	739	234	182	6			
32	CK	148	Total	C	N	O	S	0	0	0
			1161	739	234	182	6			
32	EK	148	Total	C	N	O	S	0	0	0
			1161	739	234	182	6			
32	GK	148	Total	C	N	O	S	0	0	0
			1161	739	234	182	6			

- Molecule 33 is a protein called RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BL	203	Total	C	N	O	S	0	0	0
			1691	1061	351	275	4			
33	CL	203	Total	C	N	O	S	0	0	0
			1691	1061	351	275	4			
33	EL	203	Total	C	N	O	S	0	0	0
			1691	1061	351	275	4			
33	GL	203	Total	C	N	O	S	0	0	0
			1691	1061	351	275	4			

- Molecule 34 is a protein called 60S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BM	298	Total	C	N	O	S	0	0	0
			2409	1530	445	430	4			
34	CM	300	Total	C	N	O	S	0	0	0
			2424	1541	447	432	4			
34	EM	300	Total	C	N	O	S	0	0	0
			2424	1541	447	432	4			
34	GM	300	Total	C	N	O	S	0	0	0
			2424	1541	447	432	4			

- Molecule 35 is a protein called RPL18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BN	180	Total	C	N	O	S	0	0	0
			1441	909	280	249	3			
35	CN	180	Total	C	N	O	S	0	0	0
			1441	909	280	249	3			
35	EN	180	Total	C	N	O	S	0	0	0
			1441	909	280	249	3			
35	GN	180	Total	C	N	O	S	0	0	0
			1441	909	280	249	3			

- Molecule 36 is a protein called RPL19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BO	184	Total	C	N	O	S	0	0	0
			1491	924	311	251	5			
36	EO	146	Total	C	N	O	S	0	0	0
			1192	745	249	193	5			
36	GO	153	Total	C	N	O	S	0	0	0
			1234	772	256	201	5			

- Molecule 37 is a protein called 60S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BP	156	Total	C	N	O	S	0	0	0
			1272	804	251	215	2			
37	CP	156	Total	C	N	O	S	0	0	0
			1272	804	251	215	2			
37	EP	156	Total	C	N	O	S	0	0	0
			1272	804	251	215	2			
37	GP	156	Total	C	N	O	S	0	0	0
			1272	804	251	215	2			

- Molecule 38 is a protein called RPL17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BQ	157	Total	C	N	O	S	0	0	0
			1239	771	249	216	3			
38	CQ	157	Total	C	N	O	S	0	0	0
			1239	771	249	216	3			
38	EQ	157	Total	C	N	O	S	0	0	0
			1239	771	249	216	3			
38	GQ	157	Total	C	N	O	S	0	0	0
			1239	771	249	216	3			

- Molecule 39 is a protein called RPL23A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BR	121	Total	C	N	O	S	0	0	0
			965	613	176	173	3			
39	CR	121	Total	C	N	O	S	0	0	0
			965	613	176	173	3			
39	ER	121	Total	C	N	O	S	0	0	0
			965	613	176	173	3			
39	GR	121	Total	C	N	O	S	0	0	0
			965	613	176	173	3			

- Molecule 40 is a protein called RPL26.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BS	126	Total	C	N	O	S	0	0	0
			1013	638	200	173	2			
40	CS	126	Total	C	N	O	S	0	0	0
			1013	638	200	173	2			
40	ES	126	Total	C	N	O	S	0	0	0
			1013	638	200	173	2			
40	GS	126	Total	C	N	O	S	0	0	0
			1013	638	200	173	2			

- Molecule 41 is a protein called RPL24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BT	61	Total	C	N	O	S	0	0	0
			510	331	100	76	3			
41	CT	61	Total	C	N	O	S	0	0	0
			510	331	100	76	3			
41	ET	61	Total	C	N	O	S	0	0	0
			510	331	100	76	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	GT	61	Total	C	N	O	S	0	0	0
			510	331	100	76	3			

- Molecule 42 is a protein called RPL35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BU	123	Total	C	N	O		0	0	0
			990	629	196	165				
42	CU	123	Total	C	N	O		0	0	0
			990	629	196	165				
42	EU	123	Total	C	N	O		0	0	0
			990	629	196	165				
42	GU	123	Total	C	N	O		0	0	0
			990	629	196	165				

- Molecule 43 is a protein called 60S RIBOSOMAL PROTEIN L7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BV	234	Total	C	N	O	S	0	0	0
			1910	1221	362	323	4			
43	CV	234	Total	C	N	O	S	0	0	0
			1910	1221	362	323	4			
43	EV	234	Total	C	N	O	S	0	0	0
			1910	1221	362	323	4			
43	GV	234	Total	C	N	O	S	0	0	0
			1910	1221	362	323	4			

- Molecule 44 is a protein called 60S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BW	110	Total	C	N	O	S	0	0	0
			901	563	171	164	3			
44	CW	110	Total	C	N	O	S	0	0	0
			901	563	171	164	3			
44	EW	110	Total	C	N	O	S	0	0	0
			901	563	171	164	3			
44	GW	110	Total	C	N	O	S	0	0	0
			901	563	171	164	3			

- Molecule 45 is a protein called 60S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BX	125	Total	C	N	O	S	0	0	0
			1012	639	205	165	3			
45	CX	125	Total	C	N	O	S	0	0	0
			1012	639	205	165	3			
45	EX	125	Total	C	N	O	S	0	0	0
			1012	639	205	165	3			
45	GX	125	Total	C	N	O	S	0	0	0
			1012	639	205	165	3			

- Molecule 46 is a protein called RPL37A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BY	102	Total	C	N	O	S	0	0	0
			786	502	148	131	5			
46	CY	102	Total	C	N	O	S	0	0	0
			786	502	148	131	5			
46	EY	102	Total	C	N	O	S	0	0	0
			786	502	148	131	5			
46	GY	102	Total	C	N	O	S	0	0	0
			786	502	148	131	5			

- Molecule 47 is a protein called RPL19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	CO	175	Total	C	N	O	S	0	0	0
			1366	861	278	222	5			

- Molecule 48 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
48	DK	1	Total	Mg	0	0
			1	1		
48	AK	1	Total	Mg	0	0
			1	1		
48	DQ	1	Total	Mg	0	0
			1	1		
48	G3	5	Total	Mg	0	0
			5	5		
48	E3	6	Total	Mg	0	0
			6	6		
48	EN	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
48	BL	1	Total 1	Mg 1	0	0
48	GJ	1	Total 1	Mg 1	0	0
48	GA	1	Total 1	Mg 1	0	0
48	FK	1	Total 1	Mg 1	0	0
48	CD	1	Total 1	Mg 1	0	0
48	BP	1	Total 1	Mg 1	0	0
48	GN	1	Total 1	Mg 1	0	0
48	EQ	1	Total 1	Mg 1	0	0
48	CY	1	Total 1	Mg 1	0	0
48	G2	6	Total 6	Mg 6	0	0
48	E2	7	Total 7	Mg 7	0	0
48	B2	8	Total 8	Mg 8	0	0
48	AA	2	Total 2	Mg 2	0	0
48	BQ	2	Total 2	Mg 2	0	0
48	CQ	2	Total 2	Mg 2	0	0
48	BJ	1	Total 1	Mg 1	0	0
48	EW	2	Total 2	Mg 2	0	0
48	FA	2	Total 2	Mg 2	0	0
48	H1	155	Total 155	Mg 155	0	0
48	A1	200	Total 200	Mg 200	0	0
48	CN	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
48	BN	1	Total 1	Mg 1	0	0
48	GQ	1	Total 1	Mg 1	0	0
48	B3	3	Total 3	Mg 3	0	0
48	CJ	1	Total 1	Mg 1	0	0
48	GL	1	Total 1	Mg 1	0	0
48	DA	2	Total 2	Mg 2	0	0
48	HT	1	Total 1	Mg 1	0	0
48	C3	7	Total 7	Mg 7	0	0
48	GW	1	Total 1	Mg 1	0	0
48	EL	2	Total 2	Mg 2	0	0
48	D1	232	Total 232	Mg 232	0	0
48	DJ	1	Total 1	Mg 1	0	0
48	GP	2	Total 2	Mg 2	0	0
48	FT	1	Total 1	Mg 1	0	0
48	CW	1	Total 1	Mg 1	0	0
48	F1	184	Total 184	Mg 184	0	0
48	EJ	1	Total 1	Mg 1	0	0
48	C2	6	Total 6	Mg 6	0	0
48	BW	1	Total 1	Mg 1	0	0
48	GO	1	Total 1	Mg 1	0	0
48	CL	2	Total 2	Mg 2	0	0

- Molecule 49 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
49	FA	1	Total 1	Zn 1	0	0
49	HK	1	Total 1	Zn 1	0	0
49	DK	1	Total 1	Zn 1	0	0
49	AK	1	Total 1	Zn 1	0	0
49	DC	1	Total 1	Zn 1	0	0
49	BY	1	Total 1	Zn 1	0	0
49	AC	1	Total 1	Zn 1	0	0
49	DL	1	Total 1	Zn 1	0	0
49	HL	1	Total 1	Zn 1	0	0
49	FK	1	Total 1	Zn 1	0	0
49	AA	1	Total 1	Zn 1	0	0
49	DA	1	Total 1	Zn 1	0	0
49	EY	1	Total 1	Zn 1	0	0
49	HC	1	Total 1	Zn 1	0	0
49	GY	1	Total 1	Zn 1	0	0
49	FC	1	Total 1	Zn 1	0	0
49	FL	1	Total 1	Zn 1	0	0
49	AL	1	Total 1	Zn 1	0	0
49	CY	1	Total 1	Zn 1	0	0
49	HA	1	Total 1	Zn 1	0	0

- Molecule 50 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
50	A1	1134	Total 1134	O 1134	0	0
50	AA	8	Total 8	O 8	0	0
50	AB	5	Total 5	O 5	0	0
50	AH	1	Total 1	O 1	0	0
50	AK	3	Total 3	O 3	0	0
50	AM	1	Total 1	O 1	0	0
50	AP	2	Total 2	O 2	0	0
50	AT	3	Total 3	O 3	0	0
50	AU	4	Total 4	O 4	0	0
50	B2	54	Total 54	O 54	0	0
50	B3	23	Total 23	O 23	0	0
50	BA	12	Total 12	O 12	0	0
50	BB	4	Total 4	O 4	0	0
50	BC	7	Total 7	O 7	0	0
50	BE	1	Total 1	O 1	0	0
50	BI	3	Total 3	O 3	0	0
50	BJ	5	Total 5	O 5	0	0
50	BK	3	Total 3	O 3	0	0
50	BL	8	Total 8	O 8	0	0
50	BM	2	Total 2	O 2	0	0
50	BN	5	Total 5	O 5	0	0
50	BO	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
50	BP	5	Total	O	0	0
			5	5		
50	BQ	7	Total	O	0	0
			7	7		
50	BU	1	Total	O	0	0
			1	1		
50	BV	7	Total	O	0	0
			7	7		
50	BW	5	Total	O	0	0
			5	5		
50	BX	6	Total	O	0	0
			6	6		
50	BY	5	Total	O	0	0
			5	5		
50	C2	46	Total	O	0	0
			46	46		
50	C3	39	Total	O	0	0
			39	39		
50	CA	11	Total	O	0	0
			11	11		
50	CB	4	Total	O	0	0
			4	4		
50	CC	7	Total	O	0	0
			7	7		
50	CD	4	Total	O	0	0
			4	4		
50	CE	2	Total	O	0	0
			2	2		
50	CI	1	Total	O	0	0
			1	1		
50	CJ	4	Total	O	0	0
			4	4		
50	CK	3	Total	O	0	0
			3	3		
50	CL	12	Total	O	0	0
			12	12		
50	CM	6	Total	O	0	0
			6	6		
50	CN	7	Total	O	0	0
			7	7		
50	CO	2	Total	O	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
50	CP	6	Total 6	O 6	0	0
50	CQ	7	Total 7	O 7	0	0
50	CU	1	Total 1	O 1	0	0
50	CV	4	Total 4	O 4	0	0
50	CW	5	Total 5	O 5	0	0
50	CX	6	Total 6	O 6	0	0
50	CY	5	Total 5	O 5	0	0
50	D1	1341	Total 1341	O 1341	0	0
50	DA	10	Total 10	O 10	0	0
50	DB	4	Total 4	O 4	0	0
50	DE	1	Total 1	O 1	0	0
50	DJ	2	Total 2	O 2	0	0
50	DK	2	Total 2	O 2	0	0
50	DP	1	Total 1	O 1	0	0
50	DQ	2	Total 2	O 2	0	0
50	DT	4	Total 4	O 4	0	0
50	DU	3	Total 3	O 3	0	0
50	DX	2	Total 2	O 2	0	0
50	E2	44	Total 44	O 44	0	0
50	E3	34	Total 34	O 34	0	0
50	EA	4	Total 4	O 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
50	EB	3	Total 3	O 3	0	0
50	EC	2	Total 2	O 2	0	0
50	EE	2	Total 2	O 2	0	0
50	EJ	4	Total 4	O 4	0	0
50	EK	5	Total 5	O 5	0	0
50	EL	10	Total 10	O 10	0	0
50	EM	2	Total 2	O 2	0	0
50	EN	7	Total 7	O 7	0	0
50	EP	6	Total 6	O 6	0	0
50	EQ	4	Total 4	O 4	0	0
50	EV	6	Total 6	O 6	0	0
50	EW	7	Total 7	O 7	0	0
50	EX	5	Total 5	O 5	0	0
50	EY	5	Total 5	O 5	0	0
50	F1	1076	Total 1076	O 1076	0	0
50	FA	7	Total 7	O 7	0	0
50	FB	4	Total 4	O 4	0	0
50	FE	1	Total 1	O 1	0	0
50	FH	1	Total 1	O 1	0	0
50	FK	2	Total 2	O 2	0	0
50	FL	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
50	FP	2	Total	O	0	0
			2	2		
50	FT	4	Total	O	0	0
			4	4		
50	FU	4	Total	O	0	0
			4	4		
50	G2	34	Total	O	0	0
			34	34		
50	G3	26	Total	O	0	0
			26	26		
50	GA	6	Total	O	0	0
			6	6		
50	GB	3	Total	O	0	0
			3	3		
50	GC	2	Total	O	0	0
			2	2		
50	GE	2	Total	O	0	0
			2	2		
50	GI	1	Total	O	0	0
			1	1		
50	GJ	4	Total	O	0	0
			4	4		
50	GK	2	Total	O	0	0
			2	2		
50	GL	5	Total	O	0	0
			5	5		
50	GM	1	Total	O	0	0
			1	1		
50	GN	2	Total	O	0	0
			2	2		
50	GO	2	Total	O	0	0
			2	2		
50	GP	5	Total	O	0	0
			5	5		
50	GQ	4	Total	O	0	0
			4	4		
50	GV	3	Total	O	0	0
			3	3		
50	GW	4	Total	O	0	0
			4	4		
50	GX	5	Total	O	0	0
			5	5		

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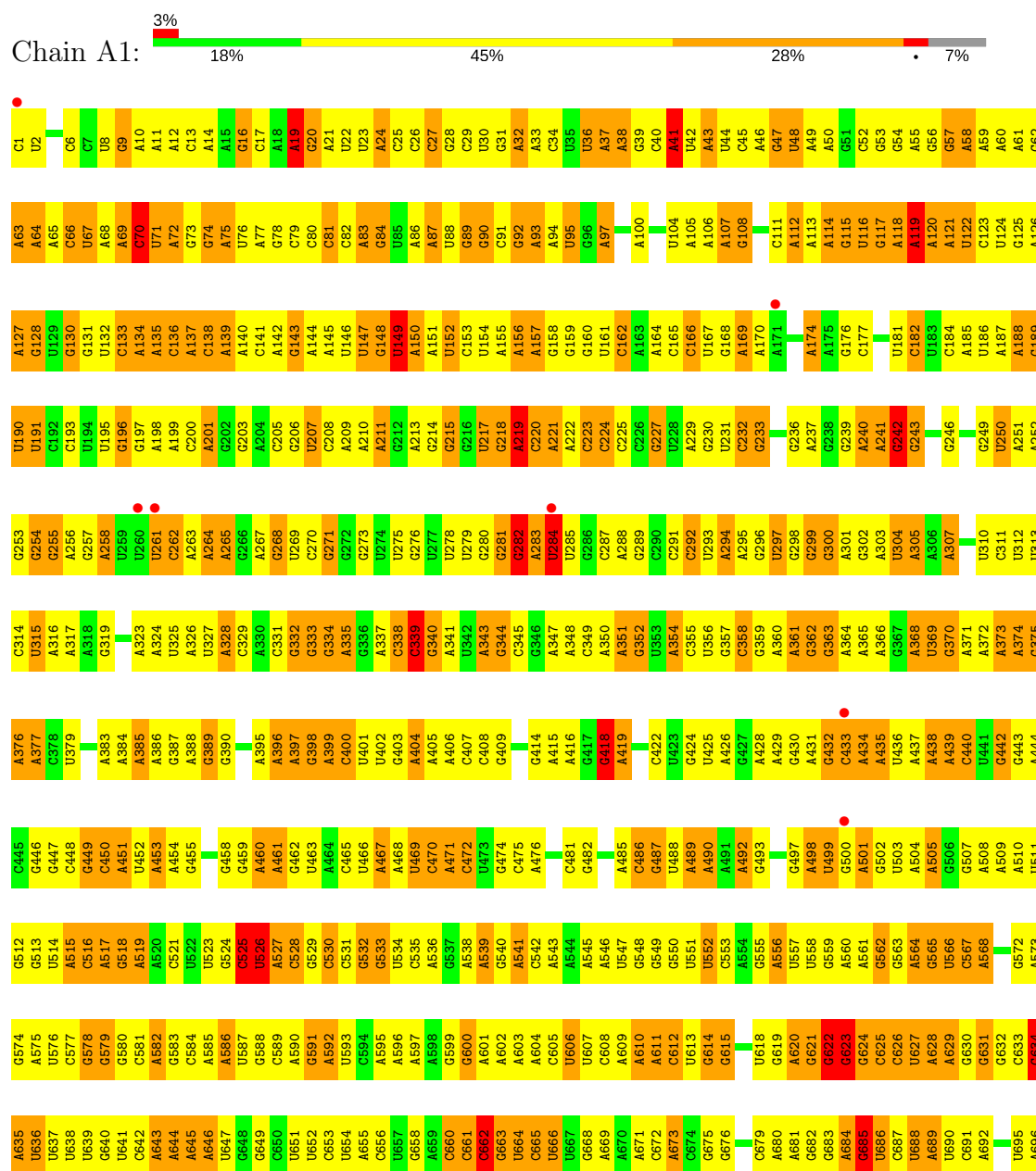
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
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50	H1	924	Total 924	O 924	0	0
50	HA	4	Total 4	O 4	0	0
50	HB	4	Total 4	O 4	0	0
50	HJ	2	Total 2	O 2	0	0
50	HK	2	Total 2	O 2	0	0
50	HP	1	Total 1	O 1	0	0
50	HT	5	Total 5	O 5	0	0
50	HU	2	Total 2	O 2	0	0

3 Residue-property plots

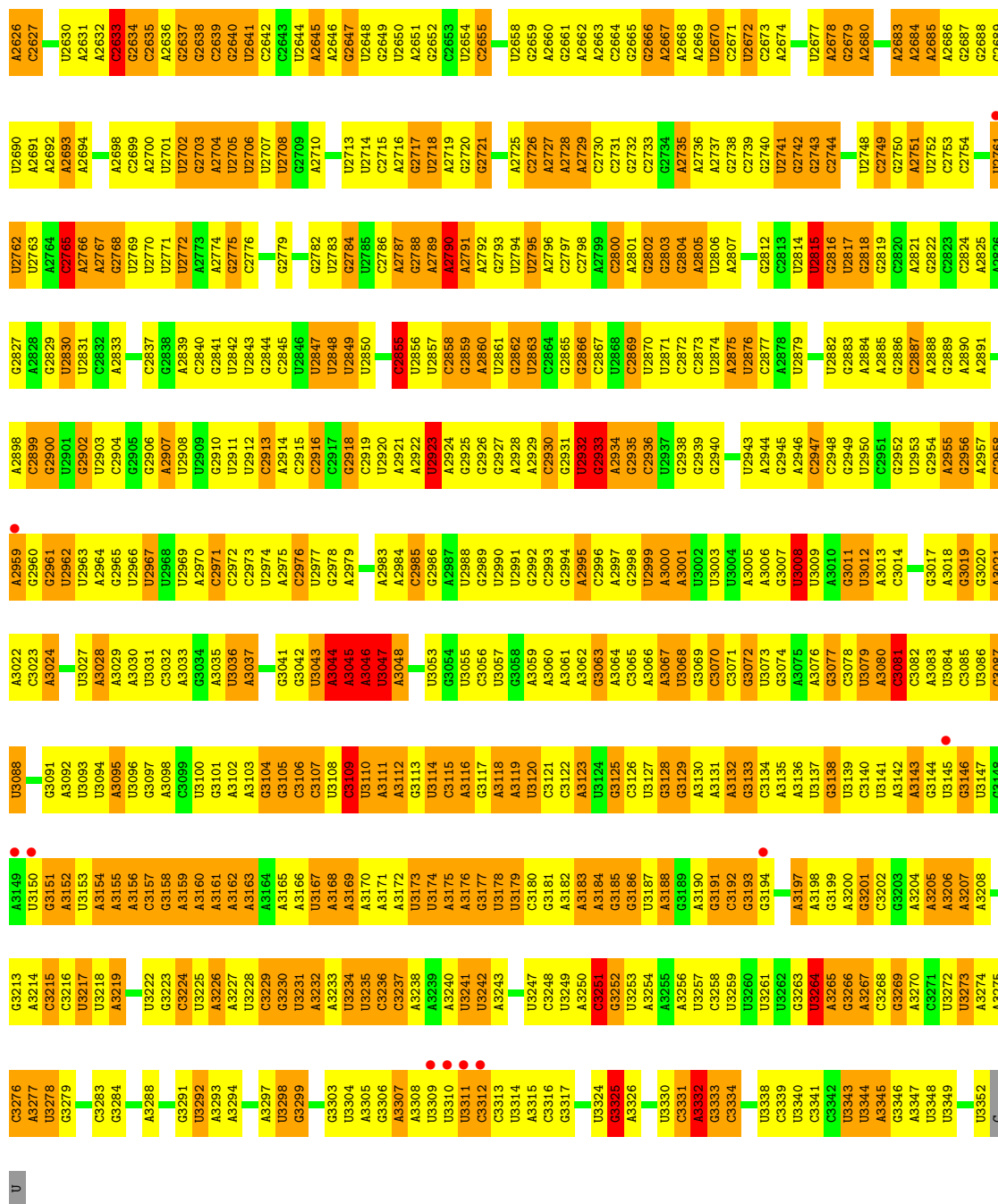
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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: 26S rRNA





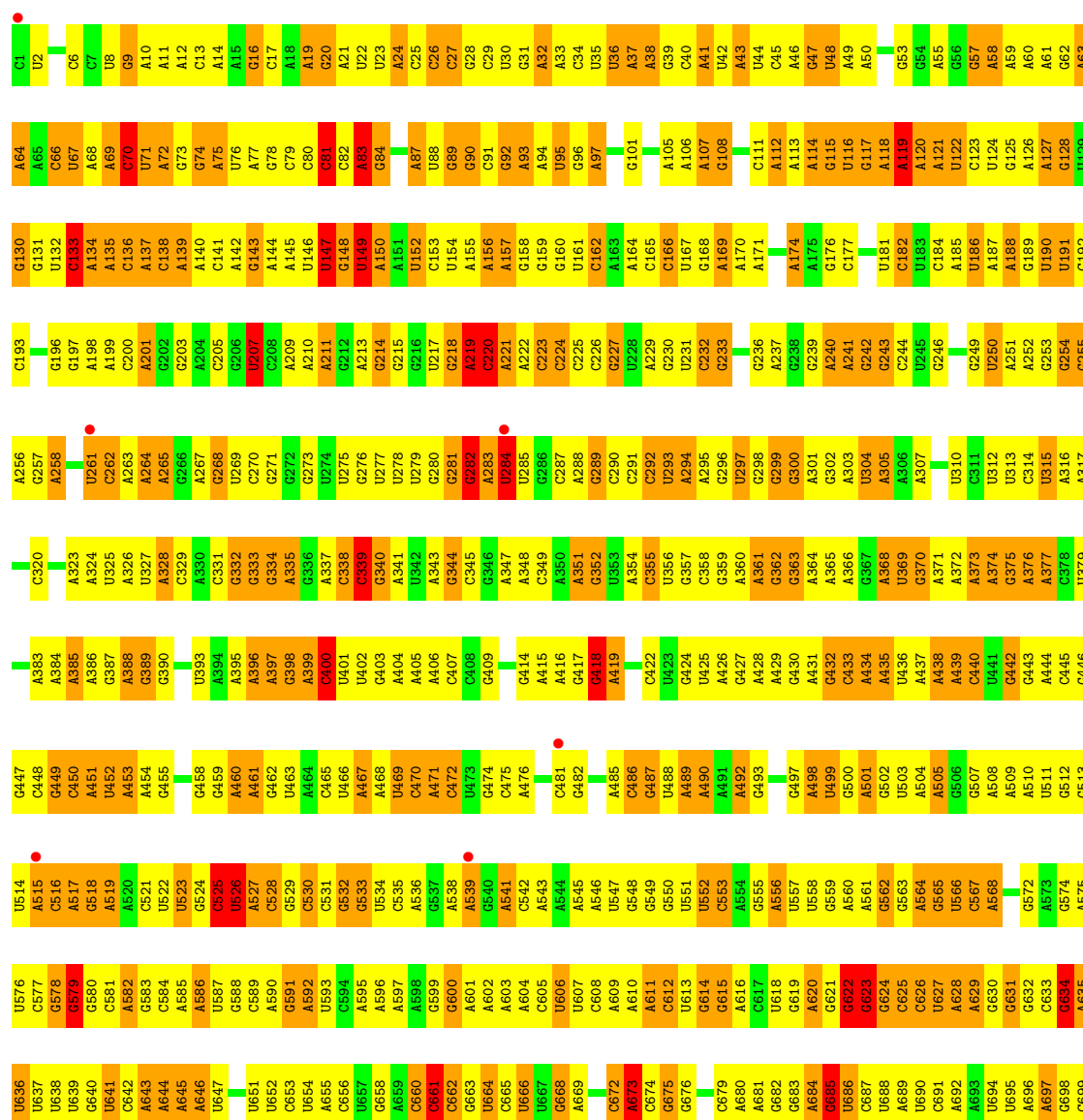
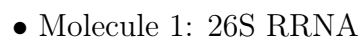




U1076	U1011	C948	G879	A816	C751	A889	A629	C567	G507	A444	C378	A316	G954	U191	G128
U1077	U1012	G949	U880	A817	C752	U890	G630	A868	A508	C445	U379	A317	G255	G192	U129
U1078	U1013	A950	G882	U818	A753	C891	G631	A869	A509	G447	A383	G131	A256	C193	G130
A1079	U1014	A951	G883	U819	A754	A892	G632	G572	A510	G448	A322	U121	G257	G196	U132
U1083	U1015	C952	A884	U821	C755	U895	G633	A574	A511	G449	A385	A323	A258	G197	G133
G1084	U1016	C953	G885	U822	C757	A896	G634	A575	A512	G450	A386	A324	U259	A198	A134
U1085	U1017	A957	C886	A823	A761	A897	U636	U576	A513	G451	A387	U325	U261	A199	A135
G1086	U1018	A958	G889	A824	A762	G898	U637	U577	A514	G452	A388	U326	G262	C200	C136
A1087	U1019	G959	G894	G825	G763	C899	U638	G578	A515	A453	A389	U327	A263	C201	A137
U1088	U1020	U960	A895	A826	G764	G700	U639	G579	A516	A454	A390	U328	A264	G202	C138
G1089	U1021	A961	U896	C827	U764	G701	G640	G580	A517	G455	U393	A329	A265	G203	A139
U1090	A1023	G962	A897	G828	A765	G702	U641	G581	A518	G456	A394	A330	G266	A204	A140
G1091	U1024	C963	C898	C829	G766	U703	G642	A882	A520	G458	A395	C331	A267	C205	C141
C1092	U1025	U964	U899	G830	C767	G704	A643	A583	C521	G459	A396	G332	G268	G206	A142
G1093	G1026	U965	G902	A831	A768	A705	A644	C584	U522	G460	A397	G333	U269	U207	G143
G1094	G1027	G966	C903	A832	A769	U706	A645	A585	U523	G461	G398	A334	C270	C208	A144
U1095	U1028	U967	G904	A833	G769	A707	A646	A586	C524	G462	A399	A335	C271	A209	A145
U1096	U1029	U968	U904	G834	U772	G708	U647	U587	C525	U463	C400	A336	G270	A210	U146
G1097	U1030	C969	G905	A835	C773	G709	G648	G588	U526	A464	U401	A337	U274	A211	U147
U1098	A1035	G970	C906	U836	A774	G710	G649	C589	A527	G465	U402	A338	U275	G212	G148
G1099	U1036	A971	A907	G837	C775	U711	C650	A590	C528	U466	G403	A339	U276	A213	U149
U1100	G1037	C972	A908	G838	C776	G712	U651	G591	C529	U467	A404	G340	U277	G214	A150
U1101	U1038	C973	A909	U839	C777	G713	U652	A592	C530	U468	A405	A341	U278	G215	A151
U1102	A1040	C974	U910	G840	G778	G714	C653	U593	C531	U469	A406	U342	U279	G216	U152
A1103	U1041	G975	C911	A841	A779	A715	U654	C594	C532	C470	C407	A343	G280	U217	C153
C1104	C1042	A976	G912	A842	C780	A716	C655	A595	C533	A471	C408	G344	G281	G218	U154
U1105	U1043	A977	U913	C846	A784	A717	U656	A596	U534	C472	G409	A345	G282	A219	A155
U1106	G1044	G978	U914	G847	G785	A718	U657	A597	C535	U473	G346	A347	A283	C220	A156
A1107	U1045	U979	C915	G848	A786	C719	C658	A598	A536	G474	A348	A347	U284	A221	A157
U1108	U1046	U980	G916	U849	G787	C720	C659	G599	C537	C475	C349	A348	U285	A222	G158
A1109	G1047	U981	U917	U850	U788	U723	C660	G600	A538	A476	A415	C349	G286	C223	G159
U1110	U1048	C982	C918	U851	C788	C724	C661	A601	A539	G479	A416	A350	C287	C224	G160
G1111	U1049	U983	A919	G852	C789	C725	C662	A602	C540	U480	G417	A351	A288	C225	U161
A1112	C1050	C984	A920	A852	C790	G726	G663	A603	A541	C481	G418	G352	G289	G226	C162
U1113	C1051	U985	A921	A853	C791	C727	U664	A604	C542	G482	A419	U353	C290	G227	A163
C1114	A1052	C986	U925	U854	G792	C727	C665	C605	A543	G482	A420	A354	C291	U228	A164
U1115	U1053	A987	A926	A855	A793	G728	U666	U606	A544	G482	G421	C355	C292	A229	C165
C1116	G1054	G988	G927	G858	C794	A729	U667	U607	A545	A485	G422	U356	C293	G230	C166
U1117	A1055	C989	U928	U859	G795	A730	G668	C608	A546	C486	G423	U357	A294	U231	U167
G1121	U1056	A990	U929	U860	A796	A731	A669	A609	U547	G487	G424	C358	A295	G232	G168
A1122	C1058	U991	G929	G860	A797	C732	A670	A610	C548	U488	U425	C359	G296	G233	A169
U1123	U1059	G992	U930	A861	G798	G733	A671	A611	C549	A489	A426	A360	U297	G234	A170
G1124	C1060	C993	A931	A862	G799	A734	C672	C612	C550	A490	G427	A361	G298	G236	A171
A1125	U1061	A995	G932	G863	U801	A735	A673	U613	U551	A491	A428	G362	G299	A237	A174
U1127	C1063	G997	G933	C864	U802	A736	C674	G614	U552	A492	A429	C363	G300	G238	A175
G1128	U1064	A998	C935	A866	C803	U738	G676	G615	C553	G493	G430	A364	A301	G239	G176
U1129	C1065	G999	C936	G867	G804	G739	A677	A616	A554	G494	A431	A365	G302	A240	C177
A1130	U1066	G1002	U937	G868	A805	A740	C678	C617	G555	U495	G432	A366	A303	A241	U178
G1131	U1067	G1003	A938	G869	G806	G741	C679	U618	A556	C496	C433	G367	U304	G242	U181
U1132	U1068	U1004	A940	A871	G807	G742	A680	G620	U557	G497	A434	A368	A305	G243	U182
G1133	C1069	A1005	G941	A872	A808	A743	A681	A621	U558	A498	A435	U369	A306	C244	U183
C1134	U1070	A1006	A942	A873	A809	C744	G682	G622	C559	U499	U436	G370	A307	G245	C184
U1135	C1071	C1006	C943	C874	C810	C745	G683	A561	A560	G500	A437	A371	G246	U246	U179
C1136	U1072	G1007	U944	U875	C811	A746	A684	G623	A561	A501	A438	A372	U310	G249	U186
U1137	A1073	C1008	A945	U876	G812	G747	G685	G624	C562	G502	A439	A373	C311	U250	A187
U1138	U1074	A1009	U946	U877	C813	G748	U686	C625	A564	U503	A441	A374	U312	A251	A188
A1139	C1075	G1010	U947	G878	U815	G750	U688	A628	U566	A504	G442	A375	U313	A252	G189
														G253	U190

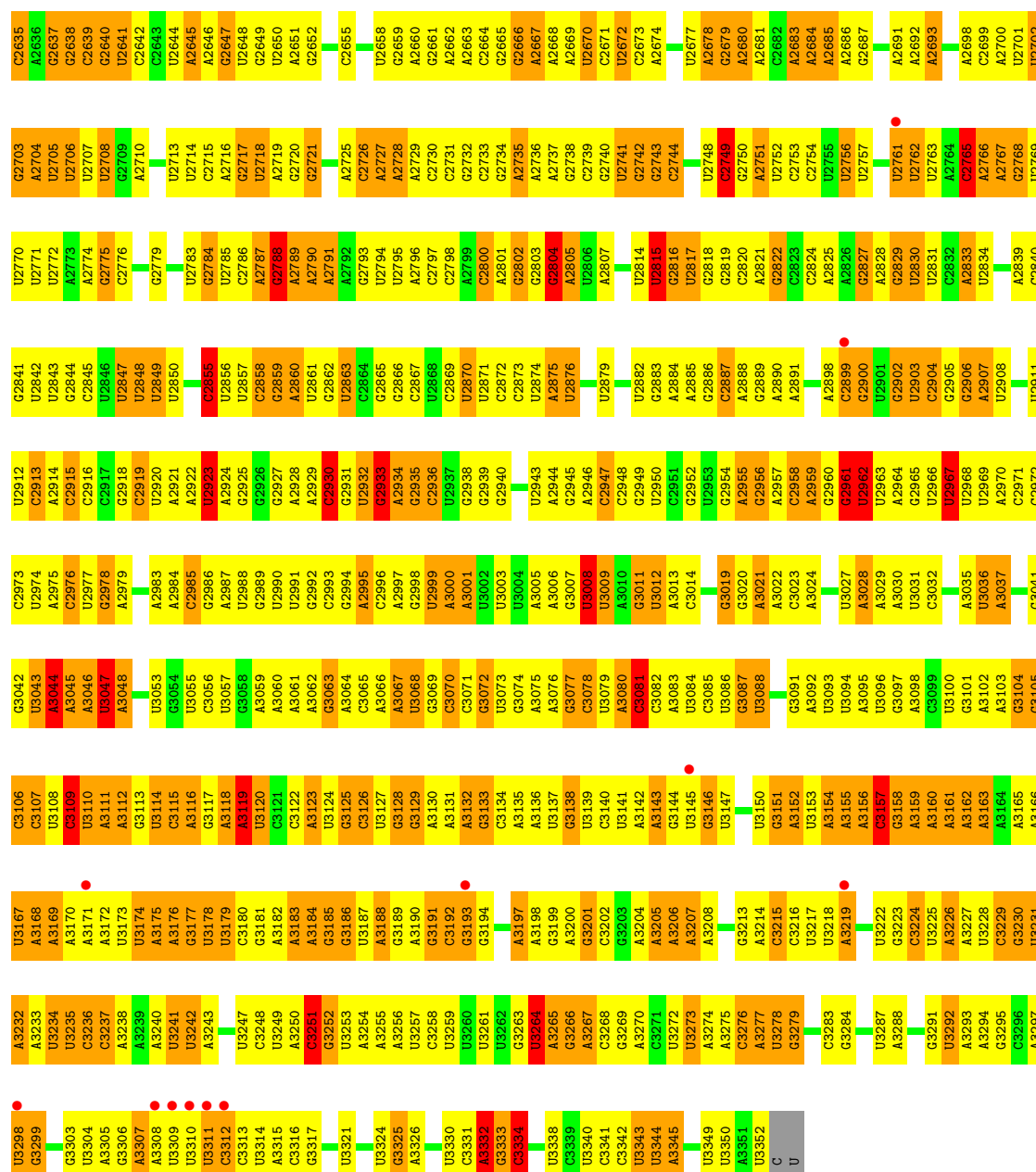
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C	C	C	C	G1732	U	A1662	U1600	A1535	G1474	U1408		U	U	C1225	
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U	U	U	U	U1745	U		A1613	G1548	A1486	U1424	U1361	A	A	U1237	A1177
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U	U	U	U	U1749	U	U1683	A1618	U1552	G1490	G1428	C1365	A	A	U1241	A1181
U	U	U	U	A1751	U	C1684	A1619	C1553	A1491	G1429	C1366	C	C	U1242	C1182
U	U	U	U	G1752	U	A1685	U1620	G1554	G1492	G1430	A1367	U	U	U1243	C1183
U	U	U	U	A1753	U	G1686	G1621	A1555	A1493	U1431	U1368	C	C	A1244	U1184
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U	U	U	U	U1758	U	C1694	A1628	C1565	U1498	C1436	G1373	U	U	G1249	U1189
U	U	U	U	C1759	U	A1695	U1629	A1566	G1499	U1437	C1374	C	C	A1250	U1190
U	U	U	U	G1760	U	C1696	U1630	U1567	A1500			C	C	C1251	G1191
U	U	U	U	A1766	U	U1697	U1631	A1567				C	C	A1252	A1192
U	U	U	U	U1767	U	G1699	U1632	U1570	A1503	A1438	A1375	C	C	U1253	G1193
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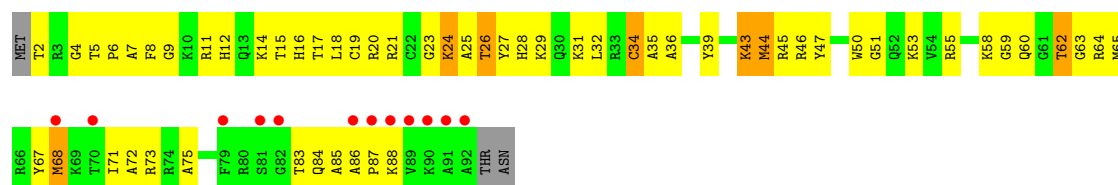
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C757	A696	A697	G698	C699	G700	A701	G702	U703	U704	A705	U706	G707	U708	A709	G710	U711	G712	U713	U714	A715	U716	A717	U718	A719	U720	A721	U722	U723	G724	U725	U726	G727	U728	A729	U730	A731	U732	G733	A734	U735	A736	G737	U738	G739	A740	U741	U742	U743	A744	U745	A746	U747	U748	U749	U750	U751	U752	U753	A754	U755	G756	U757	U758	U759	U760	U761	U762	U763	U764	U765	U766	U767	U768	U769	U770	U771	U772	U773	U774	U775	U776	U777	U778	U779	U780	U781	U782	U783	U784	U785	U786	U787	U788	U789	U790	U791	U792	U793	U794	U795	U796	U797	U798	U799	U800	U801	U802	U803	U804	U805	U806	U807	U808	U809	U810	U811	U812	U813	U814	U815	U816	U817	U818	U819	U820	U821	U822	U823	U824	U825	U826	U827	U828	U829	U830	U831	U832	U833	U834	U835	U836	U837	U838	U839	U840	U841	U842	U843	U844	U845	U846	U847	U848	U849	U850	U851	U852	U853	U854	U855	U856	U857	U858	U859	U860	U861	U862	U863	U864	U865	U866	U867	U868	U869	U870	U871	U872	U873	U874	U875	U876	U877	U878	U879	U880	U881	U882	U883	U884	U885	U886	U887	U888	U889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	A1000	G1001	U1002	A1003	U1004	A1005	C1006	C943	G1007	A1008	A1009	C1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097	U1098	U1099	U1100	U1101	U1102	U1103	U1104	U1105	U1106	U1107	U1108	U1109	U1110	U1111	U1112	U1113	U1114	U1115	U1116	U1117	U1118	U1119	U1120	U1121	U1122	U1123	U1124	U1125	U1126	U1127	U1128	U1129	U1130	U1131	U1132	U1133	U1134	U1135	U1136	U1137	U1138	U1139	U1140
U186	A187	G188	A189	U190	U191	C192	C193	G196	C197	A198	A199	C200	A201	G202	A203	C204	G205	G206	U207	C208	A209	A210	A211	G212	A213	G214	G215	G216	U217	G218	A219	C220	A221	A222	G223	C224	C225	C226	C227	U228	A229	G230	U231	C232	G233	G236	A237	G238	G239	A240	A241	G242	G243	U249	U250	A251																																																																																																																																																																																																																																																																																																																																																																																																						
A252	G253	G254	G255	A256	G257	A258	U261	A262	A263	A264	A265	G266	A267	G268	U269	G270	G271	G272	G273	U274	U275	G276	U277	U278	U279	G280	G281	G282	A283	U284	U285	G286	C287	A288	G289	C290	C291	C292	U293	U294	A295	G296	U297	G298	C299	A301	G302	U304	A305	A306	A307	U310	G311	U312	U313																																																																																																																																																																																																																																																																																																																																																																																																							
C314	U315	A316	A317	A318	G319	C320	A323	A324	U325	A326	U327	A328	C329	A330	C331	G332	G333	G334	A335	G336	A337	C338	G339	G340	A341	U342	A343	G344	C345	G346	A347	A348	A349	A350	A351	G352	U353	C354	C355	U356	G357	C358	G359	A360	G361	G362	G363	A364	A365	A366	G367	A368	U369	G370	A371	A372	A373	A374																																																																																																																																																																																																																																																																																																																																																																																																				
G375	A376	C377	U379	A383	A384	A385	A386	G387	A388	G389	G390	A396	G397	G398	A399	C400	U401	U402	G403	A404	A405	A406	A407	C408	G409	G412	A413	G414	A415	A416	G417	G418	A419	A420	G421	C422	U423	U424	U425	A426	G427	A428	A429	G430	A431	G432	C433	A434	A435	U436	U437	A438	A439	C440	U441																																																																																																																																																																																																																																																																																																																																																																																																							
G442	G443	A444	C445	G446	G447	C448	G449	C450	U451	U452	A453	A454	G455	C458	G459	A460	A461	G462	U463	A464	C465	U466	A467	A468	U469	C470	A471	C472	U473	G474	C475	A476	C481	G482	A483	U484	A485	C486	G487	U488	A489	A490	A491	A492	C493	G497	A498	U499	C500	A501	G502	U503	A504	A505	G506	G507																																																																																																																																																																																																																																																																																																																																																																																																						
A508	A509	U510	G511	G512	U513	U514	C515	A516	A517	G518	A519	A520	C521	U522	U523	G524	C525	U526	A527	G528	G529	C530	C531	G532	G533	U534	C535	A536	G537	A538	A539	G540	A541	C542	A543	A546	U547	G548	G549	G550	U551	U552	C553	A554	A555	A556	U557	U558	G559	A560	A561	G562	G563	U564	G565	U566	A568																																																																																																																																																																																																																																																																																																																																																																																																					
G572	A573	G574	A575	U576	C577	G578	G579	A580	U581	C582	A583	C584	A585	A586	U587	G588	C589	A590	G591	A592	U593	C594	A595	A596	A597	G598	G599	G600	A601	A602	A603	C604	A605	A606	U607	C608	A609	A610	A611	C612	G613	G614	G615	A616	C617	U618	G619	A620	G621	G622	A623	G624	U625	G626	U627	A628	G629	G630																																																																																																																																																																																																																																																																																																																																																																																																				
G631	G632	C633	G634	A635	U636	U637	U638	U639	U640	U641	C642	A643	A644	A645	U646	U651	U652	C653	U654	A655	C656	C660	C661	C662	U663	G664	U665	C666	A667	A668	A669	C672	A673	C674	G675	U676	A677	C678	C679	A680	A681	G682	G683	A684	G685	U686	U687	G688	U689	G690	U691	C692	U693	A694	U695																																																																																																																																																																																																																																																																																																																																																																																																							
A696	A697	G698	C699	G700	A701	G702	U703	U704	A705	U706	G707	U708	A709	G710	U711	G712	U713	U714	A715	U716	A717	U718	A719	C720	C721	U722	U723	G724	U725	U																																																																																																																																																																																																																																																																																																																																																																																																																																

A	U	A1973	G1906	C1838	A1777	C1714	A1644	C1581	A1516	C1449	U1386	C1323	G	C1202	U1141
A	C	U1974	A1907	A1839	G1778	C1715	C1645	A1582	G1517	A1454	U1387	U1326	G	C1203	G1142
A	G		A1908	U1840	C1779	U1716	A1646	U1583	G1518	A1455	U1388	G1327	C	C1204	G1143
A	G		C1909	A1780	U1717	U1718	U1647	U1584	U1585	A1456	U1389	A1328	U	A1205	G1144
C	G		A1910	U1842	C1782	U1719	C1649	C1586	U1520	G1457	U1390	A1329	A	A1206	C1145
C	G		U1911	U1843	U1718	U1719	U1650	A1587	U1521	C1458	U1392	U1329	U	A1207	C1146
U	U		U1912	U1844	U1720	U1720	A1651	A1588	C1522	A1459	U1393	U1329	G	U1208	A1147
U	A		G1913	U1845	A1721	A1721	A1652	U1589	C1523	G1460	U1394	U1332	G	G1209	U1148
G	U		U1914	C1846	A1722	C1722	U1653	A1590	G1524	A1461	U1395	G1333	G	C1210	U1149
C	A		A1915	C1847	A1723	C1723	G1654	A1591	U1525	U1462	U1396	G1334	A	A1211	U1150
C	G		G1916	C1848	U1724	U1724	A1655	G1592	U1526	G1463	U1397	A1335	G	C1212	U1151
A	A		A1917	U1845	U1725	U1725	G1656	A1593	A1527	U1464	U1398	U1336	U	U1152	U1152
A	A		U1918	A1852	C1726	C1726	C1657	C1594	G1528	U1465	U1399	G1337	U	G1213	G1153
C	G		A1919	G1853	U1727	U1727	G1658	A1595	U1529	G1466	U1400	G1338	A	U1215	G1154
G	A		C1920	U1854	U1728	U1728	G1659	U1596	C1531	G1467	G1401	C1339	G	C1216	U1155
G	C		U1921	U1855	A1728	U1728	G1659	U1597	A1532	U1468	G1402	G1340	A	A1217	A1156
U	U		G1922	C1856	U1729	U1729	A1661	U1598	G1533	G1469	U1403	U1342	U	U1218	A1157
U	U		G1923	G1857	G1730	U1730	A1662	C1604	C1534	G1470	U1404	G1343	C	C1219	G1158
G	U		U1924	U1858	U1731	C1731	C1663	U1599	A1535	U1471	U1405	A1344	U	A1220	C1159
A	A		A1925	U1861	C1732	C1732	G1664	U1601	A1536	A1472	G1406	A1345	C	G1221	A1160
U	U		G1926	C1862	C1733	C1733	C1665	U1602	U1537	U1473	A1407	U1346	G	A1222	G1161
U	A		U1927	A1863	U1734	U1734	C1666	U1603	U1538	U1476	U1408	G1348	U	U1223	A1162
C	G		C1928	U1864	U1735	U1735	A1667	C1604	G1539	G1476	U1409	U1349	A	C1225	U1165
C	G		G1929	U1865	U1736	U1736	A1668	G1605	U1540	C1477	G1410	G1350	A	G1226	G1166
G	C		U1930	A1866	U1737	U1737	G1669	U1606	U1541	A1478	U1411	U1351	G	A1227	G1167
C	A		C1931	A1867	A1738	U1738	A1670	U1607	C1542	U1479	U1412	U1352	G	C1228	G1168
A	U		A1932	C1867	U1739	U1739	U1671	U1608	U1543	A1480	G1413	G1353	A	A1231	G1169
A	A		A1933	C1868	U1740	U1740	U1672	U1609	A1544	U1481	C1414	C1354	U	A1232	A1170
G	U		U1934	G1869	U1741	U1741	C1674	U1609	G1545	A1482	C1415	C1355	G	U1237	U1171
G	U		U1935	C1870	G1742	G1742	G1675	C1610	G1546	U1483	U1416	G1356	U	G1233	G1172
C	C		U1936	A1871	G1743	G1743	G1676	C1610	G1547	U1484	A1417	A1357	C	G1234	A1173
G	A		G1937	U1872	U1744	U1744	G1677	A1613	U1548	C1485	G1418	U1358	G	U1235	G1174
G	G		G1938	C1873	U1745	U1745	A1680	A1614	U1549	A1486	A1419	C1359	G	G1236	G1175
U	U		C1941	A1874	U1746	U1746	C1681	G1615	A1550	A1487	U1487	C1360	A	U1237	G1176
U	U		U1942	G1875	U1747	U1747	G1682	G1616	C1551	U1488	U1423	U1361	A	G1238	A1177
C	U		G1876	U1876	U1748	U1748	U1683	A1617	U1552	A1489	U1424	C1362	C	U1239	U1178
C	G		A1813	U1813	U1751	U1751	G1684	A1619	C1553	G1490	U1425	A1363	A	G1240	G1179
G	U		U1814	U1814	G1752	G1752	A1685	U1620	G1554	A1491	U1426	A1364	A	U1241	A1180
U	U		C1880	C1881	U1753	U1753	C1686	G1621	U1555	G1492	G1427	C1365	C	U1242	A1181
U	U		A1945	A1882	G1754	G1754	G1687	A1622	A1561	A1494	G1428	C1367	U	A1243	C1182
C	G		C1947	G1883	U1755	U1755	U1691	G1624	U1562	C1495	G1429	A1368	C	U1244	C1183
G	U		U1948	A1884	U1756	U1756	G1692	U1625	A1563	C1496	C1430	C1369	A	U1245	U1184
U	U		G1885	U1885	U1757	U1757	C1693	U1626	C1564	U1497	U1431	C1370	A	A1246	A1185
C	A		U1949	U1886	A1758	A1758	C1694	U1627	U1565	U1498	G1432	G1371	C	C1247	A1186
C	A		C1950	U1886	U1759	U1759	A1695	A1628	U1566	G1499	G1434	A1372	U	G1248	C1187
U	U		G1951	C1890	C1759	C1759	C1696	U1629	A1567	A1500	U1435	G1373	C	A1249	U1188
U	U		U1952	A1891	U1760	U1760	G1697	U1630	U1570	A1503	C1436	C1374	C	U1250	U1189
A	A		G1953	C1892	G1761	G1761	G1698	A1630	U1571	C1504	U1437	A1375	C	C1251	U1190
U	U		U1954	C1893	U1762	U1762	C1699	U1631	U1572	C1505	A1438	A1376	A	G1252	G1191
A	A		A1955	C1894	U1763	U1763	G1700	U1632	U1573	C1506	U1439	A1377	C	C1253	A1192
C	C		U1956	U1895	U1764	U1764	A1700	U1633	U1574	A1507	U1440	G1378	A	A1254	G1193
C	C		A1957	C1896	U1765	U1765	C1701	U1634	U1575	A1508	U1441	C1380	C	A1255	A1194
A	A		G1958	U1897	U1766	U1766	A1702	C1636	U1576	U1510	U1442	G1381	A	G1256	U1195
U	U		U1959	C1898	U1767	U1767	G1703	A1637	C1577	G1511	U1443	A1382	C	U1257	A1196
A	A		G1964	C1899	U1768	U1768	U1704	C1638	U1578	G1512	U1444	A1383	A	A1197	G1197
U	U		U1965	U1899	U1769	U1769	U1705	A1639	U1579	U1511	U1445	G1384	C	G1198	G1198
U	A		C1966	C1901	U1770	U1770	U1706	C1640	U1578	G1512	U1446	A1385	G	U1199	C1200
A	A		U1967	G1902	U1771	U1771	U1707	U1641	U1578	G1512	U1447	G1385	U	A1201	G1201
C	G		G1971	A1903	U1772	U1772	U1708	U1642	U1579	G1513	U1448				
C	U		U1904	G1902	C1774	C1774	C1709	G1642	U1578	G1513	U1448				
A	G		U1905	A1905	G1775	G1775	U1710	G1643	U1580	A1513					
A	G		G1972	G1972	G1776	G1776	U1711								

U2999	G2935	A2796	G2732	G2686	G2604	U2542	C	U2416	G2353	A2290	G2222	A2154	U
A3000	C2936	C2797	C2733	A2687	C2605	C2542	U	C2417	C2354	A2291	A2223	C2155	C
U3001	G2939	A2798	A2734	A2688	G2606	U2544	G	U2418	C2355	U2292	A2227	G2156	A
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U3003	G2941	C2800	A2736	C2670	G2610	A2546	A	U2420	C2357	A2294	G2229	C2158	
U3004	G2942	A2801	A2737	C2671	G2611	U2547	A	U2421	G2358	G2295	C2230	C2159	
A3005	G2943	G2802	G2738	U2672	C2612	G2548	A	C2422	C2359				
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G3007	G2945	C2804	G2740	A2674	G2614	U2550	C	A2424	U2361	A2163		A2162	G2101
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C2947	U2806	U2806	G2676	C2676	A2616	A2552	A	C2426	A2363	A2165	C2240	C2164	C2103
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G3010	G2948		C2744	A2678	G2617	G2554	U	U2428	G2365	C2303	G2242	U2168	G2105
G3011	U2950			G2679	C2618	U2555	A	U2429	G2366	A2304		G2169	A2107
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G3014	U2953	G2816	C2749	A2683	G2621	U2558	C	A2432	A2369	A2307	G2245	G2172	C2110
G3015	G2954	U2817	A2750	A2684	G2622	U2559	C	G2433	G2370	A2308	G2246	G2173	G2111
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G3059	U2995	U2869	U2793	C2731	G2665	G2603	U2541	C	C2415		U2289	U2221	G2153



• Molecule 3: RPL39



• Molecule 3: RPL39



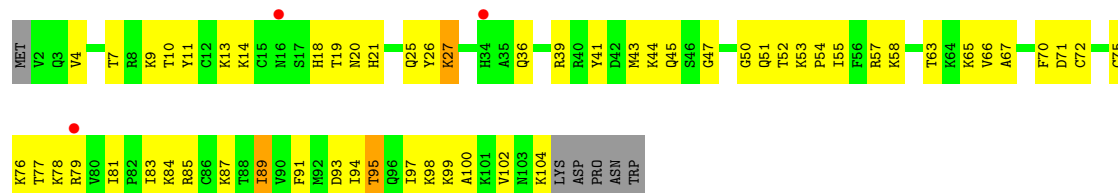
• Molecule 3: RPL39



• Molecule 3: RPL39



• Molecule 4: 60S RIBOSOMAL PROTEIN L36A

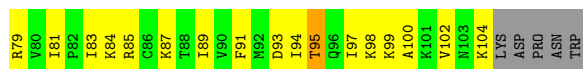
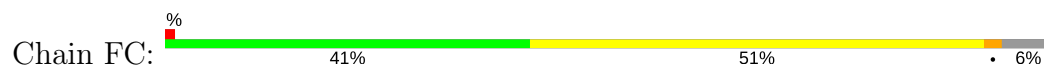


• Molecule 4: 60S RIBOSOMAL PROTEIN L36A





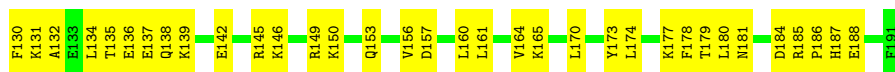
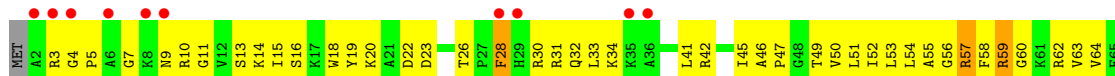
• Molecule 4: 60S RIBOSOMAL PROTEIN L36A



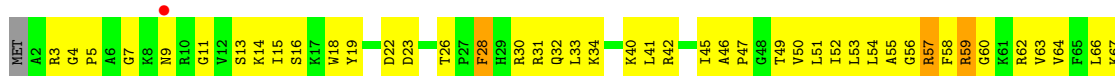
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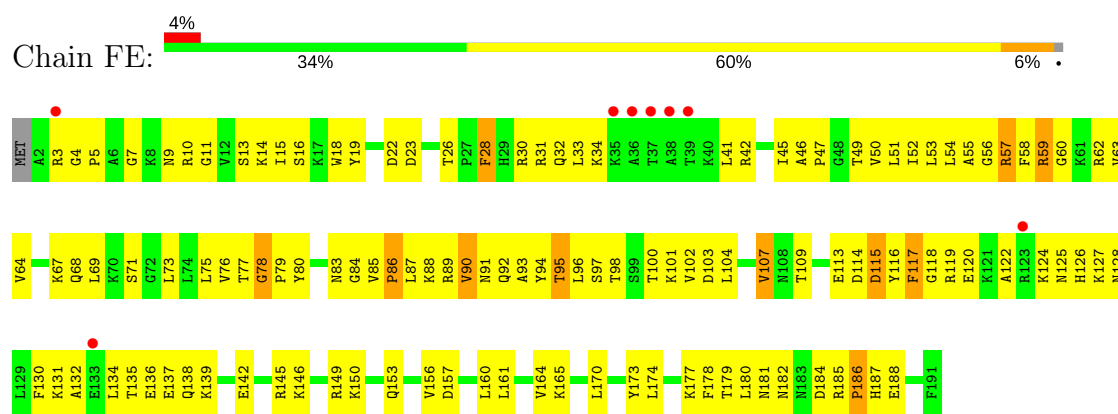
• Molecule 5: RPL6



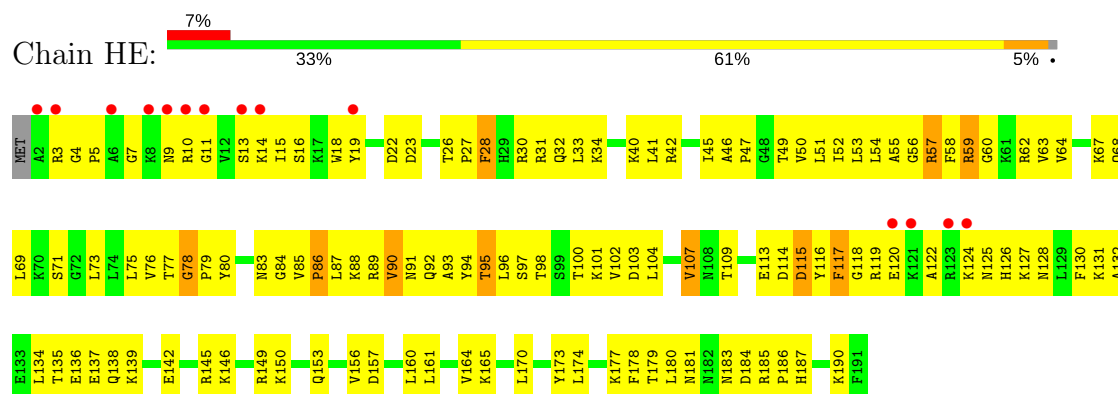
• Molecule 5: RPL6



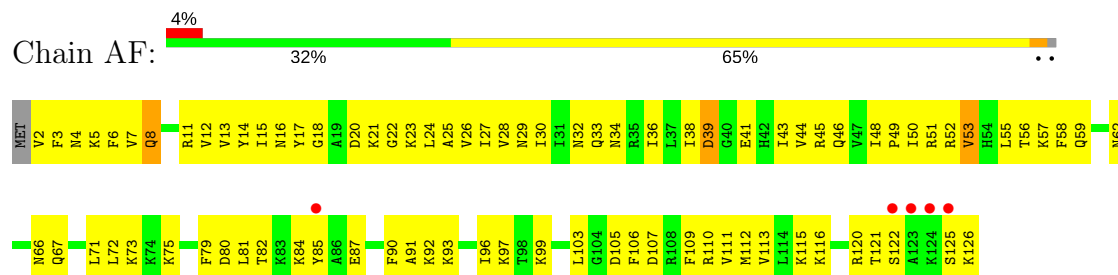
• Molecule 5: RPL6



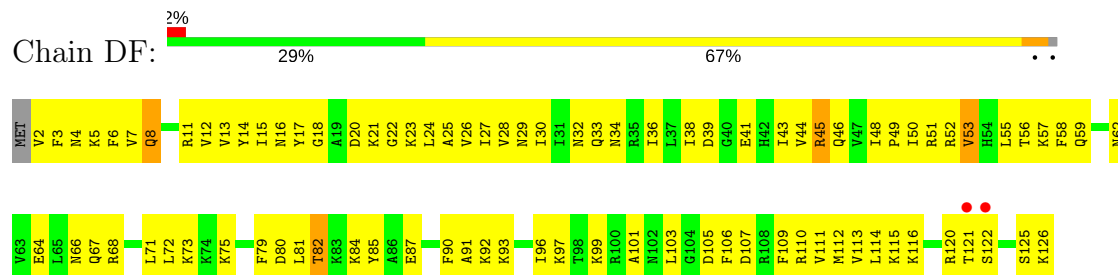
• Molecule 5: RPL6



• Molecule 6: RPL14



• Molecule 6: RPL14

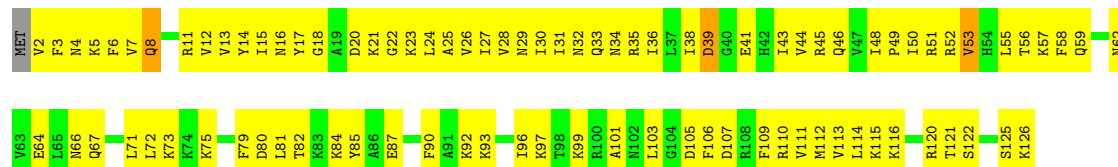
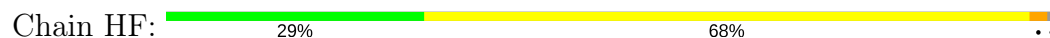


• Molecule 6: RPL14

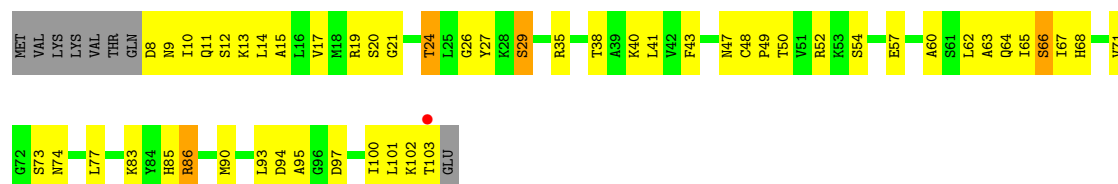
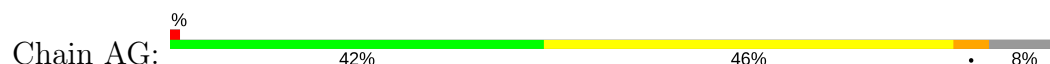




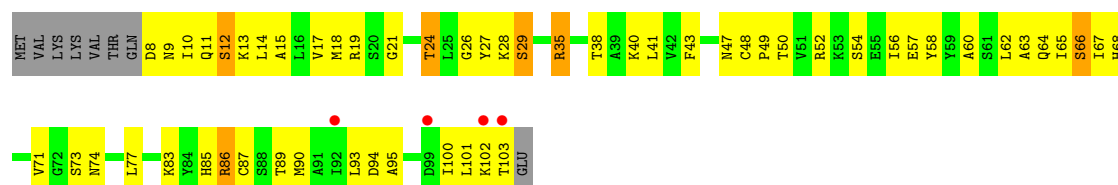
• Molecule 6: RPL14



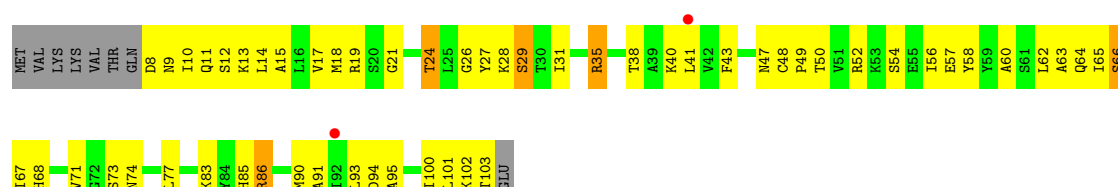
• Molecule 7: RPL30



• Molecule 7: RPL30

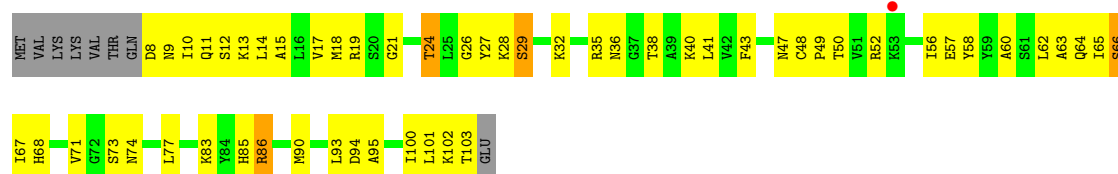


• Molecule 7: RPL30

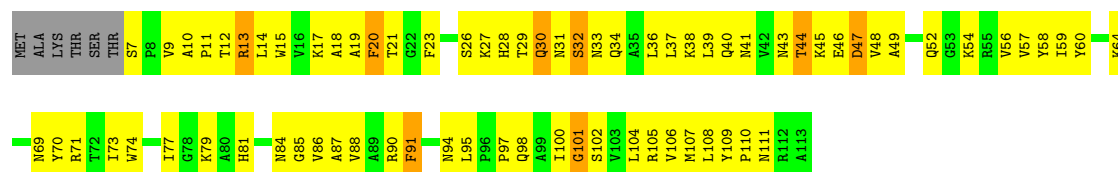


• Molecule 7: RPL30

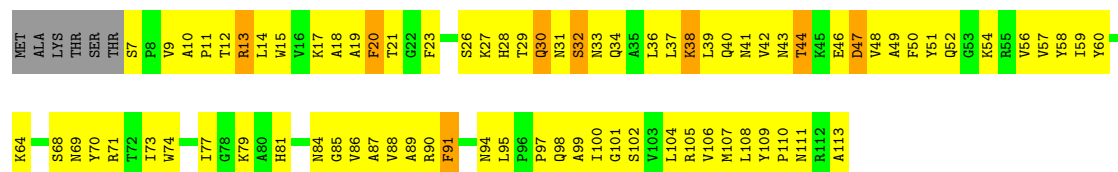
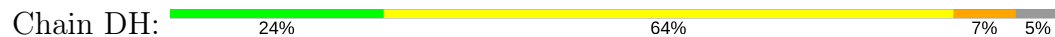




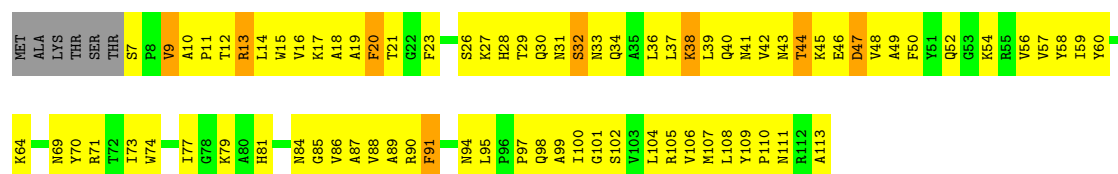
• Molecule 8: RPL35A



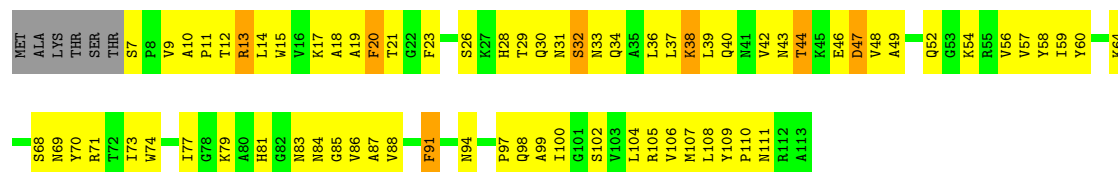
• Molecule 8: RPL35A



• Molecule 8: RPL35A

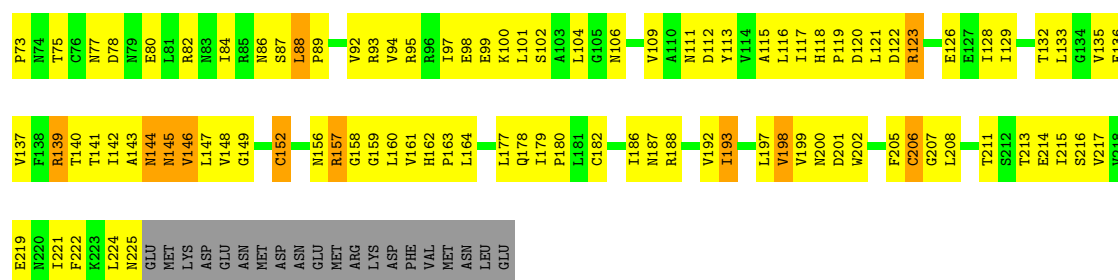


• Molecule 8: RPL35A



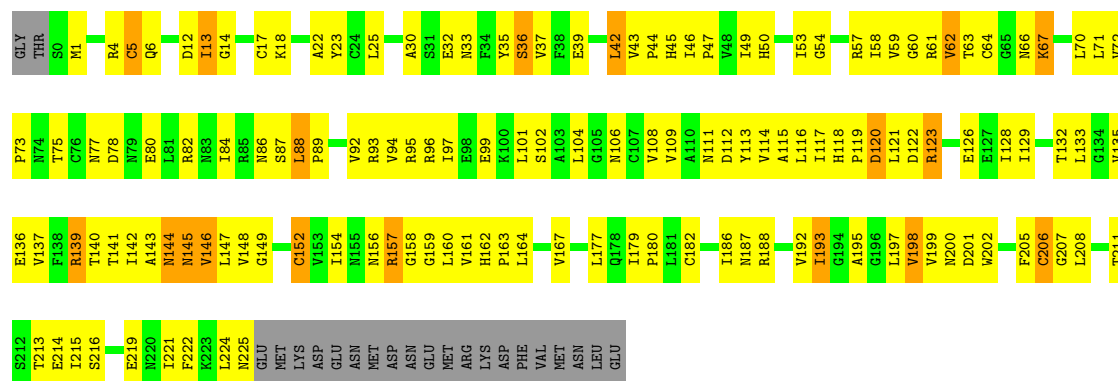
• Molecule 9: TRANSLATION INITIATION FACTOR EIF-6, PUTATIVE FAMILY PROTEIN





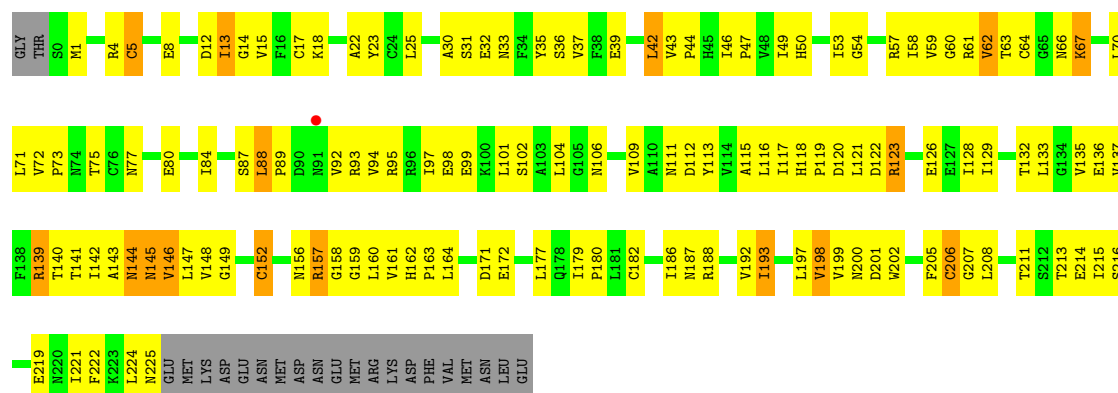
• Molecule 9: TRANSLATION INITIATION FACTOR EIF-6, PUTATIVE FAMILY PROTEIN

Chain DJ: 35% 49% 7% 9%



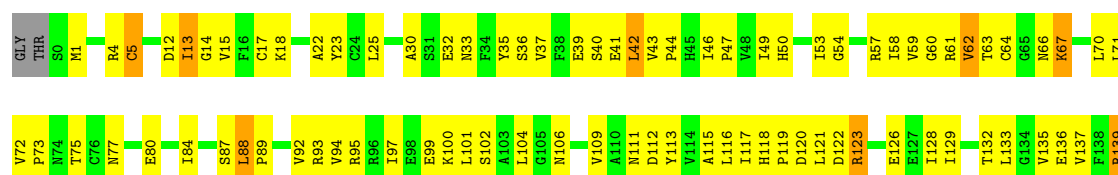
• Molecule 9: TRANSLATION INITIATION FACTOR EIF-6, PUTATIVE FAMILY PROTEIN

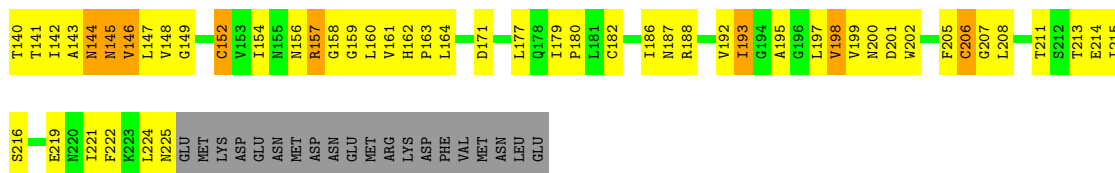
Chain FJ: 37% 48% 6% 9%



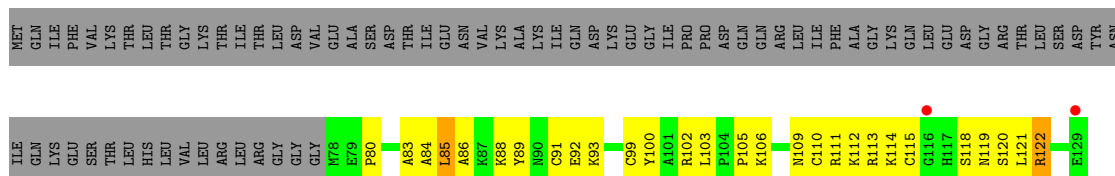
• Molecule 9: TRANSLATION INITIATION FACTOR EIF-6, PUTATIVE FAMILY PROTEIN

Chain HJ: 36% 48% 6% 9%

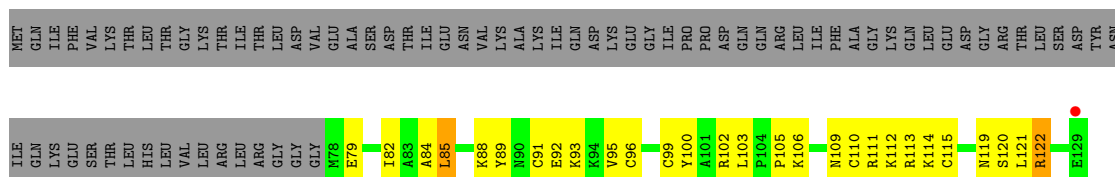




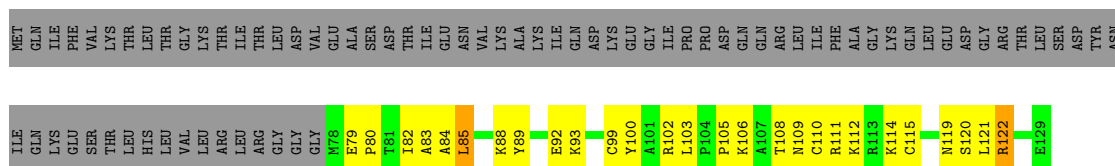
- Molecule 10: UBIQUITIN-60S RIBOSOMAL PROTEIN L40



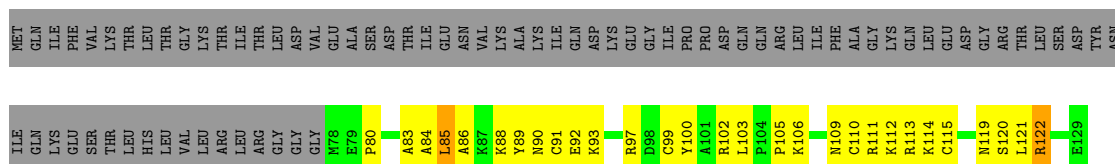
- Molecule 10: UBIQUITIN-60S RIBOSOMAL PROTEIN L40



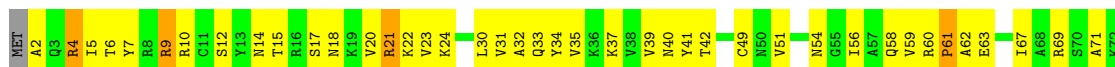
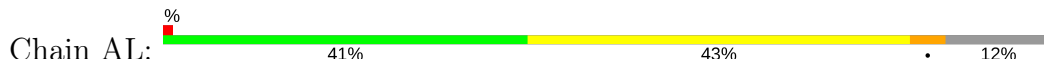
- Molecule 10: UBIQUITIN-60S RIBOSOMAL PROTEIN L40

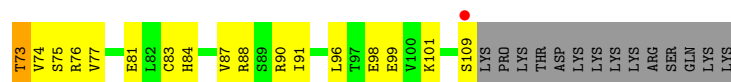


- Molecule 10: UBIQUITIN-60S RIBOSOMAL PROTEIN L40



- Molecule 11: RPL34





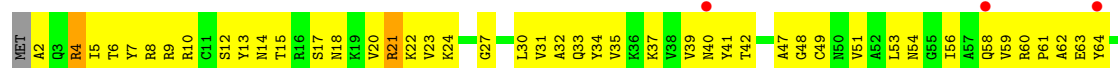
• Molecule 11: RPL34



• Molecule 11: RPL34



• Molecule 11: RPL34

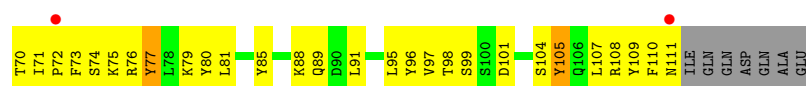


• Molecule 12: RIBOSOMAL PROTEIN L22



• Molecule 12: RIBOSOMAL PROTEIN L22

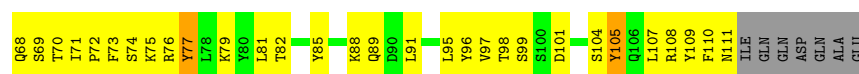




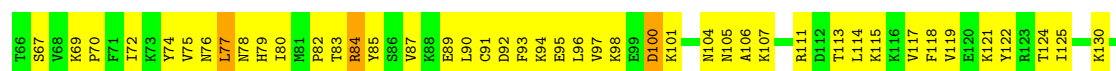
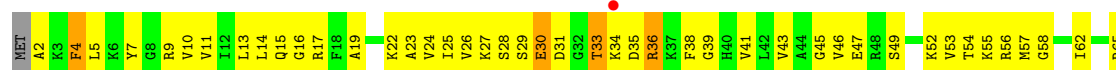
• Molecule 12: RIBOSOMAL PROTEIN L22



• Molecule 12: RIBOSOMAL PROTEIN L22



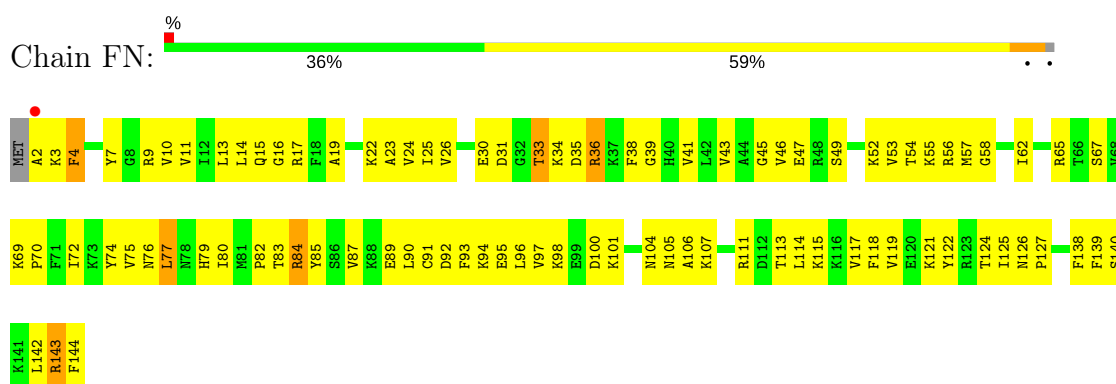
• Molecule 13: RPL27



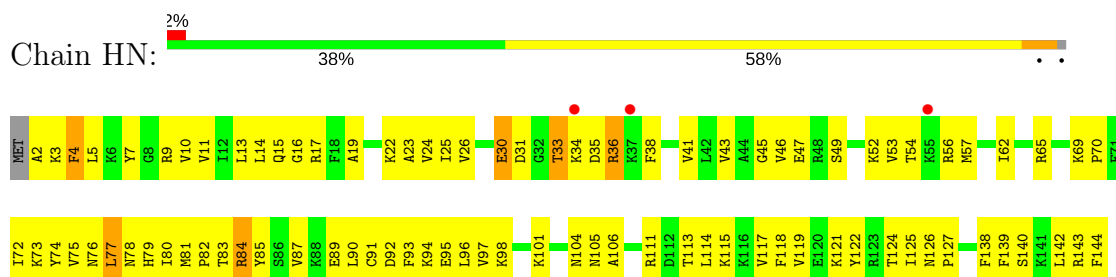
• Molecule 13: RPL27



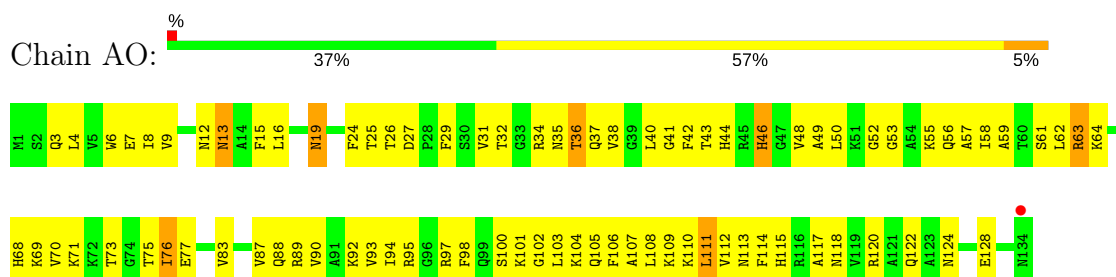
• Molecule 13: RPL27



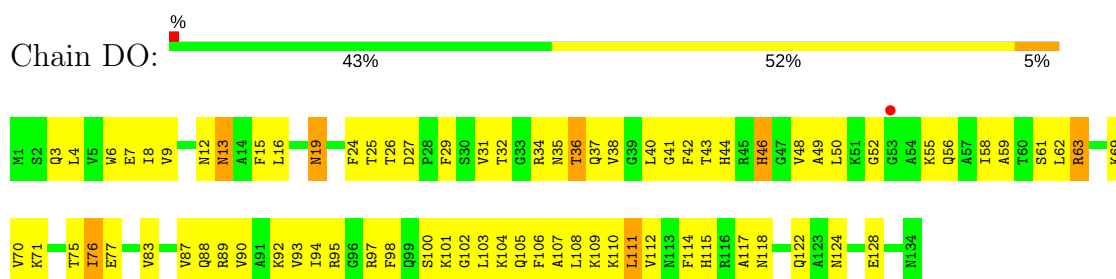
• Molecule 13: RPL27



• Molecule 14: RPL28



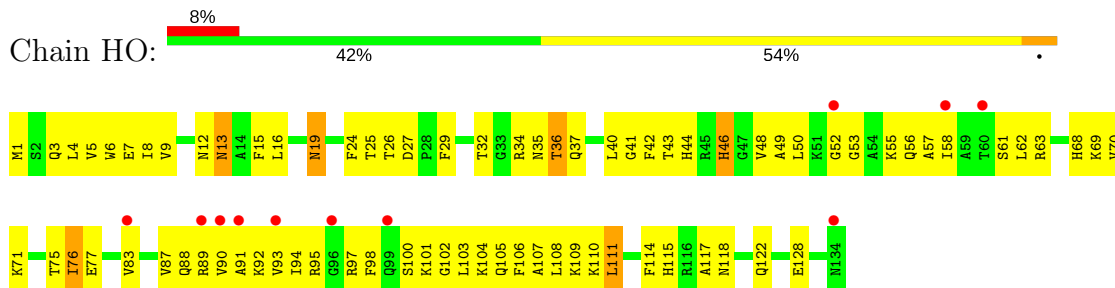
• Molecule 14: RPL28



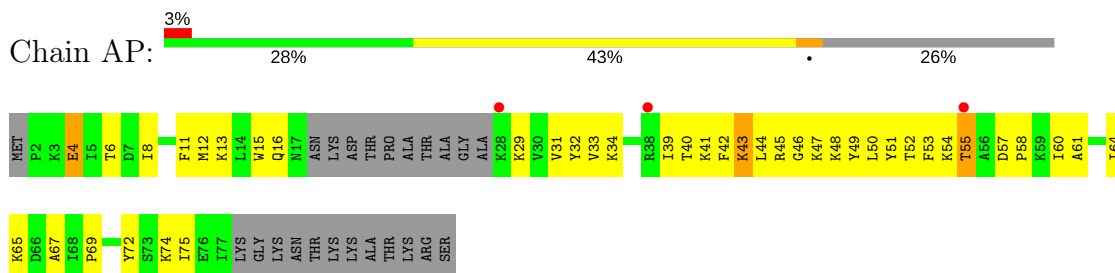
• Molecule 14: RPL28



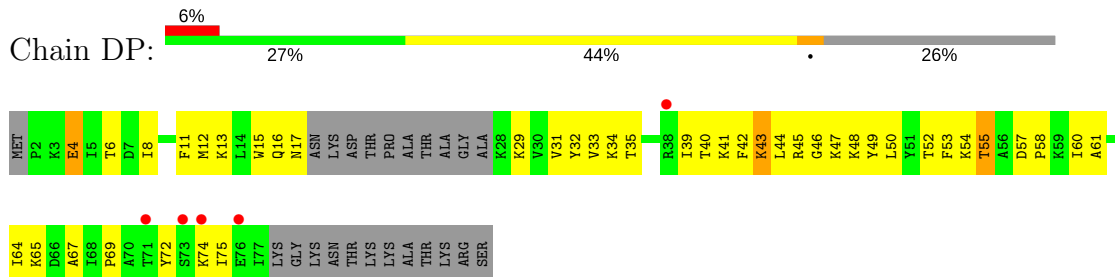
- Molecule 14: RPL28



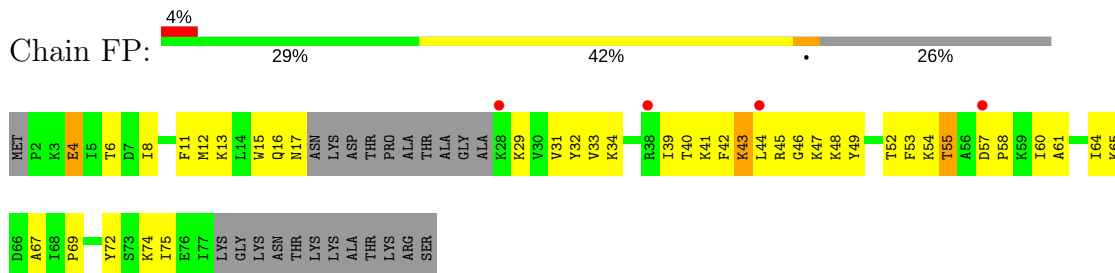
- Molecule 15: RPL38



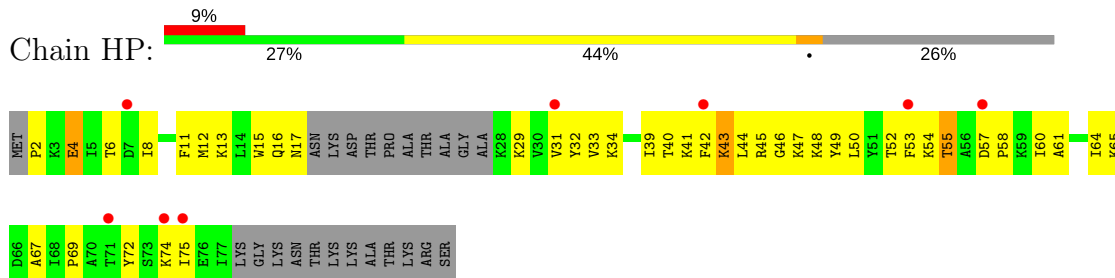
- Molecule 15: RPL38



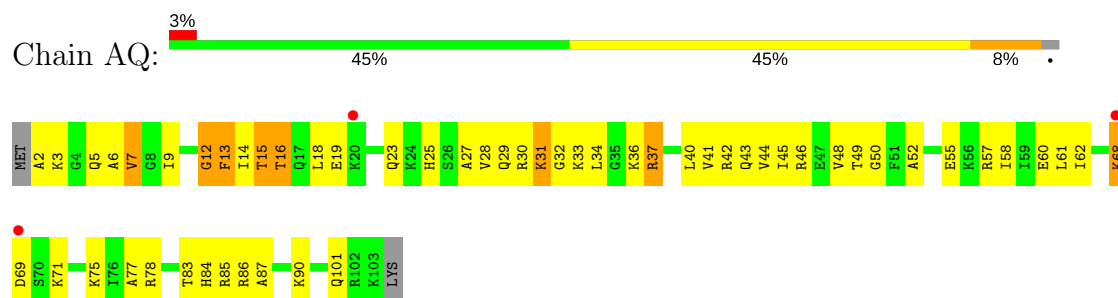
- Molecule 15: RPL38



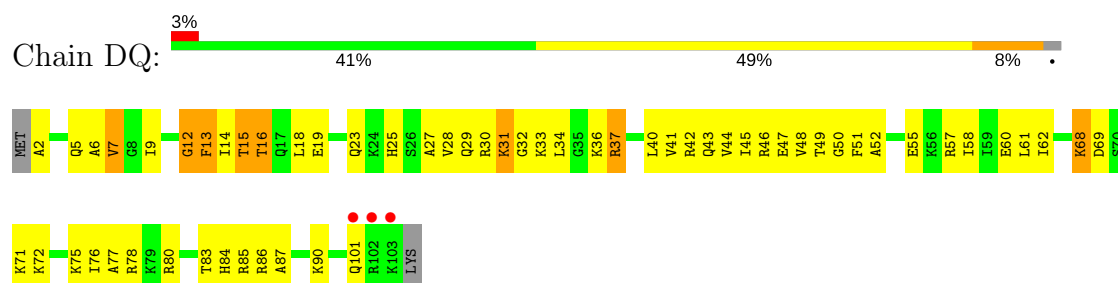
- Molecule 15: RPL38



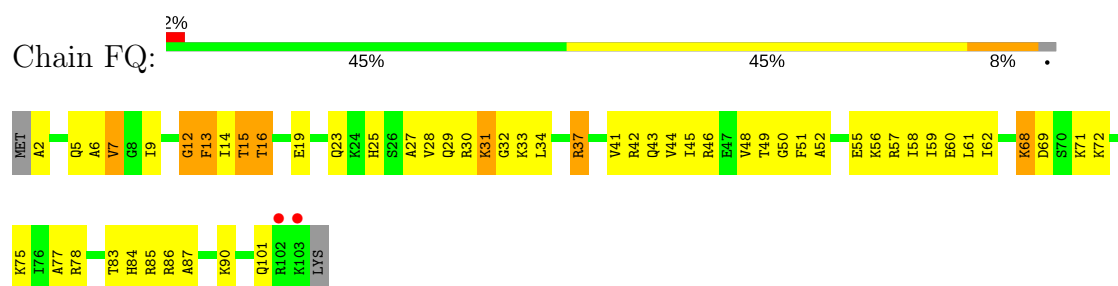
- Molecule 16: 60S RIBOSOMAL PROTEIN L36



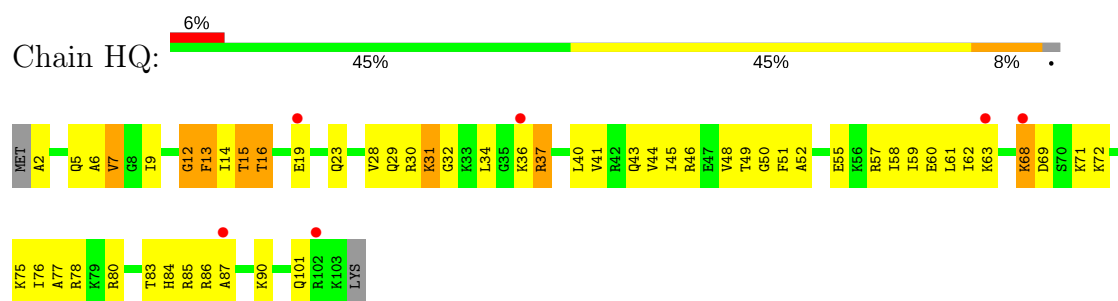
- Molecule 16: 60S RIBOSOMAL PROTEIN L36



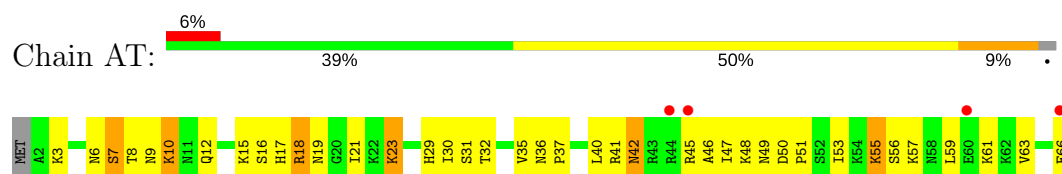
- Molecule 16: 60S RIBOSOMAL PROTEIN L36



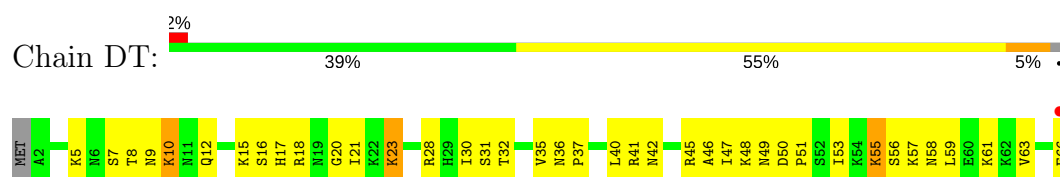
- Molecule 16: 60S RIBOSOMAL PROTEIN L36



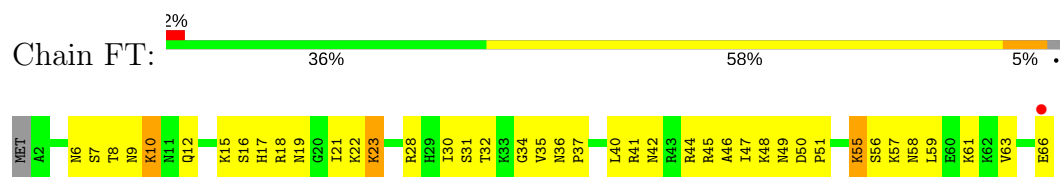
- Molecule 17: RPL29



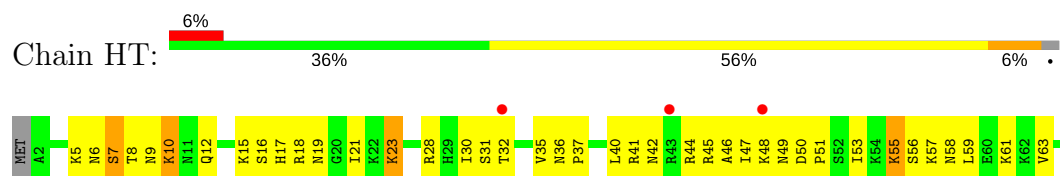
- Molecule 17: RPL29



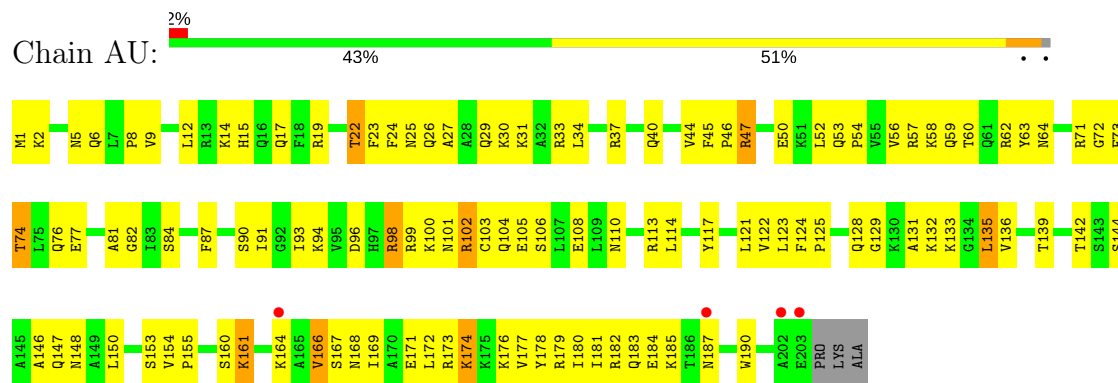
- Molecule 17: RPL29



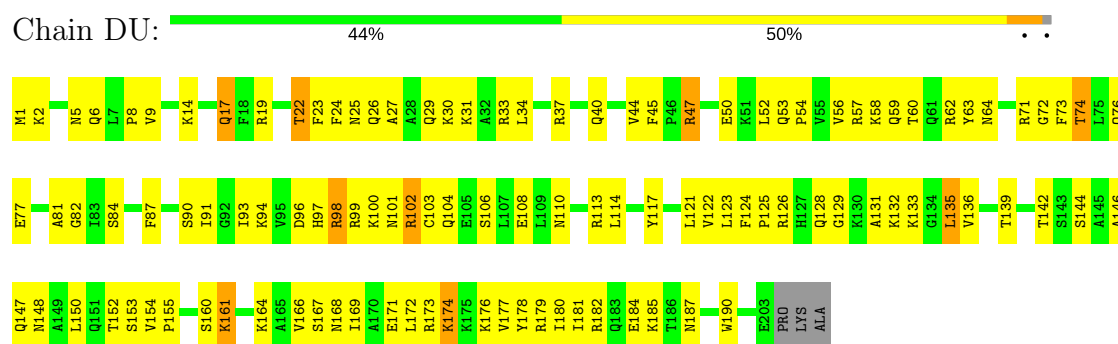
- Molecule 17: RPL29



- Molecule 18: RPL13

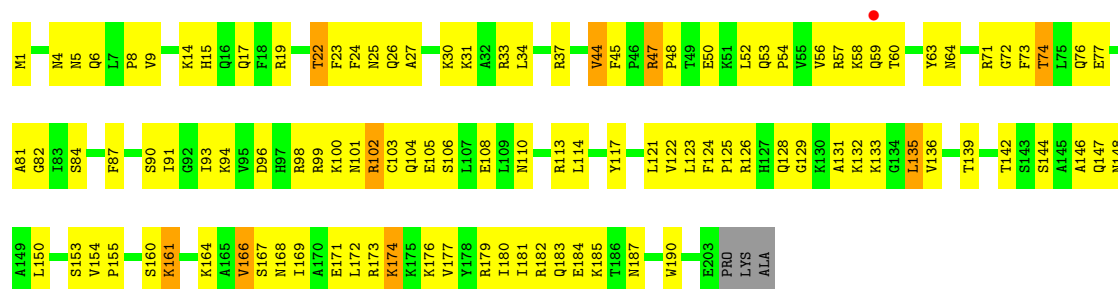


- Molecule 18: RPL13

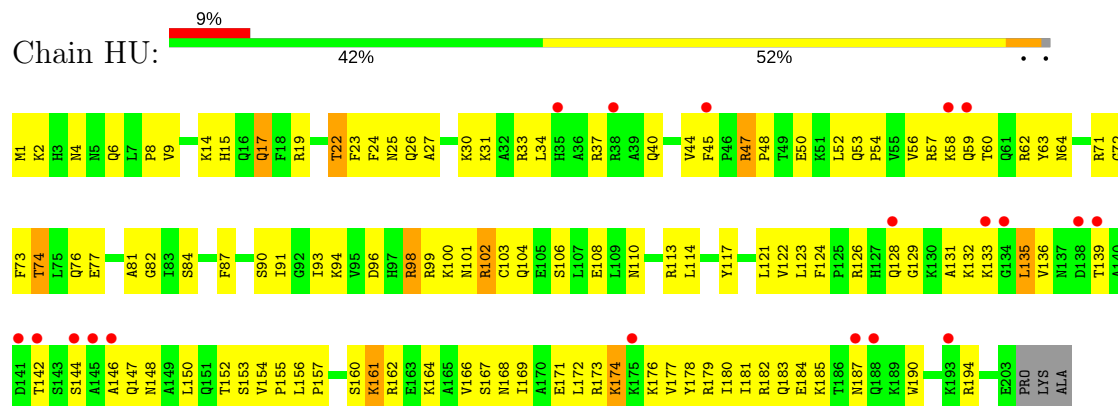


- Molecule 18: RPL13

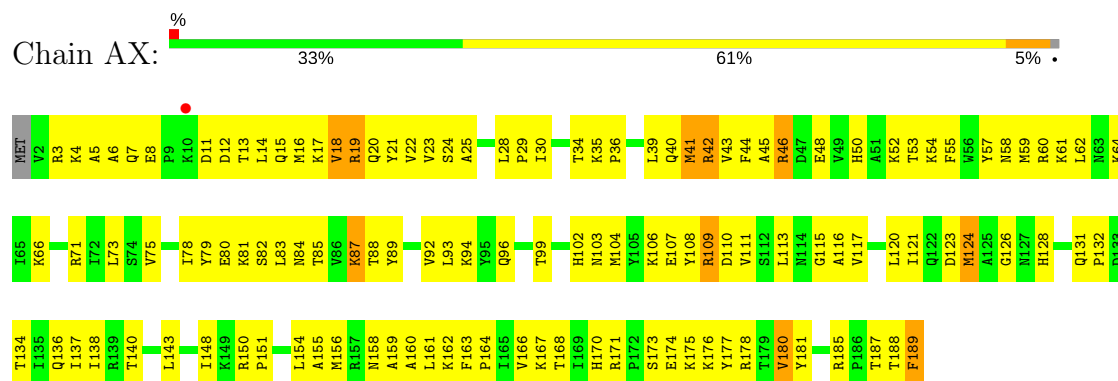




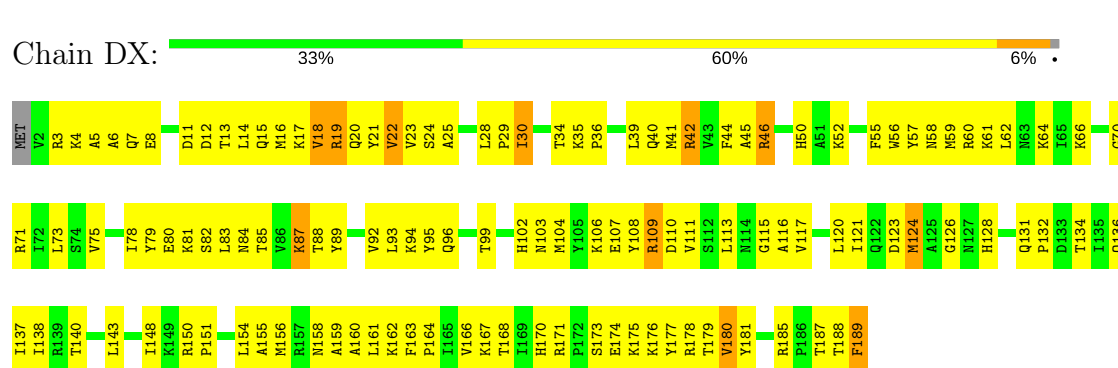
• Molecule 18: RPL13



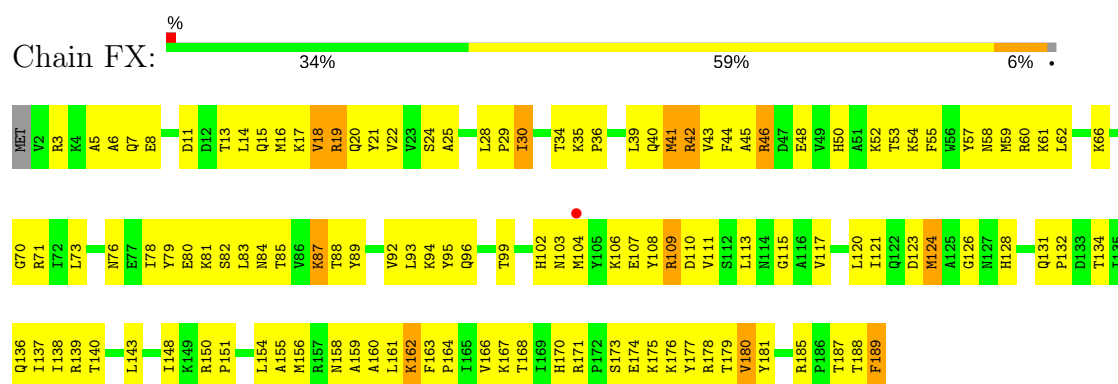
• Molecule 19: RPL18A



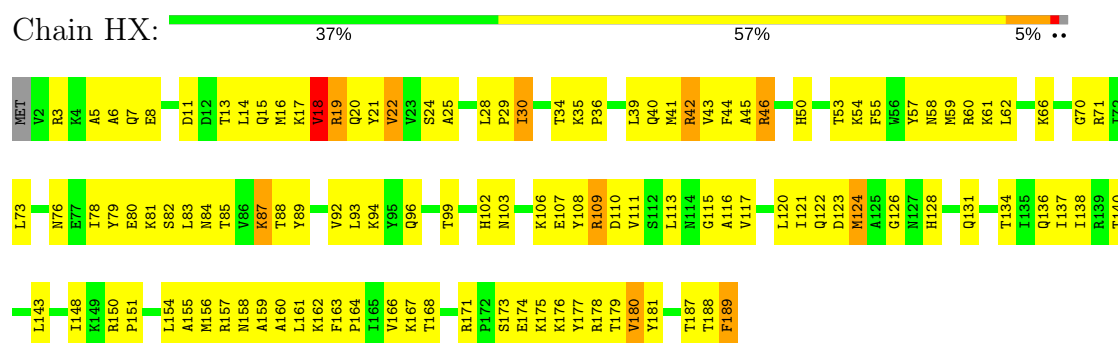
• Molecule 19: RPL18A



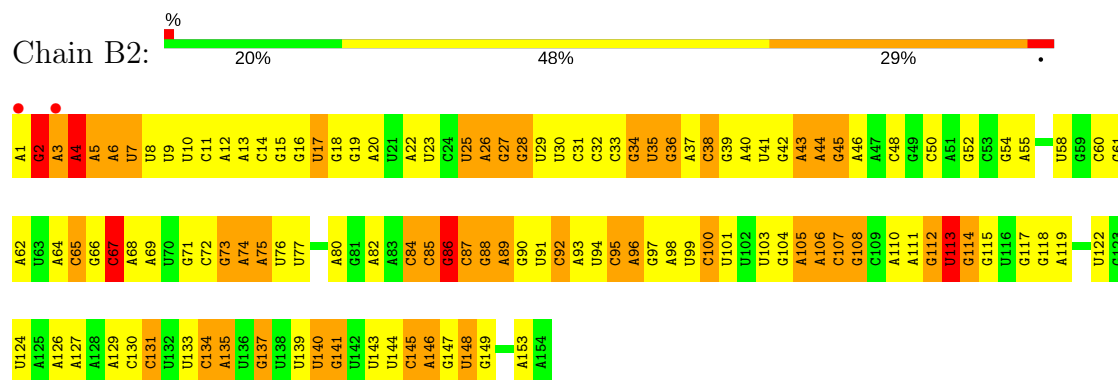
• Molecule 19: RPL18A



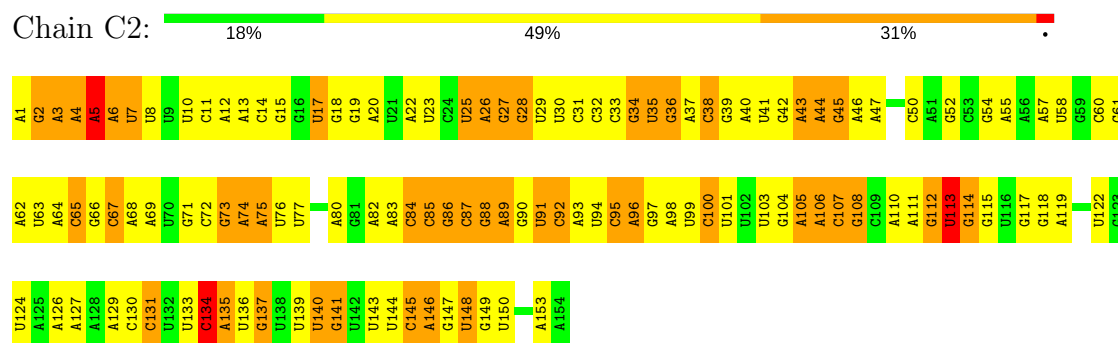
- Molecule 19: RPL18A



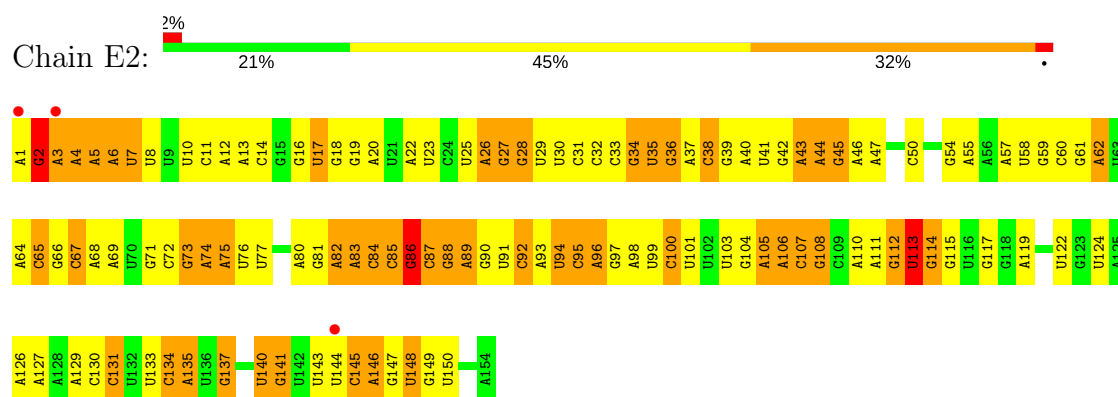
- Molecule 20: 5.8S rRNA



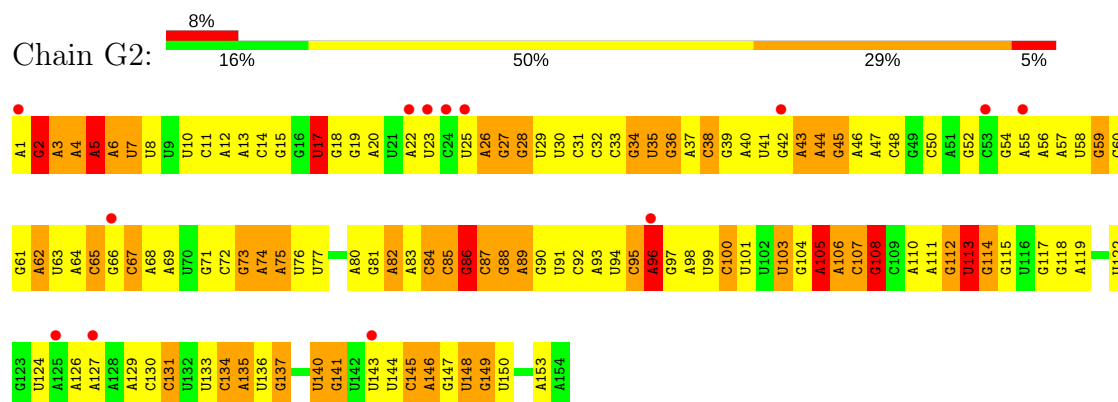
- Molecule 20: 5.8S rRNA



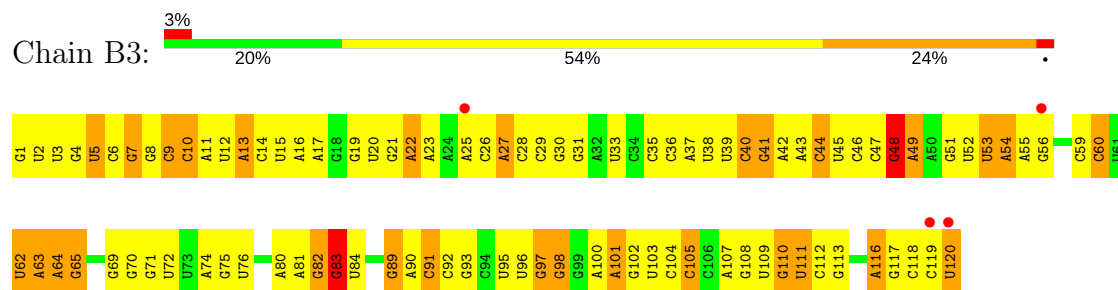
- Molecule 20: 5.8S rRNA



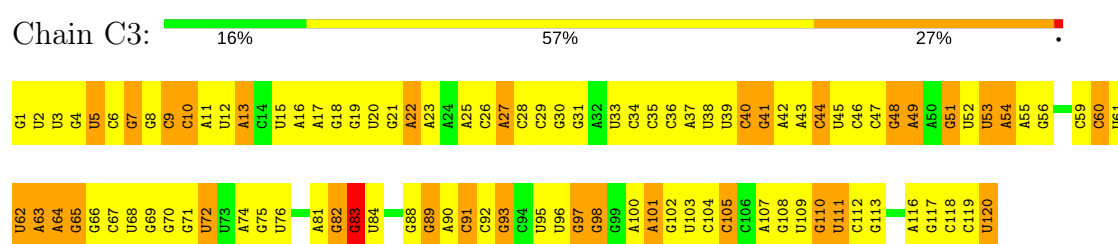
• Molecule 20: 5.8S RRNA



• Molecule 21: 5S RRNA

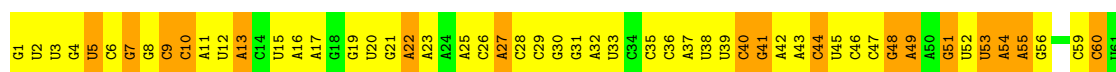


• Molecule 21: 5S RRNA

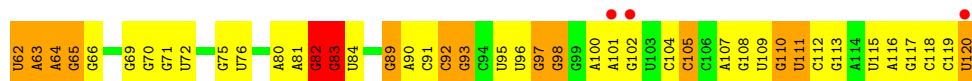
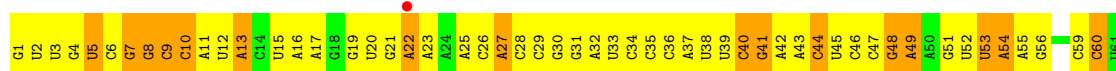


• Molecule 21: 5S RRNA

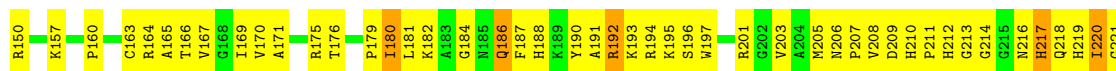
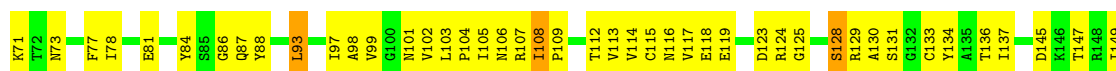




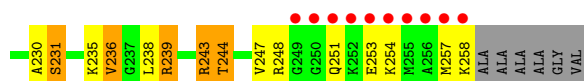
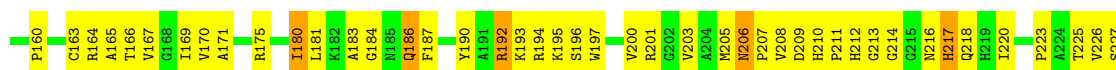
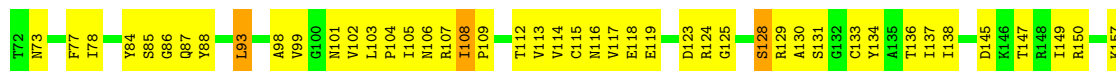
• Molecule 21: 5S rRNA



• Molecule 22: RPL8

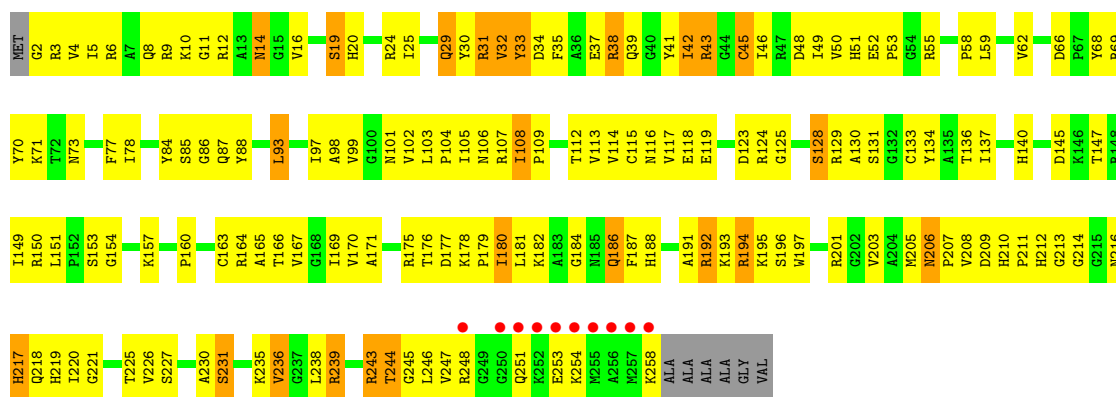


• Molecule 22: RPL8

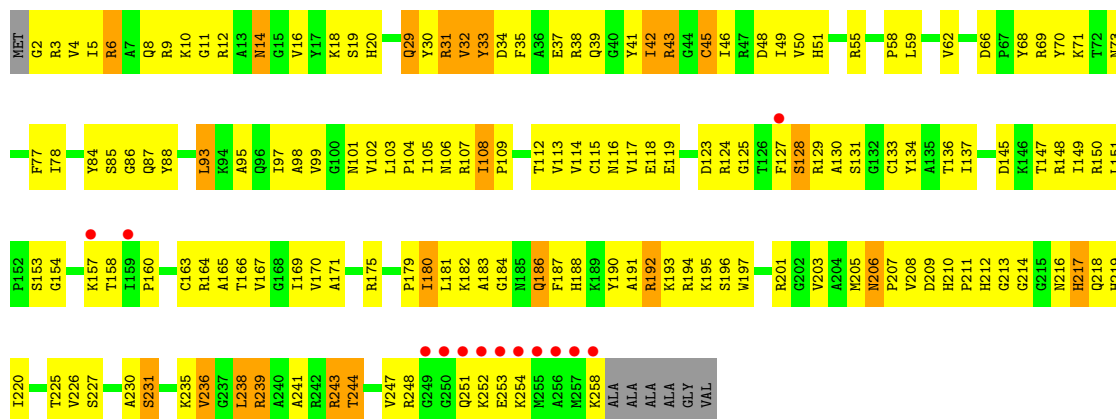
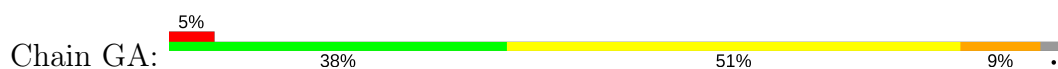


• Molecule 22: RPL8

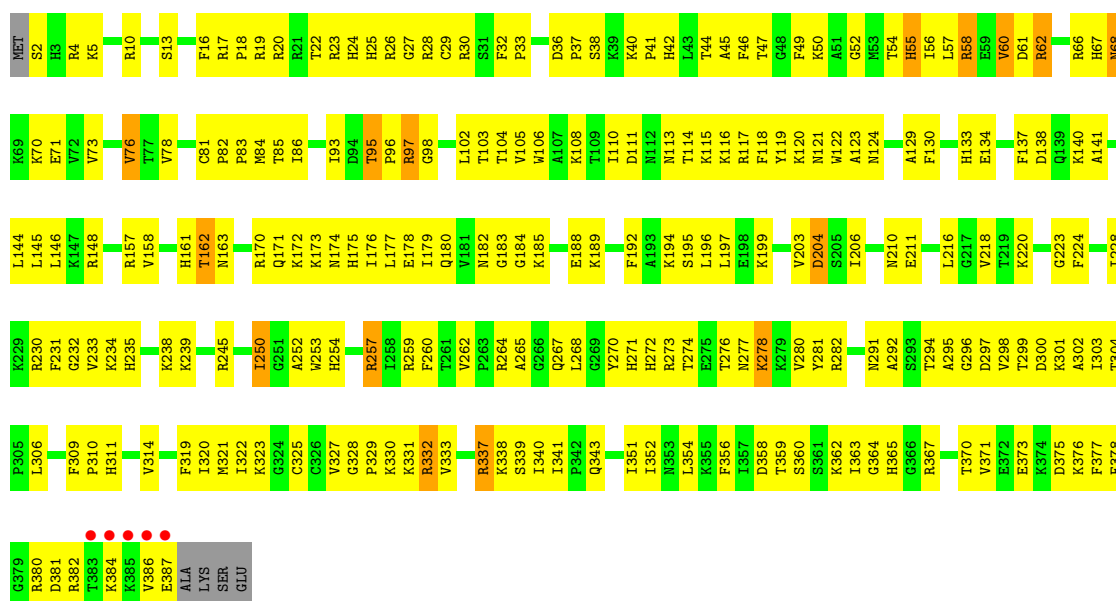
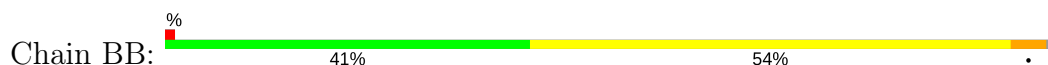




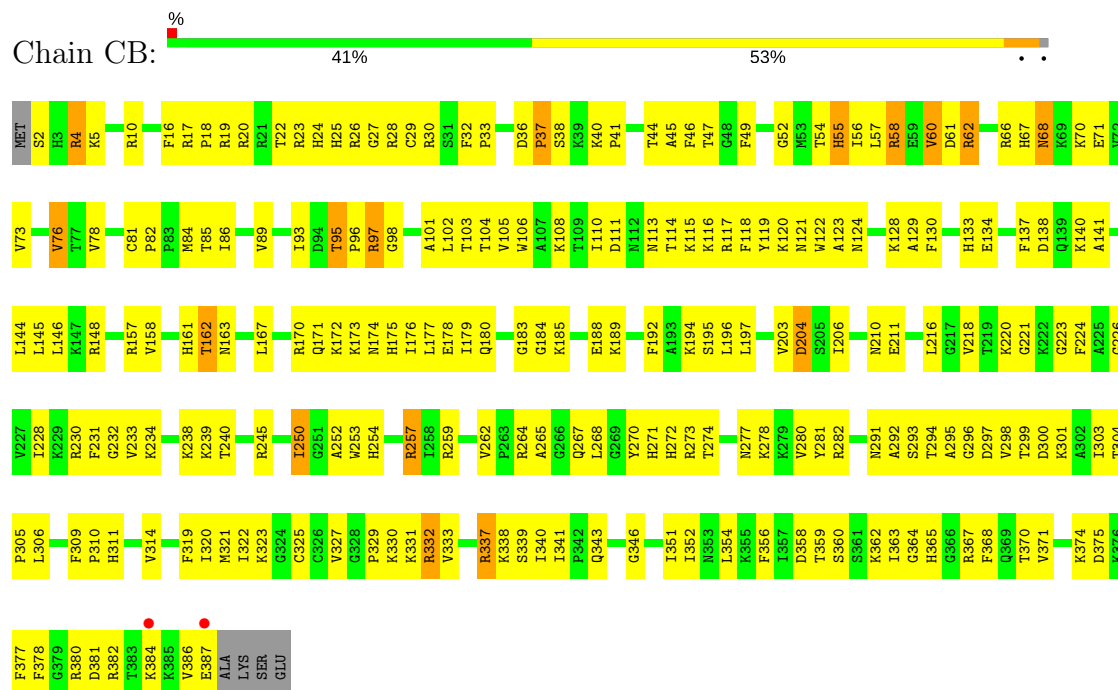
• Molecule 22: RPL8



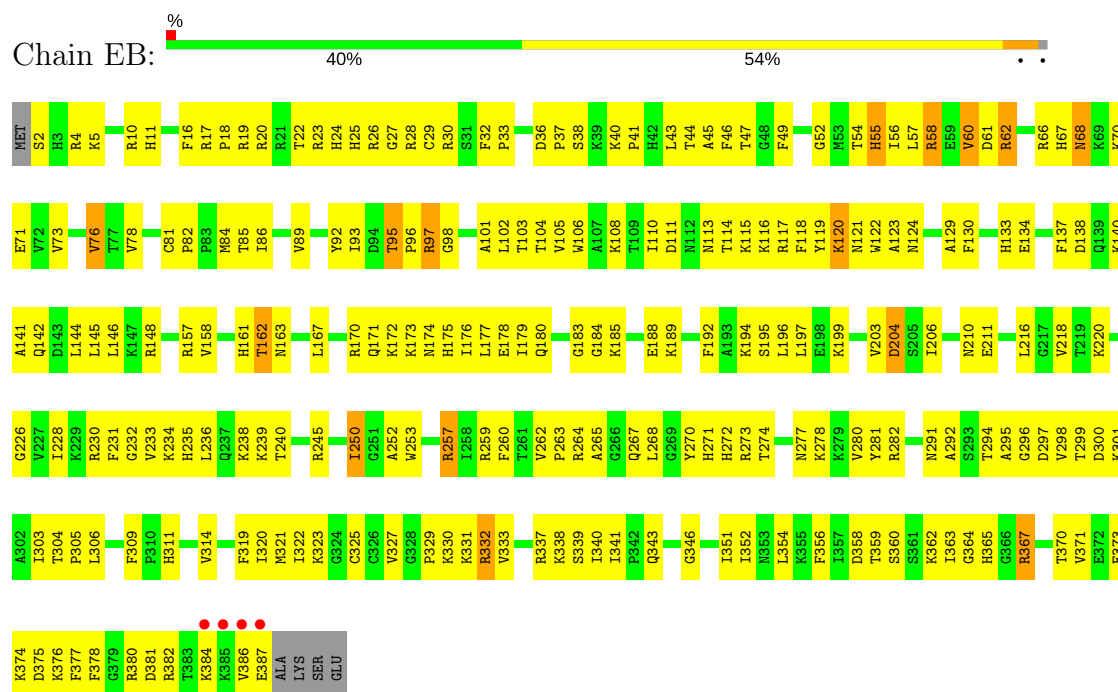
• Molecule 23: RIBOSOMAL PROTEIN L3



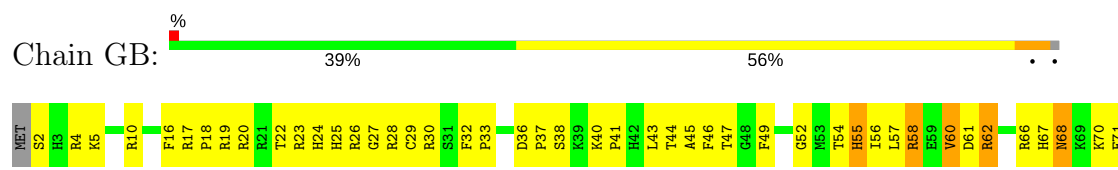
- Molecule 23: RIBOSOMAL PROTEIN L3

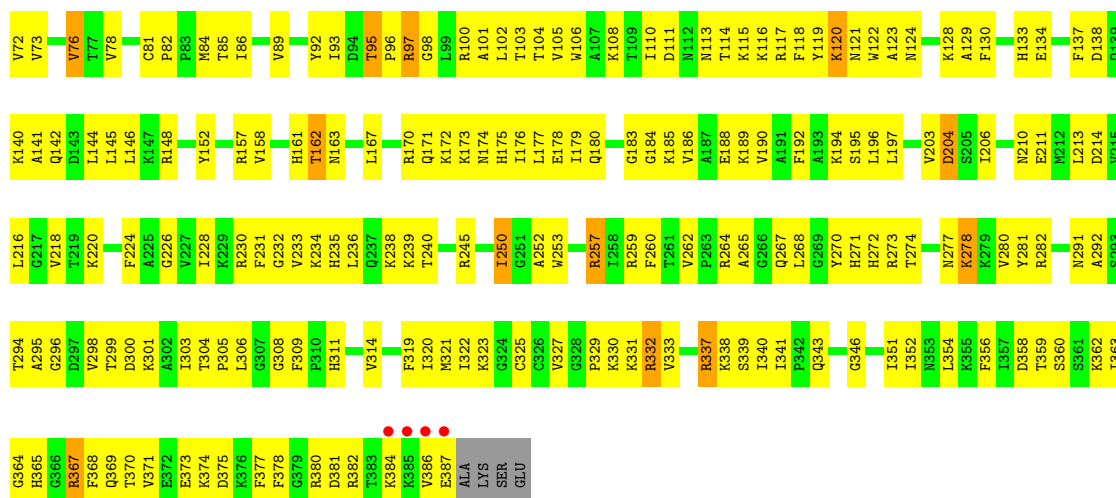


- Molecule 23: RIBOSOMAL PROTEIN L3

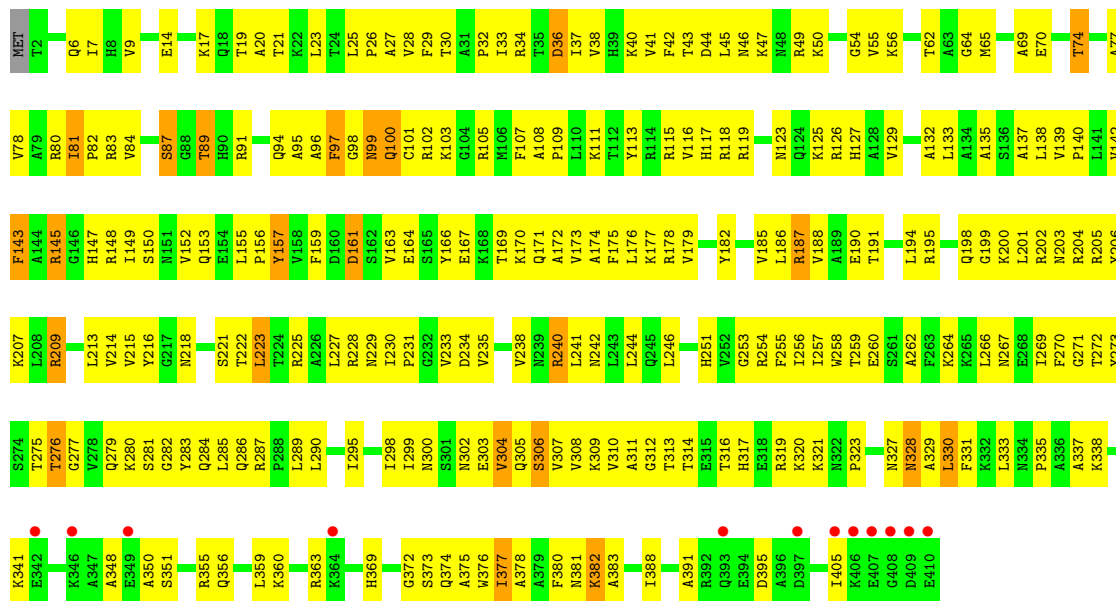


- Molecule 23: RIBOSOMAL PROTEIN L3



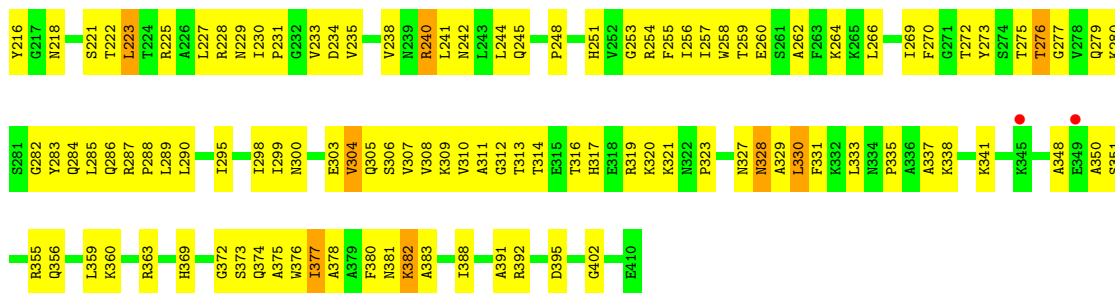


• Molecule 24: RPL4

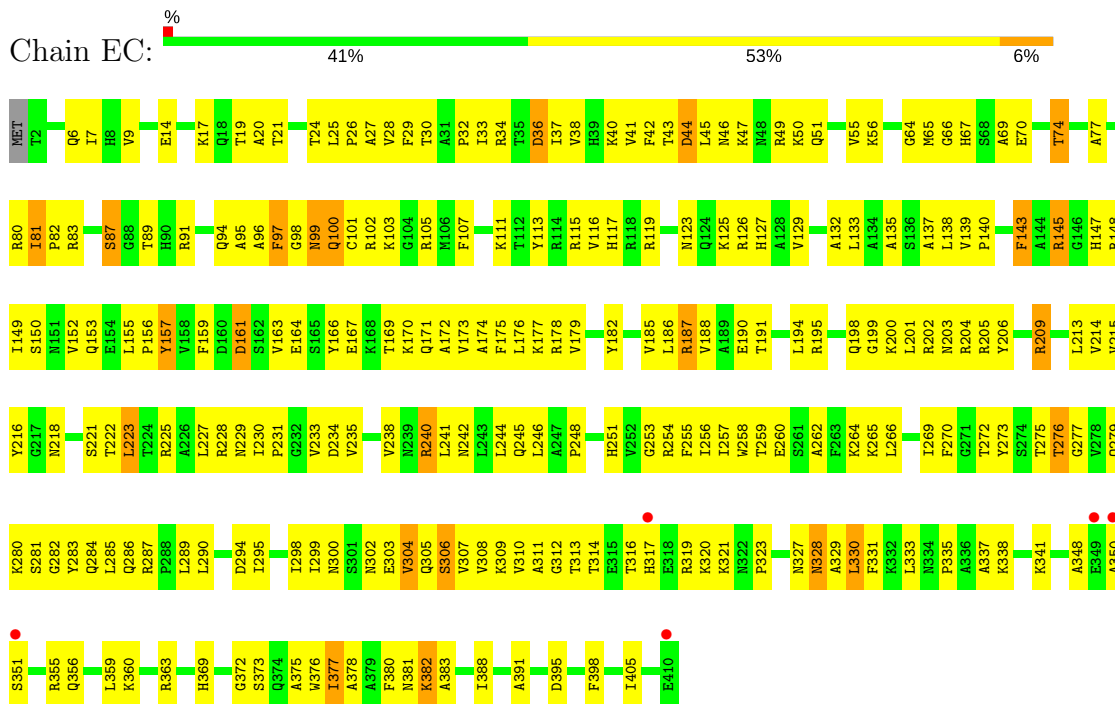


• Molecule 24: RPL4

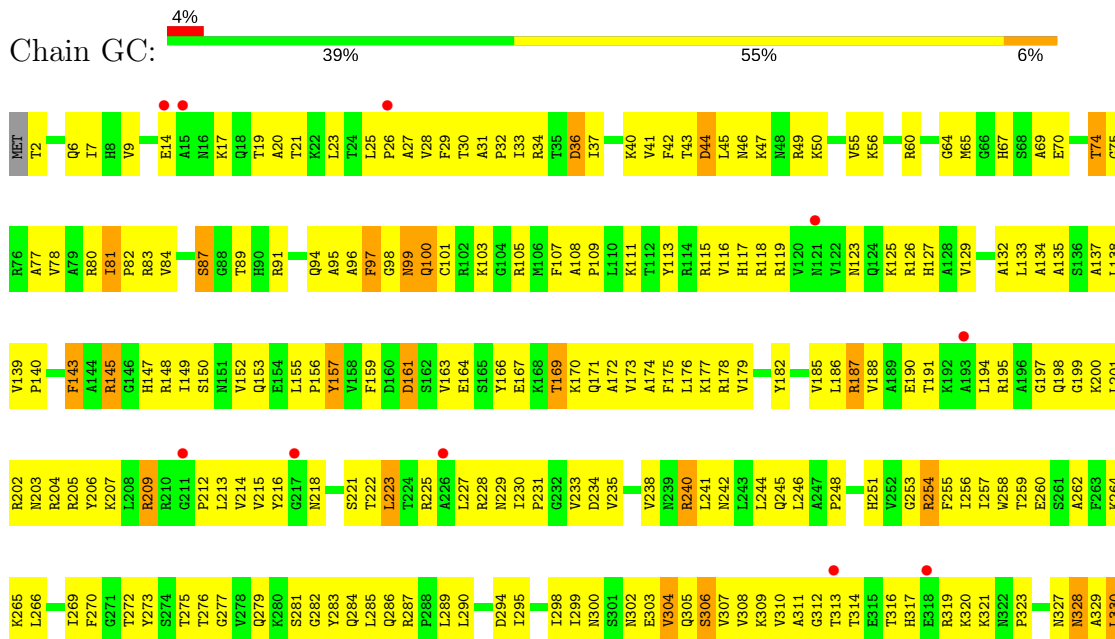




- Molecule 24: RPL4

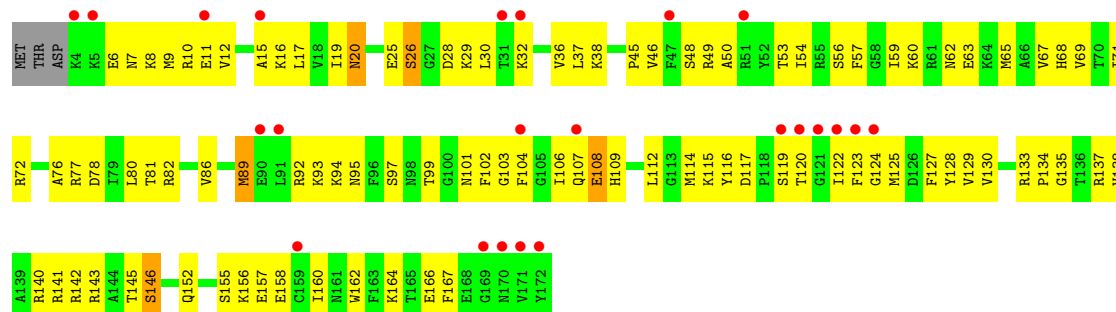
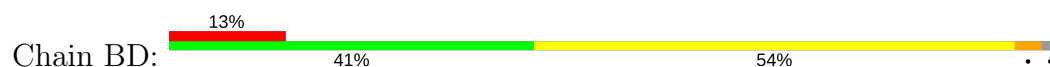


- Molecule 24: RPL4

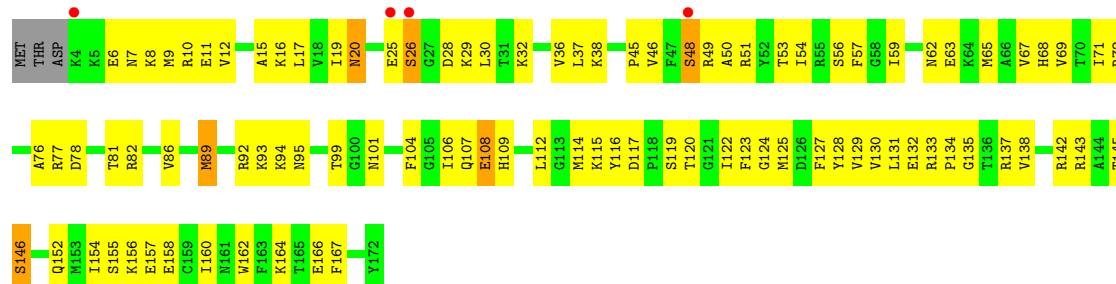
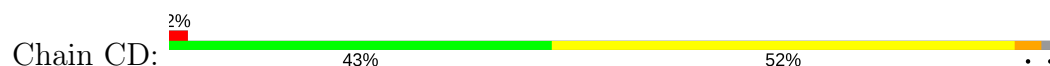




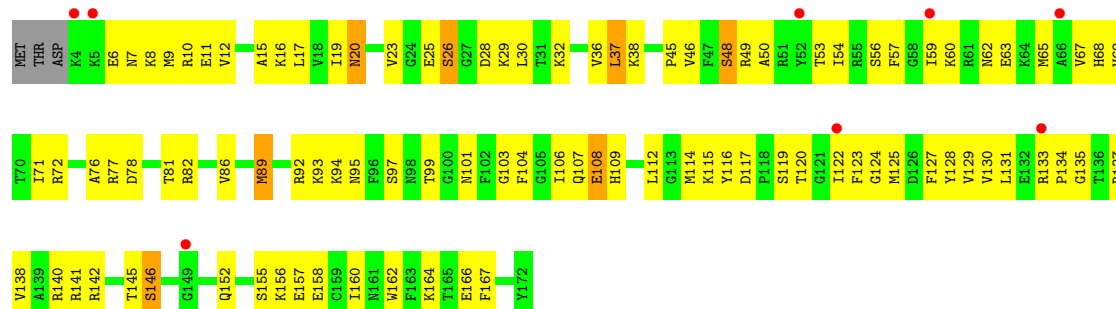
• Molecule 25: 60S RIBOSOMAL PROTEIN L11



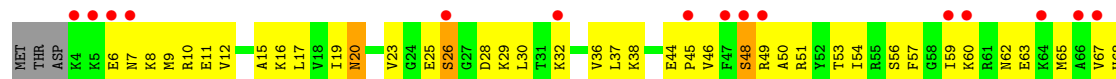
• Molecule 25: 60S RIBOSOMAL PROTEIN L11

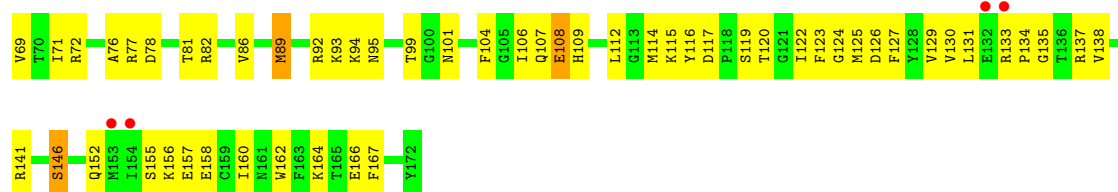


• Molecule 25: 60S RIBOSOMAL PROTEIN L11



• Molecule 25: 60S RIBOSOMAL PROTEIN L11





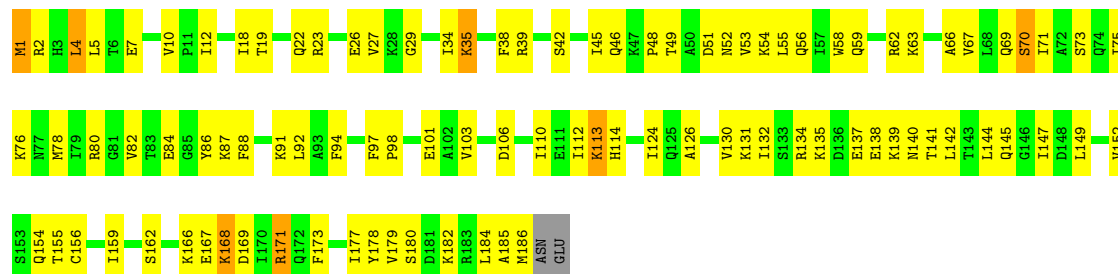
• Molecule 26: 60S RIBOSOMAL PROTEIN L9

Chain BE: 44% 52%



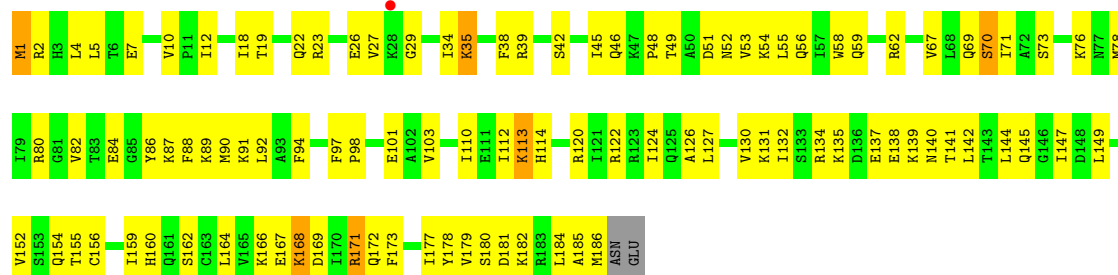
• Molecule 26: 60S RIBOSOMAL PROTEIN L9

Chain CE: 47% 48%



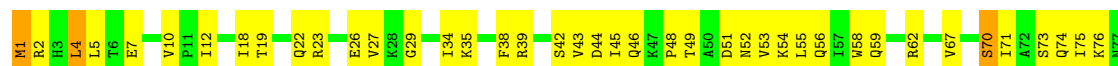
• Molecule 26: 60S RIBOSOMAL PROTEIN L9

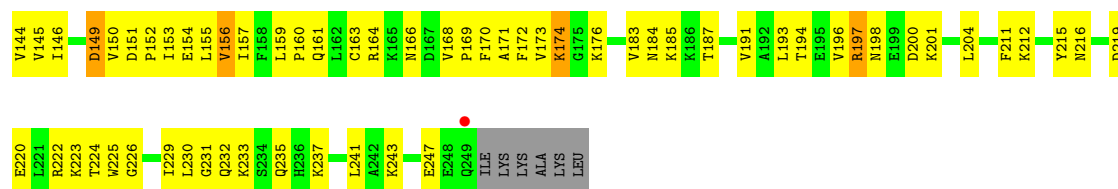
Chain EE: 45% 51%



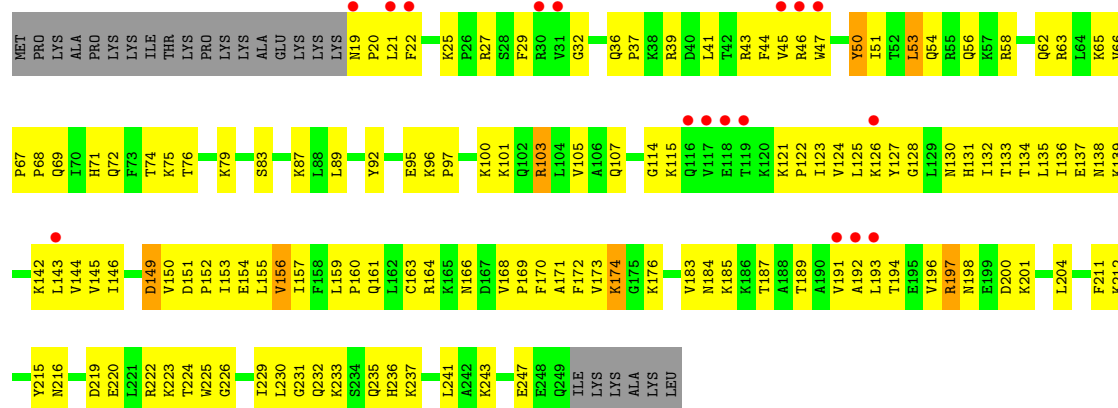
• Molecule 26: 60S RIBOSOMAL PROTEIN L9

Chain GE: 46% 49%

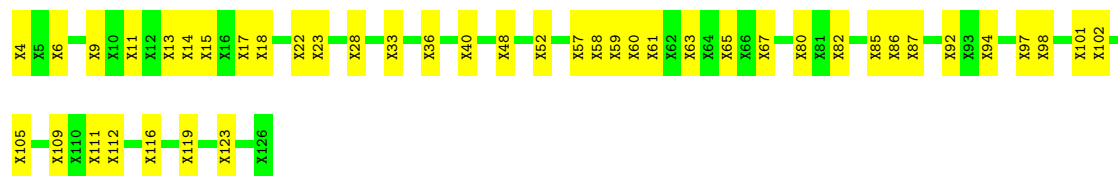




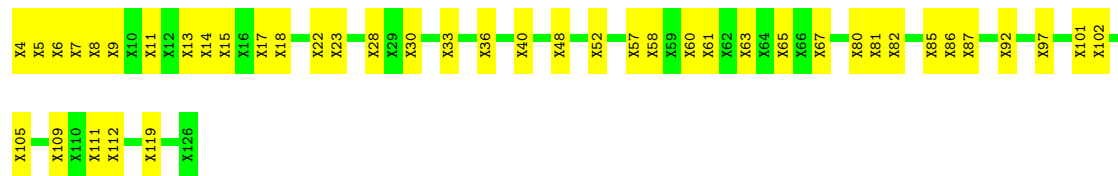
• Molecule 27: RPL7A



• Molecule 28: RPLP0



• Molecule 28: RPLP0



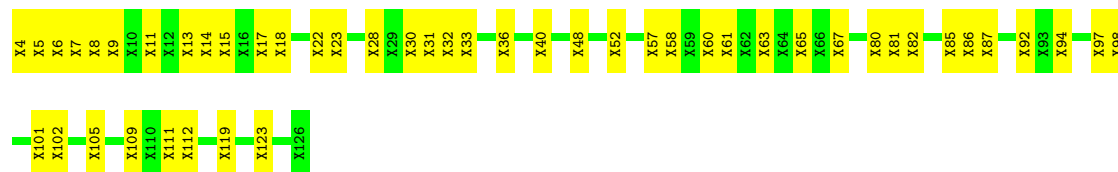
• Molecule 28: RPLP0





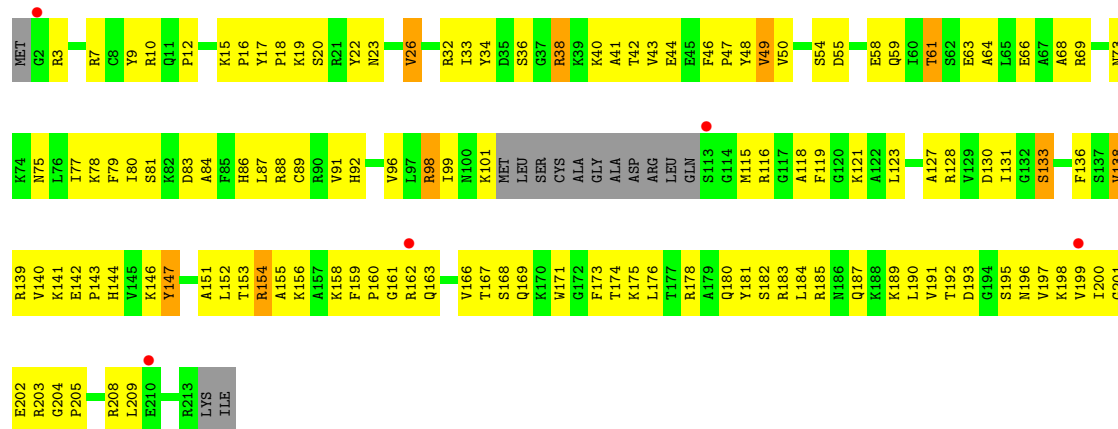
• Molecule 28: RPLP0

Chain GG: 61% 39%



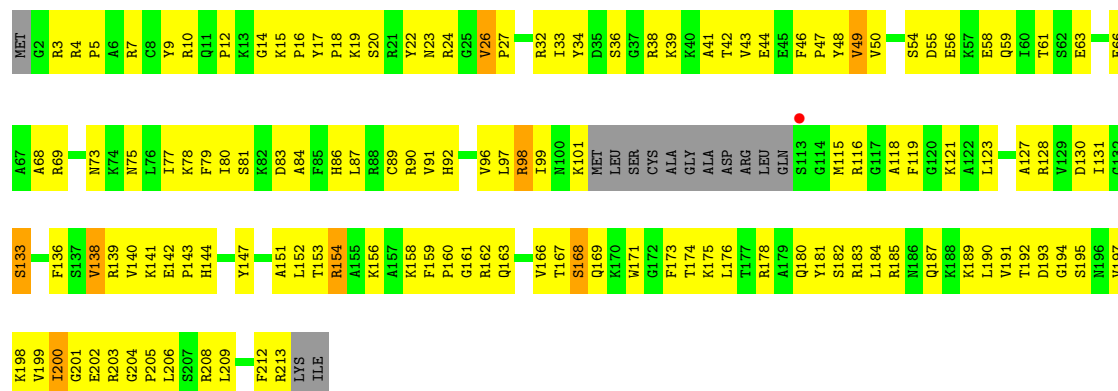
• Molecule 29: 60S RIBOSOMAL PROTEIN L10

Chain BH: 35% 54% 7%



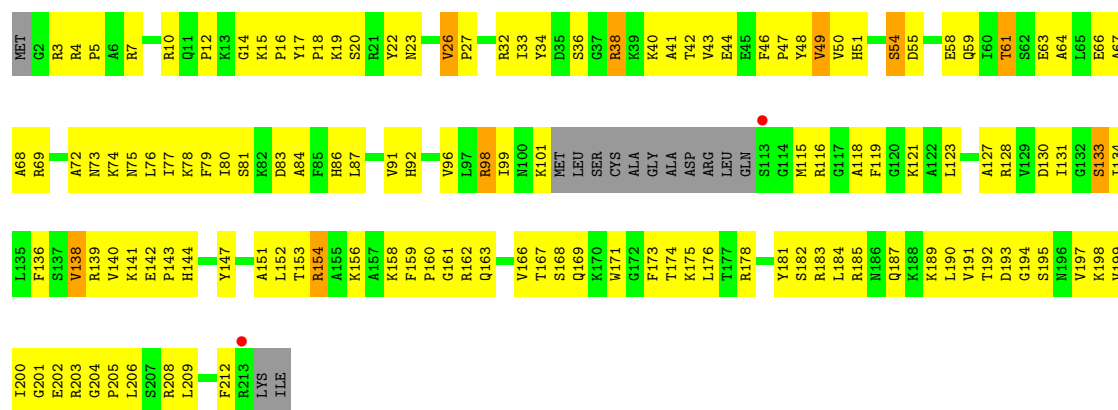
• Molecule 29: 60S RIBOSOMAL PROTEIN L10

Chain CH: 32% 58% 7%

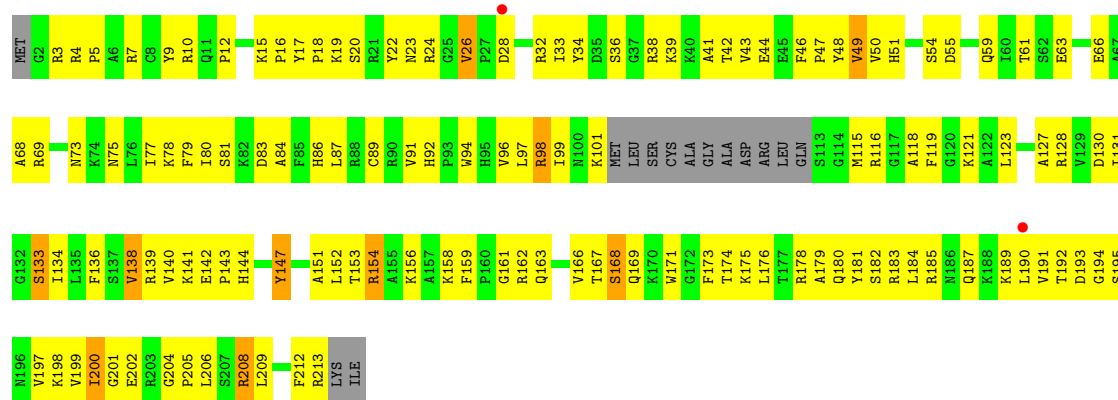


• Molecule 29: 60S RIBOSOMAL PROTEIN L10

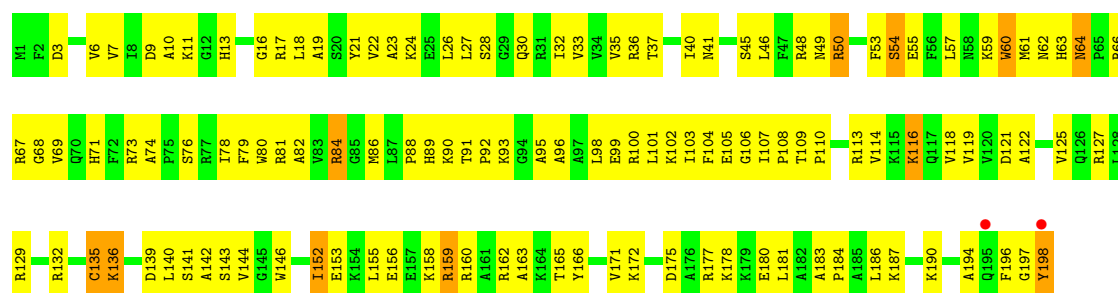
Chain EH: 32% 57% 7%



• Molecule 29: 60S RIBOSOMAL PROTEIN L10



• Molecule 30: 60S RIBOSOMAL PROTEIN L13A



• Molecule 30: 60S RIBOSOMAL PROTEIN L13A

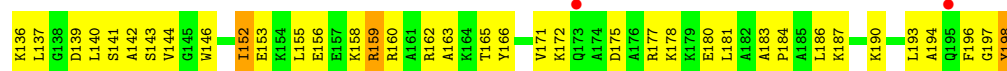
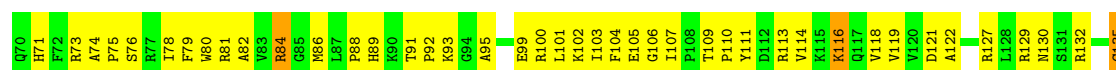




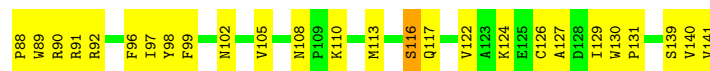
• Molecule 30: 60S RIBOSOMAL PROTEIN L13A



• Molecule 30: 60S RIBOSOMAL PROTEIN L13A



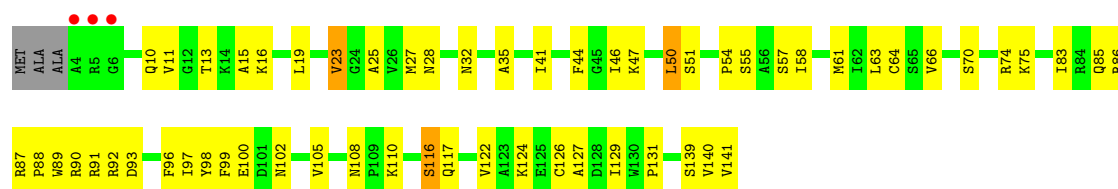
• Molecule 31: RPL23



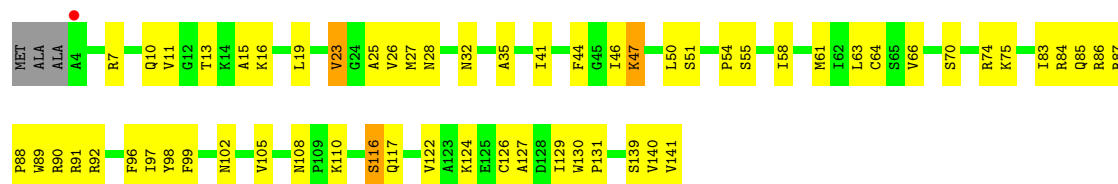
• Molecule 31: RPL23



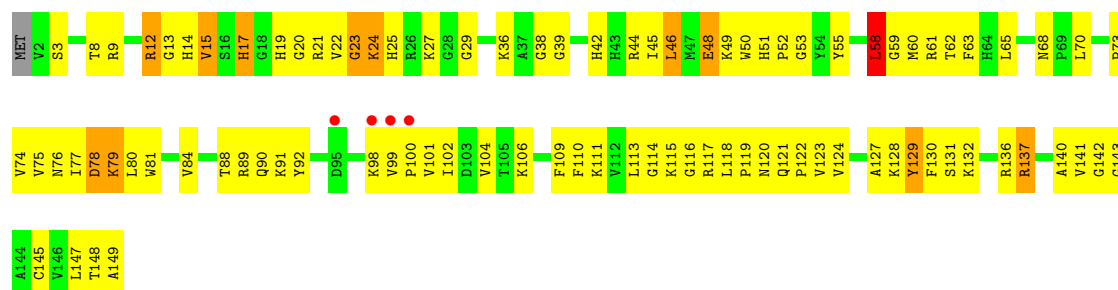
• Molecule 31: RPL23



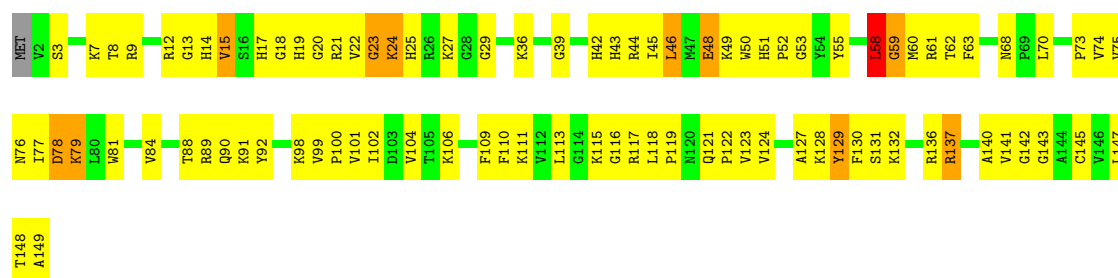
• Molecule 31: RPL23



• Molecule 32: 60S RIBOSOMAL PROTEIN L27A

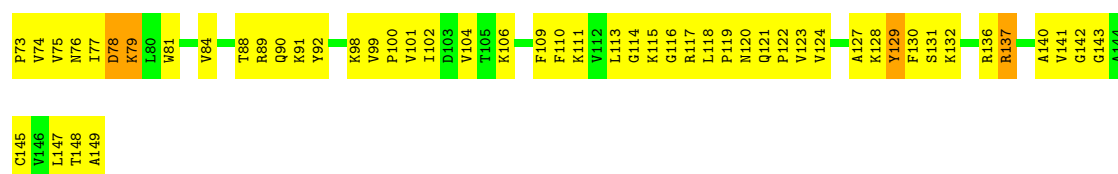


• Molecule 32: 60S RIBOSOMAL PROTEIN L27A

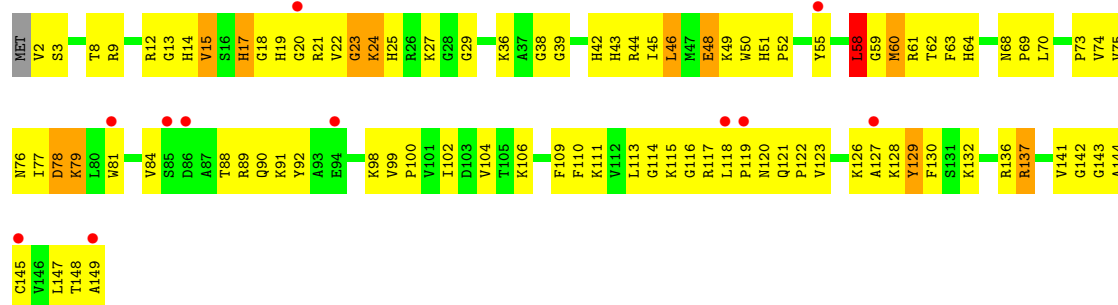
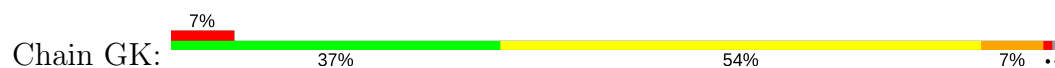


• Molecule 32: 60S RIBOSOMAL PROTEIN L27A

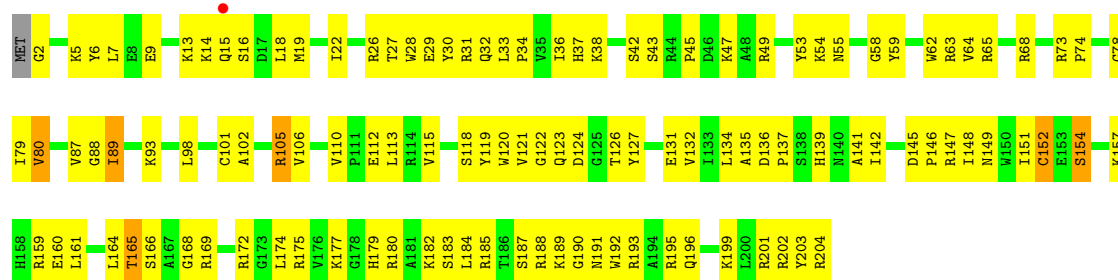




• Molecule 32: 60S RIBOSOMAL PROTEIN L27A



• Molecule 33: RIBOSOMAL PROTEIN L15

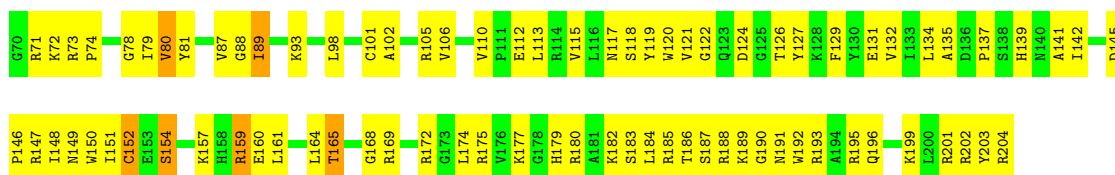


• Molecule 33: RIBOSOMAL PROTEIN L15



• Molecule 33: RIBOSOMAL PROTEIN L15

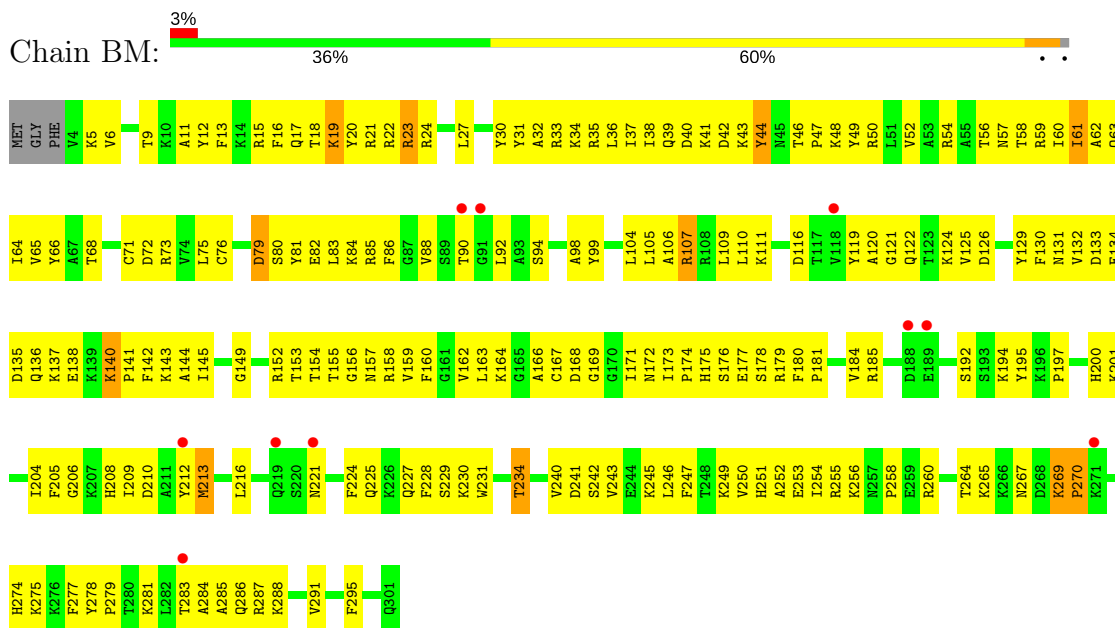




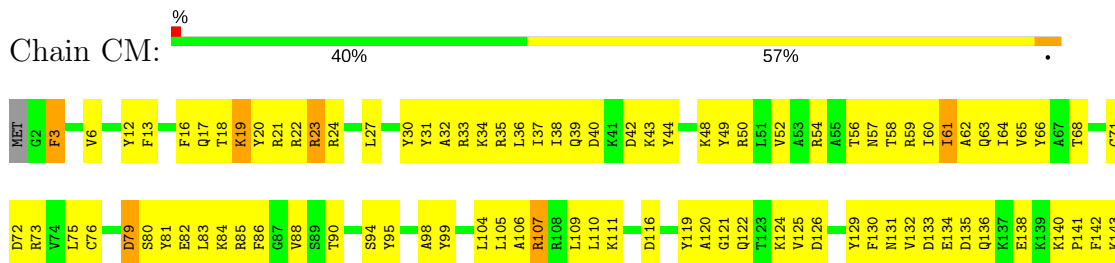
• Molecule 33: RIBOSOMAL PROTEIN L15



• Molecule 34: 60S RIBOSOMAL PROTEIN L5

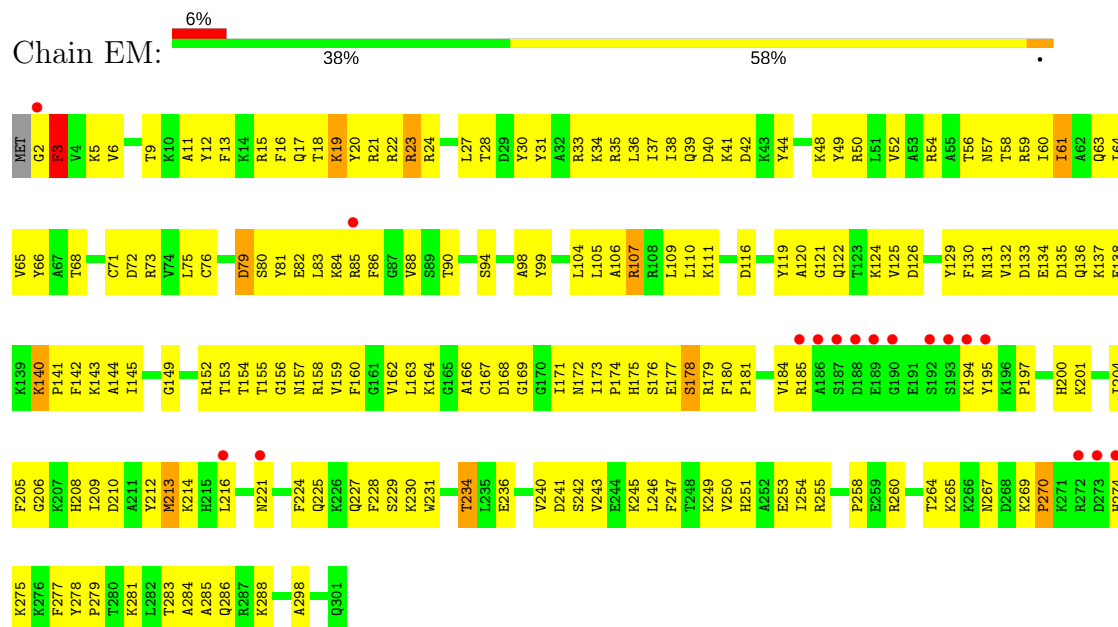


• Molecule 34: 60S RIBOSOMAL PROTEIN L5

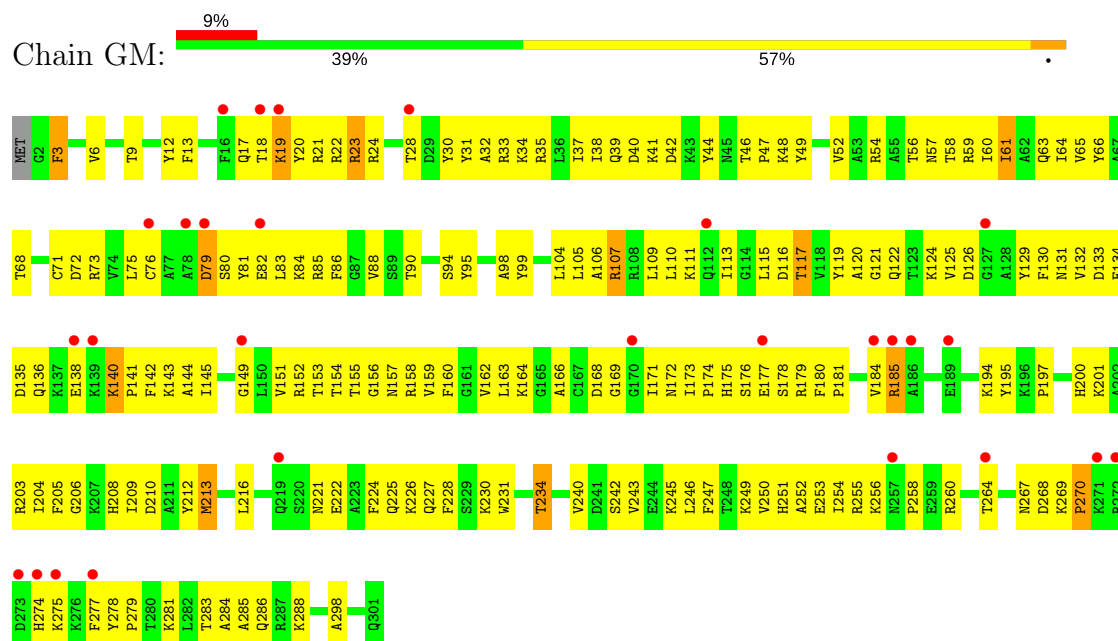




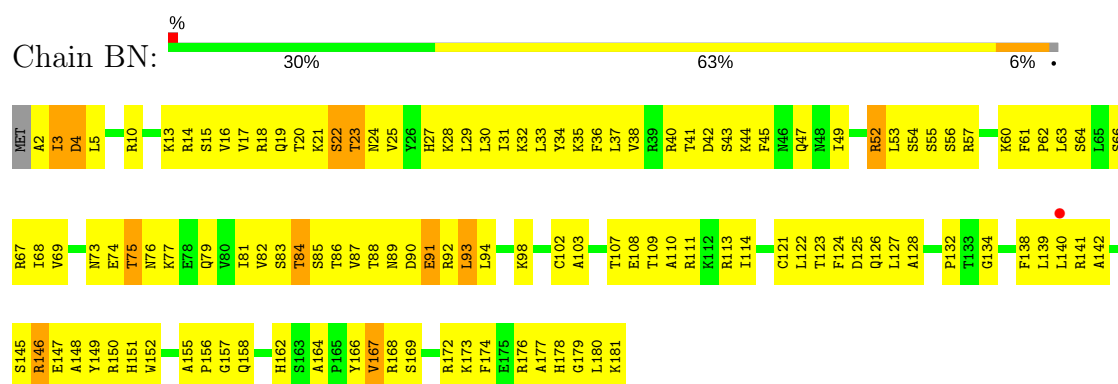
• Molecule 34: 60S RIBOSOMAL PROTEIN L5



• Molecule 34: 60S RIBOSOMAL PROTEIN L5



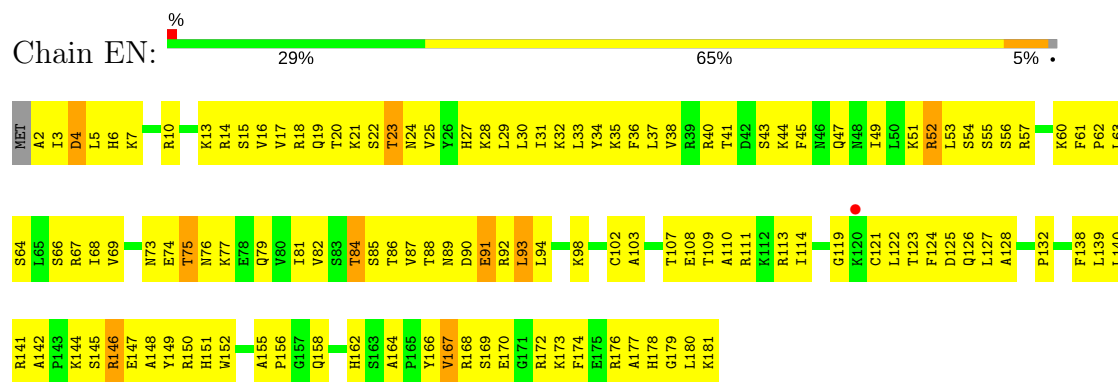
• Molecule 35: RPL18



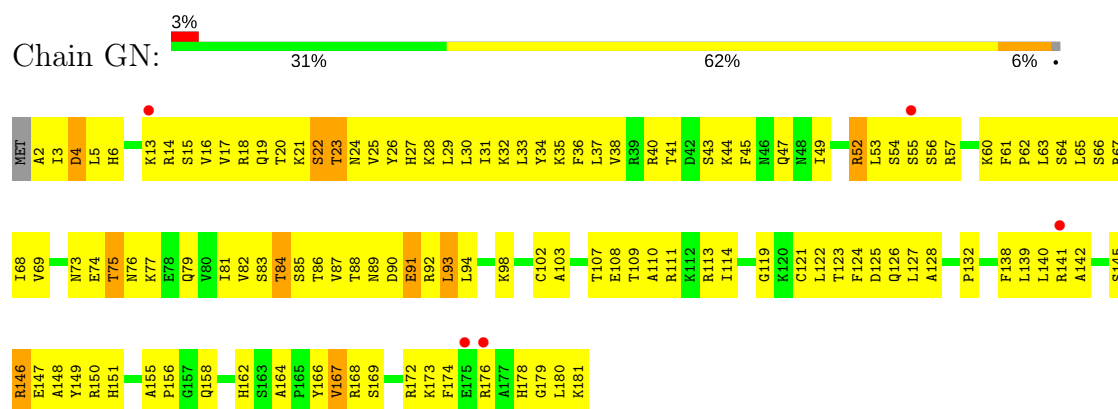
• Molecule 35: RPL18



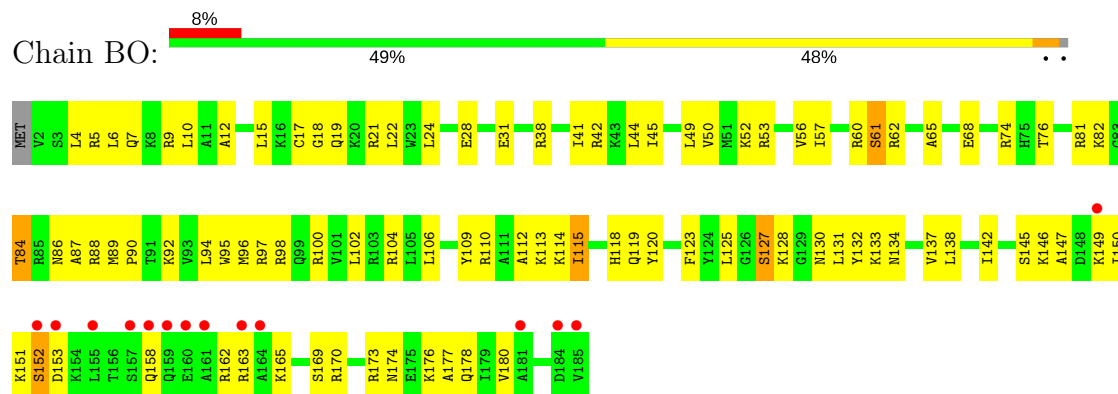
• Molecule 35: RPL18



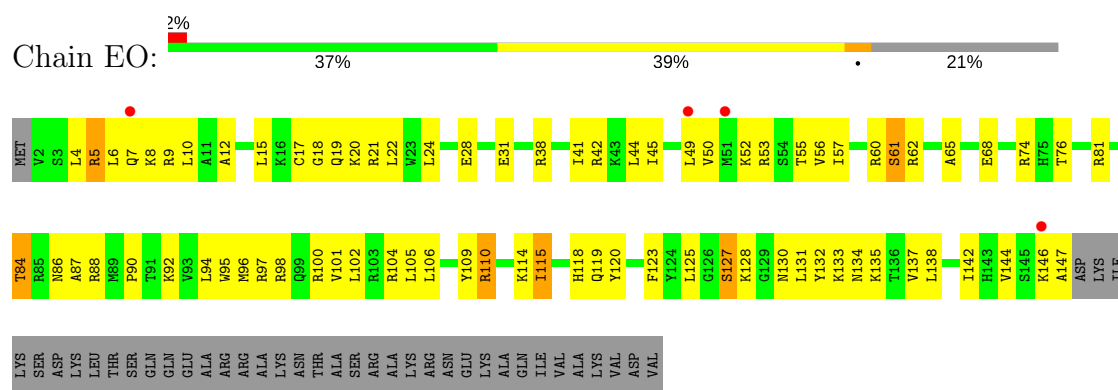
• Molecule 35: RPL18



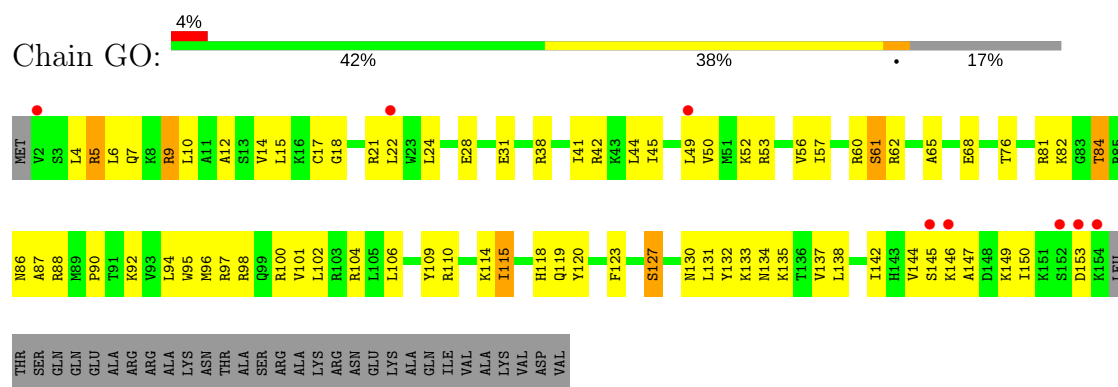
- Molecule 36: RPL19



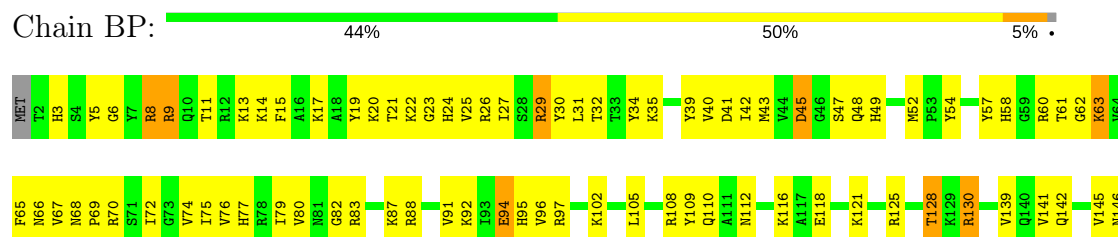
- Molecule 36: RPL19



- Molecule 36: RPL19



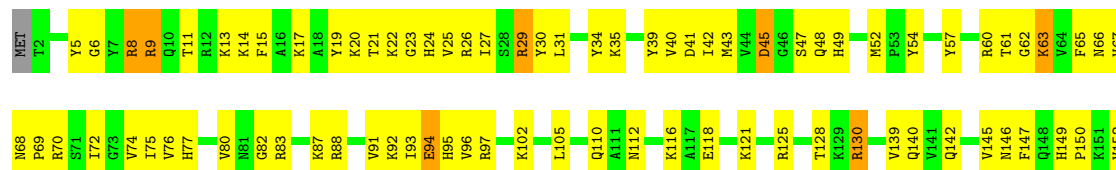
- Molecule 37: 60S RIBOSOMAL PROTEIN L21





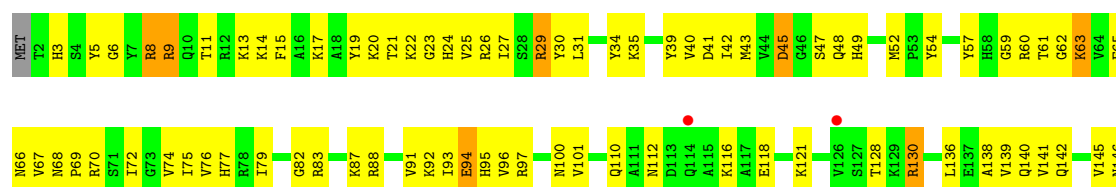
• Molecule 37: 60S RIBOSOMAL PROTEIN L21

Chain CP:



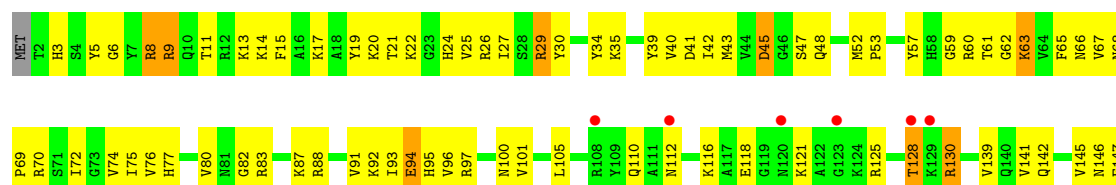
• Molecule 37: 60S RIBOSOMAL PROTEIN L21

Chain EP:



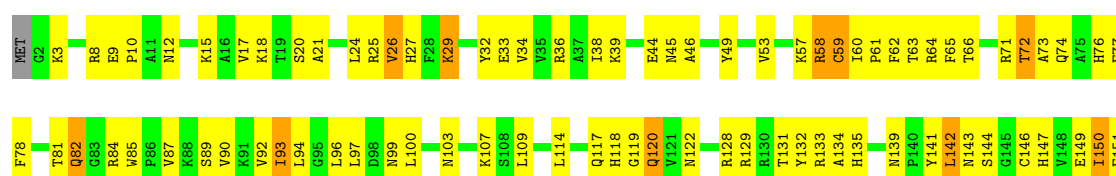
• Molecule 37: 60S RIBOSOMAL PROTEIN L21

Chain GP:

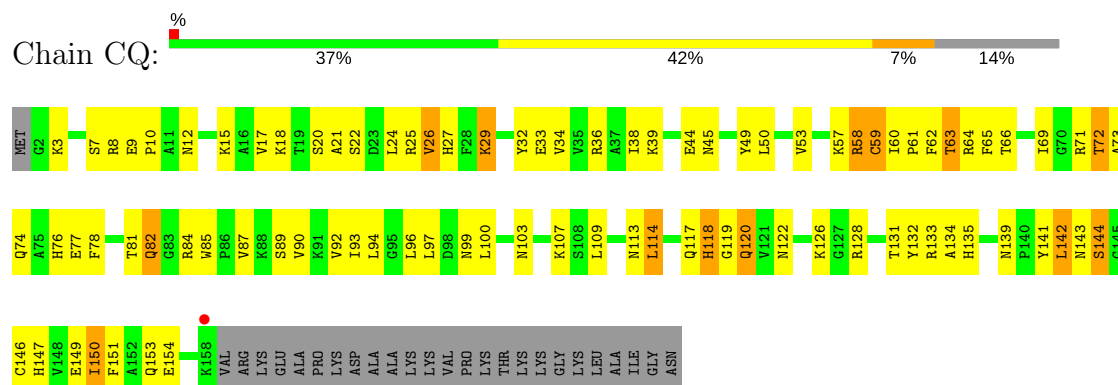


• Molecule 38: RPL17

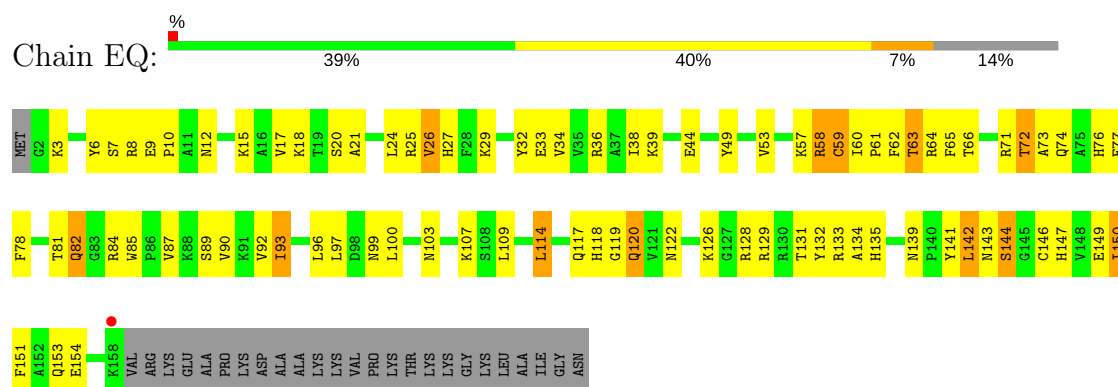
Chain BQ:



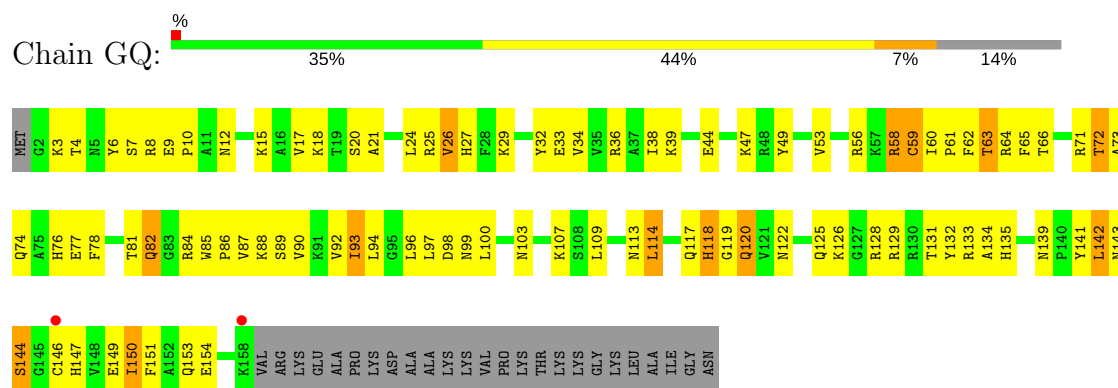
- Molecule 38: RPL17



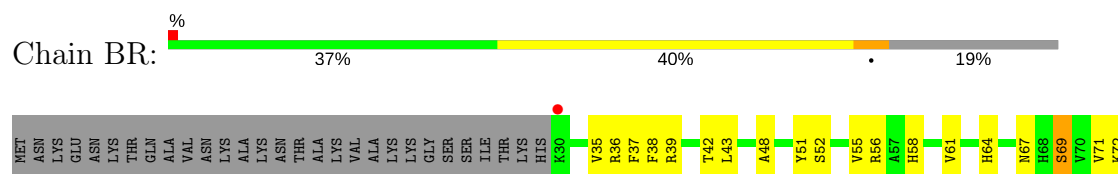
- Molecule 38: RPL17

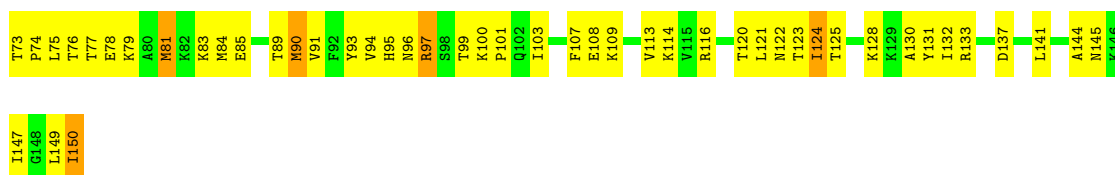


- Molecule 38: RPL17

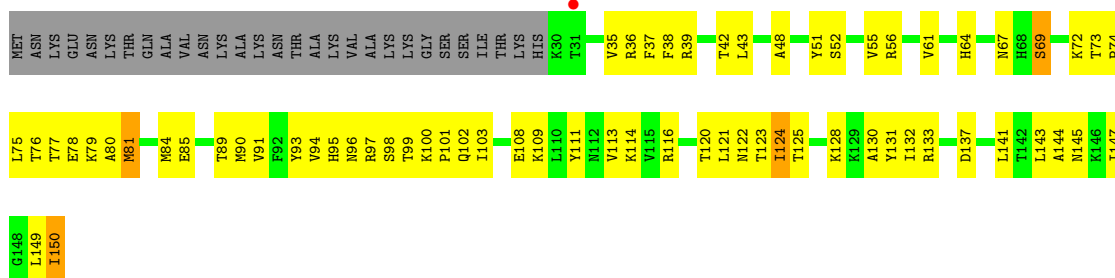


- Molecule 39: RPL23A

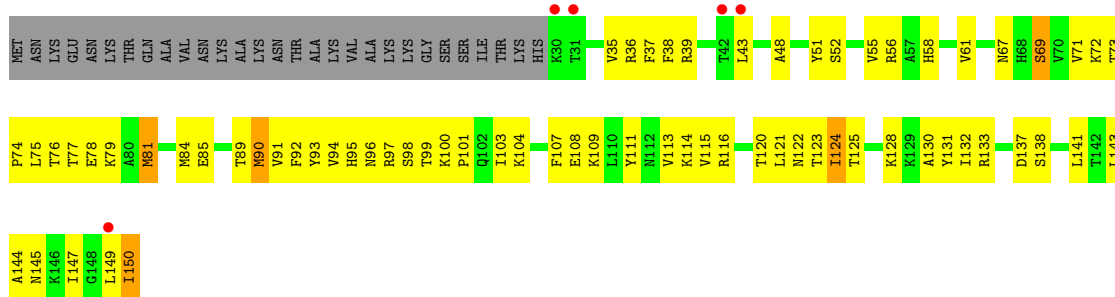




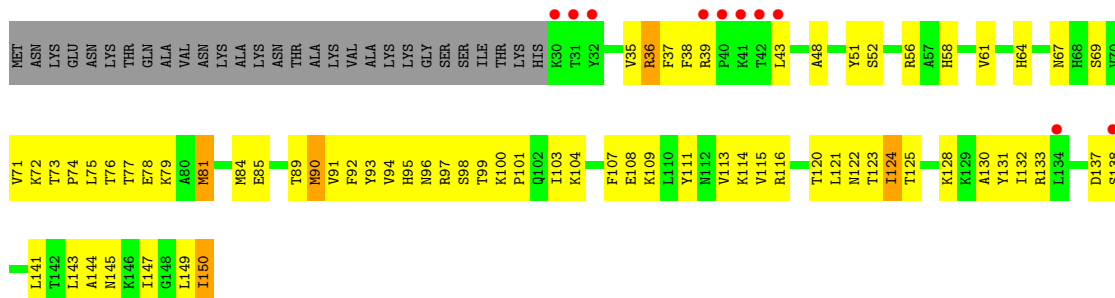
• Molecule 39: RPL23A



• Molecule 39: RPL23A

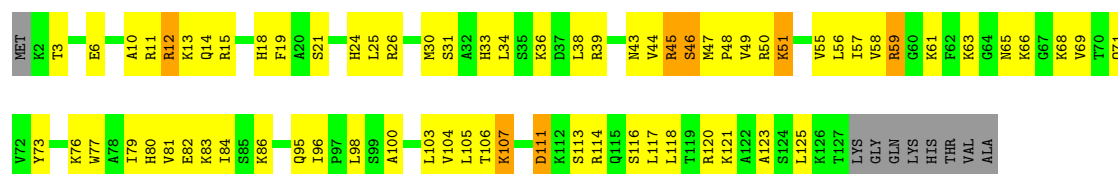


• Molecule 39: RPL23A

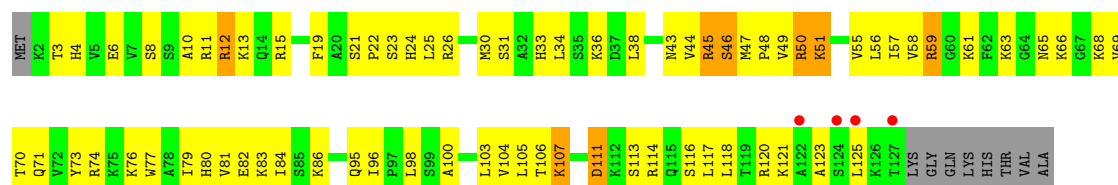


• Molecule 40: RPL26

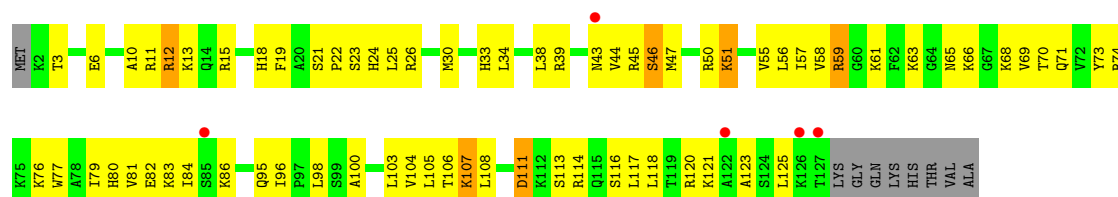




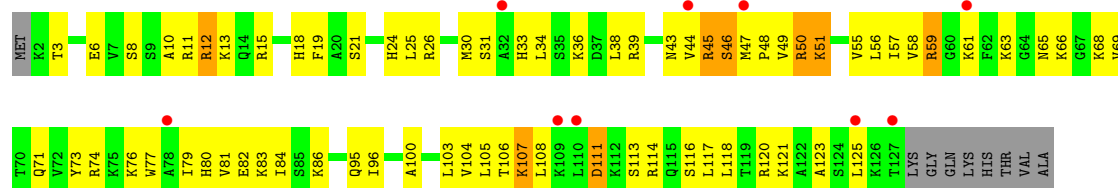
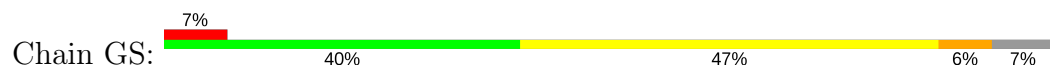
• Molecule 40: RPL26



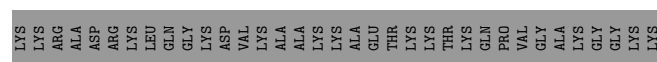
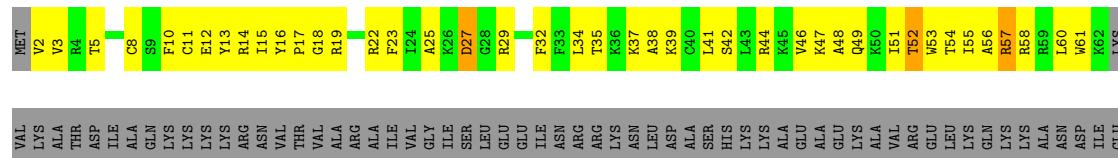
• Molecule 40: RPL26



• Molecule 40: RPL26

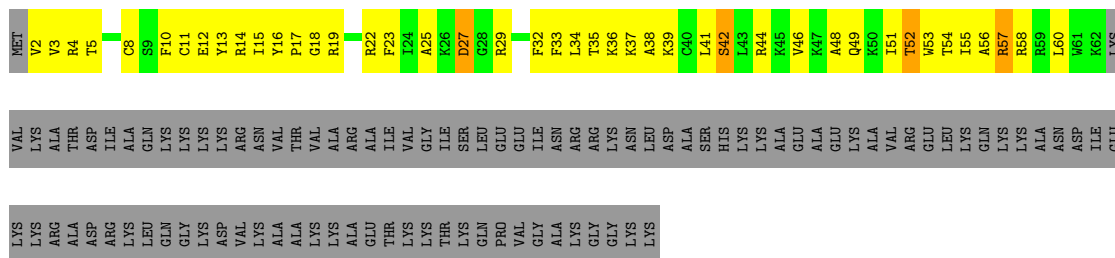


• Molecule 41: RPL24



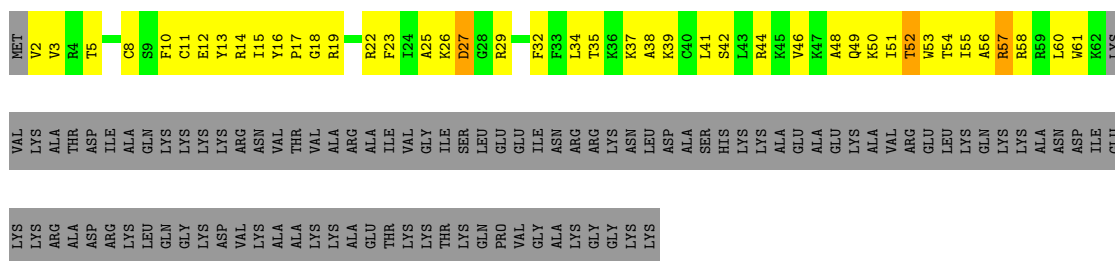
• Molecule 41: RPL24

Chain CT: 



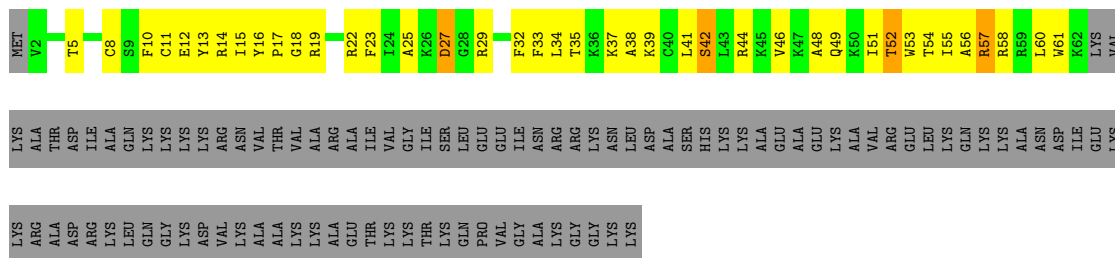
- Molecule 41: RPL24

Chain ET:



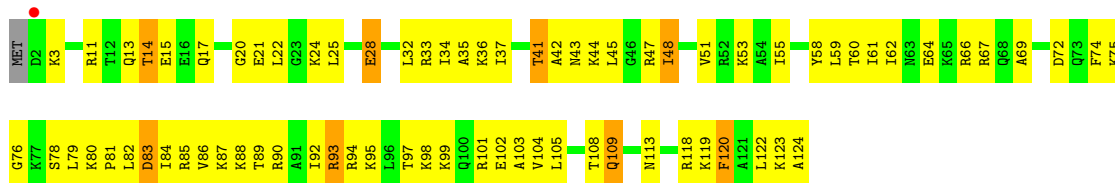
- Molecule 41: RPL24

Chain GT: 



- Molecule 42: RPL35

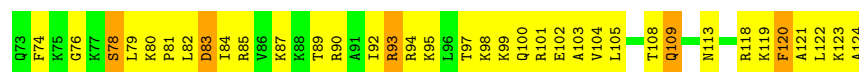
Chain BU:  %



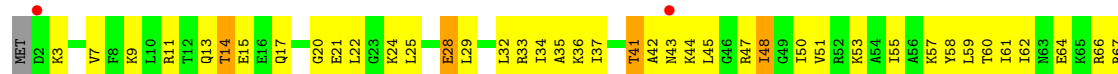
- Molecule 42: RPL35

Chain CU:  %

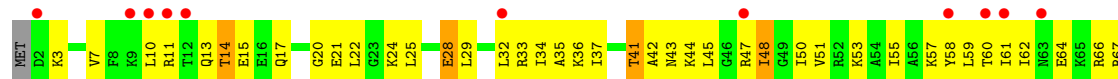




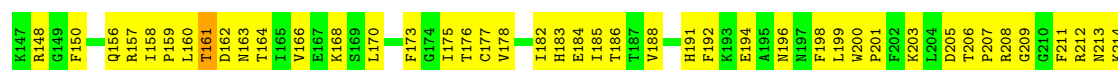
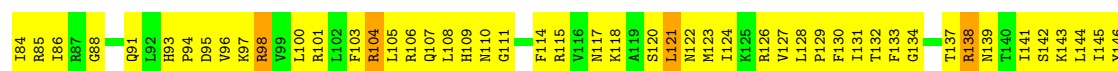
• Molecule 42: RPL35



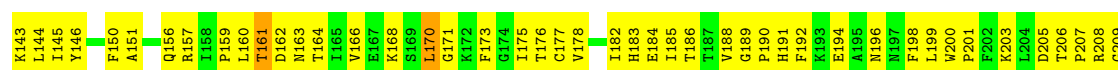
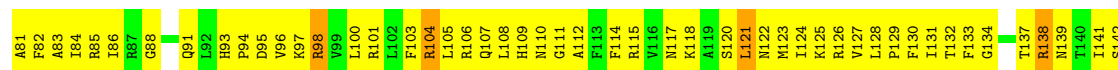
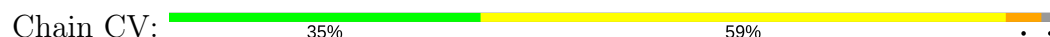
• Molecule 42: RPL35

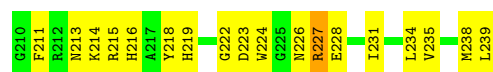


• Molecule 43: 60S RIBOSOMAL PROTEIN L7



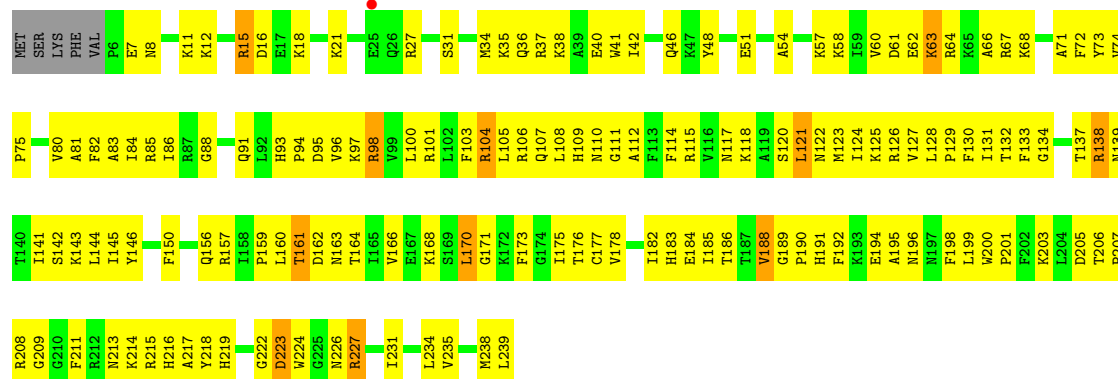
• Molecule 43: 60S RIBOSOMAL PROTEIN L7





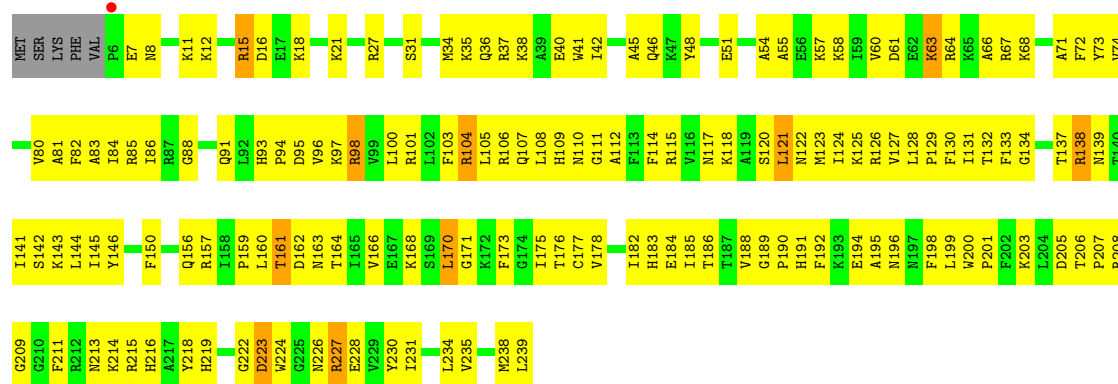
• Molecule 43: 60S RIBOSOMAL PROTEIN L7

Chain EV: 35% 59% 5%



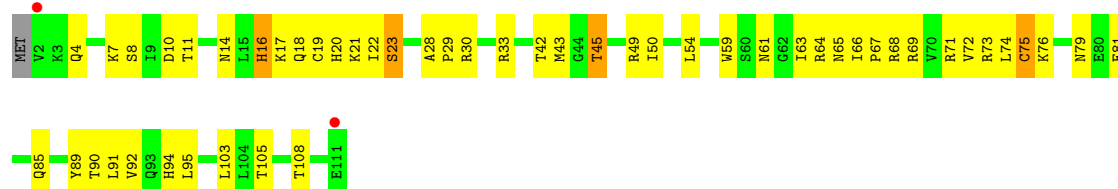
• Molecule 43: 60S RIBOSOMAL PROTEIN L7

Chain GV: 34% 59%



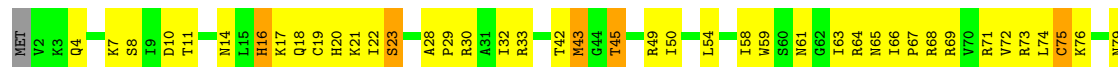
• Molecule 44: 60S RIBOSOMAL PROTEIN L31

Chain BW: 2% 53% 42%



• Molecule 44: 60S RIBOSOMAL PROTEIN L31

Chain CW: 50% 45% 5%

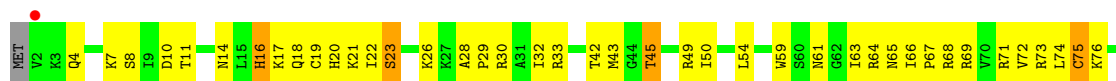




• Molecule 44: 60S RIBOSOMAL PROTEIN L31



• Molecule 44: 60S RIBOSOMAL PROTEIN L31



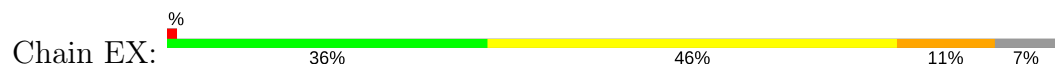
• Molecule 45: 60S RIBOSOMAL PROTEIN L32



• Molecule 45: 60S RIBOSOMAL PROTEIN L32



• Molecule 45: 60S RIBOSOMAL PROTEIN L32





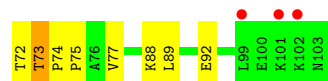
• Molecule 45: 60S RIBOSOMAL PROTEIN L32



• Molecule 46: RPL37A



• Molecule 46: RPL37A

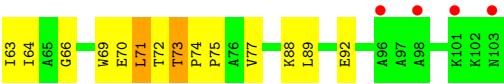


• Molecule 46: RPL37A

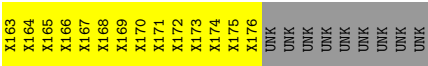
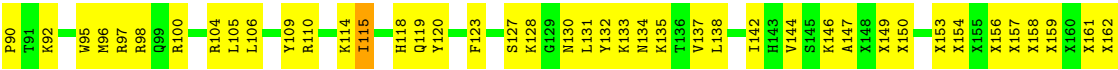
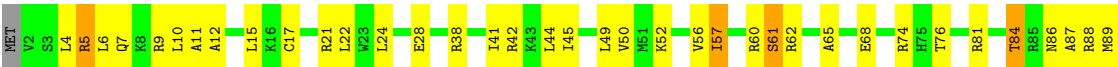


• Molecule 46: RPL37A





● Molecule 47: RPL19



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	320.19Å 289.25Å 535.04Å 90.00° 91.22° 90.00°	Depositor
Resolution (Å)	20.00 – 3.52 39.96 – 3.52	Depositor EDS
% Data completeness (in resolution range)	99.4 (20.00-3.52) 99.4 (39.96-3.52)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.87 (at 3.48Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.216 , 0.244 0.240 , 0.266	Depositor DCC
R_{free} test set	10000 reflections (0.85%)	DCC
Wilson B-factor (Å ²)	96.9	Xtriage
Anisotropy	0.228	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 74.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.028 for h,-k,-l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	511395	wwPDB-VP
Average B, all atoms (Å ²)	108.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.51% 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: ZN, MG

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	A1	0.75	14/74792 (0.0%)	1.12	353/116594 (0.3%)
1	D1	0.82	60/74792 (0.1%)	1.14	368/116594 (0.3%)
1	F1	0.74	57/74792 (0.1%)	1.12	384/116594 (0.3%)
1	H1	0.78	8/74792 (0.0%)	1.15	436/116594 (0.4%)
2	AA	0.64	1/734 (0.1%)	0.77	0/972
2	DA	0.63	0/734	0.76	0/972
2	FA	0.61	1/734 (0.1%)	0.75	0/972
2	HA	0.63	0/734	0.77	0/972
3	AB	0.54	0/466	0.62	0/619
3	DB	0.46	0/466	0.62	0/619
3	FB	0.48	0/466	0.62	0/619
3	HB	0.51	0/466	0.62	0/619
4	AC	0.58	0/848	0.71	1/1123 (0.1%)
4	DC	0.53	0/848	0.69	0/1123
4	FC	0.54	0/848	0.70	0/1123
4	HC	0.57	0/848	0.71	1/1123 (0.1%)
5	AE	0.47	0/1550	0.74	2/2077 (0.1%)
5	DE	0.47	0/1550	0.74	2/2077 (0.1%)
5	FE	0.48	0/1550	0.75	2/2077 (0.1%)
5	HE	0.47	0/1550	0.75	2/2077 (0.1%)
6	AF	0.51	0/1033	0.71	0/1380
6	DF	0.51	0/1033	0.71	0/1380
6	FF	0.53	0/1033	0.71	0/1380
6	HF	0.53	0/1033	0.72	0/1380
7	AG	0.50	0/736	0.74	0/990
7	DG	0.47	0/736	0.73	0/990
7	FG	0.47	0/736	0.72	0/990
7	HG	0.46	0/736	0.72	0/990
8	AH	0.63	0/870	0.81	0/1175
8	DH	0.62	0/870	0.82	0/1175
8	FH	0.63	0/870	0.81	0/1175
8	HH	0.58	0/870	0.81	0/1175

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
9	AJ	0.51	0/1739	0.70	0/2368
9	DJ	0.49	0/1739	0.70	0/2368
9	FJ	0.53	0/1739	0.70	0/2368
9	HJ	0.54	0/1739	0.70	0/2368
10	AK	0.48	0/421	0.69	0/558
10	DK	0.45	0/421	0.70	0/558
10	FK	0.46	0/421	0.69	0/558
10	HK	0.48	0/421	0.71	0/558
11	AL	0.64	0/861	0.77	1/1154 (0.1%)
11	DL	0.57	0/861	0.72	0/1154
11	FL	0.51	0/861	0.73	0/1154
11	HL	0.51	0/861	0.74	0/1154
12	AM	0.41	0/832	0.67	0/1113
12	DM	0.41	0/832	0.67	0/1113
12	FM	0.41	0/832	0.67	0/1113
12	HM	0.42	0/832	0.66	0/1113
13	AN	0.43	0/1190	0.63	1/1582 (0.1%)
13	DN	0.38	0/1190	0.58	0/1582
13	FN	0.38	0/1190	0.58	0/1582
13	HN	0.38	0/1190	0.58	0/1582
14	AO	0.47	0/1047	0.77	1/1400 (0.1%)
14	DO	0.47	0/1047	0.77	1/1400 (0.1%)
14	FO	0.46	0/1047	0.76	1/1400 (0.1%)
14	HO	0.51	0/1047	0.78	1/1400 (0.1%)
15	AP	0.41	0/561	0.61	0/745
15	DP	0.38	0/561	0.62	0/745
15	FP	0.40	0/561	0.60	0/745
15	HP	0.40	0/561	0.62	0/745
16	AQ	0.48	0/808	0.70	0/1068
16	DQ	0.48	0/808	0.69	0/1068
16	FQ	0.49	0/808	0.73	0/1068
16	HQ	0.50	0/808	0.70	0/1068
17	AT	0.48	0/539	0.72	0/711
17	DT	0.48	0/539	0.72	0/711
17	FT	0.49	0/539	0.71	0/711
17	HT	0.52	0/539	0.72	0/711
18	AU	0.53	0/1647	0.74	1/2201 (0.0%)
18	DU	0.51	0/1647	0.74	1/2201 (0.0%)
18	FU	0.54	0/1647	0.74	1/2201 (0.0%)
18	HU	0.58	0/1647	0.74	1/2201 (0.0%)
19	AX	0.48	0/1563	0.74	0/2104
19	DX	0.50	0/1563	0.75	1/2104 (0.0%)
19	FX	0.49	0/1563	0.74	0/2104

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
19	HX	0.50	0/1563	0.74	2/2104 (0.1%)
20	B2	0.69	0/3696	1.06	10/5761 (0.2%)
20	C2	0.69	0/3696	1.07	7/5761 (0.1%)
20	E2	0.63	0/3696	1.07	10/5761 (0.2%)
20	G2	0.86	1/3696 (0.0%)	1.17	24/5761 (0.4%)
21	B3	0.70	0/2870	0.96	7/4473 (0.2%)
21	C3	0.61	0/2870	0.97	5/4473 (0.1%)
21	E3	0.59	0/2870	0.95	4/4473 (0.1%)
21	G3	0.63	0/2870	0.98	10/4473 (0.2%)
22	BA	0.63	0/2019	0.79	1/2712 (0.0%)
22	CA	0.61	0/2019	0.77	1/2712 (0.0%)
22	EA	0.61	0/2019	0.77	1/2712 (0.0%)
22	GA	0.60	0/2019	0.76	1/2712 (0.0%)
23	BB	0.56	0/3144	0.72	0/4213
23	CB	0.54	0/3144	0.71	0/4213
23	EB	0.54	0/3144	0.71	0/4213
23	GB	0.52	0/3144	0.72	0/4213
24	BC	0.47	0/3222	0.67	0/4338
24	CC	0.49	0/3222	0.68	0/4338
24	EC	0.49	0/3222	0.68	0/4338
24	GC	0.53	0/3222	0.69	1/4338 (0.0%)
25	BD	0.48	0/1376	0.66	0/1833
25	CD	0.45	0/1376	0.66	0/1833
25	ED	0.46	0/1376	0.66	0/1833
25	GD	0.47	0/1376	0.67	0/1833
26	BE	0.49	0/1501	0.72	2/2015 (0.1%)
26	CE	0.48	0/1501	0.72	2/2015 (0.1%)
26	EE	0.50	0/1501	0.72	1/2015 (0.0%)
26	GE	0.50	0/1501	0.74	2/2015 (0.1%)
27	BF	0.48	0/1893	0.66	0/2548
27	CF	0.48	0/1893	0.66	0/2548
27	EF	0.48	0/1893	0.65	0/2548
27	GF	0.49	0/1893	0.66	0/2548
29	BH	0.48	0/1652	0.68	0/2213
29	CH	0.48	0/1652	0.66	0/2213
29	EH	0.46	0/1652	0.66	0/2213
29	GH	0.46	0/1652	0.67	0/2213
30	BI	0.48	0/1624	0.66	0/2176
30	CI	0.49	0/1624	0.68	0/2176
30	EI	0.49	0/1624	0.66	0/2176
30	GI	0.87	6/1624 (0.4%)	0.92	7/2176 (0.3%)
31	BJ	0.64	1/1038 (0.1%)	0.77	0/1394
31	CJ	0.67	1/1038 (0.1%)	0.77	1/1394 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
31	EJ	0.64	1/1038 (0.1%)	0.76	0/1394
31	GJ	0.68	1/1038 (0.1%)	0.77	2/1394 (0.1%)
32	BK	0.53	0/1189	0.71	0/1589
32	CK	0.53	0/1189	0.73	1/1589 (0.1%)
32	EK	0.52	0/1189	0.73	1/1589 (0.1%)
32	GK	0.58	0/1189	0.74	0/1589
33	BL	0.53	0/1727	0.71	0/2308
33	CL	0.53	0/1727	0.71	0/2308
33	EL	0.53	0/1727	0.72	0/2308
33	GL	0.59	0/1727	0.73	0/2308
34	BM	0.49	0/2453	0.70	1/3285 (0.0%)
34	CM	0.48	0/2469	0.69	1/3306 (0.0%)
34	EM	0.54	1/2469 (0.0%)	0.71	1/3306 (0.0%)
34	GM	0.53	1/2469 (0.0%)	0.72	1/3306 (0.0%)
35	BN	0.54	0/1464	0.77	1/1965 (0.1%)
35	CN	0.52	0/1464	0.77	0/1965
35	EN	0.53	0/1464	0.76	0/1965
35	GN	0.60	0/1464	0.78	1/1965 (0.1%)
36	BO	0.58	0/1507	0.67	0/2001
36	EO	0.44	0/1208	0.62	0/1604
36	GO	0.50	0/1250	0.65	0/1660
37	BP	0.53	0/1300	0.64	0/1743
37	CP	0.49	0/1300	0.62	0/1743
37	EP	0.50	0/1300	0.63	0/1743
37	GP	0.54	0/1300	0.64	0/1743
38	BQ	0.60	0/1259	0.77	0/1693
38	CQ	0.57	0/1259	0.75	1/1693 (0.1%)
38	EQ	0.55	0/1259	0.75	1/1693 (0.1%)
38	GQ	0.56	0/1259	0.78	1/1693 (0.1%)
39	BR	0.52	0/981	0.67	0/1320
39	CR	0.47	0/981	0.66	0/1320
39	ER	0.46	0/981	0.66	0/1320
39	GR	0.52	0/981	0.67	0/1320
40	BS	0.44	0/1028	0.62	0/1372
40	CS	0.42	0/1028	0.61	0/1372
40	ES	0.44	0/1028	0.61	0/1372
40	GS	0.50	0/1028	0.63	0/1372
41	BT	0.60	0/521	0.72	0/693
41	CT	0.57	0/521	0.69	0/693
41	ET	0.55	0/521	0.71	0/693
41	GT	0.53	0/521	0.70	0/693
42	BU	0.44	0/995	0.65	0/1318
42	CU	0.44	0/995	0.64	0/1318

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
42	EU	0.44	0/995	0.65	0/1318
42	GU	0.51	0/995	0.66	0/1318
43	BV	0.48	0/1950	0.66	0/2614
43	CV	0.49	0/1950	0.67	1/2614 (0.0%)
43	EV	0.50	0/1950	0.67	1/2614 (0.0%)
43	GV	0.49	0/1950	0.66	1/2614 (0.0%)
44	BW	0.60	0/913	0.68	0/1222
44	CW	0.55	0/913	0.68	0/1222
44	EW	0.51	0/913	0.67	0/1222
44	GW	0.51	0/913	0.68	0/1222
45	BX	0.48	0/1028	0.67	0/1371
45	CX	0.51	0/1028	0.67	0/1371
45	EX	0.47	0/1028	0.67	0/1371
45	GX	0.56	0/1028	0.68	0/1371
46	BY	0.60	0/799	0.79	0/1069
46	CY	0.60	0/799	0.75	0/1069
46	EY	0.57	0/799	0.76	0/1069
46	GY	0.55	0/799	0.75	0/1069
47	CO	0.46	0/1208	0.63	0/1604
All	All	0.68	154/540737 (0.0%)	0.99	1677/795620 (0.2%)

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
2	AA	0	1
2	DA	0	1
2	FA	0	1
2	HA	0	1
8	AH	0	1
12	AM	0	1
12	DM	0	1
12	FM	0	1
12	HM	0	1
16	AQ	0	1
16	DQ	0	1
16	FQ	0	1
16	HQ	0	1
18	FU	0	1
27	BF	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
27	CF	0	1
27	EF	0	1
27	GF	0	1
32	BK	0	2
32	CK	0	2
32	EK	0	2
32	GK	0	2
38	CQ	0	1
38	GQ	0	1
42	CU	0	1
45	GX	0	1
All	All	0	30

All (154) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F1	2239	A	O3'-P	25.66	1.92	1.61
30	GI	60	TRP	NE1-CE2	-18.39	1.13	1.37
1	D1	2254	A	C5-C4	17.31	1.50	1.38
1	D1	2254	A	N7-C5	15.90	1.48	1.39
1	D1	2254	A	N3-C4	15.68	1.44	1.34
1	D1	2251	A	N7-C5	15.41	1.48	1.39
1	D1	2251	A	N3-C4	15.05	1.43	1.34
1	D1	2250	A	C5-C4	14.83	1.49	1.38
1	F1	2255	U	N1-C2	14.29	1.51	1.38
1	F1	2251	A	N3-C4	14.08	1.43	1.34
1	F1	2253	U	N1-C2	14.06	1.51	1.38
30	GI	60	TRP	CD2-CE2	13.85	1.57	1.41
1	F1	2254	A	N9-C4	13.80	1.46	1.37
1	D1	2252	C	N1-C2	13.57	1.53	1.40
1	D1	2254	A	C6-N1	13.22	1.44	1.35
1	D1	2251	A	C6-N1	13.18	1.44	1.35
1	D1	2254	A	N9-C4	12.85	1.45	1.37
1	F1	2256	G	N7-C5	12.69	1.46	1.39
1	D1	2250	A	N3-C4	12.54	1.42	1.34
1	F1	2255	U	C4-C5	12.48	1.54	1.43
1	D1	2251	A	C5-C4	12.31	1.47	1.38
1	D1	2254	A	C5-C6	12.19	1.52	1.41
1	D1	2253	U	C4-C5	12.19	1.54	1.43
1	D1	2253	U	N1-C2	11.93	1.49	1.38
1	D1	2250	A	N7-C5	11.92	1.46	1.39
1	D1	2252	C	C4-C5	11.91	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F1	2253	U	C4-C5	11.88	1.54	1.43
30	GI	60	TRP	CG-CD2	11.72	1.63	1.43
1	D1	2250	A	N9-C4	11.61	1.44	1.37
1	D1	2253	U	C2-N3	11.44	1.45	1.37
1	F1	2251	A	C6-N1	11.30	1.43	1.35
1	F1	2254	A	N3-C4	11.23	1.41	1.34
34	EM	3	PHE	CE2-CZ	11.03	1.58	1.37
1	F1	2255	U	C2-N3	11.01	1.45	1.37
1	D1	2250	A	C6-N1	10.81	1.43	1.35
1	D1	2250	A	N9-C8	10.77	1.46	1.37
1	D1	2252	C	N3-C4	10.72	1.41	1.33
1	F1	2256	G	C5-C4	10.71	1.45	1.38
1	F1	2255	U	N1-C6	10.70	1.47	1.38
1	F1	2251	A	N7-C5	10.62	1.45	1.39
1	D1	2252	C	N1-C6	10.44	1.43	1.37
1	D1	2251	A	C5-C6	10.16	1.50	1.41
1	F1	2252	C	C2-N3	10.15	1.43	1.35
1	F1	2256	G	N9-C8	9.96	1.44	1.37
1	D1	2254	A	N9-C8	9.87	1.45	1.37
1	F1	2251	A	C5-C4	9.86	1.45	1.38
1	F1	2254	A	N7-C5	9.72	1.45	1.39
1	D1	2254	A	N1-C2	9.69	1.43	1.34
1	D1	2254	A	C2-N3	9.54	1.42	1.33
1	F1	2252	C	C4-C5	9.37	1.50	1.43
1	F1	2251	A	N9-C4	9.31	1.43	1.37
1	D1	2254	A	C6-N6	8.99	1.41	1.33
1	D1	2252	C	C2-N3	8.92	1.42	1.35
1	D1	2253	U	C2-O2	8.77	1.30	1.22
1	D1	2254	A	C8-N7	8.67	1.37	1.31
1	D1	2250	A	C5-C6	8.67	1.48	1.41
1	D1	2251	A	N1-C2	8.48	1.42	1.34
1	F1	2252	C	N1-C2	8.23	1.48	1.40
1	D1	2251	A	N9-C4	8.19	1.42	1.37
1	F1	2252	C	C2-O2	8.17	1.31	1.24
1	F1	2256	G	C8-N7	8.17	1.35	1.30
1	D1	2250	A	C6-N6	8.15	1.40	1.33
1	D1	2252	C	C2-O2	8.08	1.31	1.24
1	F1	2256	G	N1-C2	7.96	1.44	1.37
1	D1	2253	U	C4-O4	7.89	1.29	1.23
1	F1	2255	U	N3-C4	7.82	1.45	1.38
1	F1	2255	U	C2-O2	7.74	1.29	1.22
1	D1	2250	A	C8-N7	7.71	1.36	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D1	3008	U	N1-C2	7.67	1.45	1.38
1	F1	3008	U	N1-C2	7.65	1.45	1.38
1	A1	3067	A	N9-C4	-7.63	1.33	1.37
30	GI	60	TRP	CD2-CE3	-7.63	1.28	1.40
1	F1	284	U	C2-N3	7.60	1.43	1.37
1	D1	2250	A	N1-C2	7.48	1.41	1.34
1	F1	2251	A	C6-N6	7.25	1.39	1.33
1	D1	2251	A	C6-N6	7.23	1.39	1.33
1	F1	2256	G	C2-N3	7.17	1.38	1.32
1	F1	2255	U	C5-C6	7.14	1.40	1.34
1	F1	2256	G	C6-N1	7.14	1.44	1.39
34	GM	117	THR	CA-CB	-7.02	1.35	1.53
31	GJ	89	TRP	NE1-CE2	-7.00	1.28	1.37
1	F1	284	U	N1-C2	6.97	1.44	1.38
1	F1	2254	A	C5-C4	6.84	1.43	1.38
31	CJ	89	TRP	NE1-CE2	-6.83	1.28	1.37
1	D1	3008	U	N3-C4	6.79	1.44	1.38
1	D1	219	A	N9-C4	-6.72	1.33	1.37
1	D1	2253	U	N1-C6	6.71	1.44	1.38
1	D1	2250	A	C2-N3	6.69	1.39	1.33
1	D1	832	A	N9-C4	-6.69	1.33	1.37
1	F1	119	A	C6-N1	6.64	1.40	1.35
1	D1	2251	A	N9-C8	6.62	1.43	1.37
1	D1	2252	C	C5-C6	6.59	1.39	1.34
1	H1	3008	U	N1-C2	6.58	1.44	1.38
1	F1	2251	A	N9-C8	6.51	1.43	1.37
1	F1	2256	G	C5-C6	6.50	1.48	1.42
1	F1	2253	U	C2-N3	6.50	1.42	1.37
1	D1	2253	U	N3-C4	6.50	1.44	1.38
1	F1	2254	A	C6-N6	6.50	1.39	1.33
1	A1	3008	U	C4-C5	6.48	1.49	1.43
1	F1	3037	A	N9-C4	-6.44	1.33	1.37
1	F1	219	A	N9-C4	-6.35	1.34	1.37
30	GI	60	TRP	CD1-NE1	6.29	1.48	1.38
31	BJ	89	TRP	NE1-CE2	-6.28	1.29	1.37
2	AA	22	CYS	CB-SG	-6.28	1.71	1.82
31	EJ	89	TRP	NE1-CE2	-6.24	1.29	1.37
1	F1	2254	A	C5-C6	6.18	1.46	1.41
1	A1	3008	U	N1-C2	6.14	1.44	1.38
1	D1	2251	A	C2-N3	6.14	1.39	1.33
1	F1	3067	A	N9-C4	-6.13	1.34	1.37
1	D1	2252	C	C4-N4	6.12	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	219	A	N9-C4	-5.91	1.34	1.37
1	D1	2251	A	C8-N7	5.88	1.35	1.31
1	F1	2251	A	N1-C2	5.88	1.39	1.34
1	F1	668	G	C6-O6	5.82	1.29	1.24
1	F1	1588	A	N9-C4	5.77	1.41	1.37
1	F1	2252	C	N1-C6	5.76	1.40	1.37
1	F1	515	A	N9-C4	5.73	1.41	1.37
1	A1	668	G	C6-O6	5.73	1.29	1.24
1	D1	3037	A	N9-C4	-5.62	1.34	1.37
1	A1	2399	A	N3-C4	5.59	1.38	1.34
1	A1	119	A	C6-N1	5.57	1.39	1.35
1	H1	3037	A	N9-C4	-5.54	1.34	1.37
1	A1	515	A	N9-C4	5.53	1.41	1.37
20	G2	105	A	N3-C4	5.48	1.38	1.34
1	D1	1614	A	N9-C4	-5.44	1.34	1.37
1	A1	2803	G	N7-C5	5.43	1.42	1.39
1	D1	1394	G	C6-O6	5.39	1.29	1.24
1	D1	2315	A	N9-C4	-5.37	1.34	1.37
1	F1	2255	U	C4-O4	5.35	1.27	1.23
1	A1	1614	A	N9-C4	-5.34	1.34	1.37
1	F1	1041	C	N3-C4	-5.33	1.30	1.33
1	D1	2253	U	C5-C6	5.33	1.39	1.34
1	H1	685	G	N9-C4	5.30	1.42	1.38
1	A1	1612	A	N9-C4	-5.29	1.34	1.37
1	H1	3008	U	C2-N3	5.29	1.41	1.37
1	F1	2239	A	N9-C4	-5.23	1.34	1.37
1	H1	1078	U	N1-C2	5.23	1.43	1.38
1	A1	3037	A	N9-C4	-5.20	1.34	1.37
1	A1	2606	U	C2-N3	5.20	1.41	1.37
1	D1	1538	U	C4-O4	5.20	1.27	1.23
1	H1	3266	G	N1-C2	5.17	1.41	1.37
1	F1	2254	A	C2-N3	5.13	1.38	1.33
1	F1	3008	U	C4-C5	5.13	1.48	1.43
30	GI	60	TRP	CG-CD1	-5.12	1.29	1.36
1	A1	1614	A	N7-C5	-5.12	1.36	1.39
1	F1	2252	C	C5-C6	5.10	1.38	1.34
1	D1	668	G	C6-O6	5.09	1.28	1.24
1	F1	2276	A	C5-C4	-5.07	1.35	1.38
2	FA	30	GLN	CG-CD	5.06	1.62	1.51
1	D1	995	A	N9-C4	-5.05	1.34	1.37
1	F1	1344	A	N7-C5	-5.04	1.36	1.39
1	F1	2606	U	C4-O4	5.04	1.27	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H1	119	A	C6-N1	5.03	1.39	1.35
1	H1	2728	A	N9-C4	5.02	1.40	1.37

All (1677) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	2253	U	C5-C6-N1	-21.57	111.92	122.70
30	GI	60	TRP	CE2-CD2-CG	-18.64	92.39	107.30
1	D1	284	U	C6-N1-C2	-15.54	111.67	121.00
1	F1	119	A	N1-C6-N6	15.41	127.85	118.60
1	H1	1053	A	C6-N1-C2	-15.06	109.57	118.60
1	F1	2253	U	C2-N3-C4	-14.61	118.23	127.00
1	H1	1053	A	N1-C2-N3	14.32	136.46	129.30
1	F1	284	U	C6-N1-C2	-14.16	112.51	121.00
1	F1	2253	U	C4-C5-C6	14.02	128.11	119.70
1	A1	119	A	N1-C6-N6	13.45	126.67	118.60
1	D1	119	A	N1-C6-N6	13.39	126.63	118.60
1	H1	192	C	C6-N1-C2	13.18	125.57	120.30
1	H1	119	A	N1-C6-N6	12.98	126.39	118.60
1	F1	2251	A	N1-C6-N6	12.63	126.18	118.60
1	F1	2251	A	N9-C4-C5	-12.49	100.81	105.80
30	GI	60	TRP	NE1-CE2-CZ2	-11.79	117.43	130.40
1	D1	2253	U	C5-C6-N1	-11.75	116.83	122.70
1	D1	2606	U	N3-C4-C5	-11.50	107.70	114.60
1	F1	284	U	N3-C2-O2	-11.49	114.16	122.20
1	F1	1476	G	N1-C6-O6	11.36	126.72	119.90
1	H1	2276	A	C8-N9-C4	11.27	110.31	105.80
1	F1	284	U	N3-C4-C5	-11.06	107.96	114.60
1	A1	2276	A	C8-N9-C4	10.97	110.19	105.80
1	D1	2273	C	N1-C2-O2	10.79	125.37	118.90
1	F1	1110	U	C5-C6-N1	10.75	128.08	122.70
1	D1	2606	U	C6-N1-C2	-10.71	114.57	121.00
1	F1	2239	A	P-O3'-C3'	-10.59	106.99	119.70
1	A1	3037	A	N1-C6-N6	10.52	124.91	118.60
1	H1	339	C	C6-N1-C2	10.51	124.50	120.30
1	F1	668	G	C4-C5-N7	-10.38	106.65	110.80
1	A1	37	A	N1-C6-N6	10.37	124.82	118.60
1	A1	1476	G	C5-C6-O6	-10.34	122.39	128.60
1	A1	1476	G	N1-C6-O6	10.26	126.06	119.90
1	D1	1110	U	C5-C6-N1	10.22	127.81	122.70
1	F1	2273	C	N1-C2-O2	10.21	125.02	118.90
1	H1	1407	A	C8-N9-C4	10.20	109.88	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	1110	U	C2-N1-C1'	10.19	129.93	117.70
1	A1	2254	A	C5-C6-N1	10.19	122.80	117.70
1	F1	2276	A	C8-N9-C4	10.19	109.88	105.80
1	F1	2252	C	C4-C5-C6	10.18	122.49	117.40
1	H1	1053	A	N1-C6-N6	-10.16	112.50	118.60
1	H1	3266	G	C8-N9-C4	10.16	110.46	106.40
1	H1	1110	U	C2-N1-C1'	10.12	129.85	117.70
1	H1	2273	C	N1-C2-O2	10.02	124.91	118.90
1	D1	1110	U	C2-N1-C1'	10.02	129.72	117.70
1	D1	668	G	C5-C6-O6	9.99	134.59	128.60
20	G2	95	C	C6-N1-C2	9.96	124.28	120.30
1	F1	284	U	C5-C6-N1	9.87	127.64	122.70
1	H1	2606	U	N3-C4-C5	-9.85	108.69	114.60
1	A1	685	G	C8-N9-C4	-9.84	102.46	106.40
30	GI	60	TRP	CD1-NE1-CE2	9.80	117.82	109.00
1	F1	2253	U	N3-C2-O2	-9.77	115.36	122.20
1	F1	1476	G	C5-C6-O6	-9.73	122.76	128.60
1	D1	2398	G	N1-C6-O6	9.67	125.70	119.90
1	D1	668	G	C4-C5-N7	-9.67	106.93	110.80
1	A1	1110	U	C2-N1-C1'	9.65	129.29	117.70
1	F1	2255	U	N3-C4-O4	-9.64	112.65	119.40
1	D1	1394	G	C5-C6-N1	-9.55	106.72	111.50
30	GI	60	TRP	CD2-CE2-CZ2	-9.52	110.88	122.30
1	H1	2398	G	N1-C6-O6	9.52	125.61	119.90
1	A1	1110	U	C5-C4-O4	-9.51	120.19	125.90
1	F1	284	U	C2-N1-C1'	9.51	129.11	117.70
1	F1	2252	C	C5-C6-N1	-9.48	116.26	121.00
1	F1	2252	C	N1-C2-O2	-9.48	113.21	118.90
1	D1	284	U	N3-C4-C5	-9.47	108.92	114.60
1	D1	2251	A	C8-N9-C4	9.46	109.58	105.80
1	A1	1476	G	C4-C5-N7	9.37	114.55	110.80
1	D1	1538	U	N3-C4-C5	-9.32	109.01	114.60
1	H1	284	U	C6-N1-C2	-9.31	115.41	121.00
1	A1	1110	U	C5-C6-N1	9.26	127.33	122.70
20	E2	95	C	C6-N1-C2	9.22	123.99	120.30
1	H1	37	A	N1-C6-N6	9.19	124.11	118.60
1	H1	2776	C	C6-N1-C2	9.16	123.96	120.30
1	D1	685	G	N3-C4-C5	-9.08	124.06	128.60
1	F1	1476	G	C4-C5-N7	9.08	114.43	110.80
1	F1	2239	A	OP2-P-O3'	9.03	125.06	105.20
1	F1	119	A	C5-C6-N6	-9.02	116.48	123.70
1	F1	2606	U	N3-C4-C5	-8.98	109.21	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	344	G	C5-C6-N1	-8.98	107.01	111.50
1	A1	3266	G	C8-N9-C4	8.96	109.98	106.40
1	D1	37	A	N1-C6-N6	8.96	123.98	118.60
1	H1	2243	C	N1-C2-O2	-8.96	113.53	118.90
1	F1	422	C	C6-N1-C2	8.90	123.86	120.30
1	A1	668	G	C4-C5-N7	-8.88	107.25	110.80
1	D1	2606	U	C5-C6-N1	8.86	127.13	122.70
1	D1	1902	C	N3-C2-O2	-8.84	115.71	121.90
1	F1	1110	U	C5-C4-O4	-8.84	120.60	125.90
1	F1	37	A	N1-C6-N6	8.83	123.90	118.60
1	D1	284	U	C5-C4-O4	8.81	131.19	125.90
1	D1	1476	G	N1-C6-O6	8.81	125.19	119.90
1	F1	668	G	C5-C6-N1	-8.80	107.10	111.50
1	D1	119	A	C4-C5-N7	8.75	115.07	110.70
14	HO	111	LEU	CA-CB-CG	-8.73	95.22	115.30
1	D1	3037	A	C5-N7-C8	-8.70	99.55	103.90
1	F1	1476	G	C5-N7-C8	-8.70	99.95	104.30
1	A1	1476	G	C5-N7-C8	-8.69	99.95	104.30
1	A1	2273	C	N1-C2-O2	8.69	124.12	118.90
1	D1	398	G	C8-N9-C4	8.69	109.88	106.40
1	D1	284	U	N1-C2-N3	8.69	120.11	114.90
1	A1	1538	U	N3-C4-C5	-8.68	109.39	114.60
1	F1	685	G	C8-N9-C4	-8.68	102.93	106.40
1	H1	339	C	C5-C6-N1	-8.67	116.67	121.00
1	H1	2606	U	C6-N1-C2	-8.66	115.80	121.00
1	F1	1617	G	C4-C5-N7	-8.65	107.34	110.80
1	D1	2904	C	C6-N1-C2	8.64	123.76	120.30
14	DO	111	LEU	CA-CB-CG	-8.64	95.44	115.30
1	H1	290	C	C6-N1-C2	8.64	123.75	120.30
1	D1	70	C	N3-C2-O2	-8.62	115.87	121.90
1	D1	1110	U	C5-C4-O4	-8.61	120.73	125.90
1	D1	284	U	C5-C6-N1	8.61	127.00	122.70
1	D1	3266	G	C8-N9-C4	8.60	109.84	106.40
1	H1	1053	A	C5-C6-N1	8.56	121.98	117.70
14	FO	111	LEU	CA-CB-CG	-8.54	95.65	115.30
21	G3	83	G	N3-C4-C5	8.54	132.87	128.60
1	F1	2273	C	N1-C2-N3	-8.52	113.23	119.20
1	F1	2253	U	N1-C2-N3	8.52	120.01	114.90
1	H1	1926	G	N1-C6-O6	8.51	125.00	119.90
1	D1	2597	G	N1-C6-O6	8.50	125.00	119.90
1	A1	398	G	C8-N9-C4	8.49	109.80	106.40
1	H1	2904	C	N1-C2-N3	-8.49	113.26	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1394	G	C5-C6-N1	-8.48	107.26	111.50
1	H1	150	A	C8-N9-C4	8.47	109.19	105.80
1	H1	2904	C	C6-N1-C2	8.46	123.69	120.30
1	F1	1617	G	C5-C6-N1	-8.46	107.27	111.50
1	A1	1533	G	C5-N7-C8	-8.46	100.07	104.30
1	D1	2904	C	N1-C2-N3	-8.45	113.28	119.20
1	H1	1394	G	C5-C6-N1	-8.45	107.28	111.50
1	D1	1476	G	C5-C6-O6	-8.43	123.54	128.60
1	H1	1110	U	C5-C6-N1	8.43	126.91	122.70
1	D1	1476	G	C4-C5-N7	8.42	114.17	110.80
1	F1	1041	C	N3-C2-O2	-8.39	116.03	121.90
1	D1	668	G	N9-C4-C5	8.39	108.75	105.40
1	F1	2252	C	C2-N3-C4	-8.36	115.72	119.90
1	D1	1617	G	C5-C6-N1	-8.36	107.32	111.50
1	F1	2251	A	C4-C5-N7	8.34	114.87	110.70
1	D1	668	G	C5-C6-N1	-8.33	107.33	111.50
1	A1	1926	G	N1-C6-O6	8.33	124.90	119.90
1	D1	1460	G	C5-N7-C8	-8.32	100.14	104.30
1	D1	119	A	C6-C5-N7	-8.31	126.48	132.30
1	H1	2398	G	C5-C6-O6	-8.31	123.61	128.60
1	A1	668	G	C5-C6-N1	-8.31	107.35	111.50
1	A1	1617	G	C5-C6-N1	-8.30	107.35	111.50
1	A1	119	A	C4-C5-N7	8.29	114.84	110.70
1	H1	704	G	C8-N9-C4	8.25	109.70	106.40
1	A1	2932	U	C5-C6-N1	-8.23	118.58	122.70
1	D1	2276	A	C8-N9-C4	8.22	109.09	105.80
1	A1	2398	G	N1-C6-O6	8.21	124.83	119.90
1	D1	3037	A	C4-C5-N7	8.20	114.80	110.70
1	F1	1533	G	C2-N3-C4	-8.19	107.81	111.90
1	D1	284	U	C2-N1-C1'	8.19	127.53	117.70
1	H1	2276	A	N7-C8-N9	-8.19	109.71	113.80
1	D1	832	A	C2-N3-C4	-8.18	106.51	110.60
1	D1	2252	C	C4-C5-C6	8.18	121.49	117.40
1	D1	1144	G	N3-C4-C5	-8.17	124.52	128.60
1	D1	2253	U	N3-C4-O4	-8.17	113.68	119.40
14	AO	111	LEU	CA-CB-CG	-8.13	96.59	115.30
1	F1	832	A	C2-N3-C4	-8.12	106.54	110.60
1	H1	150	A	N9-C4-C5	-8.11	102.56	105.80
1	F1	1926	G	N1-C6-O6	8.07	124.74	119.90
1	D1	2253	U	C5-C4-O4	8.05	130.73	125.90
1	F1	2276	A	N7-C8-N9	-8.05	109.78	113.80
1	A1	119	A	C5-C6-N6	-8.04	117.26	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	2239	A	O3'-P-O5'	-8.04	88.72	104.00
1	F1	339	C	C6-N1-C2	8.04	123.52	120.30
1	D1	1926	G	N1-C6-O6	8.03	124.72	119.90
1	D1	2182	G	C8-N9-C4	-8.02	103.19	106.40
1	H1	2273	C	C6-N1-C1'	-8.00	111.20	120.80
1	A1	2855	C	C6-N1-C2	8.00	123.50	120.30
1	F1	119	A	C4-C5-N7	8.00	114.70	110.70
1	F1	1533	G	N1-C6-O6	8.00	124.70	119.90
1	H1	284	U	C2-N1-C1'	8.00	127.30	117.70
1	H1	2397	A	C8-N9-C4	7.99	109.00	105.80
1	H1	26	C	C6-N1-C2	7.98	123.49	120.30
1	A1	2278	G	N1-C6-O6	7.97	124.69	119.90
1	D1	685	G	C8-N9-C4	-7.96	103.22	106.40
1	H1	2869	C	C6-N1-C2	7.96	123.48	120.30
1	F1	1458	C	C6-N1-C2	-7.96	117.12	120.30
1	D1	2133	U	C5-C6-N1	-7.95	118.72	122.70
1	A1	2398	G	C5-C6-O6	-7.95	123.83	128.60
1	D1	119	A	C5-C6-N6	-7.93	117.36	123.70
1	F1	3266	G	N9-C4-C5	-7.92	102.23	105.40
1	A1	1902	C	N3-C2-O2	-7.92	116.36	121.90
1	H1	36	U	C6-N1-C2	7.92	125.75	121.00
30	GI	60	TRP	CB-CG-CD2	-7.91	116.31	126.60
1	D1	1476	G	C5-N7-C8	-7.91	100.35	104.30
1	H1	2243	C	N3-C2-O2	7.90	127.43	121.90
1	F1	1217	A	N1-C6-N6	7.89	123.33	118.60
1	F1	2278	G	N1-C6-O6	7.87	124.62	119.90
1	A1	284	U	C5-C6-N1	7.87	126.63	122.70
1	H1	149	U	C5-C6-N1	7.87	126.63	122.70
1	F1	1926	G	C6-C5-N7	-7.85	125.69	130.40
1	F1	3008	U	N3-C2-O2	-7.83	116.72	122.20
1	F1	2273	C	C6-N1-C1'	-7.83	111.41	120.80
30	GI	60	TRP	CG-CD1-NE1	-7.82	102.28	110.10
21	G3	83	G	N3-C4-N9	-7.82	121.31	126.00
1	A1	2133	U	N3-C4-O4	-7.81	113.93	119.40
1	H1	2597	G	N1-C6-O6	7.81	124.58	119.90
1	D1	1458	C	C6-N1-C2	-7.80	117.18	120.30
21	B3	44	C	C6-N1-C2	7.80	123.42	120.30
1	F1	344	G	C5-C6-N1	-7.80	107.60	111.50
1	A1	37	A	C5-C6-N6	-7.79	117.47	123.70
1	D1	344	G	C5-C6-N1	-7.78	107.61	111.50
1	A1	2276	A	N7-C8-N9	-7.77	109.91	113.80
1	D1	1538	U	N3-C4-O4	7.77	124.84	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	2251	A	C5-C6-N6	-7.77	117.49	123.70
1	F1	1344	A	C4-C5-C6	7.75	120.88	117.00
1	F1	1227	A	C8-N9-C4	-7.74	102.70	105.80
1	D1	2273	C	C6-N1-C1'	-7.74	111.52	120.80
1	F1	1902	C	N1-C2-O2	7.72	123.53	118.90
1	D1	2278	G	N1-C6-O6	7.71	124.53	119.90
1	F1	2933	G	C8-N9-C4	-7.71	103.31	106.40
1	H1	805	A	C8-N9-C4	7.70	108.88	105.80
1	D1	2273	C	N1-C2-N3	-7.69	113.82	119.20
1	A1	2803	G	C8-N9-C4	7.68	109.47	106.40
1	F1	2904	C	N1-C2-N3	-7.67	113.83	119.20
1	H1	668	G	C5-C6-N1	-7.66	107.67	111.50
1	F1	2398	G	N1-C6-O6	7.66	124.50	119.90
1	H1	119	A	N1-C2-N3	7.66	133.13	129.30
1	H1	943	C	N3-C4-C5	7.65	124.96	121.90
1	F1	1613	A	C8-N9-C4	7.64	108.86	105.80
1	F1	668	G	N9-C4-C5	7.64	108.46	105.40
1	A1	1533	G	C2-N3-C4	-7.64	108.08	111.90
1	H1	2790	A	C8-N9-C4	7.64	108.86	105.80
1	A1	2544	U	C6-N1-C2	7.63	125.58	121.00
1	A1	2133	U	C5-C6-N1	-7.60	118.90	122.70
1	A1	1902	C	C2-N1-C1'	7.57	127.13	118.80
1	F1	119	A	N9-C4-C5	-7.57	102.77	105.80
1	H1	2629	A	C8-N9-C4	7.56	108.82	105.80
1	A1	284	U	C6-N1-C2	-7.56	116.46	121.00
1	H1	2273	C	C2-N1-C1'	7.56	127.11	118.80
1	H1	2301	C	N1-C2-O2	7.56	123.43	118.90
20	G2	86	G	N3-C4-C5	7.56	132.38	128.60
1	A1	2597	G	N1-C6-O6	7.55	124.43	119.90
1	D1	1227	A	C8-N9-C4	-7.54	102.78	105.80
1	F1	2597	G	N1-C6-O6	7.53	124.42	119.90
1	F1	3044	A	C2-N3-C4	-7.53	106.83	110.60
1	H1	119	A	C2-N3-C4	-7.53	106.83	110.60
1	H1	1476	G	N1-C6-O6	7.53	124.42	119.90
1	A1	1110	U	N3-C4-O4	7.52	124.67	119.40
1	H1	1902	C	C2-N1-C1'	7.50	127.05	118.80
1	F1	2606	U	C6-N1-C2	-7.50	116.50	121.00
1	H1	2273	C	N1-C2-N3	-7.49	113.95	119.20
1	D1	119	A	C2-N3-C4	-7.49	106.86	110.60
1	F1	1902	C	N3-C2-O2	-7.49	116.66	121.90
1	D1	1533	G	C2-N3-C4	-7.48	108.16	111.90
1	H1	2967	U	C5-C6-N1	-7.47	118.96	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	1902	C	C2-N1-C1'	7.46	127.00	118.80
1	H1	282	G	N3-C2-N2	-7.46	114.68	119.90
1	H1	1053	A	N3-C4-C5	-7.46	121.58	126.80
1	F1	2253	U	N3-C4-O4	-7.45	114.18	119.40
1	F1	1613	A	N9-C4-C5	-7.45	102.82	105.80
1	A1	119	A	C6-C5-N7	-7.45	127.09	132.30
1	F1	668	G	C5-C6-O6	7.45	133.07	128.60
1	D1	1926	G	C6-C5-N7	-7.44	125.94	130.40
1	H1	678	C	C6-N1-C2	7.43	123.27	120.30
1	D1	2606	U	N3-C4-O4	7.43	124.60	119.40
1	A1	3266	G	N9-C4-C5	-7.42	102.43	105.40
1	A1	668	G	C5-C6-O6	7.42	133.05	128.60
1	H1	1533	G	C2-N3-C4	-7.41	108.19	111.90
1	D1	117	G	C2-N3-C4	7.41	115.60	111.90
1	H1	2923	U	N1-C2-N3	7.41	119.34	114.90
1	H1	355	C	C6-N1-C2	7.40	123.26	120.30
1	H1	2800	C	N3-C4-C5	7.40	124.86	121.90
1	A1	344	G	C8-N9-C4	-7.39	103.44	106.40
1	A1	2273	C	C6-N1-C1'	-7.39	111.94	120.80
1	D1	1927	U	N3-C4-O4	7.38	124.57	119.40
20	B2	95	C	C6-N1-C2	7.38	123.25	120.30
1	F1	3109	C	C4-C5-C6	-7.38	113.71	117.40
1	A1	1144	G	N3-C4-C5	-7.37	124.91	128.60
1	F1	398	G	C8-N9-C4	7.36	109.34	106.40
1	D1	344	G	C8-N9-C4	-7.36	103.46	106.40
1	F1	37	A	C5-N7-C8	-7.35	100.22	103.90
1	A1	2904	C	C6-N1-C2	7.34	123.24	120.30
1	D1	1460	G	C4-C5-N7	7.33	113.73	110.80
1	D1	3067	A	N1-C6-N6	7.33	123.00	118.60
1	F1	2251	A	C6-N1-C2	7.32	123.00	118.60
1	A1	1183	C	C6-N1-C2	7.32	123.23	120.30
1	H1	1028	A	C8-N9-C4	7.32	108.73	105.80
1	D1	1902	C	N1-C2-O2	7.31	123.29	118.90
1	H1	1110	U	C5-C4-O4	-7.30	121.52	125.90
1	F1	664	U	N3-C4-C5	-7.30	110.22	114.60
1	H1	2785	U	C5-C6-N1	-7.30	119.05	122.70
1	D1	2371	G	C8-N9-C4	-7.29	103.48	106.40
1	A1	70	C	N3-C2-O2	-7.28	116.80	121.90
1	F1	117	G	C5-C6-N1	7.28	115.14	111.50
1	F1	70	C	N3-C2-O2	-7.28	116.81	121.90
1	F1	37	A	C6-C5-N7	-7.28	127.21	132.30
1	F1	3109	C	N3-C4-C5	7.25	124.80	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	3037	A	N1-C6-N6	7.25	122.95	118.60
1	F1	1407	A	C8-N9-C4	7.25	108.70	105.80
1	A1	1533	G	C4-C5-N7	7.25	113.70	110.80
1	A1	2803	G	N7-C8-N9	-7.24	109.48	113.10
1	D1	2133	U	N3-C4-O4	-7.22	114.34	119.40
20	C2	95	C	C6-N1-C2	7.22	123.19	120.30
1	H1	685	G	C8-N9-C4	-7.22	103.51	106.40
1	D1	2181	U	C5-C4-O4	7.22	130.23	125.90
1	A1	832	A	C2-N3-C4	-7.21	106.99	110.60
1	D1	2252	C	C5-C6-N1	-7.21	117.39	121.00
1	A1	282	G	N3-C2-N2	-7.21	114.85	119.90
1	D1	119	A	N1-C2-N3	7.21	132.91	129.30
1	H1	3047	U	N1-C2-O2	-7.21	117.76	122.80
1	D1	2253	U	C4-C5-C6	7.21	124.02	119.70
1	F1	2544	U	N3-C4-C5	7.19	118.91	114.60
1	F1	400	C	N3-C4-C5	7.19	124.78	121.90
1	H1	1476	G	C4-C5-N7	7.19	113.67	110.80
1	A1	117	G	C5-C6-N1	7.19	115.09	111.50
1	F1	1110	U	N3-C4-O4	7.19	124.43	119.40
1	F1	865	C	C6-N1-C2	7.18	123.17	120.30
1	A1	2254	A	C4-C5-C6	-7.18	113.41	117.00
21	B3	83	G	N3-C4-C5	7.18	132.19	128.60
1	A1	117	G	C2-N3-C4	7.17	115.49	111.90
1	F1	1110	U	C6-N1-C2	-7.17	116.70	121.00
1	D1	1446	C	C5-C6-N1	7.17	124.58	121.00
1	D1	2273	C	C2-N1-C1'	7.17	126.68	118.80
1	H1	1832	G	C8-N9-C4	7.17	109.27	106.40
1	A1	2273	C	N1-C2-N3	-7.16	114.19	119.20
1	F1	2544	U	C6-N1-C2	7.16	125.29	121.00
1	A1	1926	G	C6-C5-N7	-7.15	126.11	130.40
1	A1	3077	G	C5-C6-N1	-7.14	107.93	111.50
1	A1	150	A	N9-C4-C5	-7.13	102.95	105.80
1	H1	1613	A	N9-C4-C5	-7.13	102.95	105.80
1	A1	2596	G	N1-C6-O6	7.12	124.17	119.90
1	H1	2278	G	N1-C6-O6	7.12	124.17	119.90
1	F1	1902	C	C2-N1-C1'	7.12	126.63	118.80
1	A1	2273	C	C2-N1-C1'	7.10	126.61	118.80
1	H1	93	A	C8-N9-C4	7.10	108.64	105.80
1	H1	3109	C	C4-C5-C6	-7.10	113.85	117.40
1	D1	2606	U	C2-N3-C4	7.10	131.26	127.00
20	G2	136	U	C5-C6-N1	-7.09	119.15	122.70
1	H1	1927	U	N3-C4-O4	7.09	124.37	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	2398	G	C6-C5-N7	-7.09	126.15	130.40
1	H1	119	A	C6-C5-N7	-7.09	127.34	132.30
1	F1	2923	U	N1-C2-N3	7.08	119.15	114.90
1	H1	2145	A	N9-C4-C5	-7.08	102.97	105.80
1	D1	2145	A	C8-N9-C4	7.08	108.63	105.80
1	D1	2923	U	N1-C2-N3	7.08	119.14	114.90
1	F1	37	A	C4-C5-N7	7.05	114.23	110.70
1	F1	284	U	C5-C4-O4	7.05	130.13	125.90
1	H1	2756	U	C5-C6-N1	-7.04	119.18	122.70
1	H1	119	A	C5-C6-N6	-7.04	118.06	123.70
1	D1	2251	A	N9-C4-C5	-7.03	102.99	105.80
1	F1	2145	A	C4-C5-N7	7.03	114.21	110.70
1	F1	119	A	C6-C5-N7	-7.02	127.39	132.30
1	F1	2255	U	C5-C4-O4	7.02	130.11	125.90
1	D1	882	G	C4-C5-N7	-7.02	107.99	110.80
1	D1	3043	U	C5-C4-O4	7.02	130.11	125.90
1	F1	2904	C	C6-N1-C2	7.02	123.11	120.30
1	F1	2398	G	C5-C6-O6	-7.01	124.39	128.60
1	A1	2606	U	N3-C4-C5	-7.01	110.39	114.60
1	F1	668	G	N3-C4-N9	-7.01	121.80	126.00
1	A1	1344	A	C4-C5-C6	7.01	120.50	117.00
1	F1	149	U	C5-C6-N1	7.00	126.20	122.70
1	H1	1617	G	C5-C6-N1	-7.00	108.00	111.50
1	D1	1079	A	N1-C6-N6	7.00	122.80	118.60
1	F1	2251	A	N1-C2-N3	-7.00	125.80	129.30
1	D1	1110	U	N3-C4-O4	6.99	124.29	119.40
1	H1	1902	C	N1-C2-O2	6.99	123.09	118.90
1	H1	3266	G	N7-C8-N9	-6.99	109.61	113.10
21	C3	83	G	N3-C4-N9	-6.98	121.81	126.00
1	H1	3037	A	C2-N3-C4	-6.98	107.11	110.60
1	A1	150	A	C8-N9-C4	6.98	108.59	105.80
1	H1	3334	C	C6-N1-C2	6.97	123.09	120.30
1	D1	398	G	N7-C8-N9	-6.97	109.61	113.10
1	D1	1344	A	C4-C5-C6	6.97	120.49	117.00
1	H1	668	G	C4-C5-N7	-6.97	108.01	110.80
1	H1	932	G	C8-N9-C4	6.97	109.19	106.40
1	F1	2756	U	C5-C6-N1	-6.97	119.22	122.70
1	D1	664	U	N3-C4-O4	6.96	124.27	119.40
1	H1	119	A	C4-C5-N7	6.96	114.18	110.70
1	H1	422	C	C6-N1-C2	6.95	123.08	120.30
1	F1	3266	G	C8-N9-C4	6.95	109.18	106.40
1	D1	117	G	C5-C6-N1	6.94	114.97	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H1	2350	G	C8-N9-C4	6.94	109.18	106.40
1	H1	1343	G	C4-N9-C1'	6.93	135.52	126.50
1	H1	1069	C	C6-N1-C2	6.93	123.07	120.30
1	D1	3037	A	C2-N3-C4	-6.92	107.14	110.60
1	F1	282	G	N3-C2-N2	-6.92	115.06	119.90
1	A1	119	A	N9-C4-C5	-6.92	103.03	105.80
1	F1	3037	A	N1-C6-N6	6.92	122.75	118.60
1	H1	404	A	N9-C4-C5	-6.91	103.03	105.80
1	A1	1142	G	C8-N9-C4	-6.91	103.64	106.40
1	A1	2867	C	N1-C2-O2	-6.90	114.76	118.90
1	H1	2870	U	C5-C6-N1	-6.90	119.25	122.70
1	F1	355	C	C6-N1-C2	6.90	123.06	120.30
1	H1	1902	C	N3-C2-O2	-6.88	117.08	121.90
1	D1	2182	G	C5-C6-O6	6.88	132.73	128.60
1	D1	606	U	C6-N1-C2	-6.88	116.88	121.00
1	H1	1927	U	N3-C4-C5	-6.87	110.48	114.60
1	F1	2273	C	C2-N1-C1'	6.87	126.35	118.80
1	A1	2619	C	C6-N1-C2	6.86	123.05	120.30
1	H1	1407	A	N7-C8-N9	-6.85	110.37	113.80
1	A1	2398	G	C6-C5-N7	-6.85	126.29	130.40
1	D1	150	A	C8-N9-C4	6.84	108.54	105.80
1	H1	930	U	C5-C6-N1	-6.84	119.28	122.70
1	H1	2398	G	C6-C5-N7	-6.84	126.30	130.40
1	A1	398	G	N7-C8-N9	-6.84	109.68	113.10
1	F1	290	C	C6-N1-C2	6.84	123.04	120.30
1	F1	3043	U	C5-C4-O4	6.83	130.00	125.90
1	A1	3067	A	C2-N3-C4	-6.83	107.19	110.60
1	F1	1343	G	C8-N9-C1'	-6.83	118.12	127.00
1	A1	1614	A	C5-N7-C8	-6.83	100.48	103.90
1	A1	1615	G	N1-C6-O6	6.82	123.99	119.90
1	H1	284	U	C5-C6-N1	6.82	126.11	122.70
1	D1	2182	G	N9-C4-C5	6.81	108.13	105.40
1	A1	3037	A	C5-C6-N1	-6.81	114.29	117.70
1	F1	1041	C	C5-C4-N4	6.81	124.97	120.20
1	H1	897	A	C8-N9-C4	6.81	108.52	105.80
1	A1	685	G	N3-C4-C5	-6.80	125.20	128.60
1	A1	1614	A	C8-N9-C4	-6.80	103.08	105.80
1	D1	150	A	N9-C4-C5	-6.80	103.08	105.80
1	A1	3332	A	C4-N9-C1'	6.80	138.53	126.30
1	D1	2398	G	C5-C6-O6	-6.79	124.52	128.60
1	H1	3264	U	C6-N1-C2	6.79	125.08	121.00
1	H1	117	G	C2-N3-C4	6.79	115.30	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	2276	A	N9-C4-C5	-6.78	103.09	105.80
1	F1	1925	A	C8-N9-C4	-6.78	103.09	105.80
1	F1	2967	U	C5-C6-N1	-6.78	119.31	122.70
1	D1	1142	G	C8-N9-C4	-6.78	103.69	106.40
21	B3	83	G	N3-C4-N9	-6.78	121.93	126.00
1	A1	3047	U	N1-C2-O2	-6.77	118.06	122.80
1	H1	1046	G	C8-N9-C4	-6.76	103.69	106.40
1	F1	3070	C	C6-N1-C2	6.76	123.00	120.30
1	D1	685	G	C2-N3-C4	6.75	115.27	111.90
1	D1	3008	U	N1-C2-O2	6.75	127.52	122.80
1	H1	968	U	C5-C6-N1	-6.75	119.33	122.70
1	H1	2354	C	C6-N1-C2	6.75	123.00	120.30
1	H1	668	G	N3-C4-N9	-6.74	121.95	126.00
1	H1	707	A	C8-N9-C4	6.74	108.50	105.80
1	A1	2254	A	C2-N3-C4	6.73	113.97	110.60
1	D1	3332	A	C4-N9-C1'	6.73	138.42	126.30
1	H1	1441	U	C5-C6-N1	-6.73	119.34	122.70
1	D1	2145	A	N9-C4-C5	-6.72	103.11	105.80
1	D1	1460	G	N7-C8-N9	6.72	116.46	113.10
1	D1	2273	C	C2-N3-C4	6.72	123.26	119.90
1	F1	1868	C	C6-N1-C2	6.72	122.99	120.30
1	A1	1227	A	C8-N9-C4	-6.71	103.11	105.80
1	A1	3037	A	C2-N3-C4	-6.71	107.24	110.60
1	D1	668	G	N3-C4-N9	-6.71	121.97	126.00
1	F1	965	G	C8-N9-C4	6.69	109.08	106.40
1	H1	2273	C	C4-C5-C6	-6.69	114.06	117.40
1	D1	1343	G	C8-N9-C1'	-6.69	118.31	127.00
1	F1	117	G	C2-N3-C4	6.68	115.24	111.90
1	H1	418	G	C5-N7-C8	-6.68	100.96	104.30
13	AN	100	ASP	CB-CG-OD1	-6.65	112.31	118.30
1	H1	2904	C	C2-N3-C4	6.65	123.22	119.90
1	A1	1217	A	N1-C6-N6	6.64	122.59	118.60
1	D1	219	A	C5-N7-C8	-6.64	100.58	103.90
1	F1	2606	U	N3-C4-O4	6.64	124.05	119.40
1	H1	3332	A	N7-C8-N9	6.64	117.12	113.80
1	F1	3067	A	N1-C6-N6	6.64	122.58	118.60
1	H1	814	U	C5-C6-N1	-6.64	119.38	122.70
1	A1	1926	G	C4-N9-C1'	6.63	135.12	126.50
1	F1	1343	G	C4-N9-C1'	6.63	135.12	126.50
1	H1	1476	G	C5-C6-O6	-6.63	124.62	128.60
1	A1	339	C	C6-N1-C2	6.62	122.95	120.30
1	F1	2273	C	C2-N3-C4	6.62	123.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	1926	G	C4-N9-C1'	6.62	135.10	126.50
1	F1	606	U	C5-C6-N1	6.61	126.00	122.70
1	D1	2253	U	C2-N3-C4	-6.61	123.04	127.00
1	H1	398	G	C8-N9-C4	6.60	109.04	106.40
1	H1	1110	U	N3-C4-O4	6.60	124.02	119.40
1	D1	842	A	C8-N9-C4	-6.60	103.16	105.80
1	H1	1192	A	C8-N9-C4	6.60	108.44	105.80
1	F1	3332	A	C4-N9-C1'	6.60	138.18	126.30
1	H1	2397	A	N9-C4-C5	-6.60	103.16	105.80
1	D1	119	A	C5-N7-C8	-6.59	100.61	103.90
1	H1	953	C	C6-N1-C2	6.59	122.94	120.30
1	D1	1154	G	N3-C4-C5	6.59	131.89	128.60
1	D1	1179	G	C4-C5-N7	6.59	113.44	110.80
1	H1	2273	C	C5-C6-N1	6.59	124.29	121.00
1	A1	2399	A	C8-N9-C4	6.58	108.43	105.80
1	D1	998	A	C8-N9-C4	6.58	108.43	105.80
1	H1	408	C	N3-C4-C5	6.58	124.53	121.90
1	D1	3266	G	N9-C4-C5	-6.57	102.77	105.40
1	H1	3332	A	C4-N9-C1'	6.57	138.13	126.30
1	D1	638	U	C5-C6-N1	6.57	125.99	122.70
1	F1	2145	A	C5-C6-N1	6.57	120.98	117.70
1	H1	1419	A	C8-N9-C4	6.57	108.43	105.80
1	D1	2344	U	C5-C6-N1	6.57	125.98	122.70
20	G2	86	G	C5-C6-N1	-6.56	108.22	111.50
1	H1	1926	G	C6-C5-N7	-6.56	126.46	130.40
1	H1	418	G	C4-C5-N7	6.56	113.42	110.80
1	A1	1481	U	C5-C6-N1	6.56	125.98	122.70
1	H1	1343	G	C8-N9-C1'	-6.56	118.48	127.00
1	D1	339	C	C5-C6-N1	-6.55	117.72	121.00
1	D1	2804	G	N1-C6-O6	6.55	123.83	119.90
1	H1	1217	A	N1-C6-N6	6.55	122.53	118.60
1	F1	2253	U	C6-N1-C2	6.54	124.93	121.00
1	F1	2251	A	C8-N9-C4	6.54	108.42	105.80
1	H1	2182	G	C5-C6-O6	6.54	132.52	128.60
1	A1	3109	C	C4-C5-C6	-6.53	114.14	117.40
1	H1	1344	A	C6-C5-N7	-6.53	127.73	132.30
1	A1	2182	G	C5-C6-O6	6.53	132.52	128.60
1	D1	1179	G	C5-N7-C8	-6.53	101.04	104.30
1	F1	664	U	N3-C4-O4	6.52	123.97	119.40
1	H1	968	U	C6-N1-C2	6.52	124.91	121.00
1	A1	818	U	C5-C6-N1	-6.52	119.44	122.70
1	A1	2273	C	C5-C6-N1	6.52	124.26	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	3047	U	N1-C2-O2	-6.52	118.24	122.80
1	A1	1858	U	N3-C4-C5	-6.52	110.69	114.60
1	A1	2182	G	C8-N9-C4	-6.50	103.80	106.40
20	G2	59	G	C8-N9-C4	6.50	109.00	106.40
1	D1	2544	U	C6-N1-C2	6.50	124.90	121.00
1	H1	2815	U	C2-N1-C1'	6.50	125.49	117.70
1	A1	933	G	C4-C5-N7	6.49	113.40	110.80
1	D1	1142	G	N3-C2-N2	6.49	124.44	119.90
1	A1	3077	G	N1-C6-O6	6.49	123.79	119.90
1	A1	3044	A	N1-C6-N6	6.49	122.49	118.60
1	D1	363	G	C8-N9-C4	-6.48	103.81	106.40
1	D1	422	C	C6-N1-C2	6.48	122.89	120.30
1	H1	1927	U	C5-C6-N1	6.48	125.94	122.70
1	A1	1533	G	N1-C6-O6	6.48	123.79	119.90
1	D1	1051	C	C6-N1-C2	-6.48	117.71	120.30
1	D1	1374	C	C6-N1-C2	-6.47	117.71	120.30
1	D1	2276	A	N7-C8-N9	-6.47	110.56	113.80
1	F1	3334	C	C6-N1-C2	6.47	122.89	120.30
1	H1	2606	U	N1-C2-O2	-6.47	118.27	122.80
1	F1	606	U	C6-N1-C2	-6.47	117.12	121.00
20	G2	113	U	C5-C6-N1	-6.46	119.47	122.70
1	F1	1178	U	N3-C4-C5	-6.46	110.72	114.60
1	H1	3081	C	N3-C4-C5	6.46	124.48	121.90
1	H1	3037	A	N1-C6-N6	6.46	122.47	118.60
1	H1	1722	C	C6-N1-C2	6.45	122.88	120.30
20	C2	113	U	C5-C6-N1	-6.45	119.47	122.70
1	H1	70	C	N3-C2-O2	-6.44	117.39	121.90
21	C3	44	C	C6-N1-C2	6.44	122.88	120.30
1	F1	1484	U	C5-C6-N1	-6.44	119.48	122.70
1	H1	2904	C	C4-C5-C6	-6.44	114.18	117.40
1	A1	3109	C	N3-C4-C5	6.44	124.48	121.90
1	H1	3273	U	C2-N1-C1'	-6.44	109.98	117.70
1	A1	2300	G	N1-C6-O6	6.43	123.76	119.90
1	D1	2867	C	N1-C2-O2	-6.43	115.04	118.90
1	H1	1533	G	N1-C6-O6	6.43	123.76	119.90
1	F1	3081	C	C6-N1-C2	6.43	122.87	120.30
1	A1	1902	C	N1-C2-O2	6.42	122.75	118.90
1	A1	1617	G	C4-C5-N7	-6.42	108.23	110.80
1	D1	2815	U	C2-N1-C1'	6.42	125.40	117.70
1	D1	2606	U	N1-C2-O2	-6.42	118.31	122.80
1	F1	1028	A	C8-N9-C4	6.42	108.37	105.80
1	D1	1217	A	N1-C6-N6	6.41	122.45	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1343	G	C4-N9-C1'	6.41	134.83	126.50
1	D1	1533	G	C5-N7-C8	-6.41	101.10	104.30
1	H1	354	A	C8-N9-C4	6.41	108.36	105.80
1	A1	339	C	C5-C6-N1	-6.40	117.80	121.00
1	A1	1130	A	C8-N9-C4	6.40	108.36	105.80
1	F1	149	U	C6-N1-C2	-6.40	117.16	121.00
1	H1	2276	A	N9-C4-C5	-6.40	103.24	105.80
1	D1	1344	A	C6-C5-N7	-6.39	127.82	132.30
1	H1	117	G	C4-C5-C6	-6.39	114.96	118.80
1	F1	1533	G	C5-N7-C8	-6.39	101.11	104.30
1	F1	882	G	C4-C5-N7	-6.38	108.25	110.80
1	D1	902	C	C5-C6-N1	-6.38	117.81	121.00
1	H1	1344	A	N1-C6-N6	6.38	122.43	118.60
1	D1	282	G	N3-C2-N2	-6.38	115.43	119.90
1	A1	1460	G	C5-N7-C8	-6.38	101.11	104.30
1	H1	80	C	C6-N1-C2	6.38	122.85	120.30
1	A1	2606	U	C4-C5-C6	6.37	123.52	119.70
1	F1	1344	A	N1-C2-N3	6.37	132.48	129.30
1	H1	1455	G	N3-C4-N9	6.37	129.82	126.00
1	A1	422	C	C6-N1-C2	6.36	122.84	120.30
1	F1	2904	C	C4-C5-C6	-6.36	114.22	117.40
1	F1	2765	C	C6-N1-C2	-6.36	117.76	120.30
1	H1	880	U	C5-C6-N1	-6.36	119.52	122.70
1	H1	3332	A	C6-C5-N7	-6.36	127.85	132.30
1	D1	2365	G	C8-N9-C4	6.36	108.94	106.40
1	D1	1110	U	C6-N1-C2	-6.35	117.19	121.00
1	A1	951	A	N1-C2-N3	6.34	132.47	129.30
1	H1	2756	U	C6-N1-C2	6.34	124.81	121.00
1	H1	701	A	C8-N9-C4	6.34	108.34	105.80
1	D1	2597	G	C5-C6-O6	-6.34	124.80	128.60
1	F1	515	A	C8-N9-C4	-6.34	103.26	105.80
1	F1	2398	G	C6-C5-N7	-6.33	126.60	130.40
1	F1	2933	G	N9-C4-C5	6.33	107.93	105.40
1	H1	82	C	C6-N1-C2	6.33	122.83	120.30
1	A1	1130	A	N9-C4-C5	-6.33	103.27	105.80
1	A1	3008	U	C2-N3-C4	-6.33	123.20	127.00
21	E3	83	G	N3-C4-N9	-6.33	122.20	126.00
1	A1	418	G	C5-N7-C8	-6.33	101.14	104.30
21	E3	44	C	C6-N1-C2	6.32	122.83	120.30
1	F1	1344	A	C6-C5-N7	-6.32	127.88	132.30
1	A1	1585	A	C8-N9-C4	6.32	108.33	105.80
26	GE	1	MET	CG-SD-CE	6.32	110.31	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	284	U	N1-C2-O2	6.32	127.22	122.80
1	F1	2815	U	C2-N1-C1'	6.32	125.28	117.70
20	B2	54	G	C4-C5-N7	6.32	113.33	110.80
1	F1	1344	A	C2-N3-C4	-6.31	107.44	110.60
1	F1	674	C	N1-C2-O2	-6.31	115.11	118.90
1	D1	2919	C	C2-N3-C4	6.31	123.06	119.90
1	A1	344	G	C4-C5-C6	6.31	122.58	118.80
1	A1	2803	G	C6-C5-N7	6.30	134.18	130.40
1	D1	1533	G	N1-C6-O6	6.30	123.68	119.90
1	H1	1861	C	C6-N1-C2	6.30	122.82	120.30
1	F1	3008	U	N1-C2-O2	6.30	127.21	122.80
1	H1	848	C	C6-N1-C2	-6.30	117.78	120.30
1	H1	2785	U	C4-C5-C6	6.29	123.47	119.70
1	A1	832	A	C5-C6-N1	-6.29	114.56	117.70
1	A1	1533	G	N7-C8-N9	6.29	116.24	113.10
1	A1	2255	U	C6-N1-C2	6.28	124.77	121.00
1	H1	3109	C	N3-C4-C5	6.28	124.41	121.90
1	A1	2182	G	N9-C4-C5	6.28	107.91	105.40
1	A1	3045	A	N1-C6-N6	-6.28	114.83	118.60
1	D1	685	G	N9-C4-C5	6.28	107.91	105.40
1	A1	2576	C	C5-C6-N1	6.27	124.14	121.00
1	D1	2919	C	N1-C2-N3	-6.27	114.81	119.20
1	A1	284	U	C2-N1-C1'	6.27	125.22	117.70
1	D1	1343	G	C4-N9-C1'	6.27	134.65	126.50
1	A1	3332	A	C8-N9-C4	-6.26	103.29	105.80
1	H1	60	A	C8-N9-C4	6.26	108.31	105.80
1	D1	37	A	C6-C5-N7	-6.26	127.92	132.30
1	A1	2976	C	N3-C4-C5	-6.26	119.40	121.90
1	A1	1631	U	C5-C6-N1	-6.25	119.57	122.70
1	F1	1227	A	N9-C4-C5	6.25	108.30	105.80
1	H1	2867	C	N1-C2-O2	-6.25	115.15	118.90
1	H1	2544	U	C6-N1-C2	6.25	124.75	121.00
1	D1	2904	C	N1-C2-O2	6.25	122.65	118.90
1	H1	186	U	C5-C6-N1	-6.24	119.58	122.70
1	D1	1344	A	N1-C6-N6	6.24	122.34	118.60
1	F1	2182	G	N9-C4-C5	6.24	107.90	105.40
1	F1	685	G	N9-C4-C5	6.24	107.89	105.40
20	B2	54	G	C5-N7-C8	-6.23	101.18	104.30
1	A1	2749	C	N1-C2-O2	6.23	122.64	118.90
1	H1	2133	U	C5-C6-N1	-6.23	119.58	122.70
1	H1	1467	G	C8-N9-C4	6.23	108.89	106.40
1	H1	1053	A	N9-C4-C5	6.22	108.29	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H1	1484	U	C5-C6-N1	-6.22	119.59	122.70
1	H1	291	C	C6-N1-C2	6.22	122.79	120.30
1	H1	2993	C	C6-N1-C2	6.22	122.79	120.30
1	H1	1615	G	N1-C6-O6	6.22	123.63	119.90
1	A1	1458	C	C6-N1-C2	-6.21	117.81	120.30
1	A1	2803	G	C5-N7-C8	6.21	107.41	104.30
1	H1	1613	A	C8-N9-C4	6.21	108.29	105.80
1	D1	2749	C	N1-C2-O2	6.21	122.63	118.90
1	H1	2606	U	N1-C2-N3	6.21	118.63	114.90
1	D1	674	C	N1-C2-O2	-6.21	115.17	118.90
1	D1	2862	G	C5-C6-N1	-6.21	108.39	111.50
1	A1	2332	C	C5-C6-N1	-6.21	117.90	121.00
1	D1	1533	G	C4-C5-N7	6.20	113.28	110.80
1	F1	284	U	N1-C2-N3	6.20	118.62	114.90
1	A1	664	U	N3-C4-O4	6.20	123.74	119.40
1	A1	1892	G	N3-C4-N9	6.19	129.72	126.00
1	A1	2904	C	N1-C2-N3	-6.19	114.87	119.20
1	A1	1926	G	C8-N9-C1'	-6.19	118.95	127.00
1	D1	953	C	C6-N1-C2	6.19	122.78	120.30
1	F1	2145	A	C5-C6-N6	-6.19	118.75	123.70
1	H1	2182	G	C5-C6-N1	-6.19	108.41	111.50
1	D1	991	U	C2-N3-C4	-6.18	123.29	127.00
1	F1	1533	G	C4-C5-N7	6.18	113.27	110.80
1	H1	1581	C	C2-N1-C1'	-6.18	112.00	118.80
1	A1	2633	C	C5-C6-N1	-6.18	117.91	121.00
1	A1	1455	G	N9-C4-C5	-6.17	102.93	105.40
1	H1	1173	A	C8-N9-C4	6.17	108.27	105.80
1	F1	2301	C	N1-C2-O2	6.17	122.60	118.90
1	H1	26	C	C5-C6-N1	-6.17	117.92	121.00
1	H1	2152	U	C5-C6-N1	-6.17	119.62	122.70
1	D1	1613	A	C8-N9-C4	6.16	108.27	105.80
1	D1	1227	A	N9-C4-C5	6.16	108.27	105.80
1	H1	135	A	C8-N9-C4	6.16	108.27	105.80
1	H1	192	C	C5-C6-N1	-6.16	117.92	121.00
1	F1	1344	A	C5-C6-N1	-6.16	114.62	117.70
1	H1	1154	G	N1-C6-O6	6.16	123.59	119.90
1	F1	2961	G	N1-C6-O6	6.16	123.59	119.90
1	D1	2931	G	N1-C6-O6	6.15	123.59	119.90
1	D1	2749	C	C5-C6-N1	6.15	124.08	121.00
1	D1	904	U	N3-C2-O2	6.15	126.50	122.20
1	F1	1892	G	C8-N9-C1'	-6.15	119.01	127.00
1	A1	525	C	C6-N1-C2	-6.15	117.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	2803	G	C4-C5-N7	-6.14	108.34	110.80
1	F1	2867	C	N1-C2-O2	-6.14	115.21	118.90
1	H1	2268	G	N3-C4-N9	6.14	129.69	126.00
1	D1	2596	G	N1-C6-O6	6.14	123.58	119.90
1	H1	1538	U	N3-C4-C5	-6.14	110.92	114.60
1	D1	2133	U	C5-C4-O4	6.14	129.58	125.90
1	D1	2301	C	N1-C2-O2	6.14	122.58	118.90
1	H1	1110	U	C6-N1-C2	-6.14	117.32	121.00
1	H1	2951	C	C5-C6-N1	-6.14	117.93	121.00
1	A1	2273	C	C2-N3-C4	6.13	122.97	119.90
1	H1	356	U	C5-C6-N1	-6.13	119.64	122.70
1	H1	3067	A	N1-C6-N6	6.13	122.28	118.60
1	D1	1178	U	N3-C4-C5	-6.13	110.92	114.60
1	A1	968	U	C5-C6-N1	-6.13	119.64	122.70
1	F1	339	C	C5-C6-N1	-6.13	117.94	121.00
1	A1	2633	C	C2-N1-C1'	-6.12	112.06	118.80
1	A1	1460	G	C4-C5-N7	6.12	113.25	110.80
1	A1	3067	A	N1-C6-N6	6.12	122.27	118.60
20	E2	54	G	C5-N7-C8	-6.12	101.24	104.30
1	H1	2807	A	C8-N9-C4	6.12	108.25	105.80
1	D1	3264	U	C6-N1-C2	6.12	124.67	121.00
1	F1	1617	G	C5-C6-O6	6.12	132.27	128.60
1	H1	3266	G	N9-C4-C5	-6.12	102.95	105.40
1	F1	530	C	C6-N1-C2	-6.11	117.86	120.30
1	D1	2765	C	C6-N1-C2	-6.11	117.86	120.30
1	F1	1538	U	N3-C4-C5	-6.11	110.93	114.60
1	H1	2597	G	C5-C6-O6	-6.11	124.94	128.60
1	A1	941	G	N3-C4-N9	-6.10	122.34	126.00
1	H1	2576	C	C5-C6-N1	6.10	124.05	121.00
1	D1	941	G	N3-C4-N9	-6.10	122.34	126.00
1	F1	2146	G	N1-C6-O6	6.10	123.56	119.90
1	A1	149	U	C5-C6-N1	6.10	125.75	122.70
22	CA	217	HIS	N-CA-C	6.10	127.46	111.00
1	D1	1394	G	C4-C5-C6	6.09	122.46	118.80
1	A1	3024	A	C8-N9-C4	6.09	108.24	105.80
1	F1	2923	U	C5-C4-O4	6.09	129.55	125.90
1	H1	117	G	C5-C6-N1	6.09	114.54	111.50
1	H1	3224	C	C6-N1-C2	-6.09	117.86	120.30
1	F1	2152	U	C5-C6-N1	-6.09	119.66	122.70
1	F1	2855	C	C6-N1-C2	6.09	122.73	120.30
1	H1	2273	C	C2-N3-C4	6.09	122.94	119.90
1	H1	2410	C	C5-C6-N1	-6.08	117.96	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	1481	U	C2-N1-C1'	6.07	124.98	117.70
1	H1	1809	C	C6-N1-C2	6.07	122.73	120.30
22	BA	217	HIS	N-CA-C	6.07	127.38	111.00
1	F1	882	G	C5-N7-C8	6.07	107.33	104.30
1	H1	1178	U	N3-C4-C5	-6.07	110.96	114.60
1	D1	1344	A	C5-C6-N1	-6.07	114.67	117.70
1	A1	1227	A	N9-C4-C5	6.06	108.22	105.80
1	A1	1343	G	C8-N9-C1'	-6.06	119.12	127.00
1	D1	149	U	C5-C6-N1	6.06	125.73	122.70
1	D1	2250	A	N7-C8-N9	6.06	116.83	113.80
1	F1	1927	U	C5-C6-N1	6.05	125.73	122.70
1	D1	1460	G	C8-N9-C4	-6.05	103.98	106.40
1	D1	1481	U	C5-C6-N1	6.05	125.72	122.70
1	D1	674	C	N3-C2-O2	6.05	126.13	121.90
1	F1	1476	G	C6-C5-N7	-6.05	126.77	130.40
1	F1	2399	A	C8-N9-C4	6.05	108.22	105.80
1	A1	2815	U	C2-N1-C1'	6.04	124.95	117.70
1	D1	3273	U	C2-N1-C1'	-6.04	110.45	117.70
1	H1	2804	G	N1-C6-O6	6.04	123.53	119.90
22	GA	217	HIS	N-CA-C	6.04	127.32	111.00
1	F1	2145	A	N9-C4-C5	-6.04	103.38	105.80
1	H1	2948	C	C2-N3-C4	-6.04	116.88	119.90
1	H1	347	A	N1-C6-N6	6.04	122.22	118.60
1	H1	1585	A	C8-N9-C4	6.04	108.22	105.80
1	H1	1446	C	C5-C6-N1	6.03	124.02	121.00
1	A1	2633	C	C6-N1-C2	6.03	122.71	120.30
20	E2	54	G	C4-C5-N7	6.03	113.21	110.80
1	D1	1773	G	C8-N9-C4	-6.03	103.99	106.40
1	F1	968	U	C5-C6-N1	-6.03	119.69	122.70
1	H1	1458	C	N3-C4-C5	-6.03	119.49	121.90
1	F1	1042	U	C5-C6-N1	6.02	125.71	122.70
1	D1	685	G	C5-C6-N1	6.02	114.51	111.50
1	F1	2976	C	N3-C4-C5	-6.02	119.49	121.90
1	D1	664	U	N3-C4-C5	-6.02	110.99	114.60
1	H1	1169	G	C8-N9-C4	6.02	108.81	106.40
1	H1	943	C	C2-N3-C4	-6.01	116.89	119.90
1	A1	2273	C	C4-C5-C6	-6.01	114.39	117.40
1	D1	1926	G	C8-N9-C1'	-6.01	119.19	127.00
1	F1	2251	A	C5-N7-C8	-6.01	100.90	103.90
1	H1	270	C	C5-C6-N1	-6.01	118.00	121.00
1	H1	2891	A	C8-N9-C4	6.01	108.20	105.80
1	A1	2544	U	N3-C4-C5	6.01	118.20	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H1	1110	U	C6-N1-C1'	-6.01	112.79	121.20
1	H1	1183	C	C6-N1-C2	6.01	122.70	120.30
22	EA	217	HIS	N-CA-C	6.00	127.21	111.00
1	H1	117	G	N1-C2-N3	-6.00	120.30	123.90
1	A1	41	A	N1-C6-N6	-6.00	115.00	118.60
1	A1	1455	G	C4-C5-N7	5.99	113.20	110.80
1	D1	1154	G	N1-C6-O6	5.99	123.49	119.90
1	F1	186	U	C5-C6-N1	-5.99	119.71	122.70
1	D1	2954	G	N1-C6-O6	-5.98	116.31	119.90
1	A1	242	G	C8-N9-C4	5.98	108.79	106.40
1	A1	685	G	N9-C4-C5	5.98	107.79	105.40
1	A1	3037	A	C4-C5-N7	5.98	113.69	110.70
1	F1	3037	A	C5-N7-C8	-5.98	100.91	103.90
1	H1	685	G	N3-C4-C5	-5.98	125.61	128.60
1	H1	1344	A	C5-C6-N1	-5.98	114.71	117.70
1	A1	3037	A	C5-N7-C8	-5.97	100.91	103.90
1	D1	1922	G	C8-N9-C4	-5.97	104.01	106.40
1	F1	1394	G	C5-C6-N1	-5.97	108.52	111.50
1	A1	832	A	N1-C6-N6	5.97	122.18	118.60
1	F1	1142	G	N3-C2-N2	5.97	124.08	119.90
1	A1	1522	C	C2-N1-C1'	5.96	125.36	118.80
1	A1	3043	U	C5-C4-O4	5.96	129.48	125.90
1	H1	2606	U	C4-C5-C6	5.96	123.28	119.70
1	A1	1533	G	C6-C5-N7	-5.96	126.82	130.40
1	H1	36	U	C5-C6-N1	-5.96	119.72	122.70
1	F1	1186	A	C2-N3-C4	5.96	113.58	110.60
1	A1	833	A	N1-C2-N3	5.96	132.28	129.30
1	D1	284	U	N3-C2-O2	-5.96	118.03	122.20
1	H1	902	C	C5-C6-N1	-5.96	118.02	121.00
1	A1	1179	G	C4-C5-N7	5.95	113.18	110.80
1	A1	668	G	N3-C4-N9	-5.95	122.43	126.00
1	D1	1154	G	C5-N7-C8	-5.95	101.32	104.30
1	A1	1481	U	C2-N1-C1'	5.95	124.84	117.70
1	A1	1614	A	N7-C8-N9	5.95	116.77	113.80
1	F1	37	A	N7-C8-N9	5.95	116.77	113.80
1	H1	220	C	C5-C4-N4	-5.95	116.04	120.20
1	F1	1862	C	N3-C2-O2	-5.95	117.74	121.90
1	F1	3126	C	C6-N1-C2	5.95	122.68	120.30
1	F1	3273	U	C2-N1-C1'	-5.95	110.57	117.70
20	G2	136	U	C6-N1-C2	5.95	124.57	121.00
1	A1	1110	U	C6-N1-C1'	-5.94	112.88	121.20
1	F1	1927	U	N3-C4-O4	5.94	123.56	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	3331	C	N3-C2-O2	-5.94	117.74	121.90
1	A1	2399	A	N9-C4-C5	-5.94	103.42	105.80
1	A1	2301	C	N1-C2-O2	5.94	122.46	118.90
1	A1	119	A	C2-N3-C4	-5.93	107.63	110.60
1	A1	1216	C	N3-C4-C5	5.93	124.27	121.90
1	F1	2182	G	C5-C6-O6	5.93	132.16	128.60
1	F1	388	A	C8-N9-C4	5.93	108.17	105.80
1	H1	668	G	C5-C6-O6	5.93	132.16	128.60
1	D1	1617	G	C4-C5-N7	-5.93	108.43	110.80
1	H1	1051	C	C6-N1-C2	-5.93	117.93	120.30
1	F1	1926	G	C4-N9-C1'	5.92	134.20	126.50
1	F1	2756	U	C6-N1-C2	5.92	124.56	121.00
1	H1	606	U	C6-N1-C2	-5.92	117.45	121.00
1	F1	2254	A	C5-N7-C8	5.92	106.86	103.90
1	H1	2790	A	N7-C8-N9	-5.92	110.84	113.80
1	A1	978	G	C4-C5-N7	5.92	113.17	110.80
1	D1	2250	A	C5-C6-N1	-5.92	114.74	117.70
1	F1	1533	G	N3-C4-C5	5.92	131.56	128.60
1	F1	1927	U	N3-C4-C5	-5.91	111.05	114.60
1	F1	2182	G	C8-N9-C4	-5.91	104.03	106.40
1	F1	3332	A	C6-C5-N7	-5.91	128.16	132.30
1	H1	2596	G	N1-C6-O6	5.91	123.45	119.90
1	A1	2877	C	C6-N1-C2	5.91	122.66	120.30
1	A1	2133	U	C2-N3-C4	-5.91	123.46	127.00
1	F1	284	U	C4-C5-C6	5.91	123.24	119.70
1	F1	1497	U	C5-C6-N1	-5.91	119.75	122.70
1	H1	352	G	N1-C6-O6	5.91	123.44	119.90
1	H1	1522	C	C2-N1-C1'	5.91	125.30	118.80
1	F1	36	U	C6-N1-C2	5.90	124.54	121.00
1	A1	822	U	C5-C6-N1	-5.90	119.75	122.70
1	D1	119	A	N9-C4-C5	-5.90	103.44	105.80
24	GC	254	ARG	NE-CZ-NH2	-5.90	117.35	120.30
1	A1	37	A	C5-N7-C8	-5.90	100.95	103.90
20	B2	4	A	C8-N9-C4	5.89	108.16	105.80
1	D1	2749	C	C2-N3-C4	5.89	122.85	119.90
20	G2	86	G	N1-C6-O6	5.89	123.43	119.90
21	G3	44	C	C6-N1-C2	5.89	122.66	120.30
1	A1	418	G	C4-C5-N7	5.88	113.15	110.80
1	H1	815	U	C5-C6-N1	-5.88	119.76	122.70
1	A1	1927	U	N3-C4-C5	-5.88	111.07	114.60
1	H1	430	G	C8-N9-C4	5.88	108.75	106.40
1	D1	685	G	N1-C6-O6	-5.87	116.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	398	G	N7-C8-N9	-5.87	110.16	113.10
1	D1	3332	A	C6-C5-N7	-5.87	128.19	132.30
1	H1	43	A	C8-N9-C4	5.87	108.15	105.80
1	A1	2597	G	C5-C6-O6	-5.87	125.08	128.60
1	D1	904	U	N1-C2-O2	-5.87	118.69	122.80
1	H1	2268	G	N3-C4-C5	-5.86	125.67	128.60
1	A1	2243	C	C6-N1-C2	5.86	122.64	120.30
1	A1	1892	G	C8-N9-C1'	-5.86	119.38	127.00
1	A1	1344	A	C6-C5-N7	-5.86	128.20	132.30
1	H1	1484	U	C6-N1-C2	5.86	124.52	121.00
1	A1	1918	U	N1-C2-N3	5.85	118.41	114.90
1	F1	1631	U	C5-C6-N1	-5.85	119.77	122.70
1	H1	1902	C	C6-N1-C1'	-5.85	113.78	120.80
1	A1	876	C	C6-N1-C2	5.85	122.64	120.30
21	C3	93	G	N3-C4-N9	-5.84	122.50	126.00
1	F1	2749	C	N1-C2-O2	5.84	122.41	118.90
1	A1	1179	G	C5-N7-C8	-5.84	101.38	104.30
20	G2	105	A	N1-C2-N3	-5.84	126.38	129.30
1	F1	1925	A	N7-C8-N9	5.84	116.72	113.80
1	H1	37	A	C6-C5-N7	-5.84	128.21	132.30
1	A1	623	G	C4-N9-C1'	-5.84	118.91	126.50
1	F1	1522	C	C2-N1-C1'	5.84	125.22	118.80
1	D1	515	A	C8-N9-C4	-5.83	103.47	105.80
1	H1	1369	C	C6-N1-C2	5.83	122.63	120.30
1	H1	2182	G	C4-C5-N7	-5.83	108.47	110.80
1	F1	2133	U	C2-N1-C1'	-5.83	110.71	117.70
1	F1	2133	U	C5-C6-N1	-5.83	119.79	122.70
1	A1	606	U	C6-N1-C2	-5.83	117.50	121.00
1	D1	1110	U	C6-N1-C1'	-5.83	113.05	121.20
1	D1	1343	G	N3-C4-N9	5.83	129.50	126.00
20	E2	113	U	C5-C6-N1	-5.82	119.79	122.70
1	H1	1476	G	C5-N7-C8	-5.82	101.39	104.30
1	D1	664	U	C5-C6-N1	5.82	125.61	122.70
21	E3	70	G	C8-N9-C4	5.82	108.73	106.40
1	F1	1154	G	C5-N7-C8	-5.82	101.39	104.30
1	F1	933	G	C4-C5-N7	5.82	113.13	110.80
1	H1	1248	G	N1-C2-N3	5.82	127.39	123.90
1	D1	1521	U	N1-C2-N3	5.81	118.39	114.90
1	D1	949	G	N1-C6-O6	-5.81	116.41	119.90
30	GI	60	TRP	CH2-CZ2-CE2	-5.81	111.59	117.40
1	H1	3008	U	N3-C2-O2	-5.81	118.13	122.20
1	A1	37	A	C6-C5-N7	-5.80	128.24	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	2133	U	C5-C4-O4	5.80	129.38	125.90
1	D1	834	G	C8-N9-C4	-5.80	104.08	106.40
1	F1	694	U	C5-C6-N1	-5.80	119.80	122.70
1	F1	1455	G	N3-C4-N9	5.80	129.48	126.00
1	F1	207	U	C5-C6-N1	5.80	125.60	122.70
1	F1	2967	U	C2-N3-C4	-5.80	123.52	127.00
1	A1	37	A	C4-C5-N7	5.79	113.59	110.70
1	D1	3008	U	C5-C4-O4	-5.79	122.43	125.90
1	D1	3273	U	C5-C6-N1	-5.79	119.81	122.70
1	A1	3081	C	C6-N1-C2	5.79	122.61	120.30
1	D1	3334	C	C6-N1-C2	5.78	122.61	120.30
1	D1	2933	G	C8-N9-C4	-5.78	104.09	106.40
1	D1	987	A	C8-N9-C4	-5.78	103.49	105.80
1	F1	3119	A	N1-C2-N3	5.78	132.19	129.30
1	H1	1518	G	C8-N9-C4	5.78	108.71	106.40
1	H1	2145	A	C4-C5-N7	5.78	113.59	110.70
1	D1	285	U	C6-N1-C2	-5.78	117.53	121.00
1	A1	2800	C	C2-N3-C4	-5.77	117.01	119.90
1	F1	1179	G	C4-C5-N7	5.77	113.11	110.80
1	D1	1945	A	C8-N9-C4	-5.77	103.49	105.80
1	F1	1481	U	C2-N1-C1'	5.77	124.62	117.70
1	H1	2597	G	C8-N9-C4	5.77	108.71	106.40
1	H1	2633	C	C2-N1-C1'	-5.77	112.45	118.80
1	D1	1615	G	N1-C6-O6	5.77	123.36	119.90
1	D1	2904	C	C4-C5-C6	-5.77	114.52	117.40
1	F1	3266	G	C2-N3-C4	-5.76	109.02	111.90
1	A1	3037	A	C6-C5-N7	-5.76	128.27	132.30
1	H1	270	C	C6-N1-C2	5.76	122.61	120.30
1	D1	1925	A	C8-N9-C4	-5.76	103.50	105.80
1	F1	2923	U	C4-C5-C6	5.76	123.16	119.70
1	D1	219	A	C4-C5-N7	5.75	113.58	110.70
1	D1	606	U	C5-C6-N1	5.75	125.58	122.70
1	F1	3037	A	C2-N3-C4	-5.75	107.72	110.60
1	F1	1465	U	N1-C2-O2	-5.75	118.78	122.80
1	A1	2795	U	C5-C6-N1	-5.74	119.83	122.70
1	D1	3077	G	N1-C6-O6	5.74	123.34	119.90
1	A1	149	U	C6-N1-C2	-5.74	117.56	121.00
1	D1	809	A	C8-N9-C4	-5.74	103.50	105.80
1	F1	427	G	C8-N9-C4	-5.74	104.11	106.40
1	F1	1944	U	C5-C4-O4	5.74	129.34	125.90
1	A1	882	G	C4-C5-N7	-5.73	108.51	110.80
1	D1	1533	G	N3-C4-C5	5.73	131.47	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	2862	G	C5-C6-N1	-5.73	108.64	111.50
1	A1	355	C	C6-N1-C2	5.72	122.59	120.30
1	H1	149	U	C6-N1-C2	-5.72	117.56	121.00
1	H1	3109	C	C5-C6-N1	5.72	123.86	121.00
1	D1	1077	U	C2-N1-C1'	-5.72	110.83	117.70
20	G2	2	G	C8-N9-C1'	-5.72	119.56	127.00
1	F1	3070	C	C5-C6-N1	-5.72	118.14	121.00
1	A1	1538	U	N3-C4-O4	5.72	123.40	119.40
1	F1	2919	C	N1-C2-N3	-5.72	115.20	119.20
1	D1	149	U	C6-N1-C2	-5.71	117.57	121.00
1	H1	1950	C	N3-C4-C5	5.71	124.19	121.90
1	A1	1927	U	N3-C4-O4	5.71	123.40	119.40
1	H1	902	C	C2-N3-C4	-5.71	117.04	119.90
1	F1	2919	C	C2-N3-C4	5.71	122.75	119.90
1	D1	418	G	C4-C5-N7	5.71	113.08	110.80
1	D1	1892	G	C8-N9-C1'	-5.70	119.59	127.00
1	D1	1522	C	C2-N1-C1'	5.70	125.07	118.80
19	DX	22	VAL	CB-CA-C	-5.70	100.58	111.40
1	H1	1868	C	N3-C4-C5	5.70	124.18	121.90
1	A1	3273	U	C2-N1-C1'	-5.69	110.87	117.70
1	F1	941	G	N3-C4-N9	-5.69	122.58	126.00
1	F1	2125	C	C2-N1-C1'	5.69	125.06	118.80
1	H1	624	G	C4-N9-C1'	-5.69	119.10	126.50
1	F1	2398	G	N3-C4-N9	5.69	129.41	126.00
1	A1	3076	A	C8-N9-C4	-5.69	103.53	105.80
1	F1	83	A	N1-C6-N6	-5.69	115.19	118.60
1	D1	418	G	C5-N7-C8	-5.68	101.46	104.30
1	H1	1458	C	C6-N1-C2	-5.68	118.03	120.30
1	D1	1927	U	C5-C6-N1	5.68	125.54	122.70
1	D1	2919	C	C6-N1-C2	5.67	122.57	120.30
1	H1	388	A	C8-N9-C4	5.67	108.07	105.80
1	H1	437	A	C8-N9-C4	5.67	108.07	105.80
1	H1	1049	U	C2-N1-C1'	5.67	124.50	117.70
1	D1	1344	A	C2-N3-C4	-5.67	107.77	110.60
1	A1	2866	G	C6-C5-N7	-5.67	127.00	130.40
1	D1	2846	U	N3-C4-C5	-5.67	111.20	114.60
1	F1	1720	A	C8-N9-C4	5.67	108.07	105.80
1	F1	2341	C	C6-N1-C2	5.67	122.57	120.30
26	CE	1	MET	CG-SD-CE	5.67	109.27	100.20
1	F1	117	G	C4-C5-C6	-5.67	115.40	118.80
1	D1	117	G	N1-C2-N3	-5.67	120.50	123.90
1	H1	1178	U	C6-N1-C2	-5.66	117.60	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H1	838	G	C4-C5-N7	5.66	113.06	110.80
1	H1	1217	A	C5-N7-C8	-5.66	101.07	103.90
1	F1	192	C	C6-N1-C2	5.66	122.56	120.30
1	D1	1144	G	N3-C4-N9	5.65	129.39	126.00
1	D1	2797	C	N3-C4-C5	-5.65	119.64	121.90
1	A1	1538	U	C6-N1-C2	-5.65	117.61	121.00
20	E2	83	A	C8-N9-C4	5.65	108.06	105.80
1	A1	3332	A	N7-C8-N9	5.64	116.62	113.80
1	F1	1394	G	C4-N9-C1'	5.64	133.84	126.50
1	D1	2857	U	N1-C2-N3	5.64	118.28	114.90
1	F1	3273	U	C5-C6-N1	-5.63	119.88	122.70
1	D1	363	G	N7-C8-N9	5.63	115.92	113.10
1	A1	1476	G	N7-C8-N9	5.63	115.92	113.10
1	A1	689	A	C8-N9-C4	5.63	108.05	105.80
1	F1	1179	G	C5-N7-C8	-5.63	101.48	104.30
1	A1	1506	G	C4-C5-N7	5.63	113.05	110.80
35	BN	22	SER	N-CA-C	-5.63	95.81	111.00
1	F1	1343	G	N3-C4-N9	5.63	129.38	126.00
1	F1	2961	G	C5-C6-O6	-5.63	125.22	128.60
1	H1	3332	A	C5-N7-C8	-5.63	101.09	103.90
1	F1	1892	G	N3-C4-N9	5.63	129.38	126.00
1	A1	1937	G	C8-N9-C4	-5.62	104.15	106.40
1	A1	2398	G	C4-N9-C1'	5.62	133.81	126.50
21	C3	83	G	N3-C4-C5	5.62	131.41	128.60
1	D1	902	C	C2-N3-C4	-5.62	117.09	119.90
1	H1	2606	U	C5-C4-O4	5.62	129.27	125.90
1	D1	1178	U	C6-N1-C2	-5.62	117.63	121.00
1	A1	3081	C	C5-C6-N1	-5.62	118.19	121.00
1	D1	2633	C	C2-N1-C1'	-5.62	112.62	118.80
18	AU	129	GLY	N-CA-C	-5.62	99.06	113.10
1	A1	2933	G	C8-N9-C4	-5.61	104.15	106.40
1	D1	200	C	N1-C2-O2	5.61	122.27	118.90
1	F1	1110	U	C6-N1-C1'	-5.61	113.34	121.20
1	F1	1950	C	C6-N1-C2	5.61	122.55	120.30
20	E2	86	G	N3-C4-C5	5.61	131.40	128.60
1	A1	3264	U	C6-N1-C2	5.61	124.36	121.00
1	F1	2367	A	C8-N9-C4	-5.61	103.56	105.80
1	D1	3332	A	C8-N9-C1'	-5.61	117.61	127.70
1	F1	1902	C	C6-N1-C1'	-5.61	114.07	120.80
1	D1	2273	C	C5-C6-N1	5.60	123.80	121.00
1	F1	1533	G	C6-C5-N7	-5.60	127.04	130.40
1	H1	2230	C	C6-N1-C2	5.60	122.54	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	2272	C	C2-N3-C4	-5.60	117.10	119.90
1	D1	1892	G	C4-N9-C1'	5.60	133.78	126.50
1	D1	911	C	C6-N1-C2	5.60	122.54	120.30
1	H1	2755	U	C5-C6-N1	-5.60	119.90	122.70
1	F1	3047	U	N1-C2-O2	-5.59	118.88	122.80
1	H1	347	A	N9-C4-C5	-5.59	103.56	105.80
1	A1	1902	C	C6-N1-C1'	-5.59	114.09	120.80
1	F1	1130	A	C8-N9-C4	5.59	108.04	105.80
20	G2	63	U	C5-C6-N1	-5.59	119.91	122.70
1	F1	2776	C	C6-N1-C2	5.59	122.53	120.30
1	H1	98	A	C8-N9-C4	5.59	108.03	105.80
1	A1	1415	C	C6-N1-C2	-5.58	118.07	120.30
1	F1	2576	C	C5-C6-N1	5.58	123.79	121.00
1	F1	3119	A	C4-C5-C6	5.58	119.79	117.00
21	G3	8	G	C8-N9-C4	5.58	108.63	106.40
1	A1	1183	C	C5-C6-N1	-5.58	118.21	121.00
1	H1	1344	A	N7-C8-N9	5.58	116.59	113.80
1	H1	1407	A	N9-C4-C5	-5.58	103.57	105.80
1	F1	525	C	C6-N1-C2	-5.58	118.07	120.30
1	F1	1160	A	C8-N9-C4	5.58	108.03	105.80
1	F1	1581	C	C2-N1-C1'	-5.58	112.66	118.80
1	H1	1892	G	C8-N9-C1'	-5.58	119.75	127.00
21	E3	82	G	N3-C4-C5	5.58	131.39	128.60
1	F1	991	U	C2-N3-C4	-5.58	123.66	127.00
1	A1	668	G	N9-C4-C5	5.57	107.63	105.40
1	A1	282	G	C8-N9-C4	-5.57	104.17	106.40
1	H1	841	A	C8-N9-C4	5.57	108.03	105.80
1	A1	2265	A	N7-C8-N9	5.57	116.58	113.80
1	F1	2804	G	N1-C6-O6	5.57	123.24	119.90
1	D1	673	A	C8-N9-C4	-5.57	103.57	105.80
1	H1	1926	G	C8-N9-C1'	-5.57	119.76	127.00
1	D1	1179	G	N1-C6-O6	5.57	123.24	119.90
1	A1	2765	C	C6-N1-C2	-5.56	118.07	120.30
1	A1	624	G	C4-N9-C1'	-5.56	119.27	126.50
1	A1	1142	G	N7-C8-N9	5.56	115.88	113.10
1	A1	2933	G	N3-C4-C5	-5.56	125.82	128.60
1	H1	828	C	C6-N1-C2	5.56	122.53	120.30
1	F1	1476	G	N7-C8-N9	5.56	115.88	113.10
1	H1	668	G	N9-C4-C5	5.56	107.62	105.40
1	H1	2398	G	N3-C4-N9	5.56	129.34	126.00
1	A1	2398	G	N3-C4-N9	5.56	129.34	126.00
20	C2	136	U	C5-C6-N1	-5.56	119.92	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H1	323	A	C8-N9-C4	5.56	108.02	105.80
1	D1	37	A	C5-C6-N6	-5.56	119.25	123.70
1	D1	1034	U	C5-C4-O4	-5.56	122.57	125.90
1	D1	2253	U	C6-N1-C2	5.55	124.33	121.00
1	D1	3035	A	C8-N9-C4	-5.55	103.58	105.80
1	F1	1415	C	C6-N1-C2	-5.55	118.08	120.30
1	F1	3332	A	C8-N9-C1'	-5.55	117.70	127.70
1	D1	934	G	N9-C4-C5	5.55	107.62	105.40
1	H1	2256	G	C8-N9-C4	-5.55	104.18	106.40
1	H1	36	U	N3-C2-O2	5.55	126.09	122.20
1	D1	1055	A	N1-C6-N6	5.55	121.93	118.60
1	F1	1041	C	C5-C6-N1	-5.55	118.23	121.00
1	A1	1154	G	C5-N7-C8	-5.55	101.53	104.30
1	A1	1926	G	C4-C5-C6	5.55	122.13	118.80
1	D1	117	G	C4-C5-C6	-5.55	115.47	118.80
1	H1	874	C	C6-N1-C2	5.55	122.52	120.30
1	H1	2862	G	C5-C6-N1	-5.55	108.73	111.50
26	BE	1	MET	CG-SD-CE	5.54	109.07	100.20
1	H1	1533	G	N3-C4-C5	5.54	131.37	128.60
1	H1	2596	G	N7-C8-N9	5.54	115.87	113.10
1	A1	1344	A	N1-C2-N3	5.54	132.07	129.30
1	H1	467	A	N9-C4-C5	-5.54	103.58	105.80
1	H1	624	G	C8-N9-C1'	5.54	134.20	127.00
1	F1	991	U	C5-C6-N1	-5.54	119.93	122.70
1	H1	876	C	C6-N1-C2	5.54	122.51	120.30
1	A1	1154	G	N3-C4-C5	5.53	131.37	128.60
1	A1	3046	A	C8-N9-C4	-5.53	103.59	105.80
1	D1	2125	C	C2-N1-C1'	5.53	124.89	118.80
1	F1	3037	A	C4-C5-N7	5.53	113.47	110.70
18	FU	129	GLY	N-CA-C	-5.53	99.27	113.10
1	H1	845	A	C8-N9-C4	5.53	108.01	105.80
20	G2	5	A	N9-C4-C5	-5.53	103.59	105.80
1	H1	1918	U	C5-C6-N1	-5.53	119.93	122.70
1	D1	3109	C	C4-C5-C6	-5.53	114.64	117.40
1	F1	685	G	N3-C4-C5	-5.53	125.83	128.60
1	D1	2904	C	C2-N3-C4	5.53	122.66	119.90
1	H1	2688	G	N9-C4-C5	-5.53	103.19	105.40
1	D1	744	C	C6-N1-C2	-5.53	118.09	120.30
1	A1	701	A	C8-N9-C4	5.52	108.01	105.80
1	H1	620	A	N1-C2-N3	5.52	132.06	129.30
1	A1	1862	C	N1-C2-O2	5.52	122.21	118.90
1	H1	873	A	N1-C2-N3	5.52	132.06	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	3037	A	C6-C5-N7	-5.52	128.44	132.30
1	H1	805	A	N7-C8-N9	-5.52	111.04	113.80
1	H1	3037	A	C5-C6-N1	-5.52	114.94	117.70
18	DU	129	GLY	N-CA-C	-5.52	99.31	113.10
1	A1	1506	G	C5-N7-C8	-5.51	101.54	104.30
1	H1	678	C	N3-C4-C5	5.51	124.11	121.90
1	A1	1154	G	N1-C6-O6	5.51	123.20	119.90
1	F1	1000	C	C5-C6-N1	-5.51	118.25	121.00
1	H1	268	G	C8-N9-C4	5.51	108.60	106.40
1	H1	1892	G	N3-C4-N9	5.51	129.30	126.00
1	H1	2919	C	C2-N3-C4	5.51	122.65	119.90
1	D1	3037	A	N3-C4-C5	5.50	130.65	126.80
21	G3	93	G	C2-N3-C4	-5.50	109.15	111.90
1	A1	1181	A	C8-N9-C4	5.50	108.00	105.80
1	A1	1533	G	N3-C4-C5	5.50	131.35	128.60
18	HU	129	GLY	N-CA-C	-5.50	99.35	113.10
20	C2	5	A	N9-C4-C5	-5.50	103.60	105.80
1	F1	1142	G	C8-N9-C4	-5.50	104.20	106.40
1	F1	26	C	C6-N1-C2	5.50	122.50	120.30
1	F1	961	A	N1-C2-N3	5.49	132.05	129.30
1	H1	339	C	C2-N1-C1'	-5.49	112.76	118.80
1	H1	2398	G	N9-C4-C5	-5.49	103.20	105.40
1	D1	1179	G	N3-C4-C5	5.49	131.34	128.60
20	G2	86	G	C6-N1-C2	5.49	128.39	125.10
1	A1	1870	C	C2-N3-C4	-5.49	117.16	119.90
1	F1	2125	C	C6-N1-C1'	-5.49	114.22	120.80
1	F1	2967	U	N1-C2-N3	5.49	118.19	114.90
1	A1	941	G	N3-C4-C5	5.49	131.34	128.60
1	F1	1484	U	C6-N1-C2	5.49	124.29	121.00
1	F1	1554	G	C5-C6-N1	5.49	114.24	111.50
1	A1	2423	U	C5-C6-N1	-5.48	119.96	122.70
20	B2	54	G	N7-C8-N9	5.48	115.84	113.10
1	F1	2800	C	C2-N3-C4	-5.48	117.16	119.90
1	A1	19	A	C8-N9-C4	5.48	107.99	105.80
1	H1	3266	G	C2-N3-C4	-5.48	109.16	111.90
1	F1	1142	G	N1-C2-N2	-5.48	111.27	116.20
1	D1	1926	G	C5-C6-N1	-5.48	108.76	111.50
1	A1	797	A	C8-N9-C4	5.47	107.99	105.80
1	A1	1617	G	C5-C6-O6	5.47	131.88	128.60
1	D1	980	U	C5-C4-O4	5.47	129.19	125.90
1	H1	2326	C	N3-C4-C5	5.47	124.09	121.90
1	H1	3273	U	C6-N1-C1'	5.47	128.86	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	610	A	C8-N9-C4	5.47	107.99	105.80
20	E2	95	C	C5-C6-N1	-5.47	118.26	121.00
1	A1	3331	C	C6-N1-C2	-5.47	118.11	120.30
1	F1	1165	U	N1-C2-N3	5.47	118.18	114.90
1	H1	2948	C	N3-C2-O2	-5.47	118.07	121.90
1	F1	1220	A	C8-N9-C4	-5.46	103.61	105.80
1	F1	1775	A	N1-C6-N6	5.46	121.88	118.60
1	F1	1581	C	C5-C6-N1	-5.46	118.27	121.00
1	D1	2399	A	C8-N9-C4	5.46	107.98	105.80
1	F1	417	G	N1-C6-O6	-5.46	116.62	119.90
1	A1	119	A	N1-C2-N3	5.46	132.03	129.30
1	H1	2967	U	C2-N3-C4	-5.46	123.73	127.00
1	A1	418	G	C2-N3-C4	-5.45	109.17	111.90
1	A1	2332	C	C5-C4-N4	5.45	124.02	120.20
1	H1	707	A	N9-C4-C5	-5.45	103.62	105.80
1	H1	2134	A	N1-C6-N6	5.45	121.87	118.60
1	H1	1927	U	C6-N1-C2	-5.45	117.73	121.00
1	H1	2688	G	C8-N9-C4	5.45	108.58	106.40
1	D1	1538	U	C6-N1-C2	-5.45	117.73	121.00
1	F1	1460	G	C5-N7-C8	-5.45	101.58	104.30
1	F1	1892	G	C4-N9-C1'	5.44	133.58	126.50
1	D1	878	G	C8-N9-C4	-5.44	104.22	106.40
1	F1	133	C	N1-C2-O2	5.44	122.16	118.90
1	A1	621	G	N1-C6-O6	5.44	123.16	119.90
1	A1	1178	U	N3-C4-C5	-5.44	111.34	114.60
1	H1	729	A	C8-N9-C4	5.44	107.97	105.80
1	F1	2253	U	C5-C4-O4	5.43	129.16	125.90
1	F1	2804	G	C5-C6-N1	-5.43	108.78	111.50
1	D1	2776	C	C6-N1-C2	5.43	122.47	120.30
1	H1	674	C	N3-C2-O2	5.43	125.70	121.90
1	A1	911	C	C6-N1-C2	5.43	122.47	120.30
20	B2	86	G	N3-C4-C5	5.42	131.31	128.60
1	D1	1180	A	N1-C2-N3	5.42	132.01	129.30
1	F1	2422	C	C6-N1-C2	5.42	122.47	120.30
20	G2	17	U	C5-C6-N1	-5.42	119.99	122.70
1	H1	81	C	C4-C5-C6	5.42	120.11	117.40
20	B2	25	U	C2-N1-C1'	5.42	124.21	117.70
1	D1	1142	G	N1-C2-N2	-5.42	111.32	116.20
1	F1	1415	C	N3-C4-C5	5.42	124.07	121.90
20	G2	54	G	C4-C5-N7	5.42	112.97	110.80
1	A1	965	G	C8-N9-C4	5.42	108.57	106.40
1	H1	941	G	N3-C4-N9	-5.42	122.75	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	G2	83	A	C8-N9-C4	5.42	107.97	105.80
1	H1	2404	G	C5-C6-N1	5.42	114.21	111.50
1	A1	988	G	C4-C5-N7	-5.41	108.63	110.80
1	H1	1344	A	C5-N7-C8	-5.41	101.19	103.90
1	H1	2125	C	C6-N1-C1'	-5.41	114.30	120.80
5	HE	78	GLY	N-CA-C	-5.41	99.57	113.10
1	F1	1178	U	C4-C5-C6	5.41	122.95	119.70
1	D1	1455	G	N3-C4-N9	5.41	129.25	126.00
1	F1	939	A	C6-N1-C2	-5.41	115.36	118.60
1	F1	1460	G	C4-C5-N7	5.41	112.96	110.80
1	H1	398	G	N7-C8-N9	-5.41	110.40	113.10
1	A1	1344	A	C2-N3-C4	-5.41	107.90	110.60
1	D1	1394	G	C4-N9-C1'	5.41	133.53	126.50
1	A1	2790	A	C8-N9-C4	5.40	107.96	105.80
1	F1	1164	C	C6-N1-C2	-5.40	118.14	120.30
1	A1	1615	G	C5-C6-O6	-5.40	125.36	128.60
1	H1	1187	C	C6-N1-C2	5.40	122.46	120.30
1	H1	1934	A	C8-N9-C4	5.40	107.96	105.80
1	H1	2243	C	N3-C4-C5	5.40	124.06	121.90
1	D1	1614	A	C5-N7-C8	-5.40	101.20	103.90
1	H1	3264	U	C5-C6-N1	-5.40	120.00	122.70
1	A1	1460	G	N7-C8-N9	5.40	115.80	113.10
1	F1	2870	U	C5-C6-N1	-5.40	120.00	122.70
1	H1	1154	G	C5-N7-C8	-5.40	101.60	104.30
1	A1	1516	A	C5-N7-C8	-5.39	101.20	103.90
1	A1	3045	A	C5-C6-N6	5.39	128.02	123.70
1	D1	1154	G	C4-C5-N7	5.39	112.96	110.80
1	D1	1476	G	N7-C8-N9	5.39	115.80	113.10
1	F1	2241	G	C8-N9-C4	-5.39	104.24	106.40
1	H1	37	A	C5-C6-N6	-5.39	119.39	123.70
1	A1	36	U	C6-N1-C2	5.38	124.23	121.00
1	H1	837	G	C8-N9-C4	5.38	108.55	106.40
1	H1	418	G	C6-C5-N7	-5.38	127.17	130.40
1	H1	3332	A	C8-N9-C1'	-5.38	118.01	127.70
1	H1	2394	A	C8-N9-C4	-5.38	103.65	105.80
1	H1	418	G	C2-N3-C4	-5.38	109.21	111.90
1	F1	418	G	C2-N3-C4	-5.38	109.21	111.90
20	G2	96	A	N7-C8-N9	5.38	116.49	113.80
1	D1	1902	C	C6-N1-C1'	-5.37	114.35	120.80
1	D1	2145	A	C5-C6-N1	5.37	120.39	117.70
1	H1	736	A	C8-N9-C4	5.37	107.95	105.80
1	A1	2933	G	C2-N3-C4	5.37	114.58	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	1927	U	N1-C2-O2	-5.37	119.04	122.80
1	A1	343	A	C8-N9-C4	-5.37	103.65	105.80
1	A1	1933	A	C2-N3-C4	-5.37	107.92	110.60
1	D1	978	G	N9-C4-C5	-5.37	103.25	105.40
1	D1	1077	U	C6-N1-C1'	5.37	128.71	121.20
1	F1	147	U	N3-C2-O2	-5.37	118.44	122.20
1	A1	1394	G	C4-N9-C1'	5.36	133.47	126.50
1	F1	3109	C	C5-C6-N1	5.36	123.68	121.00
1	H1	883	A	C8-N9-C4	-5.36	103.65	105.80
1	F1	668	G	C5-N7-C8	5.36	106.98	104.30
1	H1	852	A	C8-N9-C4	5.36	107.94	105.80
1	A1	1581	C	C2-N1-C1'	-5.36	112.91	118.80
1	D1	1926	G	C4-C5-C6	5.36	122.01	118.80
1	D1	2182	G	N3-C4-N9	-5.36	122.79	126.00
1	H1	3070	C	C5-C6-N1	-5.35	118.32	121.00
1	A1	665	C	C5-C6-N1	-5.35	118.32	121.00
1	A1	3332	A	C8-N9-C1'	-5.35	118.07	127.70
1	F1	1144	G	N3-C4-C5	-5.35	125.92	128.60
1	H1	224	C	C5-C6-N1	5.35	123.67	121.00
1	F1	672	C	N3-C4-C5	-5.35	119.76	121.90
20	G2	5	A	C4-C5-N7	5.35	113.37	110.70
1	H1	1344	A	C2-N3-C4	-5.35	107.93	110.60
1	F1	1862	C	N1-C2-O2	5.34	122.11	118.90
1	F1	3264	U	C6-N1-C2	5.34	124.21	121.00
1	H1	326	A	C8-N9-C4	5.34	107.94	105.80
1	A1	1144	G	N3-C4-N9	5.34	129.21	126.00
5	DE	78	GLY	N-CA-C	-5.34	99.75	113.10
1	H1	1926	G	C4-N9-C1'	5.34	133.44	126.50
43	GV	170	LEU	CA-CB-CG	-5.34	103.02	115.30
1	D1	1130	A	C8-N9-C4	5.34	107.94	105.80
1	A1	668	G	C5-N7-C8	5.34	106.97	104.30
1	A1	1179	G	N1-C6-O6	5.34	123.10	119.90
1	D1	3047	U	C5-C4-O4	5.34	129.10	125.90
1	D1	3266	G	N7-C8-N9	-5.34	110.43	113.10
1	D1	2931	G	C4-C5-N7	5.33	112.93	110.80
1	A1	1882	A	C8-N9-C4	-5.33	103.67	105.80
1	F1	422	C	C5-C6-N1	-5.33	118.33	121.00
1	D1	2278	G	C5-C6-O6	-5.33	125.40	128.60
21	C3	93	G	C2-N3-C4	-5.33	109.24	111.90
1	F1	3077	G	N1-C6-O6	5.33	123.10	119.90
1	H1	52	C	C6-N1-C2	5.33	122.43	120.30
1	H1	2776	C	C5-C6-N1	-5.33	118.34	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	2793	G	C5-C6-N1	5.33	114.16	111.50
1	H1	1773	G	C8-N9-C4	-5.33	104.27	106.40
1	A1	2265	A	C5-N7-C8	-5.32	101.24	103.90
1	D1	2788	G	C5-C6-O6	5.32	131.79	128.60
1	F1	2596	G	N1-C6-O6	5.32	123.09	119.90
1	H1	841	A	N9-C4-C5	-5.32	103.67	105.80
1	A1	934	G	N9-C4-C5	5.32	107.53	105.40
1	F1	220	C	C5-C4-N4	-5.32	116.47	120.20
1	A1	1110	U	C6-N1-C2	-5.32	117.81	121.00
1	H1	219	A	C4-C5-N7	5.32	113.36	110.70
1	H1	1720	A	N9-C4-C5	-5.32	103.67	105.80
1	A1	358	C	N3-C4-C5	-5.32	119.77	121.90
1	A1	3266	G	N3-C4-N9	5.32	129.19	126.00
1	F1	2962	U	N1-C2-O2	-5.32	119.08	122.80
20	G2	86	G	C2-N3-C4	-5.32	109.24	111.90
1	F1	941	G	N3-C4-C5	5.32	131.26	128.60
1	A1	2923	U	C5-C4-O4	5.31	129.09	125.90
1	D1	1549	U	C2-N1-C1'	5.31	124.08	117.70
1	D1	2106	G	N3-C4-C5	-5.31	125.94	128.60
1	D1	1374	C	C5-C6-N1	5.31	123.66	121.00
1	H1	404	A	N1-C6-N6	5.31	121.79	118.60
1	H1	1227	A	N9-C4-C5	5.31	107.92	105.80
1	D1	344	G	C4-C5-C6	5.31	121.99	118.80
20	E2	54	G	N7-C8-N9	5.31	115.75	113.10
1	F1	1937	G	C8-N9-C4	-5.31	104.28	106.40
1	H1	1201	G	C8-N9-C4	-5.31	104.28	106.40
1	A1	3070	C	C6-N1-C2	5.31	122.42	120.30
1	H1	1613	A	N1-C6-N6	5.30	121.78	118.60
1	H1	37	A	N9-C4-C5	-5.30	103.68	105.80
1	H1	1179	G	C5-N7-C8	-5.30	101.65	104.30
1	D1	986	C	C4-C5-C6	5.30	120.05	117.40
1	F1	398	G	N3-C4-C5	5.30	131.25	128.60
1	F1	2273	C	C5-C6-N1	5.30	123.65	121.00
1	H1	70	C	N1-C2-O2	5.30	122.08	118.90
1	A1	1344	A	C5-C6-N1	-5.29	115.06	117.70
1	H1	273	G	C8-N9-C4	5.29	108.52	106.40
1	A1	3047	U	N3-C4-C5	-5.29	111.43	114.60
1	D1	1446	C	C6-N1-C2	-5.29	118.19	120.30
1	A1	217	U	N3-C4-O4	5.28	123.10	119.40
1	A1	2590	A	C8-N9-C4	5.28	107.91	105.80
1	D1	542	C	C6-N1-C2	-5.28	118.19	120.30
1	H1	2397	A	N3-C4-N9	5.28	131.62	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1374	C	C6-N1-C2	-5.28	118.19	120.30
1	D1	2397	A	C8-N9-C4	5.28	107.91	105.80
1	A1	408	C	N1-C2-O2	-5.28	115.73	118.90
1	A1	70	C	N1-C2-O2	5.28	122.06	118.90
1	A1	1580	G	C4-C5-N7	5.28	112.91	110.80
5	DE	118	GLY	N-CA-C	-5.28	99.91	113.10
1	H1	224	C	C6-N1-C2	-5.28	118.19	120.30
1	H1	3043	U	C5-C4-O4	5.28	129.06	125.90
1	H1	3332	A	C4-C5-N7	5.27	113.34	110.70
1	D1	622	G	C8-N9-C1'	-5.27	120.15	127.00
1	D1	2301	C	C2-N1-C1'	5.27	124.60	118.80
21	G3	92	C	C6-N1-C2	5.27	122.41	120.30
1	A1	2273	C	C5-C4-N4	-5.27	116.51	120.20
1	D1	968	U	C5-C6-N1	-5.27	120.07	122.70
38	EQ	114	LEU	CA-CB-CG	-5.27	103.18	115.30
1	A1	662	C	C4-C5-C6	5.27	120.03	117.40
26	EE	1	MET	CG-SD-CE	5.27	108.63	100.20
1	D1	1079	A	C6-C5-N7	-5.27	128.61	132.30
1	F1	1950	C	N3-C4-C5	5.27	124.01	121.90
1	A1	282	G	N7-C8-N9	5.26	115.73	113.10
20	B2	113	U	C5-C6-N1	-5.26	120.07	122.70
1	D1	1476	G	C6-C5-N7	-5.26	127.24	130.40
1	F1	3081	C	C5-C6-N1	-5.26	118.37	121.00
1	H1	2422	C	C6-N1-C2	5.26	122.41	120.30
1	H1	1357	A	C8-N9-C4	5.26	107.91	105.80
1	F1	81	C	N3-C4-C5	-5.26	119.80	121.90
1	F1	2255	U	C5-C6-N1	-5.26	120.07	122.70
1	H1	1217	A	C6-C5-N7	-5.26	128.62	132.30
5	AE	78	GLY	N-CA-C	-5.26	99.96	113.10
1	D1	1217	A	C6-C5-N7	-5.26	128.62	132.30
1	D1	1858	U	N3-C4-C5	-5.26	111.45	114.60
1	H1	418	G	N7-C8-N9	5.26	115.73	113.10
1	D1	1773	G	N9-C4-C5	5.25	107.50	105.40
1	H1	2125	C	C2-N1-C1'	5.25	124.58	118.80
1	A1	624	G	C8-N9-C1'	5.25	133.83	127.00
1	F1	37	A	C5-C6-N6	-5.25	119.50	123.70
1	H1	354	A	C2-N3-C4	-5.25	107.98	110.60
1	H1	2956	G	C5-C6-O6	-5.25	125.45	128.60
32	CK	59	GLY	N-CA-C	5.25	126.21	113.10
1	D1	339	C	C6-N1-C2	5.25	122.40	120.30
1	D1	2576	C	C5-C6-N1	5.25	123.62	121.00
1	H1	3325	G	C4-N9-C1'	5.25	133.32	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	978	G	C8-N9-C4	5.24	108.50	106.40
1	H1	2301	C	C2-N1-C1'	5.24	124.57	118.80
1	F1	837	G	C8-N9-C4	5.24	108.50	106.40
1	F1	986	C	C2-N3-C4	-5.24	117.28	119.90
1	D1	2715	C	N1-C2-O2	5.24	122.04	118.90
1	F1	2133	U	N3-C4-O4	-5.24	115.73	119.40
1	H1	2369	C	N3-C4-C5	5.24	124.00	121.90
1	H1	2399	A	C8-N9-C4	5.24	107.89	105.80
1	H1	231	U	N3-C4-O4	-5.24	115.73	119.40
1	F1	1585	A	C8-N9-C4	5.23	107.89	105.80
1	H1	220	C	N3-C4-N4	5.23	121.66	118.00
1	H1	2327	A	C8-N9-C4	5.23	107.89	105.80
1	H1	282	G	N1-C2-N2	5.23	120.91	116.20
1	H1	404	A	C8-N9-C4	5.23	107.89	105.80
1	H1	1481	U	C2-N1-C1'	5.23	123.98	117.70
1	F1	2633	C	C2-N1-C1'	-5.23	113.05	118.80
1	H1	1615	G	C5-C6-O6	-5.23	125.46	128.60
1	D1	832	A	C5-C6-N1	-5.23	115.09	117.70
1	A1	622	G	C8-N9-C1'	-5.23	120.21	127.00
1	D1	3009	U	C2-N1-C1'	5.23	123.97	117.70
1	H1	2765	C	C6-N1-C2	-5.23	118.21	120.30
1	A1	404	A	N9-C4-C5	-5.22	103.71	105.80
1	A1	623	G	C8-N9-C1'	5.22	133.79	127.00
1	F1	1927	U	C6-N1-C2	-5.22	117.87	121.00
1	A1	833	A	C2-N3-C4	-5.22	107.99	110.60
1	A1	997	G	C8-N9-C4	5.22	108.49	106.40
1	D1	623	G	C4-N9-C1'	-5.22	119.72	126.50
38	GQ	114	LEU	CA-CB-CG	-5.22	103.30	115.30
1	H1	634	G	C4-N9-C1'	5.22	133.28	126.50
1	A1	37	A	N7-C8-N9	5.22	116.41	113.80
34	BM	269	LYS	N-CA-C	5.22	125.09	111.00
1	D1	3037	A	N7-C8-N9	5.22	116.41	113.80
1	F1	2904	C	N1-C2-O2	5.22	122.03	118.90
20	G2	108	G	C8-N9-C4	5.22	108.49	106.40
1	A1	3008	U	C5-C6-N1	-5.22	120.09	122.70
1	D1	1862	C	N3-C2-O2	-5.22	118.25	121.90
1	H1	34	C	N3-C4-C5	5.21	123.98	121.90
1	H1	3266	G	C8-N9-C1'	-5.21	120.22	127.00
21	B3	83	G	C4-N9-C1'	-5.21	119.73	126.50
1	A1	1188	G	C8-N9-C4	-5.21	104.32	106.40
1	F1	1455	G	N3-C2-N2	5.21	123.55	119.90
1	A1	3024	A	N9-C4-C5	-5.21	103.72	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	3325	G	C4-N9-C1'	5.21	133.27	126.50
1	D1	37	A	C5-N7-C8	-5.21	101.30	103.90
1	D1	1344	A	N7-C8-N9	5.21	116.40	113.80
1	F1	624	G	C8-N9-C1'	5.21	133.77	127.00
1	H1	355	C	N3-C4-C5	5.21	123.98	121.90
1	H1	1533	G	C4-C5-N7	5.21	112.88	110.80
1	H1	2301	C	N3-C2-O2	-5.21	118.25	121.90
1	D1	3047	U	N3-C4-C5	-5.20	111.48	114.60
32	EK	59	GLY	N-CA-C	5.20	126.11	113.10
1	F1	1179	G	N1-C6-O6	5.20	123.02	119.90
1	D1	3266	G	C8-N9-C1'	-5.20	120.24	127.00
1	H1	767	C	C6-N1-C2	5.20	122.38	120.30
1	H1	1419	A	N9-C4-C5	-5.20	103.72	105.80
1	D1	2270	A	C8-N9-C4	-5.20	103.72	105.80
1	D1	2597	G	C6-C5-N7	-5.20	127.28	130.40
1	F1	2301	C	C2-N1-C1'	5.20	124.52	118.80
1	H1	1146	C	C5-C4-N4	-5.20	116.56	120.20
26	BE	4	LEU	CA-CB-CG	-5.20	103.34	115.30
1	H1	3157	C	C3'-C2'-C1'	5.20	105.66	101.50
11	AL	9	ARG	N-CA-C	5.20	125.03	111.00
1	D1	2688	G	C8-N9-C4	5.20	108.48	106.40
20	G2	59	G	N3-C4-C5	5.20	131.20	128.60
1	D1	837	G	C8-N9-C4	5.19	108.48	106.40
1	H1	2862	G	C8-N9-C4	-5.19	104.32	106.40
1	D1	3325	G	C4-N9-C1'	5.19	133.25	126.50
1	H1	339	C	N3-C4-C5	5.19	123.98	121.90
1	H1	2923	U	C5-C4-O4	5.19	129.01	125.90
1	F1	328	A	C3'-C2'-C1'	5.19	105.65	101.50
1	A1	515	A	C8-N9-C4	-5.18	103.73	105.80
1	A1	1927	U	C6-N1-C2	-5.18	117.89	121.00
1	D1	1821	U	C6-N1-C2	-5.18	117.89	121.00
1	F1	661	C	C2-N3-C4	-5.18	117.31	119.90
1	F1	2919	C	C6-N1-C2	5.18	122.37	120.30
1	H1	2619	C	N3-C2-O2	5.18	125.53	121.90
1	A1	354	A	C8-N9-C4	5.18	107.87	105.80
1	A1	3095	A	C8-N9-C4	5.18	107.87	105.80
1	D1	2869	C	C6-N1-C2	5.18	122.37	120.30
1	H1	396	A	C8-N9-C4	5.18	107.87	105.80
1	H1	2355	C	N3-C4-C5	5.18	123.97	121.90
1	A1	117	G	C4-C5-C6	-5.18	115.69	118.80
1	A1	1549	U	C2-N1-C1'	5.17	123.91	117.70
1	F1	2597	G	C5-C6-O6	-5.17	125.50	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	HE	118	GLY	N-CA-C	-5.17	100.16	113.10
1	D1	354	A	C2-N3-C4	-5.17	108.01	110.60
1	F1	150	A	N9-C4-C5	-5.17	103.73	105.80
1	A1	3273	U	C6-N1-C1'	5.17	128.44	121.20
1	D1	398	G	N3-C4-C5	5.17	131.19	128.60
1	F1	742	U	C2-N1-C1'	5.17	123.91	117.70
1	F1	1617	G	N9-C4-C5	5.17	107.47	105.40
1	H1	720	C	C6-N1-C2	5.17	122.37	120.30
1	H1	911	C	C6-N1-C2	5.17	122.37	120.30
1	A1	3251	C	C3'-C2'-C1'	5.17	105.64	101.50
1	D1	1079	A	C5-N7-C8	-5.17	101.32	103.90
1	D1	3331	C	N3-C4-C5	-5.17	119.83	121.90
21	G3	93	G	N3-C4-C5	5.17	131.18	128.60
1	H1	1130	A	N9-C4-C5	-5.17	103.73	105.80
1	D1	3157	C	C3'-C2'-C1'	5.17	105.63	101.50
1	F1	2915	C	C6-N1-C2	5.17	122.37	120.30
1	H1	2256	G	N7-C8-N9	5.16	115.68	113.10
1	H1	2919	C	N1-C2-N3	-5.16	115.58	119.20
1	F1	344	G	C4-C5-C6	5.16	121.90	118.80
1	F1	1506	G	C4-N9-C1'	-5.16	119.79	126.50
1	H1	934	G	C5-C6-O6	5.16	131.70	128.60
1	A1	3332	A	C6-C5-N7	-5.16	128.69	132.30
1	D1	634	G	C4-N9-C1'	5.16	133.21	126.50
1	F1	641	U	C5-C6-N1	5.16	125.28	122.70
1	D1	3273	U	C6-N1-C1'	5.16	128.42	121.20
1	F1	623	G	C8-N9-C1'	5.16	133.71	127.00
1	F1	2133	U	C5-C4-O4	5.16	128.99	125.90
1	A1	1950	C	N3-C4-C5	5.16	123.96	121.90
21	G3	83	G	C2-N3-C4	-5.16	109.32	111.90
1	F1	3009	U	N3-C2-O2	-5.15	118.59	122.20
1	H1	2871	U	C5-C6-N1	-5.15	120.12	122.70
1	A1	1476	G	C6-C5-N7	-5.15	127.31	130.40
1	A1	2146	G	N1-C6-O6	5.15	122.99	119.90
20	E2	2	G	C8-N9-C1'	-5.15	120.30	127.00
20	C2	54	G	C5-N7-C8	-5.15	101.73	104.30
43	CV	170	LEU	CA-CB-CG	-5.15	103.46	115.30
1	F1	2146	G	C5-C6-O6	-5.15	125.51	128.60
1	A1	634	G	C4-N9-C1'	5.15	133.19	126.50
1	A1	1374	C	N1-C2-O2	5.15	121.99	118.90
1	A1	2179	U	C5-C6-N1	-5.15	120.13	122.70
20	B2	67	C	C2-N1-C1'	5.15	124.46	118.80
21	B3	48	G	N3-C4-N9	5.15	129.09	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H1	114	A	C8-N9-C4	5.15	107.86	105.80
1	H1	1052	A	C8-N9-C4	-5.15	103.74	105.80
1	F1	1130	A	N9-C4-C5	-5.14	103.74	105.80
1	F1	1931	C	C6-N1-C2	-5.14	118.24	120.30
1	F1	2615	A	C2-N3-C4	-5.14	108.03	110.60
1	D1	1178	U	N3-C4-O4	5.14	123.00	119.40
1	A1	2396	A	N1-C6-N6	-5.14	115.52	118.60
21	B3	116	A	C8-N9-C4	5.14	107.86	105.80
1	D1	3008	U	C6-N1-C1'	-5.14	114.00	121.20
1	A1	2866	G	N1-C6-O6	5.14	122.98	119.90
1	F1	3008	U	C2-N3-C4	-5.14	123.92	127.00
1	F1	3157	C	C3'-C2'-C1'	5.14	105.61	101.50
5	FE	118	GLY	N-CA-C	-5.14	100.26	113.10
1	H1	1832	G	N7-C8-N9	-5.14	110.53	113.10
1	D1	418	G	C6-C5-N7	-5.14	127.32	130.40
1	F1	968	U	C6-N1-C2	5.14	124.08	121.00
21	G3	93	G	N3-C4-N9	-5.14	122.92	126.00
1	H1	623	G	C4-N9-C1'	-5.13	119.83	126.50
1	A1	814	U	C5-C6-N1	-5.13	120.13	122.70
1	F1	579	G	C8-N9-C4	5.13	108.45	106.40
1	F1	2606	U	C5-C6-N1	5.13	125.27	122.70
31	GJ	47	LYS	N-CA-C	-5.13	97.14	111.00
1	A1	3079	U	N1-C2-N3	5.13	117.98	114.90
1	D1	1870	C	C2-N3-C4	-5.13	117.33	119.90
1	A1	3070	C	C5-C6-N1	-5.13	118.44	121.00
1	F1	882	G	C5-C6-O6	5.13	131.68	128.60
1	H1	2544	U	N3-C4-C5	5.13	117.68	114.60
1	A1	2818	G	C5-C6-N1	-5.13	108.94	111.50
1	F1	1925	A	C5-N7-C8	-5.13	101.34	103.90
20	G2	83	A	N9-C4-C5	-5.13	103.75	105.80
19	HX	18	VAL	CB-CA-C	-5.13	101.66	111.40
1	D1	3037	A	C5-C6-N1	-5.12	115.14	117.70
1	H1	791	C	C6-N1-C2	-5.12	118.25	120.30
1	D1	1079	A	C4-C5-N7	5.12	113.26	110.70
34	EM	269	LYS	N-CA-C	5.12	124.84	111.00
1	A1	1217	A	C4-C5-N7	5.12	113.26	110.70
1	F1	634	G	C4-N9-C1'	5.12	133.16	126.50
1	H1	1173	A	N7-C8-N9	-5.12	111.24	113.80
1	D1	1892	G	N3-C4-N9	5.12	129.07	126.00
1	D1	1613	A	N9-C4-C5	-5.12	103.75	105.80
1	A1	2398	G	C4-C5-C6	5.12	121.87	118.80
1	A1	3008	U	N3-C4-O4	-5.12	115.82	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F1	675	G	C8-N9-C4	-5.12	104.35	106.40
1	A1	328	A	C3'-C2'-C1'	5.12	105.59	101.50
1	D1	664	U	C6-N1-C2	-5.12	117.93	121.00
1	D1	1753	A	C8-N9-C4	5.12	107.85	105.80
1	D1	3275	A	C8-N9-C4	5.12	107.85	105.80
1	F1	1926	G	C8-N9-C1'	-5.12	120.35	127.00
5	FE	78	GLY	N-CA-C	-5.12	100.31	113.10
4	AC	89	ILE	CB-CA-C	-5.11	101.37	111.60
1	D1	133	C	C2-N1-C1'	5.11	124.43	118.80
1	D1	2399	A	N9-C4-C5	-5.11	103.75	105.80
1	D1	2788	G	N1-C6-O6	-5.11	116.83	119.90
1	D1	3332	A	N7-C8-N9	5.11	116.36	113.80
1	H1	1581	C	C6-N1-C1'	5.11	126.94	120.80
1	D1	2398	G	N3-C4-N9	5.11	129.07	126.00
1	F1	3251	C	C3'-C2'-C1'	5.11	105.59	101.50
20	B2	2	G	C8-N9-C1'	-5.11	120.36	127.00
1	F1	3266	G	C6-C5-N7	-5.11	127.33	130.40
1	D1	1944	U	C5-C4-O4	5.11	128.96	125.90
1	D1	3251	C	C3'-C2'-C1'	5.11	105.59	101.50
1	F1	418	G	C4-C5-N7	5.11	112.84	110.80
1	A1	2953	U	C5-C6-N1	-5.11	120.15	122.70
1	F1	2930	C	C5-C6-N1	5.11	123.55	121.00
1	H1	2633	C	C5-C6-N1	-5.11	118.45	121.00
1	H1	2818	G	C5-C6-N1	-5.11	108.95	111.50
1	H1	207	U	C5-C6-N1	5.10	125.25	122.70
43	EV	170	LEU	CA-CB-CG	-5.10	103.56	115.30
1	F1	622	G	C8-N9-C1'	-5.10	120.37	127.00
1	F1	2903	U	C6-N1-C2	5.10	124.06	121.00
1	H1	1575	U	C5-C6-N1	-5.10	120.15	122.70
1	D1	624	G	C4-N9-C1'	-5.10	119.87	126.50
1	D1	1142	G	N7-C8-N9	5.10	115.65	113.10
1	H1	119	A	N9-C4-C5	-5.10	103.76	105.80
1	H1	1845	U	C2-N1-C1'	5.10	123.82	117.70
1	D1	2961	G	C8-N9-C4	5.10	108.44	106.40
20	G2	103	U	C5-C6-N1	-5.09	120.15	122.70
1	A1	526	U	C3'-C2'-C1'	5.09	105.57	101.50
1	A1	530	C	C6-N1-C2	-5.09	118.26	120.30
1	F1	452	U	C2-N1-C1'	5.09	123.81	117.70
1	H1	1368	U	C6-N1-C2	5.09	124.06	121.00
1	H1	1446	C	C6-N1-C2	-5.09	118.26	120.30
1	A1	2862	G	C8-N9-C4	-5.09	104.36	106.40
1	A1	3266	G	N7-C8-N9	-5.09	110.56	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	CE	4	LEU	CA-CB-CG	-5.09	103.59	115.30
1	F1	1832	G	C8-N9-C4	5.09	108.44	106.40
1	H1	1773	G	C5-C6-N1	-5.09	108.95	111.50
21	B3	14	C	C6-N1-C2	5.09	122.34	120.30
1	D1	2133	U	C2-N3-C4	-5.09	123.95	127.00
1	D1	2398	G	C4-C5-C6	5.09	121.85	118.80
1	F1	1179	G	C2-N3-C4	-5.09	109.36	111.90
1	H1	1674	C	C6-N1-C2	5.08	122.33	120.30
1	H1	1926	G	C5-C6-N1	-5.08	108.96	111.50
1	D1	2508	U	C3'-C2'-C1'	5.08	105.57	101.50
1	F1	673	A	C8-N9-C4	-5.08	103.77	105.80
1	F1	1041	C	N1-C2-O2	5.08	121.95	118.90
1	F1	1720	A	N9-C4-C5	-5.08	103.77	105.80
1	H1	99	C	C6-N1-C2	5.08	122.33	120.30
1	H1	1154	G	N3-C4-C5	5.08	131.14	128.60
1	H1	1893	C	C6-N1-C2	5.08	122.33	120.30
38	CQ	114	LEU	CA-CB-CG	-5.08	103.61	115.30
1	D1	1018	A	C6-N1-C2	-5.08	115.55	118.60
1	F1	526	U	C3'-C2'-C1'	5.08	105.56	101.50
1	F1	1933	A	C8-N9-C4	5.08	107.83	105.80
1	H1	1387	U	C6-N1-C2	5.08	124.05	121.00
1	H1	2415	C	C6-N1-C2	5.08	122.33	120.30
1	F1	2392	A	C2-N3-C4	-5.08	108.06	110.60
1	H1	29	C	N3-C4-C5	5.08	123.93	121.90
1	D1	526	U	C3'-C2'-C1'	5.08	105.56	101.50
1	F1	1495	C	N3-C2-O2	-5.08	118.34	121.90
1	H1	2876	U	C6-N1-C2	5.08	124.05	121.00
1	D1	328	A	C3'-C2'-C1'	5.08	105.56	101.50
1	A1	606	U	C5-C6-N1	5.07	125.24	122.70
1	A1	740	A	C3'-C2'-C1'	5.07	105.56	101.50
1	D1	1050	C	C6-N1-C2	-5.07	118.27	120.30
1	D1	623	G	C8-N9-C1'	5.07	133.59	127.00
1	F1	2785	U	C5-C6-N1	-5.07	120.16	122.70
1	A1	1164	C	C4-C5-C6	5.07	119.94	117.40
1	A1	1505	C	C6-N1-C2	-5.07	118.27	120.30
1	F1	2241	G	N7-C8-N9	5.07	115.64	113.10
1	F1	2933	G	N3-C4-C5	-5.07	126.06	128.60
1	A1	2301	C	C2-N1-C1'	5.07	124.38	118.80
5	AE	118	GLY	N-CA-C	-5.07	100.43	113.10
1	H1	2967	U	N1-C2-N3	5.07	117.94	114.90
1	F1	886	C	C6-N1-C2	5.07	122.33	120.30
1	H1	3080	A	C4-C5-C6	5.07	119.53	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	219	A	C5-N7-C8	-5.06	101.37	103.90
34	CM	269	LYS	N-CA-C	5.06	124.67	111.00
31	GJ	89	TRP	CE2-CD2-CG	-5.06	103.25	107.30
1	H1	932	G	N9-C4-C5	-5.06	103.38	105.40
1	H1	2596	G	C5-N7-C8	-5.06	101.77	104.30
1	D1	638	U	C6-N1-C2	-5.06	117.96	121.00
1	A1	2933	G	N9-C4-C5	5.06	107.42	105.40
1	D1	2855	C	N3-C2-O2	5.06	125.44	121.90
1	F1	1753	A	C8-N9-C4	5.06	107.82	105.80
1	H1	1227	A	C8-N9-C4	-5.06	103.78	105.80
1	F1	2961	G	N9-C4-C5	-5.05	103.38	105.40
1	H1	1077	U	C5-C4-O4	5.05	128.93	125.90
1	H1	347	A	C8-N9-C4	5.05	107.82	105.80
1	H1	1631	U	C5-C6-N1	-5.05	120.17	122.70
1	D1	1481	U	C4-C5-C6	-5.05	116.67	119.70
1	F1	219	A	C2-N3-C4	-5.05	108.08	110.60
1	F1	284	U	C2-N3-C4	5.05	130.03	127.00
1	F1	3078	C	N1-C2-O2	-5.05	115.87	118.90
31	CJ	89	TRP	CE2-CD2-CG	-5.05	103.26	107.30
1	D1	1497	U	C5-C6-N1	-5.05	120.18	122.70
35	GN	22	SER	N-CA-C	-5.05	97.37	111.00
1	H1	526	U	C3'-C2'-C1'	5.05	105.54	101.50
1	A1	688	U	C5-C6-N1	-5.04	120.18	122.70
1	H1	844	U	C6-N1-C2	5.04	124.03	121.00
19	HX	22	VAL	CB-CA-C	-5.04	101.82	111.40
26	GE	4	LEU	CA-CB-CG	-5.04	103.71	115.30
1	H1	87	A	N9-C4-C5	-5.04	103.78	105.80
1	H1	2368	A	C8-N9-C4	5.04	107.82	105.80
1	A1	1142	G	N1-C2-N2	-5.04	111.66	116.20
1	D1	2372	G	C8-N9-C4	-5.04	104.38	106.40
1	F1	1617	G	C4-C5-C6	5.04	121.82	118.80
1	H1	704	G	N7-C8-N9	-5.04	110.58	113.10
1	A1	2394	A	N1-C2-N3	5.04	131.82	129.30
20	C2	134	C	C5-C6-N1	5.04	123.52	121.00
1	D1	219	A	C2-N3-C4	-5.04	108.08	110.60
1	H1	3042	G	C5-C6-N1	-5.04	108.98	111.50
1	D1	1455	G	N9-C4-C5	-5.04	103.39	105.40
1	A1	2180	G	C4-C5-N7	-5.04	108.79	110.80
1	F1	1845	U	C2-N1-C1'	5.04	123.74	117.70
1	H1	1028	A	N9-C4-C5	-5.04	103.79	105.80
1	H1	3140	C	C6-N1-C2	5.04	122.31	120.30
1	A1	2615	A	N1-C6-N6	5.03	121.62	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D1	2933	G	N3-C4-C5	-5.03	126.08	128.60
1	D1	624	G	C8-N9-C1'	5.03	133.54	127.00
1	F1	2788	G	C4-C5-N7	-5.03	108.79	110.80
34	GM	269	LYS	N-CA-C	5.03	124.58	111.00
1	D1	422	C	C5-C6-N1	-5.03	118.49	121.00
21	G3	82	G	C8-N9-C4	5.03	108.41	106.40
1	H1	2239	A	C2-N3-C4	-5.03	108.09	110.60
1	H1	2309	U	C2-N1-C1'	-5.03	111.67	117.70
1	D1	3080	A	C4-N9-C1'	5.03	135.35	126.30
1	F1	1369	C	C6-N1-C2	5.03	122.31	120.30
1	H1	81	C	C5-C6-N1	-5.02	118.49	121.00
1	A1	968	U	C6-N1-C2	5.02	124.01	121.00
20	C2	25	U	C2-N1-C1'	5.02	123.73	117.70
1	D1	882	G	C5-N7-C8	5.02	106.81	104.30
1	F1	623	G	C4-N9-C1'	-5.02	119.97	126.50
1	H1	37	A	C4-C5-N7	5.02	113.21	110.70
1	H1	991	U	N3-C4-C5	5.02	117.61	114.60
1	A1	2869	C	C6-N1-C2	5.02	122.31	120.30
1	D1	2243	C	N1-C2-O2	-5.02	115.89	118.90
1	D1	878	G	N9-C4-C5	5.02	107.41	105.40
1	F1	2239	A	OP1-P-O3'	-5.02	94.16	105.20
1	H1	3077	G	C5-C6-N1	-5.02	108.99	111.50
1	A1	944	U	C5-C6-N1	-5.01	120.19	122.70
1	H1	22	U	C5-C6-N1	-5.01	120.19	122.70
1	H1	1926	G	C4-C5-C6	5.01	121.81	118.80
1	A1	2141	A	N7-C8-N9	5.01	116.31	113.80
1	A1	2918	G	C8-N9-C4	5.01	108.41	106.40
1	D1	41	A	N1-C6-N6	-5.01	115.59	118.60
1	H1	82	C	C5-C6-N1	-5.01	118.50	121.00
20	E2	94	U	C5-C6-N1	-5.01	120.19	122.70
1	H1	2171	U	N3-C4-C5	5.01	117.61	114.60
1	H1	2749	C	N1-C2-O2	5.01	121.91	118.90
1	F1	273	G	C8-N9-C4	5.01	108.40	106.40
20	G2	2	G	C4-N9-C1'	5.01	133.01	126.50
1	H1	306	A	C8-N9-C4	5.01	107.80	105.80
4	HC	89	ILE	CB-CA-C	-5.01	101.59	111.60
1	A1	622	G	C3'-C2'-C1'	5.00	105.50	101.50
1	D1	1773	G	C5-C6-N1	-5.00	109.00	111.50
1	H1	2904	C	N1-C2-O2	5.00	121.90	118.90
1	F1	2383	U	N3-C2-O2	5.00	125.70	122.20
1	A1	1072	A	C8-N9-C4	-5.00	103.80	105.80
1	F1	624	G	C4-N9-C1'	-5.00	120.00	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H1	1821	U	N3-C2-O2	-5.00	118.70	122.20
1	H1	2142	C	N3-C4-C5	5.00	123.90	121.90
1	H1	3251	C	C3'-C2'-C1'	5.00	105.50	101.50

There are no chirality outliers.

All (30) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	AA	51	GLY	Peptide
8	AH	101	GLY	Peptide
12	AM	53	GLY	Peptide
16	AQ	12	GLY	Peptide
27	BF	174	LYS	Peptide
32	BK	23	GLY	Peptide
32	BK	58	LEU	Peptide
27	CF	174	LYS	Peptide
32	CK	23	GLY	Peptide
32	CK	58	LEU	Peptide
38	CQ	118	HIS	Peptide
42	CU	78	SER	Peptide
2	DA	51	GLY	Peptide
12	DM	53	GLY	Peptide
16	DQ	12	GLY	Peptide
27	EF	174	LYS	Peptide
32	EK	23	GLY	Peptide
32	EK	58	LEU	Peptide
2	FA	51	GLY	Peptide
12	FM	53	GLY	Peptide
16	FQ	12	GLY	Peptide
18	FU	44	VAL	Peptide
27	GF	174	LYS	Peptide
32	GK	23	GLY	Peptide
32	GK	58	LEU	Peptide
38	GQ	118	HIS	Peptide
45	GX	8	HIS	Peptide
2	HA	51	GLY	Peptide
12	HM	53	GLY	Peptide
16	HQ	12	GLY	Peptide

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	A1	66769	0	33570	4647	2
1	D1	66769	0	33568	4657	1
1	F1	66769	0	33568	4661	3
1	H1	66769	0	33570	4686	4
2	AA	721	0	744	102	0
2	DA	721	0	744	103	0
2	FA	721	0	744	110	0
2	HA	721	0	744	114	0
3	AB	456	0	483	51	0
3	DB	456	0	483	52	0
3	FB	456	0	483	53	0
3	HB	456	0	483	51	0
4	AC	836	0	912	64	0
4	DC	836	0	911	62	0
4	FC	836	0	911	65	0
4	HC	836	0	911	67	0
5	AE	1525	0	1600	230	0
5	DE	1525	0	1600	225	0
5	FE	1525	0	1600	221	0
5	HE	1525	0	1600	231	0
6	AF	1021	0	1119	147	0
6	DF	1021	0	1119	152	0
6	FF	1021	0	1119	152	0
6	HF	1021	0	1119	152	0
7	AG	727	0	747	103	0
7	DG	727	0	747	92	0
7	FG	727	0	747	88	0
7	HG	727	0	747	88	0
8	AH	850	0	870	134	0
8	DH	850	0	870	139	0
8	FH	850	0	870	139	0
8	HH	850	0	870	129	0
9	AJ	1716	0	1712	162	0
9	DJ	1716	0	1712	181	0
9	FJ	1716	0	1712	178	0
9	HJ	1716	0	1712	176	0
10	AK	415	0	446	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	DK	415	0	446	38	0
10	FK	415	0	446	36	0
10	HK	415	0	446	35	0
11	AL	852	0	906	90	0
11	DL	852	0	906	94	0
11	FL	852	0	906	88	0
11	HL	852	0	906	90	0
12	AM	819	0	855	75	0
12	DM	819	0	855	73	0
12	FM	819	0	855	77	0
12	HM	819	0	855	74	0
13	AN	1170	0	1259	156	0
13	DN	1170	0	1259	134	0
13	FN	1170	0	1259	155	0
13	HN	1170	0	1259	134	0
14	AO	1034	0	1101	143	0
14	DO	1034	0	1101	127	0
14	FO	1034	0	1101	130	0
14	HO	1034	0	1101	119	0
15	AP	551	0	614	53	0
15	DP	551	0	614	57	2
15	FP	551	0	614	49	0
15	HP	551	0	614	58	0
16	AQ	803	0	907	87	2
16	DQ	803	0	907	98	0
16	FQ	803	0	907	100	0
16	HQ	803	0	907	82	0
17	AT	533	0	578	65	0
17	DT	533	0	578	55	0
17	FT	533	0	578	56	0
17	HT	533	0	578	62	0
18	AU	1624	0	1733	210	0
18	DU	1624	0	1733	215	0
18	FU	1624	0	1733	209	0
18	HU	1624	0	1733	236	0
19	AX	1536	0	1613	221	0
19	DX	1536	0	1613	220	0
19	FX	1536	0	1613	222	0
19	HX	1536	0	1613	211	0
20	B2	3300	0	1657	219	1
20	C2	3300	0	1657	225	0
20	E2	3300	0	1657	227	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
20	G2	3300	0	1657	234	0
21	B3	2566	0	1294	179	0
21	C3	2566	0	1294	195	0
21	E3	2566	0	1294	191	0
21	G3	2566	0	1294	187	0
22	BA	1977	0	2000	233	0
22	CA	1977	0	2000	221	0
22	EA	1977	0	2000	240	0
22	GA	1977	0	2000	247	0
23	BB	3080	0	3187	338	0
23	CB	3080	0	3187	332	0
23	EB	3080	0	3187	364	0
23	GB	3080	0	3187	361	0
24	BC	3172	0	3274	422	0
24	CC	3172	0	3274	428	0
24	EC	3172	0	3274	438	0
24	GC	3172	0	3274	443	0
25	BD	1357	0	1400	124	0
25	CD	1357	0	1400	123	0
25	ED	1357	0	1400	125	0
25	GD	1357	0	1400	127	0
26	BE	1481	0	1574	124	0
26	CE	1481	0	1574	119	0
26	EE	1481	0	1574	124	0
26	GE	1481	0	1574	123	0
27	BF	1860	0	1968	208	0
27	CF	1860	0	1968	217	0
27	EF	1860	0	1968	197	1
27	GF	1860	0	1968	208	0
28	BG	711	0	644	56	0
28	CG	711	0	644	44	0
28	EG	711	0	644	46	0
28	GG	711	0	644	86	0
29	BH	1620	0	1701	159	0
29	CH	1620	0	1701	155	0
29	EH	1620	0	1701	165	0
29	GH	1620	0	1701	160	0
30	BI	1594	0	1701	172	0
30	CI	1594	0	1701	179	0
30	EI	1594	0	1701	170	0
30	GI	1594	0	1701	179	0
31	BJ	1022	0	1078	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	CJ	1022	0	1079	64	0
31	EJ	1022	0	1079	70	0
31	GJ	1022	0	1078	71	0
32	BK	1161	0	1227	189	0
32	CK	1161	0	1227	180	0
32	EK	1161	0	1227	183	0
32	GK	1161	0	1227	195	0
33	BL	1691	0	1762	183	0
33	CL	1691	0	1762	187	0
33	EL	1691	0	1762	195	0
33	GL	1691	0	1762	203	0
34	BM	2409	0	2497	327	0
34	CM	2424	0	2509	312	1
34	EM	2424	0	2509	311	4
34	GM	2424	0	2509	286	2
35	BN	1441	0	1534	218	0
35	CN	1441	0	1534	232	0
35	EN	1441	0	1534	223	0
35	GN	1441	0	1534	234	0
36	BO	1491	0	1618	106	0
36	EO	1192	0	1296	87	0
36	GO	1234	0	1323	87	0
37	BP	1272	0	1310	136	0
37	CP	1272	0	1310	129	0
37	EP	1272	0	1310	137	0
37	GP	1272	0	1310	126	0
38	BQ	1239	0	1276	126	0
38	CQ	1239	0	1276	132	0
38	EQ	1239	0	1276	125	0
38	GQ	1239	0	1276	133	0
39	BR	965	0	1020	96	0
39	CR	965	0	1020	82	0
39	ER	965	0	1020	90	0
39	GR	965	0	1020	97	0
40	BS	1013	0	1101	90	0
40	CS	1013	0	1101	96	1
40	ES	1013	0	1101	94	0
40	GS	1013	0	1101	92	0
41	BT	510	0	546	51	0
41	CT	510	0	546	51	0
41	ET	510	0	546	59	0
41	GT	510	0	546	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	BU	990	0	1123	98	0
42	CU	990	0	1123	106	0
42	EU	990	0	1123	109	0
42	GU	990	0	1123	117	0
43	BV	1910	0	1983	203	0
43	CV	1910	0	1983	202	0
43	EV	1910	0	1983	212	0
43	GV	1910	0	1983	199	0
44	BW	901	0	937	65	0
44	CW	901	0	937	68	0
44	EW	901	0	937	70	0
44	GW	901	0	937	69	0
45	BX	1012	0	1079	110	0
45	CX	1012	0	1079	108	0
45	EX	1012	0	1079	114	0
45	GX	1012	0	1079	120	0
46	BY	786	0	851	83	0
46	CY	786	0	849	90	0
46	EY	786	0	851	105	0
46	GY	786	0	851	94	0
47	CO	1366	0	1470	140	0
48	A1	200	0	0	0	0
48	AA	2	0	0	0	0
48	AK	1	0	0	0	0
48	B2	8	0	0	0	0
48	B3	3	0	0	0	0
48	BJ	1	0	0	0	0
48	BL	1	0	0	0	0
48	BN	1	0	0	0	0
48	BP	1	0	0	0	0
48	BQ	2	0	0	0	0
48	BW	1	0	0	0	0
48	C2	6	0	0	0	0
48	C3	7	0	0	0	0
48	CD	1	0	0	0	0
48	CJ	1	0	0	0	0
48	CL	2	0	0	0	0
48	CN	1	0	0	0	0
48	CQ	2	0	0	0	0
48	CW	1	0	0	0	0
48	CY	1	0	0	0	0
48	D1	232	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	DA	2	0	0	0	0
48	DJ	1	0	0	0	0
48	DK	1	0	0	0	0
48	DQ	1	0	0	0	0
48	E2	7	0	0	0	0
48	E3	6	0	0	0	0
48	EJ	1	0	0	0	0
48	EL	2	0	0	0	0
48	EN	2	0	0	0	0
48	EQ	1	0	0	0	0
48	EW	2	0	0	0	0
48	F1	184	0	0	0	0
48	FA	2	0	0	0	0
48	FK	1	0	0	0	0
48	FT	1	0	0	0	0
48	G2	6	0	0	0	0
48	G3	5	0	0	0	0
48	GA	1	0	0	0	0
48	GJ	1	0	0	0	0
48	GL	1	0	0	0	0
48	GN	1	0	0	0	0
48	GO	1	0	0	0	0
48	GP	2	0	0	0	0
48	GQ	1	0	0	0	0
48	GW	1	0	0	0	0
48	H1	155	0	0	0	0
48	HT	1	0	0	0	0
49	AA	1	0	0	0	0
49	AC	1	0	0	0	0
49	AK	1	0	0	0	0
49	AL	1	0	0	0	0
49	BY	1	0	0	0	0
49	CY	1	0	0	0	0
49	DA	1	0	0	0	0
49	DC	1	0	0	0	0
49	DK	1	0	0	0	0
49	DL	1	0	0	0	0
49	EY	1	0	0	0	0
49	FA	1	0	0	0	0
49	FC	1	0	0	0	0
49	FK	1	0	0	0	0
49	FL	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	GY	1	0	0	0	0
49	HA	1	0	0	0	0
49	HC	1	0	0	0	0
49	HK	1	0	0	0	0
49	HL	1	0	0	0	0
50	A1	1134	0	0	292	0
50	AA	8	0	0	2	0
50	AB	5	0	0	2	0
50	AH	1	0	0	0	0
50	AK	3	0	0	1	0
50	AM	1	0	0	0	0
50	AP	2	0	0	0	0
50	AT	3	0	0	3	0
50	AU	4	0	0	3	0
50	B2	54	0	0	5	0
50	B3	23	0	0	6	0
50	BA	12	0	0	3	0
50	BB	4	0	0	1	0
50	BC	7	0	0	0	0
50	BE	1	0	0	0	0
50	BI	3	0	0	1	0
50	BJ	5	0	0	1	0
50	BK	3	0	0	1	0
50	BL	8	0	0	0	0
50	BM	2	0	0	1	0
50	BN	5	0	0	0	0
50	BO	2	0	0	2	0
50	BP	5	0	0	2	0
50	BQ	7	0	0	3	0
50	BU	1	0	0	0	0
50	BV	7	0	0	1	0
50	BW	5	0	0	0	0
50	BX	6	0	0	1	0
50	BY	5	0	0	0	0
50	C2	46	0	0	3	0
50	C3	39	0	0	10	0
50	CA	11	0	0	3	0
50	CB	4	0	0	0	0
50	CC	7	0	0	0	0
50	CD	4	0	0	0	0
50	CE	2	0	0	1	0
50	CI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	CJ	4	0	0	3	0
50	CK	3	0	0	1	0
50	CL	12	0	0	2	0
50	CM	6	0	0	1	0
50	CN	7	0	0	5	0
50	CO	2	0	0	1	0
50	CP	6	0	0	1	0
50	CQ	7	0	0	5	0
50	CU	1	0	0	0	0
50	CV	4	0	0	1	0
50	CW	5	0	0	0	0
50	CX	6	0	0	0	0
50	CY	5	0	0	0	0
50	D1	1341	0	0	313	0
50	DA	10	0	0	1	0
50	DB	4	0	0	2	0
50	DE	1	0	0	0	0
50	DJ	2	0	0	1	0
50	DK	2	0	0	0	0
50	DP	1	0	0	0	0
50	DQ	2	0	0	2	0
50	DT	4	0	0	3	0
50	DU	3	0	0	0	0
50	DX	2	0	0	0	0
50	E2	44	0	0	8	0
50	E3	34	0	0	4	0
50	EA	4	0	0	4	0
50	EB	3	0	0	0	0
50	EC	2	0	0	0	0
50	EE	2	0	0	0	0
50	EJ	4	0	0	1	0
50	EK	5	0	0	1	0
50	EL	10	0	0	1	0
50	EM	2	0	0	0	0
50	EN	7	0	0	6	0
50	EP	6	0	0	1	0
50	EQ	4	0	0	4	0
50	EV	6	0	0	1	0
50	EW	7	0	0	0	0
50	EX	5	0	0	2	0
50	EY	5	0	0	0	0
50	F1	1076	0	0	268	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	FA	7	0	0	2	0
50	FB	4	0	0	1	0
50	FE	1	0	0	0	0
50	FH	1	0	0	0	0
50	FK	2	0	0	0	0
50	FL	3	0	0	1	0
50	FP	2	0	0	0	0
50	FT	4	0	0	4	0
50	FU	4	0	0	0	0
50	G2	34	0	0	2	0
50	G3	26	0	0	9	0
50	GA	6	0	0	6	0
50	GB	3	0	0	0	0
50	GC	2	0	0	0	0
50	GE	2	0	0	0	0
50	GI	1	0	0	0	0
50	GJ	4	0	0	2	0
50	GK	2	0	0	2	0
50	GL	5	0	0	1	0
50	GM	1	0	0	1	0
50	GN	2	0	0	1	0
50	GO	2	0	0	1	0
50	GP	5	0	0	0	0
50	GQ	4	0	0	2	0
50	GV	3	0	0	0	0
50	GW	4	0	0	0	0
50	GX	5	0	0	1	0
50	GY	1	0	0	0	0
50	H1	924	0	0	217	0
50	HA	4	0	0	1	0
50	HB	4	0	0	2	0
50	HJ	2	0	0	0	0
50	HK	2	0	0	0	0
50	HP	1	0	0	0	0
50	HT	5	0	0	5	0
50	HU	2	0	0	0	0
All	All	511395	0	371708	37509	12

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 43.

All (37509) 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)
28:GG:8:UNK:CG	1:H1:1248:G:N2	1.82	1.41
28:GG:8:UNK:HG3	1:H1:1248:G:N2	1.34	1.40
1:F1:452:U:H5'	14:FO:56:GLN:NE2	1.41	1.35
13:AN:130:LYS:HG2	1:H1:2664:C:OP1	1.22	1.33
46:CY:28:LYS:NZ	1:F1:2252:C:OP1	1.60	1.33
32:GK:142:GLY:HA2	18:HU:173:ARG:NH2	1.44	1.31
1:A1:987:A:H2'	50:A1:3776:HOH:O	1.30	1.31
24:EC:376:TRP:CD1	1:F1:564:A:H1'	1.67	1.29
1:D1:452:U:H5'	14:DO:56:GLN:NE2	1.48	1.29
1:D1:2859:G:N7	50:D1:4455:HOH:O	1.59	1.29
28:GG:31:UNK:C	1:H1:1257:G:H4'	1.62	1.29
16:AQ:48:VAL:O	27:BF:69:GLN:NE2	1.62	1.28
28:GG:8:UNK:CG	1:H1:1248:G:H22	1.42	1.27
22:EA:219:HIS:HA	50:EA:302:HOH:O	1.33	1.26
1:A1:1308:U:H5''	28:BG:58:UNK:CB	1.65	1.26
35:EN:158:GLN:NE2	50:EN:306:HOH:O	1.57	1.26
1:H1:1380:C:O2'	1:H1:1381:G:OP1	1.54	1.25
1:A1:3109:C:H3'	10:AK:111:ARG:NH1	1.51	1.24
1:D1:1561:A:OP2	50:D1:4137:HOH:O	1.53	1.24
7:AG:11:GLN:NE2	1:H1:2249:U:O3'	1.71	1.23
1:D1:3044:A:O2'	1:D1:3046:A:OP2	1.54	1.23
1:A1:451:A:O2'	14:AO:56:GLN:NE2	1.72	1.22
1:H1:273:G:OP2	50:H1:3676:HOH:O	1.57	1.22
1:H1:1183:C:OP1	50:H1:3757:HOH:O	1.52	1.22
38:GQ:133:ARG:HD3	50:GQ:303:HOH:O	1.31	1.22
1:H1:3044:A:O2'	1:H1:3046:A:OP2	1.57	1.22
1:D1:3109:C:H3'	10:DK:111:ARG:NH1	1.55	1.22
1:A1:842:A:OP2	50:A1:4006:HOH:O	1.56	1.22
1:H1:1207:A:O2'	1:H1:1208:U:OP1	1.58	1.22
1:F1:2930:C:OP1	50:F1:4026:HOH:O	1.53	1.21
1:H1:2717:G:OP1	50:H1:4321:HOH:O	1.52	1.21
1:A1:452:U:H5'	14:AO:56:GLN:NE2	1.53	1.21
1:D1:2310:G:OP1	50:D1:4277:HOH:O	1.55	1.21
1:F1:1207:A:O2'	1:F1:1208:U:OP1	1.56	1.21
1:A1:1064:C:OP1	34:BM:5:LYS:NZ	1.71	1.21
33:CL:2:GLY:N	16:DQ:37:ARG:HH21	1.38	1.21
1:F1:2252:C:C5	1:F1:2253:U:C5	2.28	1.21
1:H1:451:A:O2'	14:HO:56:GLN:NE2	1.74	1.21
28:GG:8:UNK:CA	1:H1:1248:G:H21	1.53	1.21
1:D1:2944:A:OP2	50:D1:4281:HOH:O	1.59	1.21
1:D1:986:C:OP2	50:D1:3772:HOH:O	1.58	1.21
27:CF:69:GLN:NE2	16:DQ:48:VAL:O	1.73	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:47:G:OP2	50:A1:3729:HOH:O	1.58	1.20
1:D1:1513:A:OP2	50:D1:4485:HOH:O	1.54	1.20
1:H1:452:U:H5'	14:HO:56:GLN:NE2	1.56	1.20
1:A1:1209:G:OP2	50:A1:4287:HOH:O	1.56	1.20
1:A1:3044:A:O2'	1:A1:3046:A:OP2	1.60	1.20
38:BQ:132:TYR:O	50:BQ:305:HOH:O	1.59	1.20
1:F1:40:C:H2'	1:F1:41:A:H5''	1.22	1.19
23:BB:114:THR:HB	23:BB:161:HIS:NE2	1.55	1.19
23:CB:114:THR:HB	23:CB:161:HIS:NE2	1.55	1.19
1:F1:2900:G:OP1	50:F1:4274:HOH:O	1.57	1.19
33:EL:2:GLY:N	16:FQ:37:ARG:HH21	1.38	1.19
27:GF:176:LYS:HB2	27:GF:187:THR:HG23	1.25	1.19
21:B3:83:G:OP1	50:B3:305:HOH:O	1.59	1.19
37:GP:116:LYS:NZ	1:H1:1123:A:OP2	1.75	1.19
1:D1:451:A:O2'	14:DO:56:GLN:NE2	1.75	1.18
1:H1:40:C:H2'	1:H1:41:A:H5''	1.21	1.18
1:D1:1207:A:O2'	1:D1:1208:U:OP1	1.56	1.18
18:AU:173:ARG:NH2	32:BK:142:GLY:HA2	1.57	1.18
24:CC:152:VAL:HG13	24:CC:157:TYR:CE2	1.79	1.18
1:D1:1662:A:H5'	11:DL:76:ARG:NH2	1.57	1.18
1:F1:2544:U:C1'	7:FG:50:THR:HG21	1.72	1.18
23:GB:114:THR:HB	23:GB:161:HIS:NE2	1.57	1.18
23:EB:114:THR:HB	23:EB:161:HIS:NE2	1.54	1.18
1:A1:3228:U:H4'	1:A1:3229:C:H5'	1.24	1.17
27:EF:126:LYS:HE2	27:EF:135:LEU:HD13	1.23	1.17
32:CK:142:GLY:HA2	18:DU:173:ARG:NH2	1.58	1.17
1:D1:672:C:O2'	50:D1:4018:HOH:O	1.63	1.17
23:BB:30:ARG:O	50:BB:402:HOH:O	1.60	1.17
20:C2:2:G:O6	1:D1:3132:A:O2'	1.57	1.17
1:D1:265:A:N6	16:DQ:30:ARG:O	1.78	1.17
27:GF:47:TRP:HB3	27:GF:51:ILE:HD11	1.25	1.17
1:H1:2544:U:H1'	7:HG:50:THR:HG21	1.23	1.17
26:GE:1:MET:HG3	26:GE:2:ARG:H	1.00	1.16
1:H1:2347:A:N7	50:H1:4254:HOH:O	1.76	1.16
1:A1:1207:A:O2'	1:A1:1208:U:OP1	1.62	1.16
1:A1:273:G:OP2	50:A1:3834:HOH:O	1.63	1.16
1:F1:1895:U:OP1	50:F1:4010:HOH:O	1.63	1.16
1:F1:3044:A:O2'	1:F1:3046:A:OP2	1.59	1.16
1:A1:40:C:H2'	1:A1:41:A:H5''	1.22	1.16
1:F1:987:A:H2'	50:F1:4481:HOH:O	1.43	1.16
27:EF:69:GLN:NE2	16:FQ:48:VAL:O	1.78	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1445:G:H2'	1:F1:1446:C:H5''	1.25	1.16
1:F1:1920:A:OP2	50:F1:4312:HOH:O	1.59	1.16
7:FG:10:ILE:HA	7:FG:13:LYS:CD	1.75	1.16
22:EA:239:ARG:NH1	1:F1:2158:C:H5'	1.60	1.16
1:H1:3109:C:H3'	10:HK:111:ARG:NH1	1.60	1.16
1:D1:964:U:OP1	50:D1:4024:HOH:O	1.60	1.16
1:F1:981:U:OP1	50:F1:4089:HOH:O	1.62	1.16
1:A1:3132:A:O2'	20:B2:2:G:O6	1.64	1.16
1:D1:3228:U:H4'	1:D1:3229:C:H5'	1.24	1.16
8:HH:13:ARG:HH22	8:HH:17:LYS:HG2	1.04	1.16
1:A1:3230:G:N2	5:AE:142:GLU:OE2	1.79	1.15
24:EC:152:VAL:HG13	24:EC:157:TYR:CE2	1.81	1.15
1:F1:3109:C:H3'	10:FK:111:ARG:NH1	1.61	1.15
1:H1:1662:A:H5'	11:HL:76:ARG:NH2	1.61	1.15
1:A1:964:U:OP1	50:A1:3949:HOH:O	1.63	1.15
24:GC:152:VAL:HG13	24:GC:157:TYR:CE2	1.80	1.15
18:AU:82:GLY:O	18:AU:133:LYS:NZ	1.77	1.15
1:D1:1909:C:O2'	1:D1:1910:A:OP2	1.62	1.15
28:EG:15:UNK:HG3	28:EG:65:UNK:HA	1.18	1.15
24:GC:395:ASP:OD1	37:GP:154:ARG:NH2	1.80	1.15
32:EK:142:GLY:HA2	18:FU:173:ARG:HH22	1.07	1.15
1:F1:361:A:H2'	1:F1:362:G:H5''	1.28	1.15
1:D1:1642:G:H2'	1:D1:1643:G:H5''	1.25	1.15
1:F1:1084:G:H2'	1:F1:1085:G:H5''	1.17	1.15
7:AG:10:ILE:HA	7:AG:13:LYS:CD	1.75	1.15
1:D1:240:A:H4'	1:D1:241:A:OP2	1.43	1.15
7:DG:10:ILE:CA	7:DG:13:LYS:HD3	1.77	1.14
1:A1:2743:G:H3'	1:A1:2744:C:C5'	1.76	1.14
7:AG:10:ILE:CA	7:AG:13:LYS:HD3	1.76	1.14
7:DG:10:ILE:HA	7:DG:13:LYS:CD	1.75	1.14
1:F1:304:U:O2'	1:F1:305:A:OP2	1.64	1.14
1:H1:1478:A:N7	50:H1:3945:HOH:O	1.78	1.14
1:A1:2158:C:H5'	22:BA:239:ARG:NH1	1.61	1.14
24:BC:152:VAL:HG13	24:BC:157:TYR:CE2	1.81	1.14
1:A1:696:A:H2'	1:A1:697:A:H5''	1.20	1.14
27:CF:131:HIS:CD2	27:CF:135:LEU:HD11	1.82	1.14
1:D1:1445:G:H2'	1:D1:1446:C:H5''	1.25	1.14
1:F1:2394:A:OP2	50:F1:4137:HOH:O	1.62	1.14
1:A1:1445:G:H2'	1:A1:1446:C:H5''	1.26	1.14
27:CF:176:LYS:HB2	27:CF:187:THR:HG23	1.24	1.14
24:EC:376:TRP:HD1	1:F1:564:A:C1'	1.61	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3228:U:H4'	1:F1:3229:C:H5'	1.23	1.14
1:D1:2743:G:H3'	1:D1:2744:C:C5'	1.77	1.14
1:H1:3228:U:H4'	1:H1:3229:C:H5'	1.24	1.14
38:EQ:133:ARG:HD3	50:EQ:303:HOH:O	1.44	1.14
4:FC:44:LYS:HD3	4:FC:52:THR:HG21	1.23	1.14
38:GQ:133:ARG:HG3	38:GQ:139:ASN:ND2	1.63	1.14
1:H1:304:U:O2'	1:H1:305:A:OP2	1.63	1.13
1:A1:1957:A:OP2	50:A1:4526:HOH:O	1.65	1.13
38:CQ:133:ARG:HG3	38:CQ:139:ASN:ND2	1.63	1.13
7:HG:10:ILE:HA	7:HG:13:LYS:CD	1.79	1.13
27:CF:126:LYS:HE2	27:CF:135:LEU:HD13	1.30	1.13
1:H1:1054:G:H2'	1:H1:1055:A:C8	1.83	1.13
18:AU:173:ARG:HH22	32:BK:142:GLY:HA2	0.99	1.13
1:F1:2862:G:OP2	50:F1:4140:HOH:O	1.66	1.13
8:FH:64:LYS:HG2	8:FH:69:ASN:HD21	1.12	1.13
1:H1:1084:G:H2'	1:H1:1085:G:H5''	1.19	1.13
18:HU:82:GLY:O	18:HU:133:LYS:NZ	1.82	1.13
1:A1:396:A:H4'	1:A1:397:A:OP2	1.40	1.13
7:FG:10:ILE:CA	7:FG:13:LYS:HD3	1.78	1.13
1:D1:750:G:H2'	1:D1:751:C:H5''	1.28	1.13
27:BF:47:TRP:HB3	27:BF:51:ILE:HD11	1.28	1.13
38:BQ:133:ARG:HG3	38:BQ:139:ASN:ND2	1.62	1.13
23:CB:16:PHE:HD2	23:CB:273:ARG:NH1	1.47	1.13
1:D1:291:C:H2'	1:D1:292:C:H5''	1.31	1.13
24:EC:319:ARG:NH1	1:F1:620:A:N7	1.96	1.13
1:A1:1926:G:OP1	50:A1:4486:HOH:O	1.67	1.12
1:A1:2544:U:C1'	7:AG:50:THR:HG21	1.79	1.12
1:H1:2944:A:OP2	50:H1:3967:HOH:O	1.65	1.12
1:D1:2900:G:OP1	50:D1:4562:HOH:O	1.66	1.12
1:D1:304:U:O2'	1:D1:305:A:OP2	1.65	1.12
1:F1:451:A:O2'	14:FO:56:GLN:NE2	1.82	1.12
32:EK:142:GLY:HA2	18:FU:173:ARG:NH2	1.63	1.12
23:BB:16:PHE:HD2	23:BB:273:ARG:NH1	1.44	1.12
1:H1:1059:U:H2'	1:H1:1060:C:H5''	1.28	1.12
1:H1:1445:G:H2'	1:H1:1446:C:H5''	1.31	1.12
1:H1:2875:A:OP2	50:H1:4048:HOH:O	1.66	1.12
1:H1:361:A:H2'	1:H1:362:G:H5''	1.31	1.12
1:F1:1662:A:H5'	11:FL:76:ARG:NH2	1.64	1.12
6:FF:11:ARG:HH21	6:FF:57:LYS:HA	1.14	1.12
27:GF:122:PRO:HG2	1:H1:119:A:C2	1.84	1.12
1:A1:1442:G:OP1	50:A1:3865:HOH:O	1.66	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:GF:131:HIS:CD2	27:GF:135:LEU:HD11	1.84	1.12
1:F1:240:A:H4'	1:F1:241:A:OP2	1.42	1.12
1:H1:696:A:H2'	1:H1:697:A:H5''	1.17	1.12
16:HQ:9:ILE:HD11	18:HU:187:ASN:HB3	1.32	1.12
1:D1:40:C:H2'	1:D1:41:A:H5''	1.22	1.12
1:D1:2932:U:OP2	50:D1:4236:HOH:O	1.67	1.12
27:EF:47:TRP:HB3	27:EF:51:ILE:HD11	1.28	1.12
1:H1:1909:C:O2'	1:H1:1910:A:OP2	1.65	1.12
1:H1:590:A:H2'	1:H1:591:G:H5''	1.32	1.12
1:A1:145:A:N6	50:A1:3807:HOH:O	1.83	1.12
1:A1:2309:U:O2'	50:A1:4184:HOH:O	1.66	1.12
1:A1:564:A:H1'	24:BC:376:TRP:HD1	1.04	1.12
1:F1:396:A:H4'	1:F1:397:A:OP2	1.38	1.12
5:DE:41:LEU:HD13	5:DE:45:ILE:HD13	1.32	1.11
16:FQ:9:ILE:HD11	18:FU:187:ASN:HB3	1.29	1.11
28:BG:15:UNK:HG3	28:BG:65:UNK:HA	1.14	1.11
1:F1:1642:G:H2'	1:F1:1643:G:H5''	1.25	1.11
1:A1:304:U:O2'	1:A1:305:A:OP2	1.68	1.11
1:D1:1054:G:H2'	1:D1:1055:A:C8	1.83	1.11
6:AF:11:ARG:HH21	6:AF:57:LYS:HA	1.13	1.11
1:D1:2390:G:N7	50:D1:4151:HOH:O	1.83	1.11
1:F1:1909:C:O2'	1:F1:1910:A:OP2	1.65	1.11
1:H1:1642:G:H2'	1:H1:1643:G:H5''	1.27	1.11
1:A1:2362:A:OP2	50:A1:3888:HOH:O	1.64	1.11
1:A1:750:G:H2'	1:A1:751:C:H5''	1.30	1.11
27:CF:232:GLN:HE22	1:D1:2573:U:H4'	1.00	1.11
1:A1:1409:C:OP2	24:BC:195:ARG:NH2	1.82	1.11
1:A1:44:U:OP1	50:A1:3728:HOH:O	1.69	1.11
26:BE:1:MET:HG3	26:BE:2:ARG:H	0.97	1.11
1:A1:905:G:H5'	38:BQ:134:ALA:HB2	1.30	1.11
18:FU:82:GLY:O	18:FU:133:LYS:NZ	1.82	1.11
28:GG:8:UNK:HA	1:H1:1248:G:N2	1.65	1.11
1:H1:979:U:H1'	17:HT:12:GLN:NE2	1.66	1.11
5:HE:41:LEU:HD13	5:HE:45:ILE:HD13	1.31	1.11
1:A1:1561:A:OP2	50:A1:4047:HOH:O	1.67	1.11
1:D1:1392:G:OP2	50:D1:3983:HOH:O	1.65	1.11
38:CQ:133:ARG:HA	50:CQ:306:HOH:O	1.49	1.11
1:H1:2964:A:N1	50:H1:3969:HOH:O	1.80	1.11
6:HF:11:ARG:HH21	6:HF:57:LYS:HA	1.14	1.11
1:D1:396:A:H4'	1:D1:397:A:OP2	1.40	1.11
23:GB:16:PHE:HD2	23:GB:273:ARG:NH1	1.48	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CG:15:UNK:HG3	28:CG:65:UNK:HA	1.15	1.11
1:A1:240:A:H4'	1:A1:241:A:OP2	1.41	1.10
27:BF:131:HIS:CD2	27:BF:135:LEU:HD11	1.86	1.10
27:BF:176:LYS:HB2	27:BF:187:THR:HG23	1.28	1.10
1:F1:696:A:H2'	1:F1:697:A:H5''	1.21	1.10
24:GC:376:TRP:HD1	1:H1:564:A:H1'	1.13	1.10
7:HG:10:ILE:CA	7:HG:13:LYS:HD3	1.81	1.10
18:AU:166:VAL:HA	18:AU:169:ILE:HD12	1.29	1.10
34:EM:274:HIS:HA	34:EM:277:PHE:HD1	1.15	1.10
27:GF:126:LYS:HE2	27:GF:135:LEU:HD13	1.25	1.10
1:A1:1662:A:H5'	11:AL:76:ARG:NH2	1.66	1.10
1:A1:2677:U:OP1	34:BM:12:TYR:OH	1.69	1.10
1:F1:339:C:OP1	50:F1:3747:HOH:O	1.70	1.10
24:BC:395:ASP:OD1	37:BP:154:ARG:NH2	1.84	1.10
1:F1:2411:U:OP1	50:F1:3912:HOH:O	1.67	1.10
18:FU:166:VAL:HA	18:FU:169:ILE:HD12	1.26	1.10
1:A1:2544:U:H1'	7:AG:50:THR:HG21	1.13	1.10
1:A1:590:A:H2'	1:A1:591:G:H5''	1.32	1.10
1:F1:2743:G:H3'	1:F1:2744:C:C5'	1.79	1.10
8:FH:13:ARG:HH22	8:FH:17:LYS:HG2	1.00	1.10
1:H1:313:U:OP1	18:HU:100:LYS:NZ	1.82	1.10
1:A1:1123:A:OP2	37:BP:116:LYS:NZ	1.84	1.10
1:D1:527:A:H2'	1:D1:528:C:H5''	1.12	1.10
37:EP:116:LYS:NZ	1:F1:1123:A:OP2	1.84	1.10
38:EQ:133:ARG:HG3	38:EQ:139:ASN:ND2	1.67	1.10
1:F1:590:A:H2'	1:F1:591:G:H5''	1.30	1.10
1:A1:1642:G:H2'	1:A1:1643:G:H5''	1.26	1.10
1:H1:2394:A:N7	50:H1:4021:HOH:O	1.80	1.10
23:EB:16:PHE:HD2	23:EB:273:ARG:NH1	1.48	1.10
1:F1:2211:G:O6	50:F1:4398:HOH:O	1.69	1.10
1:F1:527:A:H2'	1:F1:528:C:H5''	1.13	1.10
4:HC:44:LYS:HD3	4:HC:52:THR:HG21	1.26	1.10
25:CD:133:ARG:HB3	25:CD:134:PRO:HD2	1.34	1.10
1:H1:2743:G:H3'	1:H1:2744:C:C5'	1.78	1.10
1:D1:2651:A:OP1	50:D1:4769:HOH:O	1.68	1.09
45:GX:15:ARG:O	50:GX:205:HOH:O	1.68	1.09
1:A1:2573:U:H4'	27:BF:232:GLN:HE22	0.98	1.09
18:DU:82:GLY:O	18:DU:133:LYS:NZ	1.83	1.09
21:E3:83:G:OP1	50:E3:305:HOH:O	1.69	1.09
1:H1:3230:G:N2	5:HE:142:GLU:OE2	1.85	1.09
1:A1:2944:A:OP2	50:A1:4192:HOH:O	1.68	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3127:U:H2'	1:D1:3128:G:H5''	1.33	1.09
1:D1:1084:G:H2'	1:D1:1085:G:H5''	1.16	1.09
27:EF:176:LYS:HB2	27:EF:187:THR:HG23	1.28	1.09
27:EF:232:GLN:HE22	1:F1:2573:U:H4'	1.05	1.09
1:F1:962:G:H1'	50:F1:4480:HOH:O	1.52	1.09
1:A1:2932:U:OP2	50:A1:4147:HOH:O	1.70	1.09
22:BA:218:GLN:O	50:BA:304:HOH:O	1.68	1.09
1:D1:146:U:H4'	1:D1:147:U:C5'	1.82	1.09
1:F1:146:U:H4'	1:F1:147:U:C5'	1.82	1.09
1:A1:1337:G:N7	50:A1:4280:HOH:O	1.83	1.09
4:AC:44:LYS:HD3	4:AC:52:THR:HG21	1.26	1.09
26:CE:1:MET:HG3	26:CE:2:ARG:H	0.97	1.09
34:CM:12:TYR:OH	1:D1:2677:U:OP1	1.70	1.09
1:F1:2932:U:OP2	50:F1:4026:HOH:O	1.69	1.09
28:GG:8:UNK:HA	1:H1:1248:G:H21	1.00	1.09
1:H1:527:A:H2'	1:H1:528:C:H5''	1.10	1.09
1:A1:1909:C:O2'	1:A1:1910:A:OP2	1.69	1.09
27:GF:232:GLN:HE22	1:H1:2573:U:H4'	1.08	1.09
1:A1:299:G:H2'	1:A1:300:G:H5''	1.35	1.09
1:D1:339:C:OP1	50:D1:3881:HOH:O	1.69	1.09
23:BB:376:LYS:HZ3	9:DJ:44:PRO:HD2	0.97	1.09
1:F1:2209:A:OP2	50:F1:4399:HOH:O	1.69	1.09
13:AN:100:ASP:OD1	1:H1:1053:A:C2	2.05	1.09
1:H1:2932:U:OP2	50:H1:3937:HOH:O	1.68	1.09
18:HU:166:VAL:HA	18:HU:169:ILE:HD12	1.26	1.09
1:A1:291:C:H2'	1:A1:292:C:H5''	1.33	1.08
3:DB:33:THR:HG22	3:DB:35:ILE:H	1.18	1.08
1:F1:1958:G:N7	50:F1:4375:HOH:O	1.83	1.08
24:EC:363:ARG:NH2	1:F1:602:A:OP2	1.85	1.08
1:D1:1046:G:O3'	13:FN:3:LYS:NZ	1.85	1.08
22:CA:239:ARG:HH11	1:D1:2158:C:H5'	1.18	1.08
6:DF:11:ARG:HH21	6:DF:57:LYS:HA	1.14	1.08
1:A1:1460:G:OP2	50:A1:3957:HOH:O	1.71	1.08
35:CN:52:ARG:HB2	35:CN:84:THR:HG21	1.09	1.08
1:D1:3230:G:N2	5:DE:142:GLU:OE2	1.84	1.08
31:GJ:51:SER:OG	50:GJ:303:HOH:O	1.71	1.08
1:H1:146:U:H4'	1:H1:147:U:C5'	1.83	1.08
1:A1:527:A:H2'	1:A1:528:C:H5''	1.10	1.08
1:A1:313:U:OP1	18:AU:100:LYS:NZ	1.86	1.08
27:EF:131:HIS:CD2	27:EF:135:LEU:HD11	1.87	1.08
35:EN:52:ARG:HB2	35:EN:84:THR:HG21	1.09	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2393:A:OP2	50:F1:4147:HOH:O	1.70	1.08
1:F1:3127:U:H2'	1:F1:3128:G:H5''	1.32	1.08
23:GB:264:ARG:NH2	1:H1:2387:C:O2'	1.87	1.08
1:H1:750:G:H2'	1:H1:751:C:H5''	1.26	1.08
1:A1:1766:A:H4'	1:A1:1767:U:OP2	1.52	1.08
1:F1:291:C:H2'	1:F1:292:C:H5''	1.30	1.08
29:CH:168:SER:OG	37:CP:157:PHE:O	1.70	1.08
5:FE:41:LEU:HD13	5:FE:45:ILE:HD13	1.32	1.08
34:GM:274:HIS:HA	34:GM:277:PHE:HD2	1.17	1.08
25:GD:51:ARG:NH2	1:H1:2656:A:OP1	1.85	1.08
1:A1:3127:U:H2'	1:A1:3128:G:H5''	1.33	1.08
37:CP:116:LYS:NZ	1:D1:1123:A:OP2	1.86	1.08
1:F1:1513:A:OP2	50:F1:4238:HOH:O	1.69	1.08
1:A1:1478:A:N7	50:A1:4152:HOH:O	1.85	1.08
1:A1:1918:U:C2'	1:A1:1919:A:H5''	1.84	1.08
25:BD:133:ARG:HB3	25:BD:134:PRO:HD2	1.36	1.08
33:CL:14:LYS:HZ1	1:D1:268:G:H5''	1.07	1.08
26:EE:1:MET:HG3	26:EE:2:ARG:H	0.98	1.08
22:GA:218:GLN:O	50:GA:403:HOH:O	1.72	1.08
24:CC:195:ARG:NH2	1:D1:1409:C:OP2	1.87	1.07
24:CC:376:TRP:HD1	1:D1:564:A:H1'	1.08	1.07
1:D1:1895:U:OP1	50:D1:4214:HOH:O	1.71	1.07
4:DC:44:LYS:HD3	4:DC:52:THR:HG21	1.28	1.07
1:A1:2411:U:OP1	50:A1:4029:HOH:O	1.72	1.07
27:CF:47:TRP:HB3	27:CF:51:ILE:HD11	1.29	1.07
8:DH:13:ARG:HH22	8:DH:17:LYS:HG2	1.06	1.07
28:GG:15:UNK:HG3	28:GG:65:UNK:HA	1.17	1.07
1:A1:146:U:H4'	1:A1:147:U:C5'	1.82	1.07
1:A1:2900:G:OP1	50:A1:4436:HOH:O	1.69	1.07
27:BF:126:LYS:HE2	27:BF:135:LEU:HD13	1.30	1.07
32:CK:142:GLY:HA2	18:DU:173:ARG:HH22	1.00	1.07
4:HC:66:VAL:CG1	4:HC:89:ILE:HD11	1.85	1.07
1:A1:1517:G:OP2	50:A1:4403:HOH:O	1.69	1.07
29:CH:159:PHE:HB3	29:CH:163:GLN:HE22	1.19	1.07
1:D1:1208:U:H5'	19:DX:178:ARG:HH22	1.16	1.07
1:D1:1868:C:OP2	50:D1:4515:HOH:O	1.70	1.07
1:D1:2275:A:OP1	50:D1:4627:HOH:O	1.71	1.07
1:F1:2647:G:OP1	50:F1:4482:HOH:O	1.68	1.07
28:GG:81:UNK:HG3	1:H1:1308:U:O2'	1.52	1.07
8:AH:64:LYS:HG2	8:AH:69:ASN:HD21	1.14	1.07
5:DE:86:PRO:HB2	5:DE:153:GLN:HE22	1.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:376:TRP:HB3	1:F1:564:A:O2'	1.52	1.07
1:F1:3227:A:C5'	5:FE:57:ARG:HH12	1.67	1.07
1:A1:1370:A:H2'	1:A1:1371:G:H5''	1.37	1.07
16:AQ:37:ARG:HH21	33:BL:2:GLY:N	1.51	1.07
1:D1:696:A:H2'	1:D1:697:A:H5''	1.21	1.07
20:G2:100:C:OP2	39:GR:56:ARG:NH2	1.88	1.07
20:B2:37:A:H4'	20:B2:38:C:OP1	1.53	1.07
38:CQ:133:ARG:HG3	38:CQ:139:ASN:HD22	1.16	1.07
1:F1:1918:U:H2'	1:F1:1919:A:H5''	1.37	1.07
28:GG:81:UNK:HG2	1:H1:1309:G:O4'	1.52	1.07
22:GA:239:ARG:HH11	1:H1:2158:C:H5'	1.13	1.07
1:A1:525:C:H2'	1:A1:525:C:O2	1.54	1.07
1:D1:1920:A:OP2	50:D1:4600:HOH:O	1.70	1.07
4:FC:66:VAL:CG1	4:FC:89:ILE:HD11	1.85	1.07
1:H1:1477:C:OP1	50:H1:3945:HOH:O	1.70	1.07
24:GC:74:THR:HG21	1:H1:2397:A:H2'	1.19	1.07
23:BB:376:LYS:HZ3	9:DJ:44:PRO:CD	1.68	1.07
23:BB:376:LYS:NZ	9:DJ:44:PRO:HD2	1.69	1.07
1:A1:1084:G:H2'	1:A1:1085:G:H5''	1.15	1.07
1:A1:2347:A:N7	50:A1:4562:HOH:O	1.86	1.07
16:AQ:9:ILE:HD11	18:AU:187:ASN:HB3	1.34	1.07
35:BN:52:ARG:HB2	35:BN:84:THR:HG21	1.09	1.07
43:CV:101:ARG:NH1	1:D1:1131:G:O6	1.88	1.07
47:CO:104:ARG:NH1	1:D1:1973:A:OP1	1.85	1.07
4:DC:66:VAL:CG1	4:DC:89:ILE:HD11	1.84	1.07
1:F1:750:G:H2'	1:F1:751:C:H5''	1.28	1.07
45:EX:57:ILE:HG13	1:F1:972:U:H5''	1.36	1.07
1:F1:3230:G:N2	5:FE:142:GLU:OE2	1.87	1.07
46:GY:64:ILE:HD11	46:GY:71:LEU:HD11	1.32	1.07
1:H1:1197:A:OP2	50:H1:4068:HOH:O	1.73	1.07
1:H1:240:A:H4'	1:H1:241:A:OP2	1.45	1.07
3:HB:33:THR:HG22	3:HB:35:ILE:H	1.20	1.07
8:HH:64:LYS:HG2	8:HH:69:ASN:HD21	1.12	1.07
1:A1:1064:C:H5'	34:BM:5:LYS:CD	1.85	1.06
18:DU:166:VAL:HA	18:DU:169:ILE:HD12	1.31	1.06
1:F1:1766:A:H4'	1:F1:1767:U:OP2	1.55	1.06
1:A1:63:A:OP1	33:BL:177:LYS:NZ	1.86	1.06
1:D1:299:G:H2'	1:D1:300:G:H5''	1.37	1.06
28:BG:15:UNK:CG	28:BG:65:UNK:HA	1.85	1.06
1:D1:525:C:H2'	1:D1:525:C:O2	1.54	1.06
1:H1:299:G:H2'	1:H1:300:G:H5''	1.33	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:395:ASP:OD1	37:CP:154:ARG:NH2	1.88	1.06
28:CG:15:UNK:CG	28:CG:65:UNK:HA	1.86	1.06
28:GG:81:UNK:CG	1:H1:1308:U:O2'	2.02	1.06
1:A1:672:C:O2'	50:A1:3946:HOH:O	1.69	1.06
24:BC:215:VAL:HG12	24:BC:238:VAL:HG22	1.35	1.06
1:A1:2775:G:H4'	32:BK:59:GLY:O	1.56	1.06
1:D1:590:A:H2'	1:D1:591:G:H5''	1.31	1.06
1:D1:643:A:O2'	1:D1:644:A:OP2	1.73	1.06
1:D1:2544:U:H1'	7:DG:50:THR:HG21	1.16	1.06
1:A1:284:U:H5	1:A1:305:A:H5''	1.21	1.06
47:CO:167:UNK:O	47:CO:170:UNK:HG3	1.54	1.06
20:G2:2:G:O6	1:H1:3132:A:O2'	1.70	1.06
1:H1:1766:A:H4'	1:H1:1767:U:OP2	1.55	1.06
1:H1:3127:U:C2'	1:H1:3128:G:H5''	1.85	1.06
47:CO:156:UNK:O	47:CO:159:UNK:HG3	1.56	1.06
23:CB:264:ARG:NH2	1:D1:2387:C:O2'	1.88	1.06
24:EC:215:VAL:HG12	24:EC:238:VAL:HG22	1.37	1.06
28:EG:15:UNK:CG	28:EG:65:UNK:HA	1.85	1.06
30:EI:86:MET:HE1	1:F1:1201:G:H21	1.15	1.06
1:F1:2931:G:OP1	50:F1:4028:HOH:O	1.73	1.06
1:H1:1918:U:C2'	1:H1:1919:A:H5''	1.85	1.06
1:A1:1620:U:O4	50:A1:4394:HOH:O	1.71	1.06
1:D1:3127:U:C2'	1:D1:3128:G:H5''	1.85	1.06
20:C2:37:A:H4'	20:C2:38:C:OP1	1.54	1.06
30:CI:186:LEU:HD11	6:DF:122:SER:HB3	1.37	1.06
1:H1:2718:U:OP1	50:H1:4322:HOH:O	1.73	1.06
8:AH:13:ARG:HH22	8:AH:17:LYS:HG2	0.98	1.05
30:GI:86:MET:HE1	1:H1:1201:G:H21	1.16	1.05
1:A1:2181:U:OP1	50:A1:4185:HOH:O	1.74	1.05
1:A1:361:A:H2'	1:A1:362:G:H5''	1.35	1.05
3:AB:33:THR:HG22	3:AB:35:ILE:H	1.18	1.05
24:CC:215:VAL:HG12	24:CC:238:VAL:HG22	1.36	1.05
1:H1:1370:A:H2'	1:H1:1371:G:H5''	1.37	1.05
1:A1:560:A:H2'	1:A1:561:A:H8	1.19	1.05
34:BM:119:TYR:CD1	34:BM:132:VAL:HG11	1.91	1.05
24:EC:74:THR:HG21	1:F1:2397:A:H2'	1.34	1.05
1:F1:3127:U:C2'	1:F1:3128:G:H5''	1.85	1.05
24:GC:215:VAL:HG12	24:GC:238:VAL:HG22	1.32	1.05
25:GD:133:ARG:HB3	25:GD:134:PRO:HD2	1.36	1.05
1:H1:1918:U:H2'	1:H1:1919:A:H5''	1.37	1.05
1:H1:284:U:H5	1:H1:305:A:H5''	1.21	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:HX:42:ARG:NH2	19:HX:140:THR:HB	1.71	1.05
1:H1:3127:U:H2'	1:H1:3128:G:H5''	1.34	1.05
1:H1:964:U:OP1	50:H1:3768:HOH:O	1.70	1.05
1:D1:2862:G:OP1	50:D1:4365:HOH:O	1.75	1.05
6:DF:56:THR:O	6:DF:57:LYS:HG2	1.57	1.05
33:GL:93:LYS:HE2	1:H1:276:G:H1'	1.34	1.05
1:A1:2100:A:H2'	1:A1:2101:G:H5''	1.36	1.05
1:A1:2717:G:H5''	37:BP:83:ARG:HH22	1.22	1.05
1:F1:1918:U:C2'	1:F1:1919:A:H5''	1.86	1.05
1:D1:361:A:H2'	1:D1:362:G:H5''	1.32	1.05
35:GN:52:ARG:HB2	35:GN:84:THR:HG21	1.07	1.05
1:H1:396:A:H4'	1:H1:397:A:OP2	1.46	1.05
4:AC:66:VAL:CG1	4:AC:89:ILE:HD11	1.87	1.05
1:A1:1201:G:H21	30:BI:86:MET:HE1	1.18	1.05
30:CI:86:MET:HE1	1:D1:1201:G:H21	1.20	1.05
19:FX:42:ARG:NH2	19:FX:140:THR:HB	1.72	1.05
32:GK:142:GLY:HA2	18:HU:173:ARG:HH22	0.91	1.05
1:H1:485:A:H4'	1:H1:486:C:OP1	1.55	1.05
14:DO:75:THR:HG22	14:DO:77:GLU:H	1.19	1.05
22:EA:239:ARG:HH11	1:F1:2158:C:H5'	1.10	1.05
1:F1:3061:A:OP2	50:F1:4245:HOH:O	1.74	1.05
5:HE:86:PRO:HB2	5:HE:153:GLN:HE22	1.16	1.05
1:D1:1918:U:C2'	1:D1:1919:A:H5''	1.86	1.04
5:FE:86:PRO:HB2	5:FE:153:GLN:HE22	1.16	1.04
1:A1:1047:G:H2'	1:A1:1048:U:H5''	1.37	1.04
1:F1:1175:G:N7	50:F1:3798:HOH:O	1.90	1.04
1:F1:485:A:H4'	1:F1:486:C:OP1	1.54	1.04
1:F1:555:G:H2'	1:F1:556:A:H5''	1.38	1.04
1:D1:2370:G:OP2	50:D1:4016:HOH:O	1.76	1.04
1:D1:560:A:H2'	1:D1:561:A:H8	1.20	1.04
1:F1:979:U:H1'	17:FT:12:GLN:NE2	1.72	1.04
1:A1:622:G:O2'	5:AE:26:THR:O	1.75	1.04
20:B2:105:A:H5'	20:B2:106:A:H5''	1.39	1.04
1:A1:2397:A:H2'	24:BC:74:THR:HG21	1.35	1.04
26:BE:1:MET:CG	26:BE:2:ARG:H	1.68	1.04
28:BG:4:UNK:HG3	28:BG:6:UNK:HG2	1.39	1.04
6:FF:56:THR:O	6:FF:57:LYS:HG2	1.56	1.04
24:GC:195:ARG:NH2	1:H1:1409:C:OP2	1.88	1.04
28:GG:80:UNK:C	1:H1:1309:G:H4'	1.87	1.04
20:C2:84:C:OP1	42:CU:3:LYS:HG2	1.57	1.04
33:CL:177:LYS:NZ	1:D1:63:A:OP1	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1059:U:H2'	1:D1:1060:C:H5''	1.33	1.04
1:D1:1370:A:H2'	1:D1:1371:G:H5''	1.38	1.04
29:EH:159:PHE:HB3	29:EH:163:GLN:HE22	1.23	1.04
1:F1:1504:C:OP2	50:F1:4007:HOH:O	1.75	1.04
35:GN:158:GLN:HB3	50:H1:4322:HOH:O	1.55	1.04
1:D1:987:A:H2'	50:D1:4787:HOH:O	1.57	1.04
28:EG:60:UNK:HG1	1:F1:1249:G:H5''	1.35	1.04
8:FH:54:LYS:HA	8:FH:110:PRO:HG3	1.39	1.04
38:GQ:134:ALA:HB2	1:H1:905:G:H5'	1.36	1.04
34:CM:274:HIS:HA	34:CM:277:PHE:HD1	1.16	1.04
38:CQ:8:ARG:HH11	38:CQ:118:HIS:HB2	1.23	1.04
25:ED:133:ARG:HB3	25:ED:134:PRO:HD2	1.35	1.04
1:F1:2100:A:H2'	1:F1:2101:G:H5''	1.35	1.04
1:F1:265:A:N6	16:FQ:30:ARG:O	1.91	1.04
26:GE:1:MET:CG	26:GE:2:ARG:H	1.70	1.04
28:GG:15:UNK:CG	28:GG:65:UNK:HA	1.86	1.04
1:A1:455:G:OP2	14:AO:92:LYS:NZ	1.89	1.04
38:BQ:133:ARG:HG3	38:BQ:139:ASN:HD22	1.18	1.04
1:D1:957:U:H4'	1:D1:958:A:H5'	1.39	1.04
38:GQ:133:ARG:HG3	38:GQ:139:ASN:HD22	1.16	1.04
21:B3:12:U:O3'	21:B3:109:U:O2'	1.76	1.04
34:BM:274:HIS:HA	34:BM:277:PHE:HD1	1.19	1.04
1:A1:1064:C:H5'	34:BM:5:LYS:HD2	1.37	1.04
1:D1:2100:A:H2'	1:D1:2101:G:H5''	1.35	1.04
1:H1:2211:G:O6	50:H1:4252:HOH:O	1.74	1.04
22:CA:239:ARG:NH1	1:D1:2158:C:H5'	1.73	1.03
16:DQ:9:ILE:HD11	18:DU:187:ASN:HB3	1.39	1.03
1:A1:1593:A:H2'	1:A1:1594:C:C6	1.93	1.03
5:AE:86:PRO:HB2	5:AE:153:GLN:HE22	1.18	1.03
1:A1:1131:G:O6	43:BV:101:ARG:NH1	1.90	1.03
32:EK:59:GLY:O	1:F1:2775:G:H4'	1.58	1.03
1:F1:964:U:OP1	50:F1:3825:HOH:O	1.75	1.03
26:GE:1:MET:HG3	26:GE:2:ARG:N	1.73	1.03
1:A1:682:G:OP2	50:A1:3845:HOH:O	1.74	1.03
1:A1:906:C:OP1	50:A1:4154:HOH:O	1.72	1.03
24:CC:152:VAL:HG13	24:CC:157:TYR:HE2	1.13	1.03
24:CC:74:THR:HG21	1:D1:2397:A:H2'	1.38	1.03
30:CI:73:ARG:HD3	30:CI:144:VAL:HG12	1.39	1.03
8:DH:64:LYS:HG2	8:DH:69:ASN:HD21	1.13	1.03
24:GC:152:VAL:HG13	24:GC:157:TYR:HE2	1.14	1.03
6:HF:56:THR:O	6:HF:57:LYS:HG2	1.56	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:11:ARG:NH2	6:AF:57:LYS:HA	1.74	1.03
20:C2:105:A:H5'	20:C2:106:A:H5''	1.37	1.03
1:D1:2693:A:OP2	50:D1:5041:HOH:O	1.74	1.03
19:DX:42:ARG:HH22	19:DX:140:THR:HB	1.24	1.03
1:F1:741:G:OP2	1:F1:776:C:O2'	1.76	1.03
1:H1:525:C:H2'	1:H1:525:C:O2	1.54	1.03
1:A1:2859:G:N7	50:A1:4336:HOH:O	1.89	1.03
1:A1:3177:G:H4'	1:A1:3178:U:OP2	1.58	1.03
5:AE:41:LEU:HD13	5:AE:45:ILE:HD13	1.34	1.03
1:A1:3185:G:C8	8:AH:11:PRO:HD3	1.94	1.03
1:F1:560:A:H2'	1:F1:561:A:H8	1.22	1.03
1:H1:560:A:H2'	1:H1:561:A:H8	1.21	1.03
1:F1:299:G:H2'	1:F1:300:G:H5''	1.36	1.03
1:F1:525:C:O2	1:F1:525:C:H2'	1.53	1.03
19:FX:42:ARG:HH22	19:FX:140:THR:HB	1.23	1.03
14:AO:75:THR:HG22	14:AO:77:GLU:H	1.21	1.03
21:C3:8:G:P	34:CM:33:ARG:HH12	1.82	1.03
20:E2:37:A:H4'	20:E2:38:C:OP1	1.57	1.03
33:EL:177:LYS:NZ	1:F1:63:A:OP1	1.90	1.03
1:F1:682:G:OP2	50:F1:3739:HOH:O	1.74	1.03
19:DX:42:ARG:NH2	19:DX:140:THR:HB	1.73	1.03
1:F1:1861:C:OP1	50:F1:4234:HOH:O	1.77	1.03
20:E2:100:C:OP2	39:ER:56:ARG:NH2	1.91	1.03
1:F1:2309:U:O2'	50:F1:4059:HOH:O	1.77	1.03
3:FB:33:THR:HG22	3:FB:35:ILE:H	1.19	1.03
1:H1:2100:A:H2'	1:H1:2101:G:H5''	1.36	1.03
1:H1:643:A:O2'	1:H1:644:A:OP2	1.76	1.03
8:AH:54:LYS:HA	8:AH:110:PRO:HG3	1.40	1.02
1:D1:1766:A:H4'	1:D1:1767:U:OP2	1.51	1.02
6:DF:11:ARG:NH2	6:DF:57:LYS:HA	1.74	1.02
24:EC:195:ARG:NH2	1:F1:1409:C:OP2	1.91	1.02
1:F1:2899:C:H5''	50:F1:4274:HOH:O	1.58	1.02
1:A1:2275:A:OP1	50:A1:4495:HOH:O	1.76	1.02
46:CY:64:ILE:HD11	46:CY:71:LEU:HD11	1.41	1.02
1:H1:741:G:OP2	1:H1:776:C:O2'	1.76	1.02
1:A1:3127:U:C2'	1:A1:3128:G:H5''	1.87	1.02
1:A1:957:U:H4'	1:A1:958:A:H5'	1.37	1.02
33:BL:120:TRP:CZ2	33:BL:122:GLY:HA2	1.95	1.02
23:EB:264:ARG:NH2	1:F1:2387:C:O2'	1.91	1.02
1:A1:555:G:H2'	1:A1:556:A:H5''	1.40	1.02
1:D1:2394:A:N7	50:D1:4362:HOH:O	1.91	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3177:G:H4'	1:D1:3178:U:OP2	1.58	1.02
1:H1:291:C:H2'	1:H1:292:C:H5''	1.36	1.02
1:A1:1064:C:C5'	34:BM:5:LYS:HZ2	1.72	1.02
23:BB:376:LYS:NZ	9:DJ:44:PRO:CD	2.22	1.02
21:E3:104:C:H2'	21:E3:105:C:H5''	1.42	1.02
1:F1:895:A:OP1	50:F1:3993:HOH:O	1.76	1.02
21:G3:12:U:O3'	21:G3:109:U:O2'	1.76	1.02
19:HX:42:ARG:HH22	19:HX:140:THR:HB	1.20	1.02
21:B3:104:C:H2'	21:B3:105:C:H5''	1.41	1.02
36:EO:104:ARG:NH1	1:F1:1973:A:OP1	1.92	1.02
1:F1:2544:U:H1'	7:FG:50:THR:CG2	1.88	1.02
1:F1:3207:A:OP1	1:F1:3207:A:H4'	1.59	1.02
30:EI:186:LEU:HD11	6:FF:122:SER:HB3	1.40	1.02
37:GP:116:LYS:HZ1	37:GP:128:THR:HB	1.23	1.02
1:D1:741:G:OP2	1:D1:776:C:O2'	1.77	1.02
22:GA:62:VAL:HG21	22:GA:77:PHE:HD2	1.25	1.02
30:GI:73:ARG:HD3	30:GI:144:VAL:HG12	1.39	1.02
1:A1:643:A:O2'	1:A1:644:A:OP2	1.75	1.02
4:AC:66:VAL:HG11	4:AC:89:ILE:HD11	1.02	1.02
30:EI:73:ARG:HD3	30:EI:144:VAL:HG12	1.40	1.02
1:F1:2944:A:OP2	50:F1:4069:HOH:O	1.78	1.02
1:F1:672:C:O2'	50:F1:3819:HOH:O	1.78	1.02
1:A1:1918:U:H2'	1:A1:1919:A:H5''	1.36	1.02
1:A1:2743:G:H3'	1:A1:2744:C:H5''	1.41	1.02
1:A1:3207:A:H4'	1:A1:3207:A:OP1	1.60	1.02
18:AU:144:SER:HB2	42:BU:123:LYS:NZ	1.74	1.02
1:A1:564:A:H1'	24:BC:376:TRP:CD1	1.93	1.02
28:CG:4:UNK:HG3	28:CG:6:UNK:HG2	1.41	1.02
43:GV:101:ARG:NH1	1:H1:1131:G:O6	1.90	1.02
1:H1:1593:A:H2'	1:H1:1594:C:C6	1.95	1.02
8:HH:64:LYS:HG2	8:HH:69:ASN:ND2	1.73	1.02
6:AF:56:THR:O	6:AF:57:LYS:HG2	1.60	1.02
33:CL:120:TRP:CZ2	33:CL:122:GLY:HA2	1.94	1.02
44:BW:42:THR:HG22	44:BW:43:MET:HE3	1.39	1.01
47:CO:168:UNK:O	47:CO:171:UNK:HG3	1.60	1.01
24:CC:204:ARG:NH1	1:D1:1408:U:OP1	1.91	1.01
1:D1:1773:G:OP1	15:DP:43:LYS:NZ	1.92	1.01
1:F1:1208:U:H5'	19:FX:178:ARG:HH22	1.23	1.01
1:A1:1376:A:H3'	43:BV:12:LYS:HE2	1.41	1.01
19:AX:42:ARG:NH2	19:AX:140:THR:HB	1.75	1.01
27:GF:69:GLN:NE2	16:HQ:48:VAL:O	1.92	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AX:93:LEU:HD11	19:AX:120:LEU:HD11	1.42	1.01
1:D1:2362:A:OP2	50:D1:3937:HOH:O	1.78	1.01
1:H1:2666:G:H4'	1:H1:2667:A:OP2	1.60	1.01
21:C3:12:U:O3'	21:C3:109:U:O2'	1.78	1.01
24:EC:152:VAL:HG13	24:EC:157:TYR:HE2	1.15	1.01
38:EQ:8:ARG:HH11	38:EQ:118:HIS:HB2	1.18	1.01
1:F1:957:U:H4'	1:F1:958:A:H5'	1.40	1.01
1:H1:672:C:O2'	50:H1:3762:HOH:O	1.79	1.01
1:A1:2253:U:H2'	1:A1:2254:A:C8	1.95	1.01
1:A1:2387:C:O2'	23:BB:264:ARG:NH2	1.93	1.01
1:A1:2666:G:H4'	1:A1:2667:A:OP2	1.59	1.01
1:D1:1918:U:H2'	1:D1:1919:A:H5''	1.42	1.01
1:F1:1004:U:H5'	1:F1:1004:U:H6	1.26	1.01
1:F1:643:A:O2'	1:F1:644:A:OP2	1.77	1.01
1:A1:846:C:OP1	50:A1:4023:HOH:O	1.77	1.01
20:E2:105:A:H5'	20:E2:106:A:H5''	1.40	1.01
33:EL:120:TRP:CZ2	33:EL:122:GLY:HA2	1.95	1.01
1:F1:1593:A:H2'	1:F1:1594:C:C6	1.95	1.01
34:CM:119:TYR:CD1	34:CM:132:VAL:HG11	1.95	1.01
1:D1:682:G:OP2	50:D1:3873:HOH:O	1.75	1.01
21:E3:12:U:O3'	21:E3:109:U:O2'	1.79	1.01
1:F1:958:A:H3'	1:F1:959:G:H5'	1.42	1.01
1:A1:485:A:H4'	1:A1:486:C:OP1	1.55	1.01
1:D1:1926:G:OP1	50:D1:4618:HOH:O	1.76	1.01
1:H1:1208:U:H5'	19:HX:178:ARG:HH22	1.26	1.01
1:H1:2404:G:H5''	50:H1:4323:HOH:O	1.59	1.01
21:C3:21:G:H4'	34:CM:277:PHE:CD2	1.95	1.01
1:D1:2300:G:H4'	1:D1:2301:C:OP2	1.60	1.01
1:D1:485:A:H4'	1:D1:486:C:OP1	1.58	1.01
1:D1:2544:U:C1'	7:DG:50:THR:HG21	1.90	1.01
8:FH:64:LYS:HG2	8:FH:69:ASN:ND2	1.76	1.01
1:H1:2647:G:OP1	50:H1:4333:HOH:O	1.78	1.01
1:H1:2862:G:O6	1:H1:2933:G:H2'	1.61	1.01
1:A1:741:G:OP2	1:A1:776:C:O2'	1.78	1.01
21:B3:26:C:OP1	34:BM:56:THR:HG21	1.59	1.01
14:FO:75:THR:HG22	14:FO:77:GLU:H	1.25	1.01
19:FX:93:LEU:HD11	19:FX:120:LEU:HD11	1.43	1.01
28:GG:4:UNK:HG3	28:GG:6:UNK:HG2	1.41	1.01
1:H1:622:G:O2'	5:HE:26:THR:O	1.78	1.01
1:D1:284:U:H5	1:D1:305:A:H5''	1.20	1.00
1:F1:2275:A:OP1	50:F1:4339:HOH:O	1.77	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:11:ARG:NH2	6:FF:57:LYS:HA	1.74	1.00
22:GA:239:ARG:NH1	1:H1:2158:C:H5'	1.74	1.00
13:AN:4:PHE:N	13:AN:4:PHE:HD1	1.59	1.00
27:CF:232:GLN:NE2	1:D1:2573:U:H4'	1.76	1.00
26:EE:1:MET:CG	26:EE:2:ARG:H	1.70	1.00
35:EN:155:ALA:HB3	35:EN:158:GLN:NE2	1.76	1.00
1:F1:2100:A:C2'	1:F1:2101:G:H5''	1.91	1.00
29:GH:159:PHE:HB3	29:GH:163:GLN:HE22	1.24	1.00
1:H1:2300:G:H4'	1:H1:2301:C:OP2	1.58	1.00
1:D1:1048:U:H2'	1:D1:1049:U:H5''	1.38	1.00
1:D1:555:G:H2'	1:D1:556:A:H5''	1.39	1.00
1:F1:3185:G:C8	8:FH:11:PRO:HD3	1.94	1.00
1:H1:2900:G:OP1	50:H1:4147:HOH:O	1.79	1.00
1:H1:957:U:H4'	1:H1:958:A:H5'	1.39	1.00
32:GK:99:VAL:HB	18:HU:169:ILE:CD1	1.91	1.00
1:A1:2158:C:H5'	22:BA:239:ARG:HH11	1.10	1.00
26:CE:1:MET:CG	26:CE:2:ARG:H	1.69	1.00
1:D1:2100:A:C2'	1:D1:2101:G:H5''	1.91	1.00
1:D1:2797:C:N3	50:D1:4293:HOH:O	1.92	1.00
1:H1:47:G:O6	50:H1:3619:HOH:O	1.77	1.00
1:A1:3167:U:H4'	1:A1:3168:A:O5'	1.60	1.00
30:BI:73:ARG:HD3	30:BI:144:VAL:HG12	1.40	1.00
43:BV:218:TYR:HA	43:BV:222:GLY:O	1.59	1.00
1:D1:2743:G:H3'	1:D1:2744:C:H5''	1.42	1.00
1:F1:1370:A:H2'	1:F1:1371:G:H5''	1.38	1.00
33:GL:120:TRP:CZ2	33:GL:122:GLY:HA2	1.96	1.00
38:GQ:8:ARG:HH11	38:GQ:118:HIS:HB2	1.23	1.00
1:A1:1308:U:H5''	28:BG:58:UNK:HB2	1.00	1.00
1:A1:2576:C:H2'	1:A1:2577:G:H5'	1.42	1.00
1:A1:2703:G:O2'	1:A1:2740:G:H2'	1.62	1.00
1:H1:1004:U:H6	1:H1:1004:U:H5'	1.25	1.00
1:A1:809:A:H4'	35:BN:92:ARG:NH2	1.76	1.00
38:CQ:132:TYR:O	50:CQ:305:HOH:O	1.80	1.00
1:D1:3167:U:H4'	1:D1:3168:A:O5'	1.61	1.00
44:EW:22:ILE:HD13	44:EW:30:ARG:HG2	1.44	1.00
1:F1:2576:C:H2'	1:F1:2577:G:H5'	1.44	1.00
21:G3:104:C:H2'	21:G3:105:C:H5''	1.40	1.00
1:A1:2651:A:N7	50:A1:4832:HOH:O	1.94	1.00
35:CN:155:ALA:HB3	35:CN:158:GLN:NE2	1.76	1.00
1:D1:1654:G:H4'	1:D1:1655:A:OP2	1.62	1.00
1:D1:2405:U:OP2	50:D1:4786:HOH:O	1.80	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:EP:139:VAL:HG21	19:FX:30:ILE:HD11	1.44	1.00
13:FN:4:PHE:HD1	13:FN:4:PHE:N	1.59	1.00
32:GK:60:MET:O	35:GN:172:ARG:NH1	1.93	1.00
33:GL:177:LYS:NZ	1:H1:63:A:OP1	1.93	1.00
38:GQ:103:ASN:HD21	1:H1:388:A:C1'	1.74	1.00
20:B2:100:C:OP2	39:BR:56:ARG:NH2	1.93	1.00
1:D1:957:U:H4'	1:D1:958:A:C5'	1.91	1.00
19:DX:93:LEU:HD11	19:DX:120:LEU:HD11	1.40	1.00
28:EG:4:UNK:HG3	28:EG:6:UNK:HG2	1.44	1.00
1:F1:2362:A:OP2	50:F1:3771:HOH:O	1.79	1.00
35:EN:92:ARG:NH2	1:F1:809:A:H4'	1.76	1.00
19:HX:93:LEU:HD11	19:HX:120:LEU:HD11	1.43	1.00
1:A1:265:A:N6	16:AQ:30:ARG:O	1.93	1.00
26:BE:1:MET:HG3	26:BE:2:ARG:N	1.72	1.00
1:D1:1593:A:H2'	1:D1:1594:C:C6	1.95	1.00
21:E3:8:G:P	34:EM:33:ARG:HH12	1.84	1.00
1:F1:1517:G:OP2	50:F1:4256:HOH:O	1.78	1.00
1:F1:2310:G:OP1	50:F1:4064:HOH:O	1.80	1.00
8:AH:64:LYS:HG2	8:AH:69:ASN:ND2	1.75	0.99
45:CX:42:ASN:HD22	45:CX:45:ARG:H	1.05	0.99
1:D1:1004:U:H6	1:D1:1004:U:H5'	1.24	0.99
1:H1:958:A:H3'	1:H1:959:G:H5'	1.44	0.99
1:A1:2390:G:N7	50:A1:4062:HOH:O	1.94	0.99
1:A1:957:U:C4'	1:A1:958:A:H5'	1.91	0.99
1:D1:1208:U:H5'	19:DX:178:ARG:NH2	1.76	0.99
1:D1:957:U:C4'	1:D1:958:A:H5'	1.91	0.99
13:DN:4:PHE:HD1	13:DN:4:PHE:N	1.60	0.99
22:EA:62:VAL:HG21	22:EA:77:PHE:HD2	1.25	0.99
29:EH:193:ASP:HB2	1:F1:1036:G:H21	1.24	0.99
33:EL:183:SER:HA	33:EL:191:ASN:ND2	1.77	0.99
46:EY:64:ILE:HD11	46:EY:71:LEU:HD11	1.44	0.99
26:CE:1:MET:HG3	26:CE:2:ARG:N	1.71	0.99
1:H1:986:C:OP2	50:H1:4324:HOH:O	1.79	0.99
1:A1:957:U:H4'	1:A1:958:A:C5'	1.91	0.99
14:AO:25:THR:HG22	14:AO:27:ASP:H	1.27	0.99
24:CC:376:TRP:CD1	1:D1:564:A:H1'	1.97	0.99
45:CX:57:ILE:HG13	1:D1:972:U:H5''	1.42	0.99
4:DC:66:VAL:HG11	4:DC:89:ILE:CD1	1.91	0.99
1:F1:2743:G:H3'	1:F1:2744:C:H5''	1.42	0.99
20:G2:37:A:H4'	20:G2:38:C:OP1	1.56	0.99
1:H1:1617:G:O2'	1:H1:1618:A:OP2	1.80	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3109:C:H3'	10:HK:111:ARG:HH12	1.22	0.99
32:GK:142:GLY:CA	18:HU:173:ARG:NH2	2.24	0.99
1:A1:1004:U:H6	1:A1:1004:U:H5'	1.24	0.99
1:A1:107:A:H4'	1:A1:108:G:OP1	1.61	0.99
1:A1:2100:A:C2'	1:A1:2101:G:H5''	1.91	0.99
2:AA:62:THR:O	50:AA:203:HOH:O	1.77	0.99
1:A1:2717:G:C5'	37:BP:83:ARG:HH22	1.74	0.99
38:BQ:8:ARG:HH11	38:BQ:118:HIS:HB2	1.24	0.99
1:F1:2300:G:H4'	1:F1:2301:C:OP2	1.58	0.99
1:H1:118:A:H4'	1:H1:119:A:O5'	1.59	0.99
1:H1:2362:A:OP2	50:H1:3711:HOH:O	1.79	0.99
1:H1:3182:A:H4'	1:H1:3183:A:OP1	1.63	0.99
4:HC:66:VAL:HG11	4:HC:89:ILE:HD11	0.99	0.99
33:CL:30:TYR:CE2	33:CL:63:ARG:HD3	1.97	0.99
41:CT:35:THR:HG22	41:CT:37:LYS:H	1.25	0.99
1:D1:276:G:H5'	4:DC:47:GLY:HA2	1.44	0.99
1:D1:707:A:OP2	50:D1:4794:HOH:O	1.78	0.99
21:G3:46:C:OP1	34:GM:158:ARG:HG3	1.60	0.99
1:H1:2100:A:C2'	1:H1:2101:G:H5''	1.91	0.99
1:H1:842:A:OP2	50:H1:3805:HOH:O	1.80	0.99
1:A1:2300:G:H4'	1:A1:2301:C:OP2	1.61	0.99
33:BL:30:TYR:CE2	33:BL:63:ARG:HD3	1.97	0.99
33:CL:14:LYS:NZ	1:D1:268:G:H5''	1.76	0.99
1:F1:2717:G:OP1	50:F1:4475:HOH:O	1.78	0.99
1:F1:284:U:H5	1:F1:305:A:H5''	1.23	0.99
21:G3:65:G:OP2	50:G3:318:HOH:O	1.78	0.99
1:A1:1208:U:H5'	19:AX:178:ARG:HH22	1.22	0.99
1:A1:1064:C:H5''	34:BM:5:LYS:HZ2	1.24	0.99
45:BX:42:ASN:HD22	45:BX:45:ARG:H	1.10	0.99
31:EJ:10:GLN:HG3	31:EJ:129:ILE:HG23	1.44	0.99
1:F1:1235:U:H6	10:FK:109:ASN:HD21	1.11	0.99
1:H1:527:A:C2'	1:H1:528:C:H5''	1.93	0.99
6:HF:11:ARG:NH2	6:HF:57:LYS:HA	1.77	0.99
1:A1:452:U:H5'	14:AO:56:GLN:HE22	1.28	0.99
24:EC:395:ASP:OD1	37:EP:154:ARG:NH2	1.95	0.99
1:F1:2666:G:H4'	1:F1:2667:A:OP2	1.62	0.99
20:G2:105:A:H5'	20:G2:106:A:H5''	1.44	0.99
33:GL:2:GLY:N	16:HQ:37:ARG:HH21	1.60	0.99
1:A1:3109:C:H3'	10:AK:111:ARG:HH12	1.16	0.99
6:AF:99:LYS:HD3	30:BI:197:GLY:HA2	1.44	0.99
44:BW:22:ILE:HD13	44:BW:30:ARG:HG2	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:210:HIS:HD2	22:CA:212:HIS:H	1.00	0.99
1:D1:2703:G:O2'	1:D1:2740:G:H2'	1.63	0.99
1:D1:2875:A:OP2	50:D1:4406:HOH:O	1.80	0.99
14:DO:25:THR:HG22	14:DO:27:ASP:H	1.27	0.99
43:EV:218:TYR:HA	43:EV:222:GLY:O	1.63	0.99
38:GQ:99:ASN:O	38:GQ:103:ASN:HB2	1.62	0.99
27:GF:128:GLY:HA2	1:H1:146:U:HO2'	1.28	0.99
1:H1:555:G:H2'	1:H1:556:A:H5''	1.41	0.99
1:A1:2890:A:OP2	50:A1:4589:HOH:O	1.80	0.98
11:DL:76:ARG:NH2	11:DL:84:HIS:HB3	1.78	0.98
1:F1:276:G:H5'	4:FC:47:GLY:HA2	1.43	0.98
44:GW:42:THR:HG22	44:GW:43:MET:HE3	1.42	0.98
1:H1:3177:G:H4'	1:H1:3178:U:OP2	1.63	0.98
1:H1:38:A:O2'	50:H1:3640:HOH:O	1.81	0.98
38:CQ:99:ASN:O	38:CQ:103:ASN:HB2	1.62	0.98
35:CN:92:ARG:NH2	1:D1:809:A:H4'	1.76	0.98
1:H1:1868:C:OP2	50:H1:4112:HOH:O	1.80	0.98
4:HC:66:VAL:HG11	4:HC:89:ILE:CD1	1.93	0.98
1:A1:979:U:H1'	17:AT:12:GLN:NE2	1.78	0.98
21:C3:104:C:H2'	21:C3:105:C:H5''	1.42	0.98
1:D1:622:G:O2'	5:DE:26:THR:O	1.80	0.98
8:DH:64:LYS:HG2	8:DH:69:ASN:ND2	1.76	0.98
1:F1:1054:G:H2'	1:F1:1055:A:C8	1.99	0.98
1:F1:1376:A:H5''	1:F1:1377:A:C5'	1.93	0.98
1:A1:2301:C:N4	1:H1:873:A:C2	2.31	0.98
7:HG:35:ARG:NH1	13:HN:77:LEU:HB2	1.77	0.98
22:BA:210:HIS:HD2	22:BA:212:HIS:H	0.98	0.98
36:BO:119:GLN:HE21	36:BO:150:ILE:HD11	1.25	0.98
34:EM:119:TYR:CD1	34:EM:132:VAL:HG11	1.97	0.98
1:F1:765:A:N7	50:F1:3860:HOH:O	1.94	0.98
29:GH:101:LYS:HB3	29:GH:121:LYS:NZ	1.79	0.98
1:A1:118:A:H4'	1:A1:119:A:O5'	1.63	0.98
1:A1:868:G:H2'	1:A1:869:G:H5'	1.45	0.98
8:DH:54:LYS:HA	8:DH:110:PRO:HG3	1.43	0.98
27:GF:126:LYS:NZ	27:GF:194:THR:OG1	1.97	0.98
1:A1:2816:G:OP1	29:BH:7:ARG:NH2	1.96	0.98
22:BA:62:VAL:HG21	22:BA:77:PHE:HD2	1.27	0.98
1:D1:118:A:H4'	1:D1:119:A:O5'	1.63	0.98
1:D1:2793:G:O6	50:D1:3765:HOH:O	1.81	0.98
43:EV:101:ARG:NH1	1:F1:1131:G:O6	1.95	0.98
45:EX:42:ASN:HD22	45:EX:45:ARG:H	1.08	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:842:A:OP2	50:F1:3889:HOH:O	1.81	0.98
38:EQ:134:ALA:HB2	1:F1:905:G:H5'	1.41	0.98
4:FC:66:VAL:HG11	4:FC:89:ILE:HD11	0.99	0.98
31:GJ:10:GLN:HG3	31:GJ:129:ILE:HG23	1.45	0.98
1:H1:1048:U:H2'	1:H1:1049:U:H5''	1.44	0.98
1:A1:1504:C:OP2	50:A1:4127:HOH:O	1.80	0.98
1:A1:527:A:C2'	1:A1:528:C:H5''	1.93	0.98
12:AM:61:ASP:OD1	12:AM:62:ASP:N	1.97	0.98
1:D1:313:U:OP1	18:DU:100:LYS:NZ	1.97	0.98
1:D1:504:A:HO2'	1:D1:505:A:H8	1.03	0.98
38:EQ:133:ARG:HG3	38:EQ:139:ASN:HD22	1.19	0.98
1:F1:2310:G:P	50:F1:4060:HOH:O	2.19	0.98
18:FU:171:GLU:O	18:FU:174:LYS:HG3	1.64	0.98
19:AX:42:ARG:HH22	19:AX:140:THR:HB	1.29	0.98
1:D1:2666:G:H4'	1:D1:2667:A:OP2	1.62	0.98
23:EB:37:PRO:HA	23:EB:184:GLY:HA2	1.46	0.98
1:F1:2693:A:OP2	50:F1:4676:HOH:O	1.79	0.98
34:GM:119:TYR:CD1	34:GM:132:VAL:HG11	1.97	0.98
1:H1:107:A:H4'	1:H1:108:G:OP1	1.63	0.98
46:GY:7:LYS:HE3	1:H1:1950:C:H2'	1.43	0.98
1:D1:2307:A:H3'	50:D1:4663:HOH:O	1.63	0.98
1:D1:958:A:H3'	1:D1:959:G:H5'	1.42	0.98
45:EX:6:VAL:HG12	45:EX:7:ALA:H	1.26	0.98
1:F1:2415:C:H2'	1:F1:2416:U:H5''	1.45	0.98
33:GL:183:SER:HA	33:GL:191:ASN:ND2	1.77	0.98
33:GL:34:PRO:HG2	33:GL:37:HIS:HB3	1.45	0.98
1:H1:1211:A:P	19:HX:171:ARG:HH22	1.87	0.98
11:HL:76:ARG:NH2	11:HL:84:HIS:HB3	1.79	0.98
1:A1:1654:G:H4'	1:A1:1655:A:OP2	1.61	0.98
18:AU:171:GLU:O	18:AU:174:LYS:HG3	1.62	0.98
1:A1:3047:U:H5	44:BW:65:ASN:OD1	1.46	0.98
1:D1:2684:A:H5''	1:D1:2685:A:OP2	1.64	0.98
21:E3:98:G:OP2	19:FX:66:LYS:NZ	1.97	0.98
19:FX:22:VAL:HG23	19:FX:78:ILE:HD11	1.45	0.98
1:H1:2705:U:O2'	4:HC:79:ARG:NH2	1.95	0.98
1:A1:2128:C:OP1	50:A1:4098:HOH:O	1.82	0.97
38:BQ:133:ARG:HA	50:BQ:307:HOH:O	1.62	0.97
38:CQ:134:ALA:HB2	1:D1:905:G:H5'	1.46	0.97
43:GV:218:TYR:HA	43:GV:222:GLY:O	1.64	0.97
41:BT:35:THR:HG22	41:BT:37:LYS:H	1.27	0.97
31:CJ:10:GLN:HG3	31:CJ:129:ILE:HG23	1.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2902:G:OP2	50:D1:4723:HOH:O	1.81	0.97
1:D1:706:U:OP1	50:D1:4798:HOH:O	1.79	0.97
1:F1:118:A:H4'	1:F1:119:A:O5'	1.61	0.97
1:H1:1920:A:OP2	50:H1:4174:HOH:O	1.80	0.97
1:A1:2209:A:OP2	50:A1:4561:HOH:O	1.82	0.97
1:A1:2906:G:H2'	1:A1:2907:A:H5''	1.43	0.97
22:CA:62:VAL:HG21	22:CA:77:PHE:HD2	1.27	0.97
1:D1:1376:A:H5''	1:D1:1377:A:C5'	1.94	0.97
1:D1:2930:C:OP2	50:D1:4237:HOH:O	1.80	0.97
1:H1:2415:C:H2'	1:H1:2416:U:H5''	1.45	0.97
1:A1:958:A:H3'	1:A1:959:G:H5'	1.43	0.97
1:A1:826:A:OP1	32:BK:27:LYS:NZ	1.96	0.97
38:BQ:99:ASN:O	38:BQ:103:ASN:HB2	1.64	0.97
28:CG:60:UNK:HG1	1:D1:1249:G:H5''	1.44	0.97
1:D1:981:U:OP1	50:D1:4302:HOH:O	1.82	0.97
1:F1:2890:A:OP2	50:F1:4429:HOH:O	1.79	0.97
29:GH:184:LEU:HD22	29:GH:189:LYS:HD3	1.45	0.97
17:HT:16:SER:O	50:HT:205:HOH:O	1.81	0.97
18:HU:171:GLU:O	18:HU:174:LYS:HG3	1.64	0.97
1:A1:268:G:H5''	33:BL:14:LYS:NZ	1.79	0.97
1:D1:2906:G:H2'	1:D1:2907:A:H5''	1.47	0.97
20:E2:39:G:C2	42:EU:90:ARG:NH1	2.32	0.97
1:F1:2252:C:C6	1:F1:2253:U:C5	2.53	0.97
1:F1:2906:G:H2'	1:F1:2907:A:H5''	1.46	0.97
1:F1:3167:U:H4'	1:F1:3168:A:O5'	1.61	0.97
7:AG:40:LYS:HG3	7:AG:93:LEU:O	1.64	0.97
26:EE:1:MET:HG3	26:EE:2:ARG:N	1.72	0.97
34:EM:2:GLY:N	1:F1:1042:U:O2	1.97	0.97
1:F1:38:A:O2'	50:F1:3661:HOH:O	1.81	0.97
23:GB:111:ASP:O	23:GB:114:THR:HG22	1.63	0.97
1:H1:1654:G:H4'	1:H1:1655:A:OP2	1.62	0.97
1:H1:276:G:H5'	4:HC:47:GLY:HA2	1.45	0.97
5:AE:55:ALA:HB2	8:AH:109:TYR:HE1	1.30	0.97
44:CW:42:THR:HG22	44:CW:43:MET:HE3	1.43	0.97
1:D1:1798:U:O4	50:D1:4879:HOH:O	1.81	0.97
1:F1:2905:G:OP1	50:F1:4352:HOH:O	1.81	0.97
18:AU:60:THR:HG23	32:BK:68:ASN:HB3	1.44	0.97
1:A1:972:U:H5''	45:BX:57:ILE:HG13	1.47	0.97
1:D1:3185:G:C8	8:DH:11:PRO:HD3	1.98	0.97
29:EH:101:LYS:HB3	29:EH:121:LYS:NZ	1.79	0.97
4:FC:66:VAL:HG11	4:FC:89:ILE:CD1	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:G3:1:G:N3	34:GM:274:HIS:NE2	2.10	0.97
1:D1:1027:G:O2'	1:D1:1028:A:OP2	1.81	0.97
1:F1:2703:G:O2'	1:F1:2740:G:H2'	1.64	0.97
1:F1:527:A:C2'	1:F1:528:C:H5''	1.95	0.97
1:H1:2703:G:O2'	1:H1:2740:G:H2'	1.64	0.97
32:GK:99:VAL:HB	18:HU:169:ILE:HD11	1.45	0.97
1:A1:2952:G:N7	50:A1:4178:HOH:O	1.96	0.97
1:A1:3182:A:H4'	1:A1:3183:A:OP1	1.64	0.97
45:BX:6:VAL:HG12	45:BX:7:ALA:H	1.29	0.97
27:CF:126:LYS:NZ	27:CF:194:THR:OG1	1.96	0.97
45:CX:6:VAL:HG12	45:CX:7:ALA:H	1.30	0.97
1:F1:107:A:H4'	1:F1:108:G:OP1	1.60	0.97
43:EV:208:ARG:NH2	1:F1:1354:C:OP1	1.98	0.97
43:GV:133:PHE:CZ	43:GV:226:ASN:HB3	1.99	0.97
1:H1:332:G:H2'	1:H1:333:G:H5''	1.46	0.97
5:AE:89:ARG:NH2	5:AE:114:ASP:OD1	1.98	0.96
27:CF:122:PRO:HG2	1:D1:119:A:C2	2.00	0.96
1:D1:2862:G:O6	1:D1:2933:G:H2'	1.64	0.96
5:DE:41:LEU:HB3	5:DE:45:ILE:HG21	1.47	0.96
5:DE:89:ARG:NH2	5:DE:114:ASP:OD1	1.98	0.96
1:F1:1211:A:P	19:FX:171:ARG:HH22	1.87	0.96
1:F1:3177:G:H4'	1:F1:3178:U:OP2	1.60	0.96
1:F1:3227:A:H5''	5:FE:57:ARG:HH12	1.26	0.96
1:H1:3227:A:C5'	5:HE:57:ARG:HH12	1.78	0.96
15:HP:43:LYS:HD3	15:HP:52:THR:HG23	1.47	0.96
19:DX:175:LYS:HZ2	19:DX:178:ARG:HH11	1.13	0.96
37:EP:116:LYS:HZ1	37:EP:128:THR:HB	1.30	0.96
43:EV:133:PHE:CZ	43:EV:226:ASN:HB3	1.99	0.96
20:B2:112:G:H4'	20:B2:113:U:OP1	1.63	0.96
44:CW:10:ASP:OD1	44:CW:108:THR:HG22	1.65	0.96
1:D1:1051:C:H2'	1:D1:1052:A:O4'	1.63	0.96
19:DX:22:VAL:CG2	19:DX:78:ILE:HD11	1.95	0.96
1:F1:313:U:OP1	18:FU:100:LYS:NZ	1.97	0.96
7:FG:13:LYS:HD2	7:FG:100:ILE:CD1	1.95	0.96
32:GK:68:ASN:HB3	18:HU:60:THR:CG2	1.94	0.96
43:GV:100:LEU:HD21	43:GV:127:VAL:HG11	1.47	0.96
1:H1:971:C:C2'	1:H1:972:U:H5'	1.95	0.96
1:A1:1617:G:O2'	1:A1:1618:A:OP2	1.79	0.96
1:A1:281:G:H5''	1:A1:282:G:OP1	1.66	0.96
1:A1:655:A:N3	8:AH:97:PRO:HG3	1.80	0.96
31:BJ:10:GLN:HG3	31:BJ:129:ILE:HG23	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:183:SER:HA	33:BL:191:ASN:ND2	1.79	0.96
1:D1:1442:G:OP1	50:D1:3894:HOH:O	1.82	0.96
1:D1:146:U:H4'	1:D1:147:U:H5'	1.47	0.96
7:DG:13:LYS:HD2	7:DG:100:ILE:CD1	1.95	0.96
1:F1:1517:G:OP2	50:F1:4258:HOH:O	1.82	0.96
1:F1:2651:A:N7	50:F1:4674:HOH:O	1.99	0.96
1:F1:3008:U:O4	50:F1:4439:HOH:O	1.82	0.96
21:G3:98:G:OP2	19:HX:66:LYS:NZ	1.97	0.96
45:GX:42:ASN:HD22	45:GX:45:ARG:H	1.04	0.96
1:H1:351:A:H4'	1:H1:352:G:OP1	1.61	0.96
1:D1:1084:G:C2'	1:D1:1085:G:H5''	1.95	0.96
1:D1:1777:A:OP2	50:D1:4880:HOH:O	1.81	0.96
1:D1:527:A:C2'	1:D1:528:C:H5''	1.95	0.96
19:DX:188:THR:O	19:DX:189:PHE:CG	2.19	0.96
1:F1:146:U:H4'	1:F1:147:U:H5'	1.47	0.96
1:F1:2252:C:H6	1:F1:2252:C:O5'	1.48	0.96
7:HG:13:LYS:HD2	7:HG:100:ILE:CD1	1.94	0.96
8:HH:58:TYR:HD1	8:HH:104:LEU:HD21	1.31	0.96
8:HH:54:LYS:HA	8:HH:110:PRO:HG3	1.44	0.96
1:A1:1920:A:OP2	50:A1:4463:HOH:O	1.84	0.96
1:A1:1308:U:C5'	28:BG:58:UNK:HB2	1.94	0.96
26:CE:124:ILE:HD13	26:CE:159:ILE:HA	1.48	0.96
14:FO:25:THR:HG22	14:FO:27:ASP:H	1.26	0.96
22:GA:78:ILE:HD11	22:GA:129:ARG:HD3	1.44	0.96
26:GE:124:ILE:HD13	26:GE:159:ILE:HA	1.47	0.96
1:A1:1084:G:C2'	1:A1:1085:G:H5''	1.95	0.96
1:A1:439:A:H5''	5:AE:126:HIS:ND1	1.81	0.96
44:CW:22:ILE:HD13	44:CW:30:ARG:HG2	1.48	0.96
24:EC:376:TRP:HD1	1:F1:564:A:H1'	0.79	0.96
34:EM:5:LYS:HD3	1:F1:1064:C:H5'	1.46	0.96
1:F1:284:U:H1'	50:F1:3728:HOH:O	1.66	0.96
1:F1:655:A:N3	8:FH:97:PRO:HG3	1.81	0.96
11:FL:76:ARG:NH2	11:FL:84:HIS:HB3	1.80	0.96
19:FX:188:THR:O	19:FX:189:PHE:CG	2.19	0.96
33:GL:30:TYR:CE2	33:GL:63:ARG:HD3	2.01	0.96
36:GO:104:ARG:NH1	1:H1:1973:A:OP1	1.97	0.96
1:H1:2639:C:H5'	1:H1:2640:G:OP2	1.65	0.96
9:HJ:118:HIS:CE1	9:HJ:146:VAL:HB	2.01	0.96
18:HU:53:GLN:O	18:HU:113:ARG:NH1	1.98	0.96
1:A1:2573:U:H4'	27:BF:232:GLN:NE2	1.80	0.96
1:A1:2639:C:H5'	1:A1:2640:G:OP2	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:66:VAL:HG11	4:AC:89:ILE:CD1	1.95	0.96
1:A1:1710:U:OP1	12:AM:44:LYS:NZ	1.99	0.96
1:A1:2589:U:OP1	33:BL:93:LYS:NZ	1.99	0.96
22:CA:78:ILE:HD11	22:CA:129:ARG:HD3	1.48	0.96
29:CH:184:LEU:HD22	29:CH:189:LYS:HD3	1.48	0.96
37:CP:83:ARG:HH22	1:D1:2717:G:C5'	1.78	0.96
1:D1:1477:C:OP1	50:D1:4244:HOH:O	1.83	0.96
1:D1:2390:G:C8	50:D1:4151:HOH:O	2.15	0.96
1:D1:987:A:O2'	50:D1:4784:HOH:O	1.82	0.96
20:E2:112:G:H4'	20:E2:113:U:OP1	1.62	0.96
20:E2:2:G:O6	1:F1:3132:A:O2'	1.80	0.96
33:EL:30:TYR:CE2	33:EL:63:ARG:HD3	2.01	0.96
1:H1:2684:A:H5''	1:H1:2685:A:OP2	1.64	0.96
1:H1:2743:G:H3'	1:H1:2744:C:H5''	1.43	0.96
11:HL:91:ILE:HG12	13:HN:144:PHE:HE2	1.31	0.96
13:HN:4:PHE:HD1	13:HN:4:PHE:N	1.60	0.96
43:BV:133:PHE:CZ	43:BV:226:ASN:HB3	2.01	0.96
33:CL:183:SER:HA	33:CL:191:ASN:ND2	1.81	0.96
1:D1:2602:U:O4	50:D1:3768:HOH:O	1.83	0.96
1:F1:2261:U:O4	50:F1:4389:HOH:O	1.81	0.96
1:H1:2109:G:O6	50:H1:4243:HOH:O	1.84	0.96
1:H1:2544:U:C1'	7:HG:50:THR:HG21	1.96	0.96
1:A1:1840:U:H4'	1:A1:1841:A:O5'	1.66	0.96
1:A1:2405:U:OP2	50:A1:3771:HOH:O	1.83	0.96
1:A1:2862:G:O6	1:A1:2933:G:H2'	1.66	0.96
1:A1:548:G:H22	1:A1:619:G:N2	1.62	0.96
23:BB:16:PHE:CD2	23:BB:273:ARG:NH1	2.34	0.96
29:BH:184:LEU:HD22	29:BH:189:LYS:HD3	1.46	0.96
38:BQ:34:VAL:HG22	38:BQ:60:ILE:HD13	1.47	0.96
1:D1:1906:G:N7	50:D1:4469:HOH:O	1.98	0.96
1:D1:3207:A:H4'	1:D1:3207:A:OP1	1.60	0.96
33:CL:2:GLY:N	16:DQ:37:ARG:NH2	2.13	0.96
1:F1:2239:A:OP2	50:F1:4078:HOH:O	1.83	0.96
1:F1:832:A:H2	1:F1:2406:U:HO2'	1.09	0.96
19:FX:22:VAL:CG2	19:FX:78:ILE:HD11	1.96	0.96
1:H1:2411:U:OP1	50:H1:3822:HOH:O	1.84	0.96
5:HE:89:ARG:NH2	5:HE:114:ASP:OD1	1.98	0.96
11:DL:91:ILE:HG12	13:DN:144:PHE:HE2	1.29	0.95
45:GX:42:ASN:ND2	45:GX:45:ARG:H	1.62	0.95
1:H1:3227:A:H1'	5:HE:86:PRO:HG3	1.48	0.95
1:H1:655:A:N3	8:HH:97:PRO:HG3	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HG:40:LYS:HG3	7:HG:93:LEU:O	1.65	0.95
8:AH:13:ARG:NH2	8:AH:17:LYS:HG2	1.80	0.95
8:AH:58:TYR:HD1	8:AH:104:LEU:HD21	1.31	0.95
35:BN:155:ALA:HB3	35:BN:158:GLN:NE2	1.81	0.95
1:D1:1642:G:C2'	1:D1:1643:G:H5''	1.97	0.95
1:F1:1016:U:H2'	1:F1:1017:U:H5''	1.48	0.95
1:H1:282:G:H22	1:H1:304:U:C4'	1.78	0.95
1:A1:846:C:H2'	1:A1:847:G:H5''	1.49	0.95
32:CK:60:MET:O	35:CN:172:ARG:NH1	2.00	0.95
1:D1:1752:G:H5'	1:D1:1754:G:H5''	1.47	0.95
1:D1:2576:C:H2'	1:D1:2577:G:H5'	1.46	0.95
21:E3:26:C:OP1	34:EM:56:THR:HG21	1.65	0.95
1:F1:1617:G:O2'	1:F1:1618:A:OP2	1.84	0.95
5:FE:89:ARG:NH2	5:FE:114:ASP:OD1	1.98	0.95
27:GF:128:GLY:HA2	1:H1:146:U:O2'	1.65	0.95
1:H1:2273:C:H2'	1:H1:2274:A:H5''	1.48	0.95
1:H1:957:U:H4'	1:H1:958:A:C5'	1.97	0.95
20:C2:112:G:H4'	20:C2:113:U:OP1	1.66	0.95
23:CB:37:PRO:HA	23:CB:184:GLY:HA2	1.47	0.95
1:D1:3227:A:C5'	5:DE:57:ARG:HH12	1.80	0.95
22:EA:78:ILE:HD11	22:EA:129:ARG:HD3	1.47	0.95
1:F1:2862:G:O6	1:F1:2933:G:H2'	1.66	0.95
1:H1:1840:U:H4'	1:H1:1841:A:O5'	1.66	0.95
1:H1:2576:C:H2'	1:H1:2577:G:H5'	1.48	0.95
12:HM:61:ASP:OD1	12:HM:62:ASP:N	1.99	0.95
1:A1:971:C:C2'	1:A1:972:U:H5'	1.97	0.95
23:BB:24:HIS:CE1	23:BB:28:ARG:HH11	1.85	0.95
26:EE:124:ILE:HD13	26:EE:159:ILE:HA	1.48	0.95
1:F1:1208:U:H5'	19:FX:178:ARG:NH2	1.80	0.95
7:FG:95:ALA:HB3	7:FG:101:LEU:HD11	1.48	0.95
27:GF:41:LEU:HD21	1:H1:2519:A:N3	1.80	0.95
1:H1:2294:A:OP2	50:H1:4201:HOH:O	1.84	0.95
19:HX:22:VAL:CG2	19:HX:78:ILE:HD11	1.96	0.95
5:AE:41:LEU:HB3	5:AE:45:ILE:HG21	1.47	0.95
19:AX:22:VAL:CG2	19:AX:78:ILE:HD11	1.96	0.95
20:C2:100:C:OP2	39:CR:56:ARG:NH2	1.99	0.95
1:D1:107:A:H4'	1:D1:108:G:OP1	1.63	0.95
1:F1:282:G:H22	1:F1:304:U:C4'	1.79	0.95
24:GC:82:PRO:HB2	24:GC:96:ALA:HB3	1.48	0.95
1:H1:842:A:C8	2:HA:15:THR:HG23	2.02	0.95
11:AL:41:TYR:HB3	11:AL:58:GLN:NE2	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DG:40:LYS:HG3	7:DG:93:LEU:O	1.65	0.95
44:EW:42:THR:HG22	44:EW:43:MET:HE3	1.48	0.95
1:F1:1183:C:OP1	50:F1:3815:HOH:O	1.83	0.95
1:F1:1654:G:H4'	1:F1:1655:A:OP2	1.63	0.95
1:F1:957:U:C4'	1:F1:958:A:H5'	1.97	0.95
44:GW:22:ILE:HD13	44:GW:30:ARG:HG2	1.48	0.95
1:A1:1051:C:H2'	1:A1:1052:A:O4'	1.65	0.95
1:A1:1101:U:H5'	17:AT:49:ASN:HD22	1.32	0.95
1:A1:127:A:OP2	50:A1:3814:HOH:O	1.84	0.95
29:BH:159:PHE:HB3	29:BH:163:GLN:HE22	1.29	0.95
1:H1:1752:G:H5'	1:H1:1754:G:H5''	1.46	0.95
1:H1:2242:G:O2'	1:H1:2265:A:N6	2.00	0.95
33:GL:182:LYS:NZ	1:H1:280:G:O6	2.00	0.95
1:H1:957:U:C4'	1:H1:958:A:H5'	1.96	0.95
14:HO:25:THR:HG22	14:HO:27:ASP:H	1.28	0.95
1:A1:2101:G:N7	50:A1:4513:HOH:O	1.98	0.95
19:AX:22:VAL:HG23	19:AX:78:ILE:HD11	1.48	0.95
21:B3:13:A:N3	34:BM:24:ARG:NH2	2.13	0.95
1:D1:971:C:C2'	1:D1:972:U:H5'	1.97	0.95
9:DJ:118:HIS:CE1	9:DJ:146:VAL:HB	2.02	0.95
41:ET:35:THR:HG22	41:ET:37:LYS:H	1.30	0.95
1:H1:1051:C:H2'	1:H1:1052:A:O4'	1.66	0.95
1:A1:2684:A:H5''	1:A1:2685:A:OP2	1.67	0.95
1:A1:624:G:O2'	1:A1:625:C:O5'	1.85	0.95
5:AE:41:LEU:HG	5:AE:68:GLN:OE1	1.67	0.95
43:CV:218:TYR:HA	43:CV:222:GLY:O	1.65	0.95
1:D1:2639:C:H5'	1:D1:2640:G:OP2	1.66	0.95
1:D1:351:A:H4'	1:D1:352:G:OP1	1.65	0.95
38:EQ:33:GLU:OE1	38:EQ:62:PHE:HA	1.66	0.95
1:F1:1084:G:C2'	1:F1:1085:G:H5''	1.97	0.95
1:F1:2273:C:H2'	1:F1:2274:A:H5''	1.48	0.95
42:EU:123:LYS:NZ	18:FU:144:SER:HB2	1.82	0.95
23:GB:162:THR:O	23:GB:174:ASN:HB3	1.67	0.95
45:CX:42:ASN:ND2	45:CX:45:ARG:H	1.64	0.94
1:D1:2899:C:OP1	50:D1:4561:HOH:O	1.84	0.94
1:F1:2239:A:P	50:F1:4078:HOH:O	2.24	0.94
1:F1:2744:C:OP2	50:F1:4484:HOH:O	1.83	0.94
1:H1:1059:U:C2'	1:H1:1060:C:H5''	1.96	0.94
18:DU:171:GLU:O	18:DU:174:LYS:HG3	1.65	0.94
22:EA:114:VAL:HG11	22:EA:165:ALA:HB1	1.48	0.94
1:F1:1642:G:C2'	1:F1:1643:G:H5''	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:452:U:C5'	14:FO:56:GLN:HE22	1.80	0.94
1:F1:2544:U:H1'	7:FG:50:THR:HG21	0.97	0.94
30:GI:196:PHE:CE2	6:HF:110:ARG:HD2	2.01	0.94
1:H1:265:A:N6	16:HQ:30:ARG:O	2.00	0.94
22:BA:78:ILE:HD11	22:BA:129:ARG:HD3	1.45	0.94
23:BB:62:ARG:HG3	23:BB:62:ARG:HH11	1.33	0.94
35:CN:158:GLN:OE1	50:CN:307:HOH:O	1.83	0.94
1:D1:2408:A:O2'	50:D1:4292:HOH:O	1.86	0.94
1:F1:2349:C:N4	50:F1:4403:HOH:O	1.99	0.94
1:F1:3182:A:H4'	1:F1:3183:A:OP1	1.64	0.94
1:H1:2906:G:H2'	1:H1:2907:A:H5''	1.48	0.94
1:A1:1208:U:H5'	19:AX:178:ARG:NH2	1.81	0.94
1:D1:2128:C:OP1	50:D1:4190:HOH:O	1.85	0.94
1:D1:2365:G:N7	50:D1:3989:HOH:O	2.00	0.94
1:F1:2684:A:H5''	1:F1:2685:A:OP2	1.67	0.94
11:AL:76:ARG:NH2	11:AL:84:HIS:HB3	1.82	0.94
25:BD:26:SER:OG	25:BD:63:GLU:OE2	1.84	0.94
29:CH:101:LYS:HB3	29:CH:121:LYS:NZ	1.83	0.94
1:D1:3182:A:H4'	1:D1:3183:A:OP1	1.64	0.94
8:DH:58:TYR:HD1	8:DH:104:LEU:HD21	1.31	0.94
33:EL:182:LYS:HE3	1:F1:97:A:O2'	1.65	0.94
38:EQ:34:VAL:HG22	38:EQ:60:ILE:HD13	1.48	0.94
38:EQ:99:ASN:O	38:EQ:103:ASN:HB2	1.66	0.94
1:F1:971:C:C2'	1:F1:972:U:H5'	1.97	0.94
5:FE:54:LEU:O	5:FE:59:ARG:HB2	1.66	0.94
37:GP:83:ARG:HH22	1:H1:2717:G:C5'	1.79	0.94
38:GQ:33:GLU:OE1	38:GQ:62:PHE:HA	1.68	0.94
2:HA:28:HIS:HD2	2:HA:31:LYS:H	1.14	0.94
1:A1:2394:A:OP2	50:A1:4261:HOH:O	1.84	0.94
1:A1:905:G:C5'	38:BQ:134:ALA:HB2	1.98	0.94
7:AG:95:ALA:HB3	7:AG:101:LEU:HD11	1.47	0.94
18:AU:56:VAL:HG12	18:AU:57:ARG:N	1.82	0.94
19:AX:188:THR:O	19:AX:189:PHE:CG	2.19	0.94
1:D1:2250:A:OP1	46:EY:74:PRO:HB3	1.66	0.94
21:E3:21:G:H4'	34:EM:277:PHE:CD2	2.02	0.94
7:FG:40:LYS:HG3	7:FG:93:LEU:O	1.66	0.94
8:FH:13:ARG:NH2	8:FH:17:LYS:HG2	1.83	0.94
8:FH:49:ALA:O	8:FH:52:GLN:HG3	1.66	0.94
1:H1:750:G:C2'	1:H1:751:C:H5''	1.98	0.94
1:A1:2273:C:H2'	1:A1:2274:A:H5''	1.49	0.94
15:AP:43:LYS:HD3	15:AP:52:THR:HG23	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CP:116:LYS:HZ1	37:CP:128:THR:HB	1.32	0.94
1:D1:70:C:H2'	1:D1:70:C:O2	1.68	0.94
46:EY:7:LYS:HE3	1:F1:1950:C:H2'	1.49	0.94
37:EP:83:ARG:HH22	1:F1:2717:G:H5''	1.28	0.94
12:FM:61:ASP:OD1	12:FM:62:ASP:N	2.00	0.94
15:FP:43:LYS:HD3	15:FP:52:THR:HG23	1.50	0.94
33:GL:182:LYS:HE3	1:H1:97:A:O2'	1.68	0.94
37:GP:13:LYS:HD2	1:H1:1020:G:H3'	1.50	0.94
46:GY:7:LYS:HG3	1:H1:1950:C:H3'	1.47	0.94
1:H1:2310:G:OP1	50:H1:3958:HOH:O	1.83	0.94
1:H1:3207:A:H4'	1:H1:3207:A:OP1	1.64	0.94
1:A1:3228:U:C4'	1:A1:3229:C:H5'	1.98	0.94
23:BB:162:THR:O	23:BB:174:ASN:HB3	1.66	0.94
24:BC:65:MET:HE1	24:BC:97:PHE:HB2	1.49	0.94
38:CQ:33:GLU:OE1	38:CQ:62:PHE:HA	1.67	0.94
43:EV:12:LYS:HE2	1:F1:1376:A:H3'	1.46	0.94
1:D1:1047:G:P	13:FN:3:LYS:NZ	2.41	0.94
1:A1:70:C:H2'	1:A1:70:C:O2	1.65	0.94
1:D1:1895:U:H5'	50:D1:4214:HOH:O	1.66	0.94
1:D1:842:A:C8	2:DA:15:THR:HG23	2.03	0.94
1:F1:3227:A:H5''	5:FE:57:ARG:NH1	1.82	0.94
1:F1:70:C:H2'	1:F1:70:C:O2	1.66	0.94
23:GB:37:PRO:HA	23:GB:184:GLY:HA2	1.48	0.94
35:GN:155:ALA:HB3	35:GN:158:GLN:NE2	1.83	0.94
1:A1:2839:A:OP1	50:A1:4220:HOH:O	1.85	0.94
1:A1:2717:G:H5''	37:BP:83:ARG:NH2	1.80	0.94
46:BY:64:ILE:HD11	46:BY:71:LEU:HD11	1.46	0.94
22:CA:114:VAL:HG11	22:CA:165:ALA:HB1	1.49	0.94
1:D1:281:G:H5''	1:D1:282:G:OP1	1.65	0.94
1:D1:3227:A:H5''	5:DE:57:ARG:HH12	1.31	0.94
23:EB:24:HIS:CE1	23:EB:28:ARG:HH11	1.84	0.94
1:F1:2639:C:H5'	1:F1:2640:G:OP2	1.68	0.94
1:F1:2964:A:N1	50:F1:4070:HOH:O	2.01	0.94
1:F1:3228:U:C4'	1:F1:3229:C:H5'	1.97	0.94
1:F1:1101:U:H5'	17:FT:49:ASN:HD22	1.33	0.94
24:GC:204:ARG:NH1	1:H1:1408:U:OP1	1.99	0.94
2:HA:44:MET:HE2	2:HA:44:MET:HA	1.48	0.94
1:A1:787:U:O2	18:AU:179:ARG:NH2	2.00	0.94
32:BK:122:PRO:HA	32:BK:142:GLY:O	1.67	0.94
18:AU:60:THR:CG2	32:BK:68:ASN:HB3	1.97	0.94
1:D1:2273:C:H2'	1:D1:2274:A:H5''	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2715:C:OP1	50:D1:4299:HOH:O	1.86	0.94
1:D1:635:A:O2'	1:D1:636:U:O5'	1.86	0.94
24:EC:229:ASN:HD21	1:F1:211:A:H3'	1.33	0.94
1:F1:2244:G:H2'	1:F1:2245:G:H8	1.31	0.94
1:F1:351:A:H4'	1:F1:352:G:OP1	1.67	0.94
20:G2:112:G:H4'	20:G2:113:U:OP1	1.65	0.94
30:GI:186:LEU:HD11	6:HF:122:SER:HB3	1.47	0.94
8:HH:56:VAL:HG22	8:HH:106:VAL:HA	1.51	0.94
12:HM:51:ASN:O	12:HM:51:ASN:ND2	2.01	0.94
27:CF:128:GLY:HA2	1:D1:146:U:O2'	1.68	0.93
1:D1:3228:U:C4'	1:D1:3229:C:H5'	1.97	0.93
5:DE:54:LEU:O	5:DE:59:ARG:HB2	1.68	0.93
43:EV:100:LEU:HD21	43:EV:127:VAL:HG11	1.48	0.93
22:GA:42:ILE:HD12	22:GA:43:ARG:N	1.82	0.93
19:HX:188:THR:O	19:HX:189:PHE:CG	2.21	0.93
18:DU:56:VAL:HG12	18:DU:57:ARG:N	1.84	0.93
1:D1:1211:A:P	19:DX:171:ARG:HH22	1.90	0.93
29:EH:184:LEU:HD22	29:EH:189:LYS:HD3	1.47	0.93
1:F1:2693:A:OP2	50:F1:4673:HOH:O	1.86	0.93
5:FE:41:LEU:HB3	5:FE:45:ILE:HG21	1.47	0.93
18:FU:53:GLN:O	18:FU:113:ARG:NH1	2.01	0.93
41:GT:5:THR:HG21	41:GT:14:ARG:HG3	1.50	0.93
1:H1:2859:G:N7	50:H1:4081:HOH:O	2.00	0.93
45:GX:57:ILE:HG13	1:H1:972:U:H5''	1.47	0.93
1:A1:698:G:OP1	24:BC:34:ARG:NH1	2.00	0.93
33:EL:93:LYS:HE2	1:F1:276:G:H1'	1.51	0.93
1:F1:2958:C:H4'	1:F1:2959:A:N7	1.84	0.93
1:F1:452:U:H5'	14:FO:56:GLN:HE22	1.10	0.93
1:F1:729:A:O2'	1:F1:810:G:N2	2.01	0.93
1:F1:1101:U:H5'	17:FT:49:ASN:ND2	1.83	0.93
1:H1:70:C:O2	1:H1:70:C:H2'	1.65	0.93
11:HL:41:TYR:HB3	11:HL:58:GLN:NE2	1.83	0.93
1:A1:2334:C:H4'	1:A1:2335:U:OP1	1.69	0.93
1:A1:2693:A:OP2	50:A1:4831:HOH:O	1.86	0.93
1:A1:696:A:C2'	1:A1:697:A:H5''	1.99	0.93
7:AG:35:ARG:NH1	13:AN:77:LEU:HB2	1.83	0.93
21:C3:83:G:OP1	50:C3:303:HOH:O	1.86	0.93
1:D1:904:U:O2'	1:D1:905:G:P	2.26	0.93
1:F1:1840:U:H4'	1:F1:1841:A:O5'	1.66	0.93
1:F1:2408:A:N7	50:F1:3666:HOH:O	2.00	0.93
1:H1:2353:C:N3	50:H1:4085:HOH:O	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:114:A:C4'	16:AQ:37:ARG:HH22	1.82	0.93
1:D1:1923:G:O6	50:D1:4597:HOH:O	1.85	0.93
1:D1:282:G:H22	1:D1:304:U:C4'	1.81	0.93
1:D1:3109:C:H3'	10:DK:111:ARG:HH12	1.17	0.93
1:D1:452:U:H5'	14:DO:56:GLN:HE22	1.20	0.93
1:D1:962:G:O2'	50:D1:4786:HOH:O	1.85	0.93
12:DM:61:ASP:OD1	12:DM:62:ASP:N	1.99	0.93
15:DP:43:LYS:HD3	15:DP:52:THR:HG23	1.48	0.93
27:EF:126:LYS:NZ	27:EF:194:THR:OG1	2.01	0.93
9:FJ:118:HIS:CE1	9:FJ:146:VAL:HB	2.04	0.93
22:GA:114:VAL:HG11	22:GA:165:ALA:HB1	1.47	0.93
1:H1:682:G:OP2	50:H1:3688:HOH:O	1.84	0.93
19:AX:30:ILE:HD11	37:BP:139:VAL:HG21	1.46	0.93
1:A1:941:G:C6	22:BA:208:VAL:HG21	2.02	0.93
43:CV:133:PHE:CZ	43:CV:226:ASN:HB3	2.03	0.93
1:D1:1016:U:H2'	1:D1:1017:U:H5''	1.50	0.93
1:D1:1863:A:OP1	50:D1:4491:HOH:O	1.86	0.93
32:CK:59:GLY:O	1:D1:2775:G:H4'	1.66	0.93
11:DL:91:ILE:HG12	13:DN:144:PHE:CE2	2.04	0.93
19:DX:22:VAL:HG23	19:DX:78:ILE:HD11	1.49	0.93
22:EA:218:GLN:O	50:EA:302:HOH:O	1.84	0.93
33:EL:93:LYS:NZ	1:F1:2589:U:OP1	2.02	0.93
35:EN:90:ASP:OD1	35:EN:92:ARG:HG2	1.68	0.93
33:EL:14:LYS:HZ1	1:F1:268:G:H5''	1.33	0.93
29:EH:7:ARG:NH2	1:F1:2816:G:OP1	2.02	0.93
1:F1:2999:U:O4	50:F1:4505:HOH:O	1.85	0.93
1:F1:846:C:H2'	1:F1:847:G:H5''	1.50	0.93
1:F1:957:U:H4'	1:F1:958:A:C5'	1.98	0.93
9:FJ:187:ASN:HD21	9:FJ:207:GLY:HA3	1.34	0.93
15:FP:12:MET:HA	15:FP:15:TRP:NE1	1.84	0.93
1:H1:1054:G:H2'	1:H1:1055:A:H8	1.33	0.93
1:A1:3277:A:H4'	1:A1:3278:U:OP2	1.68	0.93
23:BB:37:PRO:HA	23:BB:184:GLY:HA2	1.48	0.93
43:CV:100:LEU:HD21	43:CV:127:VAL:HG11	1.49	0.93
1:D1:2543:C:H5'	1:D1:2544:U:OP2	1.69	0.93
45:CX:43:ARG:NH1	1:D1:662:C:OP2	2.02	0.93
1:F1:281:G:H5''	1:F1:282:G:OP1	1.69	0.93
1:F1:2933:G:O2'	1:F1:2936:C:OP2	1.87	0.93
22:GA:210:HIS:HD2	22:GA:212:HIS:H	0.96	0.93
22:GA:49:ILE:HD12	46:GY:63:ILE:HG22	1.50	0.93
27:GF:232:GLN:NE2	1:H1:2573:U:H4'	1.84	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:229:ASN:HD21	1:H1:211:A:H3'	1.30	0.93
1:H1:2310:G:OP1	50:H1:3964:HOH:O	1.84	0.93
8:HH:49:ALA:O	8:HH:52:GLN:HG3	1.67	0.93
9:AJ:140:THR:HG22	9:AJ:141:THR:H	1.31	0.93
38:BQ:33:GLU:OE1	38:BQ:62:PHE:HA	1.69	0.93
32:CK:27:LYS:NZ	1:D1:826:A:OP1	1.99	0.93
1:D1:1059:U:C2'	1:D1:1060:C:H5''	1.98	0.93
23:EB:111:ASP:O	23:EB:114:THR:HG22	1.67	0.93
24:EC:204:ARG:NH1	1:F1:1408:U:OP1	2.02	0.93
1:H1:1208:U:H5'	19:HX:178:ARG:NH2	1.82	0.93
1:H1:146:U:H4'	1:H1:147:U:H5'	1.48	0.93
15:HP:12:MET:HA	15:HP:15:TRP:NE1	1.84	0.93
1:A1:1011:U:OP1	50:A1:4235:HOH:O	1.85	0.93
1:A1:1016:U:H2'	1:A1:1017:U:H5''	1.51	0.93
1:A1:1833:G:O6	50:A1:4418:HOH:O	1.86	0.93
1:A1:2390:G:C8	50:A1:4062:HOH:O	2.22	0.93
7:AG:13:LYS:HD2	7:AG:100:ILE:CD1	1.99	0.93
41:BT:5:THR:HG21	41:BT:14:ARG:HG3	1.51	0.93
23:CB:62:ARG:HG3	23:CB:62:ARG:HH11	1.34	0.93
1:D1:2651:A:N7	50:D1:5039:HOH:O	2.00	0.93
33:EL:14:LYS:NZ	1:F1:268:G:H5''	1.84	0.93
37:GP:83:ARG:HH22	1:H1:2717:G:H5''	1.28	0.93
5:HE:41:LEU:HB3	5:HE:45:ILE:HG21	1.47	0.93
1:A1:146:U:H4'	1:A1:147:U:H5'	1.48	0.93
1:A1:332:G:H2'	1:A1:333:G:H5''	1.49	0.93
19:AX:175:LYS:HZ2	19:AX:178:ARG:HH11	1.12	0.93
37:CP:83:ARG:NH2	1:D1:2717:G:H5''	1.84	0.93
44:CW:65:ASN:OD1	1:D1:3047:U:H5	1.51	0.93
22:EA:42:ILE:HD12	22:EA:43:ARG:N	1.84	0.93
1:H1:1376:A:H5''	1:H1:1377:A:C5'	1.98	0.93
1:H1:3227:A:H5''	5:HE:57:ARG:HH12	1.32	0.93
1:A1:2573:U:C4'	27:BF:232:GLN:HE22	1.81	0.92
1:A1:268:G:H5''	33:BL:14:LYS:HZ1	1.28	0.92
1:D1:1710:U:OP1	12:DM:44:LYS:NZ	2.02	0.92
24:EC:65:MET:HE1	24:EC:97:PHE:HB2	1.52	0.92
1:F1:2518:A:H4'	1:F1:2519:A:OP2	1.69	0.92
1:F1:443:G:OP1	5:FE:16:SER:OG	1.86	0.92
8:FH:58:TYR:HD1	8:FH:104:LEU:HD21	1.33	0.92
32:GK:59:GLY:O	1:H1:2775:G:H4'	1.68	0.92
1:H1:3167:U:H4'	1:H1:3168:A:O5'	1.65	0.92
9:HJ:160:LEU:HG	9:HJ:193:ILE:HD13	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BE:124:ILE:HD13	26:BE:159:ILE:HA	1.49	0.92
20:B2:147:G:H21	27:BF:54:GLN:HE22	1.14	0.92
24:CC:119:ARG:NH2	1:D1:704:G:O2'	2.02	0.92
1:D1:455:G:OP2	14:DO:92:LYS:NZ	2.00	0.92
23:EB:16:PHE:CD2	23:EB:273:ARG:NH1	2.37	0.92
2:FA:28:HIS:HD2	2:FA:31:LYS:H	1.13	0.92
1:H1:2958:C:H4'	1:H1:2959:A:N7	1.83	0.92
32:GK:68:ASN:HB3	18:HU:60:THR:HG23	1.51	0.92
1:A1:1308:U:H4'	28:BG:58:UNK:HA	1.51	0.92
1:A1:729:A:O2'	1:A1:810:G:N2	2.03	0.92
1:A1:795:G:HO2'	1:A1:796:A:H8	0.94	0.92
37:CP:83:ARG:HH22	1:D1:2717:G:H5''	1.33	0.92
31:EJ:51:SER:OG	50:EJ:303:HOH:O	1.56	0.92
1:F1:3230:G:N7	5:FE:119:ARG:NH1	2.17	0.92
23:GB:162:THR:HG21	23:GB:175:HIS:HD2	1.30	0.92
1:H1:1642:G:C2'	1:H1:1643:G:H5''	1.99	0.92
1:H1:3228:U:C4'	1:H1:3229:C:H5'	1.98	0.92
1:H1:452:U:H5'	14:HO:56:GLN:HE22	1.21	0.92
1:A1:1376:A:H5''	1:A1:1377:A:C5'	1.98	0.92
23:BB:95:THR:HG23	23:BB:98:GLY:O	1.69	0.92
1:A1:1408:U:OP1	24:BC:204:ARG:NH1	2.01	0.92
23:CB:16:PHE:CD2	23:CB:273:ARG:NH1	2.36	0.92
28:CG:8:UNK:HG3	1:D1:1248:G:N2	1.84	0.92
1:D1:2899:C:H5''	1:D1:2900:G:OP1	1.68	0.92
11:DL:41:TYR:HB3	11:DL:58:GLN:NE2	1.84	0.92
19:DX:158:ASN:HD21	19:DX:160:ALA:HB3	1.34	0.92
22:EA:210:HIS:HD2	22:EA:212:HIS:H	0.98	0.92
1:F1:332:G:H2'	1:F1:333:G:H5''	1.50	0.92
1:F1:624:G:O2'	1:F1:625:C:O5'	1.86	0.92
24:GC:70:GLU:O	24:GC:82:PRO:HA	1.69	0.92
32:GK:27:LYS:NZ	1:H1:826:A:OP1	2.02	0.92
1:H1:696:A:C2'	1:H1:697:A:H5''	1.99	0.92
1:A1:504:A:HO2'	1:A1:505:A:H8	0.97	0.92
23:CB:24:HIS:CE1	23:CB:28:ARG:HH11	1.87	0.92
27:CF:196:VAL:HG13	27:CF:200:ASP:HB2	1.52	0.92
41:CT:5:THR:HG21	41:CT:14:ARG:HG3	1.51	0.92
1:D1:2251:A:H1'	46:EY:74:PRO:HB2	1.51	0.92
1:D1:548:G:H22	1:D1:619:G:N2	1.68	0.92
27:EF:232:GLN:NE2	1:F1:2573:U:H4'	1.85	0.92
7:FG:74:ASN:HB3	7:FG:86:ARG:HB2	1.52	0.92
24:GC:167:GLU:H	24:GC:171:GLN:NE2	1.67	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:242:ASN:HD21	1:H1:718:A:H4'	1.35	0.92
46:GY:2:ALA:N	1:H1:877:U:O4	2.03	0.92
1:H1:624:G:O2'	1:H1:625:C:O5'	1.88	0.92
5:HE:54:LEU:O	5:HE:59:ARG:HB2	1.70	0.92
1:A1:2543:C:H5'	1:A1:2544:U:OP2	1.70	0.92
29:BH:101:LYS:HB3	29:BH:121:LYS:NZ	1.83	0.92
1:D1:1617:G:O2'	1:D1:1618:A:OP2	1.88	0.92
46:CY:7:LYS:HE3	1:D1:1950:C:H2'	1.51	0.92
1:D1:2958:C:H4'	1:D1:2959:A:N7	1.84	0.92
9:DJ:187:ASN:HD21	9:DJ:207:GLY:HA3	1.35	0.92
23:EB:162:THR:HG21	23:EB:175:HIS:HD2	1.35	0.92
1:F1:1868:C:OP2	50:F1:4255:HOH:O	1.86	0.92
1:F1:696:A:C2'	1:F1:697:A:H5''	2.00	0.92
32:GK:122:PRO:HA	32:GK:142:GLY:O	1.69	0.92
46:GY:15:GLY:O	46:GY:23:ARG:NH1	2.02	0.92
21:B3:83:G:H1	21:B3:93:G:H22	1.15	0.92
22:BA:42:ILE:HD12	22:BA:43:ARG:N	1.84	0.92
23:BB:282:ARG:NH1	23:BB:291:ASN:O	2.03	0.92
34:BM:32:ALA:HB2	50:BM:401:HOH:O	1.66	0.92
1:D1:1054:G:H2'	1:D1:1055:A:H8	1.31	0.92
1:D1:3067:A:O2'	1:D1:3068:U:OP1	1.86	0.92
8:DH:54:LYS:HA	8:DH:110:PRO:CG	1.98	0.92
1:D1:114:A:H4'	16:DQ:37:ARG:HH22	1.34	0.92
1:F1:3067:A:O2'	1:F1:3068:U:OP1	1.88	0.92
11:FL:41:TYR:HB3	11:FL:58:GLN:NE2	1.85	0.92
23:GB:62:ARG:HH11	23:GB:62:ARG:HG3	1.31	0.92
20:G2:39:G:C2	42:GU:90:ARG:NH1	2.38	0.92
19:HX:175:LYS:HZ2	19:HX:178:ARG:HH11	1.12	0.92
1:A1:1513:A:OP2	50:A1:4370:HOH:O	1.87	0.92
27:BF:126:LYS:NZ	27:BF:194:THR:OG1	2.02	0.92
24:CC:319:ARG:NH1	1:D1:620:A:N7	2.18	0.92
1:D1:1504:C:OP2	50:D1:4216:HOH:O	1.87	0.92
23:EB:162:THR:O	23:EB:174:ASN:HB3	1.70	0.92
1:F1:1469:G:N7	50:F1:3836:HOH:O	2.02	0.92
1:F1:504:A:HO2'	1:F1:505:A:H8	0.96	0.92
1:H1:1027:G:O2'	1:H1:1028:A:OP2	1.88	0.92
1:A1:2330:G:OP2	50:A1:4464:HOH:O	1.87	0.92
1:A1:280:G:O6	33:BL:182:LYS:NZ	2.02	0.92
1:A1:282:G:H22	1:A1:304:U:C4'	1.81	0.92
1:A1:2908:U:H5''	50:A1:4501:HOH:O	1.70	0.92
1:A1:2958:C:H4'	1:A1:2959:A:N7	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:351:A:H4'	1:A1:352:G:OP1	1.70	0.92
21:C3:46:C:OP1	34:CM:158:ARG:HG3	1.69	0.92
23:CB:282:ARG:NH1	23:CB:291:ASN:O	2.03	0.92
29:CH:159:PHE:HB3	29:CH:163:GLN:NE2	1.83	0.92
34:CM:176:SER:O	34:CM:177:GLU:HG2	1.69	0.92
45:CX:69:LEU:HD11	45:CX:75:LYS:HG3	1.52	0.92
7:DG:95:ALA:HB3	7:DG:101:LEU:HD11	1.52	0.92
25:ED:82:ARG:HB3	25:ED:112:LEU:HD22	1.52	0.92
33:GL:93:LYS:NZ	1:H1:2589:U:OP1	2.02	0.92
23:BB:162:THR:HG21	23:BB:175:HIS:HD2	1.35	0.92
20:C2:85:C:OP1	20:C2:85:C:H4'	1.69	0.92
1:D1:1443:G:O6	50:D1:3900:HOH:O	1.86	0.92
1:D1:321:U:OP2	50:D1:3751:HOH:O	1.86	0.92
1:D1:978:G:OP2	17:DT:12:GLN:NE2	2.03	0.92
1:F1:2217:C:H4'	1:F1:2218:A:OP2	1.69	0.92
2:FA:64:ARG:HA	50:FA:204:HOH:O	1.69	0.92
23:GB:24:HIS:CE1	23:GB:28:ARG:HH11	1.87	0.92
37:GP:83:ARG:NH2	1:H1:2717:G:H5''	1.85	0.92
1:A1:1183:C:OP1	50:A1:3941:HOH:O	1.85	0.91
1:A1:1973:A:OP1	36:BO:104:ARG:NH1	2.03	0.91
30:CI:159:ARG:HD2	30:CI:162:ARG:NH2	1.85	0.91
1:D1:1840:U:H4'	1:D1:1841:A:O5'	1.67	0.91
22:CA:205:MET:HG2	1:D1:939:A:C2	2.06	0.91
4:DC:66:VAL:HG11	4:DC:89:ILE:HD11	0.97	0.91
45:EX:42:ASN:ND2	45:EX:45:ARG:H	1.67	0.91
1:F1:1752:G:H5'	1:F1:1754:G:H5''	1.50	0.91
1:F1:2307:A:H3'	50:F1:4378:HOH:O	1.68	0.91
45:GX:6:VAL:HG12	45:GX:7:ALA:H	1.35	0.91
1:H1:635:A:O2'	1:H1:636:U:O5'	1.87	0.91
1:A1:1101:U:H5'	17:AT:49:ASN:ND2	1.84	0.91
1:A1:2716:A:O3'	1:A1:2717:G:H4'	1.70	0.91
1:A1:978:G:OP2	17:AT:12:GLN:NE2	2.02	0.91
13:AN:122:TYR:CE2	27:BF:21:LEU:HD21	2.04	0.91
21:B3:1:G:N3	34:BM:274:HIS:NE2	2.17	0.91
2:DA:28:HIS:HD2	2:DA:31:LYS:H	1.17	0.91
25:ED:26:SER:OG	25:ED:63:GLU:OE2	1.87	0.91
1:F1:1026:C:O2'	1:F1:1027:G:OP2	1.89	0.91
23:GB:16:PHE:CD2	23:GB:273:ARG:NH1	2.38	0.91
23:GB:95:THR:HG23	23:GB:98:GLY:O	1.69	0.91
25:GD:26:SER:OG	25:GD:63:GLU:OE2	1.87	0.91
34:GM:106:ALA:HA	34:GM:171:ILE:HD11	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:GF:121:LYS:HD3	1:H1:118:A:N7	1.85	0.91
1:H1:2519:A:H2'	1:H1:2520:G:H8	1.35	0.91
14:HO:75:THR:HG22	14:HO:77:GLU:H	1.34	0.91
1:H1:1101:U:H5'	17:HT:49:ASN:HD22	1.32	0.91
6:AF:107:ASP:O	6:AF:111:VAL:HG23	1.70	0.91
1:F1:115:G:H4'	1:F1:116:U:OP1	1.70	0.91
1:F1:795:G:HO2'	1:F1:796:A:H8	0.94	0.91
45:GX:69:LEU:HD11	45:GX:75:LYS:HG3	1.50	0.91
1:H1:2575:G:H4'	1:H1:2576:C:OP1	1.71	0.91
5:HE:42:ARG:O	5:HE:45:ILE:HG22	1.70	0.91
15:AP:12:MET:HA	15:AP:15:TRP:NE1	1.84	0.91
1:D1:2933:G:O2'	1:D1:2936:C:OP2	1.88	0.91
1:D1:624:G:O2'	1:D1:625:C:O5'	1.88	0.91
1:D1:696:A:C2'	1:D1:697:A:H5''	2.00	0.91
23:EB:62:ARG:HG3	23:EB:62:ARG:HH11	1.33	0.91
1:F1:635:A:O2'	1:F1:636:U:O5'	1.87	0.91
33:EL:2:GLY:N	16:FQ:37:ARG:NH2	2.18	0.91
1:A1:2933:G:O2'	1:A1:2936:C:OP2	1.88	0.91
1:A1:3227:A:H5''	5:AE:57:ARG:HH12	1.36	0.91
37:BP:116:LYS:HZ1	37:BP:128:THR:HB	1.33	0.91
45:BX:80:ASN:HB2	45:BX:81:PRO:HD2	1.53	0.91
33:CL:55:ASN:OD1	50:CL:403:HOH:O	1.86	0.91
1:D1:2519:A:H2'	1:D1:2520:G:H8	1.36	0.91
24:EC:82:PRO:HB2	24:EC:96:ALA:HB3	1.51	0.91
27:EF:232:GLN:HE22	1:F1:2573:U:C4'	1.82	0.91
5:FE:41:LEU:HG	5:FE:68:GLN:OE1	1.71	0.91
13:AN:130:LYS:CG	1:H1:2664:C:OP1	2.15	0.91
19:AX:188:THR:O	19:AX:189:PHE:CD2	2.24	0.91
45:BX:42:ASN:ND2	45:BX:45:ARG:H	1.68	0.91
1:D1:1507:A:O2'	1:D1:1882:A:H2'	1.70	0.91
1:D1:2693:A:OP2	50:D1:5038:HOH:O	1.87	0.91
5:DE:42:ARG:O	5:DE:45:ILE:HG22	1.70	0.91
1:D1:979:U:H1'	17:DT:12:GLN:NE2	1.84	0.91
34:EM:176:SER:O	34:EM:177:GLU:HG2	1.70	0.91
1:F1:2932:U:H5''	1:F1:2933:G:OP2	1.71	0.91
9:FJ:140:THR:HG22	9:FJ:141:THR:H	1.34	0.91
11:FL:91:ILE:HG12	13:FN:144:PHE:HE2	1.34	0.91
28:GG:8:UNK:HG2	1:H1:1248:G:N2	1.83	0.91
23:GB:118:PHE:HE2	1:H1:2989:G:H21	1.16	0.91
8:HH:54:LYS:HA	8:HH:110:PRO:CG	2.00	0.91
1:A1:805:A:H4'	1:A1:806:G:OP2	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1376:A:H3'	43:BV:12:LYS:CE	1.99	0.91
24:CC:167:GLU:H	24:CC:171:GLN:NE2	1.69	0.91
1:D1:1247:C:H5''	1:D1:1248:G:H5''	1.52	0.91
1:D1:2309:U:OP1	50:D1:4290:HOH:O	1.87	0.91
1:D1:2348:G:N7	50:D1:4693:HOH:O	2.02	0.91
12:DM:51:ASN:O	12:DM:51:ASN:ND2	2.03	0.91
1:F1:3277:A:H4'	1:F1:3278:U:OP2	1.69	0.91
1:F1:842:A:C8	2:FA:15:THR:HG23	2.05	0.91
5:FE:102:VAL:HG22	5:FE:170:LEU:HD21	1.52	0.91
20:G2:74:A:N6	20:G2:88:G:H1'	1.85	0.91
1:H1:2932:U:H5''	1:H1:2933:G:OP2	1.71	0.91
1:H1:3176:A:H4'	1:H1:3177:G:C5'	2.00	0.91
1:A1:2217:C:H4'	1:A1:2218:A:OP2	1.70	0.91
1:A1:2544:U:H1'	7:AG:50:THR:CG2	1.98	0.91
1:A1:38:A:O2'	50:A1:3762:HOH:O	1.87	0.91
21:C3:26:C:OP1	34:CM:56:THR:HG21	1.69	0.91
42:CU:34:ILE:HA	42:CU:37:ILE:HD12	1.53	0.91
1:D1:1505:C:OP1	50:D1:4224:HOH:O	1.86	0.91
18:DU:53:GLN:O	18:DU:113:ARG:NH1	2.02	0.91
1:F1:55:A:OP2	50:F1:3616:HOH:O	1.86	0.91
8:FH:54:LYS:HA	8:FH:110:PRO:CG	2.00	0.91
19:FX:175:LYS:HZ2	19:FX:178:ARG:HH11	1.09	0.91
34:GM:163:LEU:HD21	34:GM:175:HIS:CG	2.05	0.91
19:AX:158:ASN:HD21	19:AX:160:ALA:HB3	1.34	0.91
23:BB:111:ASP:O	23:BB:114:THR:HG22	1.69	0.91
33:CL:93:LYS:HE2	1:D1:276:G:H1'	1.53	0.91
1:D1:750:G:C2'	1:D1:751:C:H5''	1.99	0.91
31:EJ:10:GLN:HG3	31:EJ:129:ILE:CG2	2.00	0.91
1:F1:622:G:H4'	1:F1:623:G:OP2	1.69	0.91
1:H1:1881:C:H5''	1:H1:1882:A:OP2	1.70	0.91
27:GF:232:GLN:HE22	1:H1:2573:U:C4'	1.84	0.91
5:HE:41:LEU:HG	5:HE:68:GLN:OE1	1.70	0.91
7:HG:95:ALA:HB3	7:HG:101:LEU:HD11	1.53	0.91
1:H1:979:U:H1'	17:HT:12:GLN:HE21	1.32	0.91
1:A1:219:A:C2	1:A1:1416:U:H2'	2.06	0.91
1:A1:1533:G:H22	38:BQ:131:THR:HG23	1.36	0.91
1:A1:560:A:H2'	1:A1:561:A:C8	2.05	0.91
26:BE:29:GLY:H	26:BE:82:VAL:HG11	1.34	0.91
20:C2:4:A:OP1	50:C2:332:HOH:O	1.88	0.91
1:D1:1360:C:H2'	1:D1:1361:U:H5''	1.52	0.91
1:D1:591:G:O6	50:D1:4914:HOH:O	1.88	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:EA:207:PRO:O	50:EA:301:HOH:O	1.89	0.91
43:EV:162:ASP:OD1	43:EV:164:THR:N	2.02	0.91
1:F1:2267:G:H4'	1:F1:2268:G:OP1	1.71	0.91
1:F1:805:A:H4'	1:F1:806:G:OP2	1.71	0.91
9:FJ:93:ARG:NH2	9:HJ:93:ARG:HG3	1.85	0.91
1:H1:2933:G:O2'	1:H1:2936:C:OP2	1.89	0.91
1:A1:711:U:H3	1:A1:718:A:H61	1.18	0.90
1:A1:939:A:C2	22:BA:205:MET:HG2	2.06	0.90
22:BA:71:LYS:HE3	22:BA:73:ASN:OD1	1.71	0.90
1:A1:276:G:H1'	33:BL:93:LYS:HE2	1.51	0.90
21:C3:83:G:H1	21:C3:93:G:H22	1.18	0.90
28:CG:15:UNK:HG3	28:CG:65:UNK:CA	2.01	0.90
1:D1:2347:A:N7	50:D1:4690:HOH:O	2.02	0.90
1:D1:332:G:H2'	1:D1:333:G:H5''	1.50	0.90
1:D1:439:A:N6	1:D1:538:A:C2	2.39	0.90
45:GX:79:ARG:HH12	1:H1:1448:G:C4'	1.84	0.90
7:HG:74:ASN:HB3	7:HG:86:ARG:HB2	1.53	0.90
1:A1:1063:C:O3'	34:BM:5:LYS:HD3	1.71	0.90
1:A1:1642:G:C2'	1:A1:1643:G:H5''	1.99	0.90
5:AE:54:LEU:O	5:AE:59:ARG:HB2	1.72	0.90
46:BY:32:THR:HG22	46:BY:69:TRP:O	1.69	0.90
43:CV:162:ASP:OD1	43:CV:164:THR:N	2.03	0.90
1:D1:2518:A:H4'	1:D1:2519:A:OP2	1.70	0.90
32:CK:68:ASN:HB3	18:DU:60:THR:HG23	1.54	0.90
27:EF:36:GLN:HG3	27:EF:37:PRO:HD2	1.53	0.90
18:FU:56:VAL:HG12	18:FU:57:ARG:N	1.85	0.90
27:GF:196:VAL:HG13	27:GF:200:ASP:HB2	1.53	0.90
1:H1:2243:C:O2'	1:H1:2268:G:N7	2.04	0.90
1:A1:2666:G:O6	1:A1:2669:A:N6	2.04	0.90
12:AM:51:ASN:O	12:AM:51:ASN:ND2	2.05	0.90
22:BA:114:VAL:HG11	22:BA:165:ALA:HB1	1.52	0.90
28:BG:15:UNK:HG3	28:BG:65:UNK:CA	2.00	0.90
20:B2:39:G:C2	42:BU:90:ARG:NH1	2.40	0.90
1:D1:560:A:H2'	1:D1:561:A:C8	2.05	0.90
1:D1:846:C:H2'	1:D1:847:G:H5''	1.52	0.90
7:DG:38:THR:HG22	7:DG:93:LEU:HD22	1.53	0.90
1:F1:1957:A:OP2	50:F1:4373:HOH:O	1.88	0.90
46:CY:28:LYS:NZ	1:F1:2252:C:P	2.43	0.90
7:FG:38:THR:HG22	7:FG:93:LEU:HD22	1.53	0.90
1:H1:560:A:H2'	1:H1:561:A:C8	2.07	0.90
9:HJ:187:ASN:HD21	9:HJ:207:GLY:HA3	1.37	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:162:ASP:OD1	43:BV:164:THR:N	2.03	0.90
35:CN:90:ASP:OD1	35:CN:92:ARG:HG2	1.70	0.90
8:DH:49:ALA:O	8:DH:52:GLN:HG3	1.71	0.90
24:EC:290:LEU:HD21	35:EN:30:LEU:HD13	1.53	0.90
43:EV:12:LYS:CE	1:F1:1376:A:H3'	2.01	0.90
1:F1:2390:G:N7	50:F1:3945:HOH:O	2.03	0.90
1:F1:2519:A:H2'	1:F1:2520:G:H8	1.35	0.90
24:GC:242:ASN:HD21	1:H1:718:A:C4'	1.84	0.90
24:GC:65:MET:CE	24:GC:97:PHE:HB2	2.01	0.90
30:GI:53:PHE:CE2	30:GI:144:VAL:HG11	2.06	0.90
1:H1:895:A:OP1	50:H1:3902:HOH:O	1.89	0.90
1:A1:115:G:H4'	1:A1:116:U:OP1	1.69	0.90
1:A1:2518:A:H4'	1:A1:2519:A:OP2	1.70	0.90
1:A1:2932:U:H5''	1:A1:2933:G:OP2	1.71	0.90
35:BN:90:ASP:OD1	35:BN:92:ARG:HG2	1.71	0.90
1:D1:1346:G:O6	50:D1:4383:HOH:O	1.89	0.90
1:F1:1445:G:C2'	1:F1:1446:C:H5''	2.00	0.90
1:F1:3176:A:H4'	1:F1:3177:G:C5'	2.01	0.90
1:F1:978:G:OP2	17:FT:12:GLN:NE2	2.02	0.90
43:GV:162:ASP:OD1	43:GV:164:THR:N	2.03	0.90
1:H1:1016:U:H2'	1:H1:1017:U:H5''	1.52	0.90
34:GM:6:VAL:HG12	1:H1:1065:U:OP1	1.71	0.90
1:H1:2518:A:H4'	1:H1:2519:A:OP2	1.69	0.90
42:GU:123:LYS:NZ	18:HU:144:SER:HB2	1.87	0.90
8:AH:49:ALA:O	8:AH:52:GLN:HG3	1.70	0.90
1:A1:2239:A:O4'	22:BA:244:THR:HG21	1.71	0.90
23:CB:162:THR:HG21	23:CB:175:HIS:HD2	1.35	0.90
1:D1:707:A:P	50:D1:4794:HOH:O	2.30	0.90
9:DJ:140:THR:HG22	9:DJ:141:THR:H	1.37	0.90
6:FF:107:ASP:O	6:FF:111:VAL:HG23	1.72	0.90
39:GR:35:VAL:CG1	1:H1:2518:A:H3'	2.01	0.90
1:H1:1247:C:H5''	1:H1:1248:G:H5''	1.53	0.90
1:H1:2275:A:OP1	50:H1:4206:HOH:O	1.89	0.90
26:GE:23:ARG:HG3	1:H1:3169:A:OP1	1.70	0.90
1:A1:2899:C:H5''	1:A1:2900:G:OP1	1.72	0.90
27:BF:196:VAL:HG13	27:BF:200:ASP:HB2	1.51	0.90
1:D1:1445:G:C2'	1:D1:1446:C:H5''	2.00	0.90
5:DE:41:LEU:HG	5:DE:68:GLN:OE1	1.69	0.90
1:F1:1434:G:H2'	1:F1:1435:C:C5'	2.02	0.90
1:F1:750:G:C2'	1:F1:751:C:H5''	2.01	0.90
22:EA:205:MET:HG2	1:F1:939:A:C2	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GT:35:THR:HG22	41:GT:37:LYS:H	1.35	0.90
1:H1:219:A:C2	1:H1:1416:U:H2'	2.05	0.90
1:H1:3185:G:C8	8:HH:11:PRO:HD3	2.06	0.90
12:HM:45:VAL:HB	12:HM:51:ASN:HD21	1.34	0.90
1:A1:1211:A:P	19:AX:171:ARG:HH22	1.94	0.90
33:CL:182:LYS:HE3	1:D1:97:A:O2'	1.71	0.90
46:CY:32:THR:HG22	46:CY:69:TRP:O	1.70	0.90
1:D1:1562:G:N7	50:D1:4137:HOH:O	2.05	0.90
1:D1:904:U:HO2'	1:D1:905:G:P	1.95	0.90
29:EH:159:PHE:HB3	29:EH:163:GLN:NE2	1.86	0.90
38:EQ:132:TYR:O	50:EQ:302:HOH:O	1.89	0.90
1:F1:455:G:OP2	14:FO:92:LYS:NZ	2.04	0.90
1:H1:622:G:H4'	1:H1:623:G:OP2	1.70	0.90
1:H1:729:A:O2'	1:H1:810:G:N2	2.04	0.90
1:A1:1460:G:OP1	50:A1:3955:HOH:O	1.89	0.90
5:AE:42:ARG:O	5:AE:45:ILE:HG22	1.72	0.90
34:BM:56:THR:HG22	34:BM:58:THR:H	1.35	0.90
21:C3:83:G:OP1	50:C3:304:HOH:O	1.90	0.90
19:DX:188:THR:O	19:DX:189:PHE:CD2	2.25	0.90
1:F1:2353:C:N3	50:F1:4213:HOH:O	2.02	0.90
1:F1:2716:A:O3'	1:F1:2717:G:H4'	1.72	0.90
9:FJ:160:LEU:HG	9:FJ:193:ILE:HD13	1.50	0.90
28:GG:32:UNK:O	1:H1:1257:G:O2'	1.88	0.90
1:H1:3067:A:O2'	1:H1:3068:U:OP1	1.88	0.90
1:H1:3227:A:H5''	5:HE:57:ARG:NH1	1.85	0.90
19:HX:22:VAL:HG23	19:HX:78:ILE:HD11	1.50	0.90
1:A1:2575:G:H4'	1:A1:2576:C:OP1	1.72	0.90
1:A1:284:U:C5	1:A1:305:A:H5''	2.05	0.90
1:A1:635:A:O2'	1:A1:636:U:O5'	1.90	0.90
20:C2:74:A:N6	20:C2:88:G:H1'	1.87	0.90
24:CC:107:PHE:HE2	1:D1:686:U:H1'	1.36	0.90
34:CM:274:HIS:HA	34:CM:277:PHE:CD1	2.07	0.90
7:DG:74:ASN:HB3	7:DG:86:ARG:HB2	1.53	0.90
41:ET:5:THR:HG21	41:ET:14:ARG:HG3	1.54	0.90
1:F1:1562:G:C8	50:F1:3931:HOH:O	2.23	0.90
34:GM:176:SER:O	34:GM:177:GLU:HG2	1.71	0.90
45:GX:80:ASN:HB2	45:GX:81:PRO:HD2	1.54	0.90
28:GG:8:UNK:CA	1:H1:1248:G:N2	2.22	0.90
1:H1:2902:G:OP2	50:H1:4271:HOH:O	1.90	0.90
33:GL:201:ARG:NH2	1:H1:79:C:O3'	2.04	0.90
6:HF:107:ASP:O	6:HF:111:VAL:HG23	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:114:A:H4'	16:AQ:37:ARG:HH22	1.36	0.89
23:CB:162:THR:O	23:CB:174:ASN:HB3	1.70	0.89
30:CI:196:PHE:CE2	6:DF:110:ARG:HD2	2.07	0.89
15:DP:12:MET:HA	15:DP:15:TRP:NE1	1.87	0.89
1:F1:2543:C:H5'	1:F1:2544:U:OP2	1.71	0.89
1:F1:277:U:O2'	50:F1:3632:HOH:O	1.88	0.89
1:H1:1832:G:OP2	50:H1:4130:HOH:O	1.90	0.89
38:GQ:134:ALA:HB2	1:H1:905:G:C5'	2.01	0.89
8:HH:13:ARG:NH2	8:HH:17:LYS:HG2	1.86	0.89
13:HN:4:PHE:CD1	13:HN:4:PHE:N	2.34	0.89
1:A1:1360:C:H2'	1:A1:1361:U:H5''	1.54	0.89
9:AJ:118:HIS:CE1	9:AJ:146:VAL:HB	2.06	0.89
33:CL:26:ARG:HB3	33:CL:30:TYR:HE1	1.37	0.89
1:D1:1096:G:H2'	1:D1:1097:G:H5''	1.53	0.89
1:F1:766:G:O6	50:F1:3864:HOH:O	1.91	0.89
12:FM:45:VAL:HB	12:FM:51:ASN:HD21	1.36	0.89
22:GA:30:TYR:HB2	22:GA:124:ARG:HA	1.54	0.89
31:GJ:51:SER:OG	50:GJ:302:HOH:O	1.88	0.89
24:GC:34:ARG:NH1	1:H1:698:G:OP1	2.04	0.89
1:A1:1392:G:OP2	50:A1:3918:HOH:O	1.90	0.89
1:A1:1752:G:H2'	7:AG:85:HIS:CD2	2.08	0.89
1:A1:704:G:O2'	24:BC:119:ARG:NH2	2.06	0.89
5:AE:178:PHE:O	8:AH:14:LEU:HD21	1.72	0.89
1:A1:57:G:H2'	20:B2:36:G:C5'	2.02	0.89
1:D1:253:G:H2'	1:D1:254:G:H5''	1.54	0.89
1:D1:3227:A:H5''	5:DE:57:ARG:NH1	1.87	0.89
1:D1:532:G:H2'	1:D1:533:G:C8	2.07	0.89
8:DH:56:VAL:HG22	8:DH:106:VAL:HA	1.51	0.89
34:EM:64:ILE:HD13	34:EM:109:LEU:HD22	1.54	0.89
35:EN:82:VAL:HG22	35:EN:102:CYS:HB3	1.54	0.89
40:ES:81:VAL:HB	40:ES:84:ILE:HG13	1.54	0.89
12:FM:51:ASN:ND2	12:FM:51:ASN:O	2.06	0.89
19:FX:167:LYS:HA	19:FX:188:THR:CG2	2.03	0.89
1:H1:2217:C:H4'	1:H1:2218:A:OP2	1.71	0.89
1:H1:284:U:C5	1:H1:305:A:H5''	2.08	0.89
18:HU:56:VAL:HG12	18:HU:57:ARG:N	1.87	0.89
1:A1:1752:G:H5'	1:A1:1754:G:H5''	1.54	0.89
12:AM:45:VAL:HB	12:AM:51:ASN:HD21	1.37	0.89
13:AN:54:THR:HB	13:AN:57:MET:HG3	1.55	0.89
24:BC:65:MET:CE	24:BC:97:PHE:HB2	2.03	0.89
22:CA:42:ILE:HD12	22:CA:43:ARG:N	1.86	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:111:ASP:O	23:CB:114:THR:HG22	1.72	0.89
23:CB:95:THR:HG23	23:CB:98:GLY:O	1.72	0.89
33:CL:201:ARG:NH2	1:D1:79:C:O3'	2.04	0.89
33:CL:34:PRO:HG2	33:CL:37:HIS:HB3	1.54	0.89
1:D1:1321:A:O2'	1:D1:1322:G:O5'	1.90	0.89
1:D1:1503:A:H5''	50:D1:4213:HOH:O	1.71	0.89
1:D1:1580:G:H4'	1:D1:1581:C:OP2	1.71	0.89
1:D1:655:A:N3	8:DH:97:PRO:HG3	1.87	0.89
45:EX:31:ASP:OD1	45:EX:32:SER:N	2.05	0.89
1:F1:1477:C:OP1	50:F1:4036:HOH:O	1.90	0.89
1:F1:1562:G:N7	50:F1:3931:HOH:O	2.04	0.89
1:F1:560:A:H2'	1:F1:561:A:C8	2.06	0.89
20:G2:32:C:H2'	20:G2:33:C:H6	1.37	0.89
25:GD:135:GLY:O	25:GD:138:VAL:HG23	1.73	0.89
28:GG:33:UNK:HG3	28:GG:36:UNK:HG2	1.55	0.89
1:H1:1084:G:C2'	1:H1:1085:G:H5''	2.01	0.89
1:H1:1432:G:OP1	50:H1:3729:HOH:O	1.89	0.89
9:HJ:140:THR:HG22	9:HJ:141:THR:H	1.34	0.89
1:A1:1445:G:C2'	1:A1:1446:C:H5''	2.00	0.89
1:A1:276:G:H5'	4:AC:47:GLY:HA2	1.55	0.89
1:A1:3067:A:O2'	1:A1:3068:U:OP1	1.88	0.89
20:B2:134:C:O2'	20:B2:135:A:OP1	1.90	0.89
27:BF:36:GLN:HG3	27:BF:37:PRO:HD2	1.54	0.89
27:BF:62:GLN:HE21	27:BF:229:ILE:HD13	1.37	0.89
44:BW:10:ASP:OD1	44:BW:108:THR:HG22	1.72	0.89
25:CD:26:SER:OG	25:CD:63:GLU:OE2	1.89	0.89
1:D1:1046:G:H5''	13:FN:3:LYS:HE2	1.54	0.89
32:EK:122:PRO:HA	32:EK:142:GLY:O	1.71	0.89
1:F1:467:A:C6	1:F1:512:G:C2	2.61	0.89
46:GY:32:THR:HG22	46:GY:69:TRP:O	1.72	0.89
1:H1:1073:A:O2'	1:H1:1074:A:O5'	1.90	0.89
1:H1:2543:C:H5'	1:H1:2544:U:OP2	1.72	0.89
1:A1:388:A:N7	50:A1:4771:HOH:O	2.05	0.89
20:C2:86:G:O6	40:CS:113:SER:OG	1.90	0.89
27:CF:232:GLN:HE22	1:D1:2573:U:C4'	1.84	0.89
32:CK:68:ASN:HB3	18:DU:60:THR:CG2	2.03	0.89
1:D1:1901:C:H5''	1:D1:1902:C:H5'	1.54	0.89
23:EB:95:THR:HG23	23:EB:98:GLY:O	1.73	0.89
26:EE:38:PHE:CE2	26:EE:71:ILE:HG23	2.06	0.89
27:EF:19:ASN:HB3	27:EF:20:PRO:HD3	1.55	0.89
20:E2:84:C:OP1	42:EU:3:LYS:HG2	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EU:92:ILE:O	42:EU:95:LYS:HG2	1.73	0.89
1:F1:1881:C:H5''	1:F1:1882:A:OP2	1.73	0.89
1:F1:2899:C:H5''	1:F1:2900:G:OP1	1.72	0.89
1:F1:518:G:H4'	1:F1:519:A:OP2	1.73	0.89
20:E2:96:A:O2'	2:FA:83:THR:O	1.89	0.89
34:GM:56:THR:HG22	34:GM:58:THR:H	1.37	0.89
1:H1:2744:C:OP2	50:H1:4333:HOH:O	1.90	0.89
1:H1:3277:A:H4'	1:H1:3278:U:OP2	1.70	0.89
24:GC:376:TRP:CD1	1:H1:564:A:H1'	2.05	0.89
1:A1:1434:G:H2'	1:A1:1435:C:C5'	2.03	0.89
1:A1:904:U:O2'	1:A1:905:G:P	2.31	0.89
19:AX:167:LYS:HA	19:AX:188:THR:CG2	2.02	0.89
1:D1:1918:U:H2'	1:D1:1919:A:C5'	2.01	0.89
1:D1:3226:A:C2	5:DE:84:GLY:HA3	2.08	0.89
22:EA:71:LYS:HE3	22:EA:73:ASN:OD1	1.72	0.89
25:ED:133:ARG:HG3	25:ED:152:GLN:O	1.73	0.89
45:EX:80:ASN:HB2	45:EX:81:PRO:HD2	1.54	0.89
1:F1:439:A:N6	1:F1:538:A:C2	2.40	0.89
1:H1:1773:G:OP2	15:HP:41:LYS:NZ	2.06	0.89
19:HX:167:LYS:HA	19:HX:188:THR:CG2	2.03	0.89
1:A1:1059:U:H2'	1:A1:1060:C:H5''	1.55	0.89
1:A1:1247:C:H5''	1:A1:1248:G:H5''	1.52	0.89
7:AG:38:THR:HG22	7:AG:93:LEU:HD22	1.54	0.89
1:A1:97:A:O2'	33:BL:182:LYS:HE3	1.72	0.89
47:CO:106:LEU:HD21	47:CO:138:LEU:HD21	1.55	0.89
1:D1:1186:A:O2'	1:D1:1187:C:OP2	1.89	0.89
1:D1:61:A:OP2	50:D1:3752:HOH:O	1.89	0.89
1:F1:1096:G:H2'	1:F1:1097:G:H5''	1.54	0.89
1:F1:2334:C:H4'	1:F1:2335:U:OP1	1.71	0.89
1:H1:281:G:H5''	1:H1:282:G:OP1	1.72	0.89
1:H1:548:G:H22	1:H1:619:G:N2	1.71	0.89
16:HQ:57:ARG:O	16:HQ:60:GLU:HG2	1.73	0.89
1:H1:75:A:H8	18:HU:71:ARG:HH12	1.20	0.89
34:BM:176:SER:O	34:BM:177:GLU:HG2	1.71	0.89
38:CQ:34:VAL:HG22	38:CQ:60:ILE:HD13	1.52	0.89
1:D1:219:A:C2	1:D1:1416:U:H2'	2.07	0.89
1:D1:1469:G:N7	50:D1:4035:HOH:O	2.05	0.89
12:DM:45:VAL:HB	12:DM:51:ASN:HD21	1.37	0.89
45:EX:69:LEU:HD11	45:EX:75:LYS:HG3	1.54	0.89
45:EX:79:ARG:HH12	1:F1:1448:G:C4'	1.86	0.89
1:A1:1235:U:H6	10:AK:109:ASN:HD21	1.17	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3277:A:H4'	1:D1:3278:U:OP2	1.72	0.89
20:G2:85:C:H4'	20:G2:85:C:OP1	1.73	0.89
25:GD:133:ARG:HG3	25:GD:152:GLN:O	1.73	0.89
38:GQ:34:VAL:HG22	38:GQ:60:ILE:HD13	1.55	0.89
1:H1:1918:U:H2'	1:H1:1919:A:C5'	2.02	0.89
1:H1:2716:A:O3'	1:H1:2717:G:H4'	1.71	0.89
22:GA:205:MET:HG2	1:H1:939:A:C2	2.07	0.89
1:A1:1918:U:H2'	1:A1:1919:A:C5'	2.02	0.88
1:A1:3169:A:OP1	26:BE:23:ARG:HG3	1.73	0.88
1:A1:71:U:O2'	1:A1:72:A:OP1	1.90	0.88
34:CM:64:ILE:HD13	34:CM:109:LEU:HD22	1.55	0.88
1:F1:1580:G:H4'	1:F1:1581:C:OP2	1.70	0.88
18:FU:166:VAL:HA	18:FU:169:ILE:CD1	2.03	0.88
19:FX:188:THR:O	19:FX:189:PHE:CD2	2.25	0.88
22:GA:114:VAL:CG1	22:GA:165:ALA:HB1	2.02	0.88
25:GD:65:MET:SD	1:H1:2669:A:O2'	2.31	0.88
28:GG:81:UNK:CG	1:H1:1309:G:O4'	2.21	0.88
31:GJ:16:LYS:NZ	1:H1:3081:C:C5	2.40	0.88
1:H1:1181:A:H4'	1:H1:1182:C:OP2	1.71	0.88
1:A1:1197:A:OP2	50:A1:4314:HOH:O	1.90	0.88
1:A1:1869:G:OP2	50:A1:3855:HOH:O	1.89	0.88
1:A1:3098:A:OP1	10:AK:93:LYS:NZ	2.06	0.88
13:AN:33:THR:HG23	1:H1:1047:G:OP1	1.74	0.88
18:AU:166:VAL:HA	18:AU:169:ILE:CD1	2.04	0.88
24:BC:290:LEU:HD21	35:BN:30:LEU:HD13	1.55	0.88
25:BD:82:ARG:HB3	25:BD:112:LEU:HD22	1.55	0.88
1:D1:284:U:C1'	50:D1:3848:HOH:O	2.20	0.88
23:EB:282:ARG:NH1	23:EB:291:ASN:O	2.05	0.88
27:EF:126:LYS:CE	27:EF:135:LEU:HD13	2.04	0.88
28:EG:33:UNK:HG3	28:EG:36:UNK:HG2	1.54	0.88
1:F1:2256:G:H2'	1:F1:2257:A:H5''	1.52	0.88
1:F1:548:G:H22	1:F1:619:G:N2	1.70	0.88
26:GE:38:PHE:CE2	26:GE:71:ILE:HG23	2.06	0.88
29:GH:159:PHE:HB3	29:GH:163:GLN:NE2	1.87	0.88
1:H1:1434:G:H2'	1:H1:1435:C:C5'	2.03	0.88
1:H1:504:A:HO2'	1:H1:505:A:H8	0.98	0.88
18:AU:132:LYS:HA	18:AU:135:LEU:HD12	1.55	0.88
24:BC:152:VAL:HG13	24:BC:157:TYR:HE2	1.15	0.88
22:CA:114:VAL:CG1	22:CA:165:ALA:HB1	2.04	0.88
33:CL:182:LYS:NZ	1:D1:280:G:O6	2.06	0.88
8:DH:13:ARG:NH2	8:DH:17:LYS:HG2	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DJ:88:LEU:HD12	9:DJ:89:PRO:HD2	1.55	0.88
13:DN:83:THR:HG22	13:DN:85:TYR:H	1.39	0.88
24:EC:167:GLU:H	24:EC:171:GLN:NE2	1.70	0.88
33:EL:34:PRO:HG2	33:EL:37:HIS:HB3	1.53	0.88
1:F1:3291:G:O2'	1:F1:3292:U:O5'	1.91	0.88
24:GC:65:MET:HE1	24:GC:97:PHE:HB2	1.52	0.88
21:G3:1:G:H4'	34:GM:275:LYS:HZ3	1.37	0.88
35:GN:90:ASP:OD1	35:GN:92:ARG:HG2	1.71	0.88
1:H1:1114:C:H2'	1:H1:1115:U:H5'	1.54	0.88
1:H1:958:A:H3'	1:H1:959:G:C5'	2.04	0.88
1:A1:3291:G:O2'	1:A1:3292:U:O5'	1.89	0.88
8:AH:54:LYS:HA	8:AH:110:PRO:CG	2.02	0.88
24:BC:167:GLU:H	24:BC:171:GLN:NE2	1.70	0.88
30:BI:159:ARG:HD2	30:BI:162:ARG:NH2	1.88	0.88
33:BL:30:TYR:HE2	33:BL:63:ARG:HD3	1.39	0.88
20:C2:39:G:C2	42:CU:90:ARG:NH1	2.41	0.88
1:D1:2275:A:O2'	1:D1:2276:A:O5'	1.91	0.88
27:CF:233:LYS:HB2	1:D1:2575:G:O6	1.74	0.88
1:D1:467:A:C6	1:D1:512:G:C2	2.61	0.88
5:DE:55:ALA:HB2	8:DH:109:TYR:HE1	1.36	0.88
30:EI:53:PHE:HE2	30:EI:144:VAL:HG11	1.38	0.88
1:F1:1247:C:H5''	1:F1:1248:G:H5''	1.51	0.88
1:F1:219:A:C2	1:F1:1416:U:H2'	2.08	0.88
1:F1:749:U:O4	50:F1:3856:HOH:O	1.91	0.88
5:FE:42:ARG:O	5:FE:45:ILE:HG22	1.73	0.88
19:FX:175:LYS:NZ	19:FX:178:ARG:HH11	1.71	0.88
34:GM:274:HIS:HA	34:GM:277:PHE:CD2	2.08	0.88
44:GW:65:ASN:OD1	1:H1:3047:U:H5	1.56	0.88
1:H1:846:C:H2'	1:H1:847:G:H5''	1.55	0.88
20:G2:38:C:H4'	2:HA:71:ILE:HD13	1.55	0.88
7:HG:47:ASN:ND2	7:HG:73:SER:HB3	1.88	0.88
1:H1:1235:U:H6	10:HK:109:ASN:HD21	1.12	0.88
1:A1:1507:A:O2'	1:A1:1882:A:H2'	1.73	0.88
1:A1:2840:C:N3	29:BH:158:LYS:NZ	2.21	0.88
1:A1:433:C:H5''	1:A1:434:A:OP2	1.74	0.88
46:BY:10:ILE:HD11	46:BY:30:GLU:HB2	1.54	0.88
1:D1:395:A:O2'	50:D1:3893:HOH:O	1.90	0.88
24:EC:89:THR:HG22	24:EC:91:ARG:H	1.38	0.88
30:EI:53:PHE:CE2	30:EI:144:VAL:HG11	2.08	0.88
30:EI:159:ARG:HD2	30:EI:162:ARG:NH2	1.87	0.88
37:EP:83:ARG:HH22	1:F1:2717:G:C5'	1.85	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1185:A:C2'	1:F1:1186:A:H5''	2.04	0.88
1:F1:2859:G:N7	50:F1:4203:HOH:O	2.05	0.88
1:F1:625:C:C2'	1:F1:626:C:H5'	2.04	0.88
34:GM:125:VAL:HG21	34:GM:205:PHE:CE1	2.09	0.88
42:GU:34:ILE:HA	42:GU:37:ILE:HD12	1.56	0.88
1:H1:2293:U:OP2	50:H1:4202:HOH:O	1.91	0.88
1:H1:421:G:OP1	50:H1:3720:HOH:O	1.91	0.88
1:A1:1434:G:H2'	1:A1:1435:C:H5''	1.53	0.88
1:A1:2415:C:H2'	1:A1:2416:U:H5''	1.54	0.88
9:AJ:143:ALA:O	9:AJ:144:ASN:ND2	2.07	0.88
20:B2:4:A:OP1	50:B2:338:HOH:O	1.90	0.88
22:CA:119:GLU:N	22:CA:123:ASP:OD2	2.06	0.88
31:CJ:10:GLN:HG3	31:CJ:129:ILE:CG2	2.03	0.88
32:CK:122:PRO:HA	32:CK:142:GLY:O	1.73	0.88
46:CY:10:ILE:HD11	46:CY:30:GLU:HB2	1.56	0.88
1:D1:2716:A:O3'	1:D1:2717:G:H4'	1.70	0.88
23:EB:22:THR:HG22	23:EB:24:HIS:H	1.37	0.88
34:EM:274:HIS:HA	34:EM:277:PHE:CD1	2.06	0.88
1:F1:1918:U:H2'	1:F1:1919:A:C5'	2.04	0.88
1:F1:253:G:H2'	1:F1:254:G:H5''	1.56	0.88
25:GD:82:ARG:HB3	25:GD:112:LEU:HD22	1.53	0.88
36:GO:106:LEU:HD21	36:GO:138:LEU:HD21	1.56	0.88
1:H1:253:G:H2'	1:H1:254:G:H5''	1.55	0.88
23:EB:376:LYS:NZ	9:HJ:40:SER:O	2.07	0.88
1:A1:1895:U:OP1	50:A1:4125:HOH:O	1.91	0.88
1:A1:439:A:N6	1:A1:538:A:C2	2.41	0.88
20:B2:32:C:H2'	20:B2:33:C:H6	1.38	0.88
33:BL:34:PRO:HG2	33:BL:37:HIS:HB3	1.53	0.88
25:CD:82:ARG:HB3	25:CD:112:LEU:HD22	1.56	0.88
24:CC:34:ARG:NH1	1:D1:698:G:OP1	2.04	0.88
20:E2:74:A:N6	20:E2:88:G:H1'	1.87	0.88
1:F1:2666:G:O6	1:F1:2669:A:N6	2.07	0.88
1:F1:2766:A:H2'	1:F1:2767:A:H5'	1.55	0.88
1:F1:532:G:H2'	1:F1:533:G:C8	2.09	0.88
2:FA:44:MET:HA	2:FA:44:MET:HE2	1.54	0.88
33:GL:202:ARG:HH12	18:HU:27:ALA:HB2	1.39	0.88
1:H1:1920:A:OP2	50:H1:4179:HOH:O	1.92	0.88
1:H1:459:G:H22	1:H1:517:A:H2'	1.39	0.88
1:H1:795:G:HO2'	1:H1:796:A:H8	0.92	0.88
35:GN:92:ARG:NH2	1:H1:809:A:H4'	1.89	0.88
1:A1:1901:C:H5''	1:A1:1902:C:H5'	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2862:G:OP2	50:A1:4262:HOH:O	1.90	0.88
1:A1:842:A:C8	2:AA:15:THR:HG23	2.08	0.88
1:A1:511:U:H5''	14:AO:70:VAL:HG21	1.56	0.88
43:BV:100:LEU:HD21	43:BV:127:VAL:HG11	1.55	0.88
1:D1:2246:G:H2'	1:D1:2247:A:C8	2.08	0.88
1:F1:1360:C:H2'	1:F1:1361:U:H5''	1.55	0.88
20:G2:36:G:C5'	1:H1:57:G:H2'	2.04	0.88
28:GG:15:UNK:HG3	28:GG:65:UNK:CA	2.03	0.88
31:GJ:10:GLN:HG3	31:GJ:129:ILE:CG2	2.03	0.88
1:H1:1901:C:H5''	1:H1:1902:C:H5'	1.55	0.88
9:HJ:143:ALA:O	9:HJ:144:ASN:ND2	2.05	0.88
1:A1:1370:A:C2'	1:A1:1371:G:H5''	2.04	0.88
1:A1:2404:G:H4'	50:A1:3771:HOH:O	1.73	0.88
1:A1:532:G:H2'	1:A1:533:G:C8	2.08	0.88
18:AU:53:GLN:O	18:AU:113:ARG:NH1	2.06	0.88
20:B2:85:C:H4'	20:B2:85:C:OP1	1.73	0.88
20:C2:147:G:H21	27:CF:54:GLN:HE22	1.22	0.88
27:CF:62:GLN:OE1	1:D1:2574:U:N3	2.07	0.88
1:D1:1185:A:H2'	1:D1:1186:A:H5''	1.54	0.88
1:D1:47:G:O6	50:D1:3735:HOH:O	1.91	0.88
19:DX:167:LYS:HA	19:DX:188:THR:CG2	2.03	0.88
20:E2:147:G:H21	27:EF:54:GLN:HE22	1.20	0.88
35:EN:24:ASN:OD1	35:EN:27:HIS:HB2	1.74	0.88
29:GH:101:LYS:HB3	29:GH:121:LYS:HZ3	1.38	0.88
34:GM:64:ILE:HD13	34:GM:109:LEU:HD22	1.56	0.88
46:GY:10:ILE:HD11	46:GY:30:GLU:HB2	1.56	0.88
1:H1:2899:C:H5''	1:H1:2900:G:OP1	1.73	0.88
1:H1:615:G:H21	8:HH:79:LYS:CE	1.85	0.88
1:A1:2180:G:H1'	50:A1:4198:HOH:O	1.73	0.88
1:A1:2255:U:O2'	1:A1:2256:G:H5'	1.74	0.88
1:A1:459:G:H22	1:A1:517:A:H2'	1.37	0.88
1:A1:750:G:C2'	1:A1:751:C:H5''	2.04	0.88
1:A1:832:A:H2	1:A1:2406:U:HO2'	1.14	0.88
18:DU:132:LYS:HA	18:DU:135:LEU:HD12	1.56	0.88
20:E2:36:G:C5'	1:F1:57:G:H2'	2.04	0.88
33:EL:182:LYS:NZ	1:F1:280:G:O6	2.06	0.88
27:EF:100:LYS:NZ	1:F1:119:A:H2'	1.89	0.88
45:EX:79:ARG:HH12	1:F1:1448:G:H4'	1.38	0.88
1:F1:1901:C:H5''	1:F1:1902:C:H5'	1.56	0.88
1:F1:987:A:O2'	50:F1:4478:HOH:O	1.91	0.88
1:F1:979:U:H1'	17:FT:12:GLN:HE21	1.35	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1360:C:H2'	1:H1:1361:U:H5''	1.52	0.88
1:H1:2275:A:O2'	1:H1:2276:A:O5'	1.91	0.88
13:AN:130:LYS:NZ	1:H1:2663:A:OP2	2.06	0.88
1:H1:2766:A:H2'	1:H1:2767:A:H5'	1.55	0.88
1:H1:71:U:O2'	1:H1:72:A:OP1	1.92	0.88
22:GA:208:VAL:HG21	1:H1:941:G:C6	2.08	0.88
1:A1:1881:C:H5''	1:A1:1882:A:OP2	1.74	0.87
1:A1:2575:G:O6	27:BF:233:LYS:HB2	1.74	0.87
1:A1:3055:U:O4	50:A1:4133:HOH:O	1.91	0.87
1:A1:3226:A:C2	5:AE:84:GLY:HA3	2.09	0.87
1:A1:958:A:H3'	1:A1:959:G:C5'	2.03	0.87
24:BC:70:GLU:O	24:BC:82:PRO:HA	1.74	0.87
33:CL:93:LYS:NZ	1:D1:2589:U:OP1	2.06	0.87
1:D1:115:G:H4'	1:D1:116:U:OP1	1.70	0.87
1:D1:2256:G:OP2	1:D1:2256:G:H2'	1.73	0.87
7:DG:35:ARG:NH1	13:DN:77:LEU:HB2	1.90	0.87
1:D1:1710:U:OP2	12:DM:42:LYS:NZ	2.07	0.87
24:EC:65:MET:CE	24:EC:97:PHE:HB2	2.03	0.87
1:F1:3109:C:H3'	10:FK:111:ARG:HH12	1.34	0.87
21:G3:83:G:OP1	50:G3:302:HOH:O	1.90	0.87
30:GI:159:ARG:HD2	30:GI:162:ARG:NH2	1.89	0.87
1:H1:3162:A:H4'	1:H1:3163:A:OP1	1.75	0.87
1:H1:433:C:H5''	1:H1:434:A:OP2	1.73	0.87
1:H1:579:G:H1'	19:HX:158:ASN:N	1.88	0.87
1:A1:2693:A:OP2	50:A1:4834:HOH:O	1.91	0.87
1:A1:2931:G:OP1	50:A1:4150:HOH:O	1.91	0.87
1:A1:622:G:H4'	1:A1:623:G:OP2	1.74	0.87
7:AG:74:ASN:HB3	7:AG:86:ARG:HB2	1.54	0.87
8:AH:13:ARG:HH22	8:AH:17:LYS:CG	1.85	0.87
31:BJ:10:GLN:HG3	31:BJ:129:ILE:CG2	2.03	0.87
22:CA:71:LYS:HE3	22:CA:73:ASN:OD1	1.73	0.87
1:D1:3176:A:H4'	1:D1:3177:G:C5'	2.03	0.87
1:D1:729:A:O2'	1:D1:810:G:N2	2.06	0.87
1:D1:71:U:O2'	1:D1:72:A:OP1	1.91	0.87
13:DN:54:THR:HB	13:DN:57:MET:HG3	1.54	0.87
22:EA:114:VAL:CG1	22:EA:165:ALA:HB1	2.04	0.87
1:F1:291:C:C2'	1:F1:292:C:H5''	2.04	0.87
1:H1:1580:G:H4'	1:H1:1581:C:OP2	1.73	0.87
1:H1:3291:G:O2'	1:H1:3292:U:O5'	1.90	0.87
1:H1:711:U:H3	1:H1:718:A:H61	1.16	0.87
1:H1:615:G:H21	8:HH:79:LYS:HE2	1.35	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1185:A:C2'	1:A1:1186:A:H5''	2.05	0.87
1:A1:3176:A:H4'	1:A1:3177:G:C5'	2.03	0.87
9:AJ:187:ASN:HD21	9:AJ:207:GLY:HA3	1.36	0.87
37:BP:27:ILE:HA	37:BP:30:TYR:HD2	1.40	0.87
24:CC:65:MET:CE	24:CC:97:PHE:HB2	2.04	0.87
1:D1:790:C:H4'	1:D1:791:C:OP1	1.74	0.87
29:EH:158:LYS:NZ	1:F1:2840:C:N3	2.23	0.87
44:EW:10:ASP:OD1	44:EW:108:THR:HG22	1.74	0.87
13:FN:83:THR:HG22	13:FN:85:TYR:H	1.39	0.87
21:G3:26:C:OP1	34:GM:56:THR:HG21	1.73	0.87
1:H1:1392:G:OP2	50:H1:3727:HOH:O	1.93	0.87
1:H1:2416:U:H5'	1:H1:2416:U:H6	1.40	0.87
1:H1:439:A:N6	1:H1:538:A:C2	2.42	0.87
35:GN:91:GLU:HG2	1:H1:701:A:H3'	1.56	0.87
1:A1:3061:A:OP2	50:A1:4383:HOH:O	1.91	0.87
20:C2:32:C:H2'	20:C2:33:C:H6	1.37	0.87
22:CA:208:VAL:HG21	1:D1:941:G:C6	2.09	0.87
23:CB:278:LYS:NZ	23:CB:325:CYS:O	2.06	0.87
43:CV:85:ARG:HA	43:CV:131:ILE:HG12	1.57	0.87
1:D1:1181:A:H4'	1:D1:1182:C:OP2	1.73	0.87
1:D1:2128:C:OP1	50:D1:4187:HOH:O	1.90	0.87
1:D1:3291:G:O2'	1:D1:3292:U:O5'	1.92	0.87
34:EM:179:ARG:HE	34:EM:185:ARG:HH22	1.21	0.87
37:EP:83:ARG:NH2	1:F1:2717:G:H5''	1.89	0.87
26:EE:178:TYR:HB2	10:FK:85:LEU:HD13	1.56	0.87
23:GB:282:ARG:NH1	23:GB:291:ASN:O	2.06	0.87
1:H1:40:C:C2'	1:H1:41:A:H5''	2.04	0.87
1:H1:467:A:C6	1:H1:512:G:C2	2.62	0.87
1:H1:625:C:C2'	1:H1:626:C:H5'	2.05	0.87
1:A1:2348:G:O6	50:A1:4566:HOH:O	1.93	0.87
1:A1:46:A:O3'	50:A1:3725:HOH:O	1.93	0.87
1:A1:79:C:O3'	33:BL:201:ARG:NH2	2.06	0.87
29:BH:159:PHE:HB3	29:BH:163:GLN:NE2	1.90	0.87
1:D1:2217:C:H4'	1:D1:2218:A:OP2	1.71	0.87
1:D1:2862:G:OP2	50:D1:4363:HOH:O	1.93	0.87
1:D1:433:C:H5''	1:D1:434:A:OP2	1.74	0.87
5:DE:102:VAL:HG22	5:DE:170:LEU:HD21	1.56	0.87
1:D1:1379:G:N1	5:DE:22:ASP:OD2	2.07	0.87
13:DN:4:PHE:CD1	13:DN:4:PHE:N	2.33	0.87
21:E3:40:C:H5''	21:E3:41:G:OP2	1.74	0.87
24:EC:308:VAL:CG1	35:EN:40:ARG:HH11	1.85	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2390:G:C5	50:F1:3945:HOH:O	2.26	0.87
1:F1:114:A:C4'	16:FQ:37:ARG:HH22	1.87	0.87
40:GS:81:VAL:HB	40:GS:84:ILE:HG13	1.56	0.87
1:H1:40:C:H2'	1:H1:41:A:C5'	2.03	0.87
1:A1:1184:U:OP2	50:A1:3942:HOH:O	1.93	0.87
28:BG:33:UNK:HG3	28:BG:36:UNK:HG2	1.56	0.87
24:CC:82:PRO:HB2	24:CC:96:ALA:HB3	1.56	0.87
32:CK:48:GLU:OE1	32:CK:48:GLU:HA	1.74	0.87
1:D1:1185:A:C2'	1:D1:1186:A:H5''	2.04	0.87
29:EH:55:ASP:O	29:EH:131:ILE:HG12	1.73	0.87
44:EW:65:ASN:OD1	1:F1:3047:U:H5	1.58	0.87
1:F1:1109:A:H1'	1:F1:1110:U:OP2	1.74	0.87
1:F1:1418:G:O6	50:F1:4632:HOH:O	1.92	0.87
27:GF:126:LYS:CE	27:GF:135:LEU:HD13	2.05	0.87
42:GU:92:ILE:O	42:GU:95:LYS:HG2	1.71	0.87
7:HG:38:THR:HG22	7:HG:93:LEU:HD22	1.56	0.87
1:A1:2253:U:H2'	1:A1:2254:A:H8	1.37	0.87
5:AE:102:VAL:HG22	5:AE:170:LEU:HD21	1.54	0.87
32:BK:48:GLU:OE1	32:BK:48:GLU:HA	1.72	0.87
34:BM:64:ILE:HD13	34:BM:109:LEU:HD22	1.57	0.87
45:CX:31:ASP:OD1	45:CX:32:SER:N	2.06	0.87
9:DJ:143:ALA:O	9:DJ:144:ASN:ND2	2.08	0.87
29:EH:101:LYS:HB3	29:EH:121:LYS:HZ2	1.35	0.87
1:F1:433:C:H5''	1:F1:434:A:OP2	1.74	0.87
13:FN:54:THR:HB	13:FN:57:MET:HG3	1.55	0.87
27:GF:19:ASN:HB3	27:GF:20:PRO:HD3	1.55	0.87
13:HN:54:THR:HB	13:HN:57:MET:HG3	1.56	0.87
1:A1:1923:G:O6	50:A1:4465:HOH:O	1.93	0.87
1:A1:211:A:H3'	24:BC:229:ASN:HD21	1.40	0.87
1:A1:2944:A:OP2	50:A1:4193:HOH:O	1.93	0.87
22:BA:230:ALA:HB3	22:BA:235:LYS:HG3	1.55	0.87
24:BC:89:THR:HG22	24:BC:91:ARG:H	1.39	0.87
32:BK:61:ARG:HA	35:BN:172:ARG:HH12	1.39	0.87
33:BL:26:ARG:HB3	33:BL:30:TYR:HE1	1.38	0.87
1:D1:1108:A:H4'	1:D1:1109:A:OP1	1.75	0.87
1:D1:1895:U:C5'	50:D1:4214:HOH:O	2.21	0.87
22:EA:30:TYR:HB2	22:EA:124:ARG:HA	1.56	0.87
34:EM:106:ALA:HA	34:EM:171:ILE:HD11	1.55	0.87
46:EY:32:THR:HG22	46:EY:69:TRP:O	1.74	0.87
22:EA:35:PHE:CE1	1:F1:2520:G:H2'	2.10	0.87
38:GQ:103:ASN:ND2	1:H1:388:A:H1'	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:790:C:H4'	1:A1:791:C:OP1	1.74	0.87
11:AL:5:ILE:HG22	11:AL:6:THR:N	1.89	0.87
1:A1:620:A:N7	24:BC:319:ARG:NH1	2.21	0.87
22:CA:30:TYR:HB2	22:CA:124:ARG:HA	1.56	0.87
30:CI:84:ARG:HE	30:CI:89:HIS:CD2	1.92	0.87
32:CK:142:GLY:CA	18:DU:173:ARG:NH2	2.38	0.87
34:CM:56:THR:HG22	34:CM:58:THR:H	1.37	0.87
45:CX:80:ASN:HB2	45:CX:81:PRO:HD2	1.54	0.87
38:CQ:103:ASN:HD21	1:D1:388:A:C1'	1.87	0.87
1:D1:749:U:O4	50:D1:4055:HOH:O	1.92	0.87
1:F1:1370:A:C2'	1:F1:1371:G:H5''	2.04	0.87
1:F1:2575:G:H4'	1:F1:2576:C:OP1	1.71	0.87
37:GP:152:VAL:HG22	19:HX:138:ILE:HD13	1.56	0.87
41:GT:22:ARG:HE	41:GT:32:PHE:HD2	1.23	0.87
1:H1:1186:A:O2'	1:H1:1187:C:OP2	1.93	0.87
1:H1:1932:A:OP2	50:H1:3908:HOH:O	1.92	0.87
19:HX:188:THR:O	19:HX:189:PHE:CD2	2.27	0.87
1:A1:1753:A:H4'	1:A1:1754:G:OP2	1.74	0.86
24:BC:105:ARG:HH11	24:BC:105:ARG:HG2	1.37	0.86
35:BN:82:VAL:HG22	35:BN:102:CYS:HB3	1.56	0.86
38:BQ:120:GLN:HB3	38:BQ:149:GLU:HG2	1.57	0.86
24:CC:65:MET:HE3	24:CC:105:ARG:HD3	1.56	0.86
25:CD:133:ARG:HG3	25:CD:152:GLN:O	1.75	0.86
35:CN:158:GLN:HB3	50:D1:4779:HOH:O	1.72	0.86
1:D1:2411:U:OP1	50:D1:4114:HOH:O	1.92	0.86
1:D1:625:C:C2'	1:D1:626:C:H5'	2.04	0.86
32:EK:60:MET:O	35:EN:172:ARG:NH1	2.08	0.86
34:EM:125:VAL:HG21	34:EM:205:PHE:CE1	2.10	0.86
35:EN:73:ASN:H	35:EN:76:ASN:HB2	1.40	0.86
38:EQ:120:GLN:HB3	38:EQ:149:GLU:HG2	1.57	0.86
41:ET:22:ARG:HE	41:ET:32:PHE:HD2	1.19	0.86
1:F1:904:U:O2'	1:F1:905:G:P	2.32	0.86
29:GH:55:ASP:O	29:GH:131:ILE:HG12	1.73	0.86
46:GY:45:VAL:HG23	46:GY:45:VAL:O	1.75	0.86
1:H1:2309:U:O2'	50:H1:3958:HOH:O	1.93	0.86
27:GF:43:ARG:NH1	1:H1:2521:A:N1	2.21	0.86
24:GC:319:ARG:NH1	1:H1:620:A:N7	2.23	0.86
1:A1:47:G:C6	50:A1:3732:HOH:O	2.27	0.86
25:BD:37:LEU:HD12	25:BD:67:VAL:HG12	1.55	0.86
34:BM:274:HIS:HA	34:BM:277:PHE:CD1	2.09	0.86
23:CB:81:CYS:HB3	23:CB:203:VAL:HG21	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CY:7:LYS:HG3	1:D1:1950:C:H3'	1.55	0.86
1:D1:1902:C:O2'	1:D1:1903:A:OP2	1.93	0.86
1:D1:2519:A:H2'	1:D1:2520:G:C8	2.10	0.86
1:D1:958:A:H3'	1:D1:959:G:C5'	2.03	0.86
1:D1:114:A:C4'	16:DQ:37:ARG:HH22	1.87	0.86
27:EF:21:LEU:HD21	13:FN:122:TYR:CE2	2.09	0.86
33:EL:6:TYR:HA	16:FQ:45:ILE:HD11	1.57	0.86
1:F1:2128:C:OP1	50:F1:3986:HOH:O	1.92	0.86
22:EA:244:THR:HG21	1:F1:2239:A:O4'	1.75	0.86
24:EC:319:ARG:HH22	1:F1:620:A:H8	1.18	0.86
45:GX:31:ASP:OD1	45:GX:32:SER:N	2.06	0.86
1:H1:1448:G:H2'	1:H1:1449:C:H6	1.40	0.86
1:H1:630:G:H2'	1:H1:631:G:O4'	1.75	0.86
41:BT:47:LYS:NZ	9:HJ:171:ASP:OD2	2.07	0.86
1:A1:3227:A:C5'	5:AE:57:ARG:HH12	1.87	0.86
21:B3:40:C:H5''	21:B3:41:G:OP2	1.74	0.86
45:BX:31:ASP:OD1	45:BX:32:SER:N	2.08	0.86
24:CC:163:VAL:HA	24:CC:166:TYR:CE2	2.10	0.86
22:CA:244:THR:HG21	1:D1:2239:A:O4'	1.75	0.86
1:D1:2411:U:OP1	50:D1:4112:HOH:O	1.93	0.86
1:D1:2890:A:OP2	50:D1:4728:HOH:O	1.94	0.86
1:D1:443:G:OP1	5:DE:16:SER:OG	1.93	0.86
20:E2:58:U:H3	20:E2:65:C:H5	1.18	0.86
22:EA:208:VAL:HG21	1:F1:941:G:C6	2.10	0.86
24:EC:107:PHE:HE2	1:F1:686:U:H1'	1.39	0.86
24:EC:242:ASN:HD21	1:F1:718:A:H4'	1.39	0.86
31:EJ:16:LYS:NZ	1:F1:3081:C:C5	2.43	0.86
1:F1:1186:A:O2'	1:F1:1187:C:OP2	1.93	0.86
1:F1:2519:A:H2'	1:F1:2520:G:C8	2.10	0.86
1:F1:459:G:H22	1:F1:517:A:H2'	1.41	0.86
4:FC:95:THR:HG22	4:FC:99:LYS:HE3	1.58	0.86
5:FE:69:LEU:HD23	5:FE:71:SER:OG	1.75	0.86
30:GI:86:MET:CE	1:H1:1201:G:H21	1.88	0.86
1:H1:281:G:H4'	1:H1:282:G:C8	2.11	0.86
23:GB:121:ASN:HB3	1:H1:3275:A:N6	1.90	0.86
1:H1:832:A:H62	1:H1:959:G:H1	1.20	0.86
1:A1:1920:A:OP2	50:A1:4468:HOH:O	1.93	0.86
1:A1:2114:C:OP1	50:A1:4140:HOH:O	1.93	0.86
1:A1:253:G:H2'	1:A1:254:G:H5''	1.54	0.86
1:A1:47:G:H1'	1:A1:48:U:OP2	1.74	0.86
11:AL:91:ILE:HG12	13:AN:144:PHE:HE2	1.36	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:106:LEU:HD21	36:BO:138:LEU:HD21	1.56	0.86
1:D1:2347:A:OP2	50:D1:4691:HOH:O	1.92	0.86
1:D1:518:G:H4'	1:D1:519:A:OP2	1.73	0.86
9:DJ:160:LEU:HG	9:DJ:193:ILE:HD13	1.54	0.86
11:DL:5:ILE:HG22	11:DL:6:THR:N	1.88	0.86
33:CL:15:GLN:OE1	16:DQ:52:ALA:HB1	1.74	0.86
1:F1:1185:A:C3'	1:F1:1186:A:H5''	2.03	0.86
1:F1:1185:A:H2'	1:F1:1186:A:H5''	1.56	0.86
1:F1:1599:G:C2'	1:F1:1600:U:H5'	2.06	0.86
9:FJ:143:ALA:O	9:FJ:144:ASN:ND2	2.08	0.86
22:GA:210:HIS:CD2	22:GA:212:HIS:H	1.89	0.86
24:GC:238:VAL:HG21	24:GC:262:ALA:HA	1.57	0.86
1:H1:1096:G:H2'	1:H1:1097:G:H5''	1.58	0.86
1:H1:2149:U:H2'	1:H1:2150:U:H5'	1.57	0.86
1:H1:532:G:H2'	1:H1:533:G:C8	2.08	0.86
12:HM:45:VAL:HB	12:HM:51:ASN:ND2	1.90	0.86
1:A1:3162:A:H4'	1:A1:3163:A:OP1	1.75	0.86
21:C3:65:G:OP2	50:C3:331:HOH:O	1.90	0.86
1:D1:291:C:C2'	1:D1:292:C:H5''	2.05	0.86
21:E3:83:G:H1	21:E3:93:G:H22	1.22	0.86
43:EV:141:ILE:O	43:EV:145:ILE:HG13	1.75	0.86
1:F1:2415:C:C2'	1:F1:2416:U:H5''	2.06	0.86
1:F1:958:A:H3'	1:F1:959:G:C5'	2.03	0.86
21:G3:21:G:H4'	34:GM:277:PHE:CD1	2.09	0.86
24:GC:89:THR:HG22	24:GC:91:ARG:H	1.38	0.86
1:H1:1168:C:OP1	50:H1:3755:HOH:O	1.93	0.86
1:H1:1313:A:H4'	1:H1:1314:A:OP1	1.75	0.86
1:H1:971:C:H2'	1:H1:972:U:H5'	1.56	0.86
1:H1:978:G:OP2	17:HT:12:GLN:NE2	2.09	0.86
1:A1:1185:A:H2'	1:A1:1186:A:H5''	1.56	0.86
1:A1:3044:A:H2'	1:A1:3074:G:H1	1.38	0.86
9:AJ:160:LEU:HG	9:AJ:193:ILE:HD13	1.58	0.86
29:BH:101:LYS:HB3	29:BH:121:LYS:HZ2	1.40	0.86
34:BM:125:VAL:HG21	34:BM:205:PHE:CE1	2.11	0.86
1:A1:1365:C:O3'	45:BX:62:ASP:HB2	1.73	0.86
27:CF:62:GLN:HE21	27:CF:229:ILE:HD13	1.41	0.86
40:CS:81:VAL:HB	40:CS:84:ILE:HG13	1.56	0.86
46:CY:15:GLY:O	46:CY:23:ARG:NH1	2.08	0.86
1:D1:1434:G:H2'	1:D1:1435:C:C5'	2.04	0.86
1:D1:40:C:C2'	1:D1:41:A:H5''	2.06	0.86
1:D1:452:U:C5'	14:DO:56:GLN:HE22	1.87	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:459:G:H22	1:D1:517:A:H2'	1.40	0.86
1:D1:671:A:O2'	50:D1:4020:HOH:O	1.94	0.86
24:EC:36:ASP:OD1	35:EN:23:THR:HB	1.75	0.86
1:F1:2275:A:O2'	1:F1:2276:A:O5'	1.94	0.86
1:F1:361:A:C2'	1:F1:362:G:H5''	2.03	0.86
35:EN:91:GLU:HG2	1:F1:701:A:H3'	1.56	0.86
16:FQ:57:ARG:O	16:FQ:60:GLU:HG2	1.75	0.86
18:FU:132:LYS:HA	18:FU:135:LEU:HD12	1.55	0.86
24:GC:107:PHE:HE1	1:H1:827:C:HO2'	1.22	0.86
21:G3:44:C:O2'	34:GM:152:ARG:HD3	1.76	0.86
1:H1:3226:A:C2	5:HE:84:GLY:HA3	2.10	0.86
1:A1:518:G:H4'	1:A1:519:A:OP2	1.73	0.86
1:A1:820:G:O6	50:A1:3969:HOH:O	1.93	0.86
18:AU:173:ARG:NH2	32:BK:142:GLY:CA	2.38	0.86
35:BN:73:ASN:H	35:BN:76:ASN:HB2	1.41	0.86
45:BX:69:LEU:HD11	45:BX:75:LYS:HG3	1.56	0.86
27:CF:19:ASN:HB3	27:CF:20:PRO:HD3	1.54	0.86
1:D1:1478:A:N7	50:D1:4241:HOH:O	2.09	0.86
1:D1:2334:C:H4'	1:D1:2335:U:OP1	1.73	0.86
1:D1:622:G:H4'	1:D1:623:G:OP2	1.73	0.86
1:D1:711:U:H3	1:D1:718:A:H61	1.22	0.86
1:D1:1658:G:N7	13:DN:17:ARG:NH1	2.23	0.86
17:DT:16:SER:O	50:DT:104:HOH:O	1.93	0.86
24:EC:163:VAL:HA	24:EC:166:TYR:CE2	2.10	0.86
9:DJ:123:ARG:NH2	9:FJ:123:ARG:HG2	1.90	0.86
30:GI:53:PHE:HE2	30:GI:144:VAL:HG11	1.36	0.86
35:GN:52:ARG:CB	35:GN:84:THR:HG21	2.01	0.86
1:H1:2519:A:H2'	1:H1:2520:G:C8	2.10	0.86
7:HG:62:LEU:HB3	13:HN:4:PHE:CE2	2.11	0.86
18:HU:166:VAL:HA	18:HU:169:ILE:CD1	2.06	0.86
14:AO:90:VAL:HG12	14:AO:111:LEU:HD11	1.58	0.86
14:AO:19:ASN:HD21	45:BX:77:LEU:H	1.18	0.86
18:AU:169:ILE:CD1	32:BK:99:VAL:HB	2.06	0.86
1:A1:1354:C:OP1	43:BV:208:ARG:NH2	2.08	0.86
24:CC:89:THR:HG22	24:CC:91:ARG:H	1.41	0.86
34:CM:163:LEU:HD21	34:CM:175:HIS:CG	2.11	0.86
1:D1:1101:U:H5'	17:DT:49:ASN:HD22	1.39	0.86
1:D1:1753:A:H4'	1:D1:1754:G:OP2	1.74	0.86
1:D1:1881:C:H5''	1:D1:1882:A:OP2	1.75	0.86
33:EL:26:ARG:HB3	33:EL:30:TYR:HE1	1.37	0.86
43:EV:162:ASP:OD1	43:EV:163:ASN:N	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1181:A:H4'	1:F1:1182:C:OP2	1.75	0.86
19:FX:25:ALA:HA	19:FX:73:LEU:HG	1.58	0.86
23:GB:171:GLN:HB2	1:H1:3273:U:H4'	1.55	0.86
1:H1:2576:C:H6	1:H1:2576:C:C5'	1.88	0.86
1:H1:2999:U:O4	50:H1:4347:HOH:O	1.93	0.86
38:GQ:103:ASN:HD21	1:H1:388:A:H1'	1.39	0.86
1:A1:467:A:C6	1:A1:512:G:C2	2.63	0.86
9:AJ:152:CYS:HB2	9:AJ:161:VAL:HG22	1.56	0.86
24:BC:82:PRO:HB2	24:BC:96:ALA:HB3	1.55	0.86
1:A1:146:U:O2'	27:BF:128:GLY:HA2	1.74	0.86
1:D1:1370:A:C2'	1:D1:1371:G:H5''	2.05	0.86
38:CQ:134:ALA:HB2	1:D1:905:G:C5'	2.05	0.86
4:DC:95:THR:HG22	4:DC:99:LYS:HE3	1.56	0.86
23:EB:81:CYS:HB3	23:EB:203:VAL:HG21	1.55	0.86
30:EI:196:PHE:CE2	6:FF:110:ARG:HD2	2.11	0.86
34:EM:56:THR:HG22	34:EM:58:THR:H	1.40	0.86
1:F1:1383:G:H4'	1:F1:1383:G:OP1	1.76	0.86
1:F1:40:C:H2'	1:F1:41:A:C5'	2.04	0.86
35:GN:82:VAL:HG22	35:GN:102:CYS:HB3	1.55	0.86
1:H1:439:A:H5''	5:HE:126:HIS:ND1	1.91	0.86
1:H1:1379:G:N1	5:HE:22:ASP:OD2	2.08	0.86
19:HX:175:LYS:NZ	19:HX:178:ARG:HH11	1.73	0.86
1:A1:215:G:N7	50:A1:3823:HOH:O	2.06	0.86
1:A1:2273:C:C2'	1:A1:2274:A:H5''	2.05	0.86
1:A1:2519:A:H2'	1:A1:2520:G:H8	1.39	0.86
1:A1:2542:U:H4'	1:A1:2543:C:OP1	1.73	0.86
8:AH:56:VAL:HG22	8:AH:106:VAL:HA	1.58	0.86
27:BF:19:ASN:HB3	27:BF:20:PRO:HD3	1.56	0.86
30:BI:53:PHE:CE2	30:BI:144:VAL:HG11	2.11	0.86
6:AF:110:ARG:HD2	30:BI:196:PHE:CE2	2.11	0.86
24:CC:105:ARG:HH11	24:CC:105:ARG:HG2	1.39	0.86
35:CN:24:ASN:OD1	35:CN:27:HIS:HB2	1.76	0.86
41:CT:22:ARG:HE	41:CT:32:PHE:HD2	1.19	0.86
1:D1:2415:C:H2'	1:D1:2416:U:H5''	1.57	0.86
23:EB:210:ASN:HD22	23:EB:351:ILE:HA	1.41	0.86
29:EH:47:PRO:HB3	29:EH:171:TRP:CH2	2.10	0.86
1:F1:1392:G:OP2	50:F1:3784:HOH:O	1.94	0.86
27:GF:36:GLN:HG3	27:GF:37:PRO:HD2	1.57	0.86
32:GK:81:TRP:CZ2	32:GK:123:VAL:HG22	2.11	0.86
33:GL:14:LYS:NZ	1:H1:268:G:H5''	1.89	0.86
1:H1:1374:C:H5''	1:H1:1375:A:OP1	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1599:G:C2'	1:H1:1600:U:H5'	2.06	0.86
1:A1:1832:G:OP2	50:A1:4419:HOH:O	1.92	0.85
1:A1:1902:C:O2'	1:A1:1903:A:OP2	1.94	0.85
1:A1:2416:U:H5'	1:A1:2416:U:H6	1.41	0.85
1:A1:625:C:C2'	1:A1:626:C:H5'	2.05	0.85
1:A1:971:C:H2'	1:A1:972:U:H5'	1.55	0.85
22:BA:119:GLU:N	22:BA:123:ASP:OD2	2.09	0.85
22:BA:42:ILE:HD12	22:BA:43:ARG:H	1.41	0.85
25:BD:135:GLY:O	25:BD:138:VAL:HG23	1.76	0.85
21:C3:96:U:O4	50:C3:313:HOH:O	1.94	0.85
27:CF:36:GLN:HG3	27:CF:37:PRO:HD2	1.57	0.85
1:D1:1062:A:H2'	1:D1:1063:C:H5'	1.58	0.85
1:D1:2416:U:H5'	1:D1:2416:U:H6	1.40	0.85
24:CC:6:GLN:HE21	1:D1:471:A:H4'	1.40	0.85
1:D1:654:U:OP2	50:D1:3922:HOH:O	1.93	0.85
20:E2:85:C:OP1	20:E2:85:C:H4'	1.74	0.85
21:E3:46:C:OP1	34:EM:158:ARG:HG3	1.75	0.85
24:EC:70:GLU:O	24:EC:82:PRO:HA	1.75	0.85
32:EK:81:TRP:CZ2	32:EK:123:VAL:HG22	2.10	0.85
1:F1:1507:A:O2'	1:F1:1882:A:H2'	1.74	0.85
1:F1:284:U:C5	1:F1:305:A:H5''	2.10	0.85
8:FH:56:VAL:HG22	8:FH:106:VAL:HA	1.56	0.85
22:GA:244:THR:HG21	1:H1:2239:A:O4'	1.75	0.85
1:H1:1682:G:N7	50:H1:3829:HOH:O	2.09	0.85
24:GC:74:THR:CG2	1:H1:2397:A:H2'	2.06	0.85
1:A1:832:A:H62	1:A1:959:G:H1	1.22	0.85
24:CC:70:GLU:O	24:CC:82:PRO:HA	1.76	0.85
42:CU:92:ILE:O	42:CU:95:LYS:HG2	1.76	0.85
1:D1:1374:C:H5''	1:D1:1375:A:OP1	1.75	0.85
1:D1:2390:G:C5	50:D1:4151:HOH:O	2.26	0.85
7:DG:47:ASN:ND2	7:DG:73:SER:HB3	1.91	0.85
34:EM:12:TYR:OH	1:F1:2677:U:OP1	1.92	0.85
1:F1:47:G:H1'	1:F1:48:U:OP2	1.76	0.85
24:EC:376:TRP:CB	1:F1:564:A:O2'	2.24	0.85
1:F1:1710:U:OP1	12:FM:44:LYS:NZ	2.07	0.85
22:GA:119:GLU:N	22:GA:123:ASP:OD2	2.08	0.85
1:H1:2415:C:C2'	1:H1:2416:U:H5''	2.05	0.85
1:H1:361:A:C2'	1:H1:362:G:H5''	2.06	0.85
1:A1:1599:G:C2'	1:A1:1600:U:H5'	2.06	0.85
9:AJ:23:TYR:HA	9:AJ:46:ILE:CG2	2.06	0.85
21:B3:21:G:H4'	34:BM:277:PHE:CD2	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:92:ILE:O	42:BU:95:LYS:HG2	1.77	0.85
29:CH:101:LYS:HB3	29:CH:121:LYS:HZ2	1.40	0.85
35:CN:73:ASN:H	35:CN:76:ASN:HB2	1.41	0.85
1:D1:1109:A:H1'	1:D1:1110:U:OP2	1.75	0.85
1:D1:1235:U:H6	10:DK:109:ASN:HD21	1.19	0.85
1:D1:2246:G:H2'	1:D1:2247:A:H8	1.41	0.85
1:D1:2666:G:O6	1:D1:2669:A:N6	2.09	0.85
32:EK:27:LYS:NZ	1:F1:826:A:OP1	2.09	0.85
46:EY:45:VAL:HG23	46:EY:45:VAL:O	1.73	0.85
23:EB:121:ASN:HB3	1:F1:3275:A:N6	1.91	0.85
1:F1:630:G:H2'	1:F1:631:G:O4'	1.77	0.85
8:FH:13:ARG:HH22	8:FH:17:LYS:CG	1.88	0.85
9:FJ:54:GLY:HA3	9:FJ:75:THR:HG22	1.58	0.85
33:GL:26:ARG:HB3	33:GL:30:TYR:HE1	1.39	0.85
27:GF:44:PHE:O	1:H1:2518:A:O2'	1.93	0.85
1:H1:2666:G:O6	1:H1:2669:A:N6	2.09	0.85
1:H1:3008:U:O4	50:H1:4286:HOH:O	1.94	0.85
1:H1:904:U:O2'	1:H1:905:G:P	2.34	0.85
11:HL:91:ILE:HG12	13:HN:144:PHE:CE2	2.09	0.85
1:A1:1758:U:H4'	1:A1:1759:C:OP2	1.74	0.85
1:A1:26:C:H2'	1:A1:27:C:H5'	1.58	0.85
18:AU:169:ILE:HD11	32:BK:99:VAL:HB	1.56	0.85
29:CH:47:PRO:HB3	29:CH:171:TRP:CH2	2.12	0.85
1:D1:2353:C:N3	50:D1:4465:HOH:O	2.08	0.85
2:DA:44:MET:HA	2:DA:44:MET:CE	2.05	0.85
24:EC:25:LEU:HD12	24:EC:26:PRO:HD2	1.59	0.85
30:EI:86:MET:CE	1:F1:1201:G:H21	1.89	0.85
1:F1:47:G:OP2	50:F1:3626:HOH:O	1.93	0.85
1:F1:622:G:O2'	5:FE:26:THR:O	1.94	0.85
20:G2:134:C:O2'	20:G2:135:A:OP1	1.94	0.85
28:GG:81:UNK:HG3	1:H1:1308:U:C2'	2.07	0.85
34:GM:177:GLU:HA	34:GM:180:PHE:HD2	1.41	0.85
37:GP:139:VAL:HG21	19:HX:30:ILE:HD11	1.57	0.85
1:H1:2181:U:OP1	50:H1:3957:HOH:O	1.94	0.85
1:H1:299:G:C2'	1:H1:300:G:H5''	2.07	0.85
1:A1:1114:C:H2'	1:A1:1115:U:H5'	1.58	0.85
1:A1:686:U:H1'	24:BC:107:PHE:HE2	1.40	0.85
12:AM:45:VAL:HB	12:AM:51:ASN:ND2	1.90	0.85
24:CC:25:LEU:HD12	24:CC:26:PRO:HD2	1.59	0.85
34:CM:6:VAL:HG12	1:D1:1065:U:OP1	1.75	0.85
24:CC:311:ALA:H	35:CN:40:ARG:NH2	1.74	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2247:A:H2'	1:D1:2248:G:C8	2.11	0.85
2:DA:28:HIS:CD2	2:DA:31:LYS:H	1.94	0.85
24:EC:119:ARG:NH2	1:F1:704:G:O2'	2.09	0.85
27:EF:196:VAL:HG13	27:EF:200:ASP:HB2	1.56	0.85
1:F1:40:C:C2'	1:F1:41:A:H5''	2.05	0.85
30:GI:184:PRO:O	30:GI:187:LYS:HG2	1.77	0.85
1:H1:115:G:H4'	1:H1:116:U:OP1	1.73	0.85
1:A1:1096:G:H2'	1:A1:1097:G:H5''	1.56	0.85
22:BA:114:VAL:CG1	22:BA:165:ALA:HB1	2.05	0.85
23:BB:81:CYS:HB3	23:BB:203:VAL:HG21	1.59	0.85
35:BN:24:ASN:OD1	35:BN:27:HIS:HB2	1.75	0.85
20:C2:58:U:H3	20:C2:65:C:H5	1.23	0.85
24:CC:227:LEU:HA	24:CC:230:ILE:HD12	1.58	0.85
32:CK:14:HIS:ND1	50:CK:203:HOH:O	2.10	0.85
1:D1:1185:A:C3'	1:D1:1186:A:H5''	2.07	0.85
1:D1:1337:G:OP1	50:D1:4382:HOH:O	1.94	0.85
1:D1:1383:G:H4'	1:D1:1383:G:OP1	1.76	0.85
1:D1:1599:G:C2'	1:D1:1600:U:H5'	2.06	0.85
38:CQ:82:GLN:NE2	1:D1:2383:U:O2'	2.09	0.85
1:D1:2934:A:H5''	1:D1:2935:G:O5'	1.77	0.85
1:D1:1518:G:OP1	2:DA:14:LYS:NZ	2.09	0.85
18:DU:166:VAL:HA	18:DU:169:ILE:CD1	2.06	0.85
20:E2:4:A:N6	50:E2:329:HOH:O	2.09	0.85
1:F1:711:U:H3	1:F1:718:A:H61	1.20	0.85
4:FC:19:THR:HG21	4:FC:72:CYS:SG	2.16	0.85
21:G3:40:C:H5''	21:G3:41:G:OP2	1.75	0.85
23:GB:81:CYS:HB3	23:GB:203:VAL:HG21	1.55	0.85
34:GM:3:PHE:HZ	1:H1:1041:C:C2	1.94	0.85
35:GN:73:ASN:H	35:GN:76:ASN:HB2	1.40	0.85
1:H1:1434:G:H2'	1:H1:1435:C:H5''	1.58	0.85
1:H1:1445:G:C2'	1:H1:1446:C:H5''	2.06	0.85
1:H1:1595:A:C5	1:H1:1596:U:H1'	2.12	0.85
23:GB:171:GLN:NE2	1:H1:3273:U:OP1	2.09	0.85
45:GX:43:ARG:NH1	1:H1:662:C:OP2	2.09	0.85
9:AJ:54:GLY:HA3	9:AJ:75:THR:HG22	1.59	0.85
20:B2:58:U:H3	20:B2:65:C:H5	1.24	0.85
34:CM:125:VAL:HG21	34:CM:205:PHE:CE1	2.11	0.85
30:EI:196:PHE:CE1	6:FF:111:VAL:HG22	2.11	0.85
37:EP:27:ILE:HA	37:EP:30:TYR:HD2	1.41	0.85
46:EY:10:ILE:HD11	46:EY:30:GLU:HB2	1.56	0.85
1:F1:1321:A:O2'	1:F1:1322:G:O5'	1.93	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2416:U:H6	1:F1:2416:U:H5'	1.42	0.85
1:F1:3162:A:H4'	1:F1:3163:A:OP1	1.76	0.85
7:FG:63:ALA:HB1	13:FN:2:ALA:HB1	1.59	0.85
32:EK:99:VAL:HB	18:FU:169:ILE:CD1	2.07	0.85
1:H1:1185:A:C3'	1:H1:1186:A:H5''	2.06	0.85
20:G2:96:A:O2'	2:HA:83:THR:O	1.94	0.85
46:GY:61:LYS:NZ	11:HL:49:CYS:O	2.09	0.85
1:A1:2766:A:H2'	1:A1:2767:A:H5'	1.58	0.85
22:BA:134:TYR:HB3	22:BA:169:ILE:HG12	1.58	0.85
24:BC:36:ASP:OD1	35:BN:23:THR:HB	1.76	0.85
26:CE:38:PHE:CE2	26:CE:71:ILE:HG23	2.12	0.85
1:D1:1758:U:H4'	1:D1:1759:C:OP2	1.77	0.85
20:E2:134:C:O2'	20:E2:135:A:OP1	1.95	0.85
34:EM:163:LEU:HD21	34:EM:175:HIS:CG	2.12	0.85
43:EV:93:HIS:CD2	43:EV:95:ASP:HB2	2.12	0.85
45:EX:77:LEU:H	14:FO:19:ASN:HD21	1.24	0.85
1:F1:2244:G:H2'	1:F1:2245:G:C8	2.11	0.85
1:F1:3047:U:H4'	1:F1:3048:A:OP2	1.75	0.85
35:GN:21:LYS:O	1:H1:696:A:H5''	1.76	0.85
28:GG:31:UNK:CA	1:H1:1257:G:H4'	2.06	0.85
1:H1:1507:A:O2'	1:H1:1882:A:H2'	1.76	0.85
1:H1:1902:C:O2'	1:H1:1903:A:OP2	1.95	0.85
1:H1:2295:G:N7	50:H1:4198:HOH:O	2.07	0.85
24:GC:376:TRP:HB3	1:H1:564:A:O2'	1.75	0.85
1:H1:790:C:H4'	1:H1:791:C:OP1	1.75	0.85
6:HF:32:ASN:OD1	6:HF:34:ASN:N	2.09	0.85
1:A1:1181:A:H4'	1:A1:1182:C:OP2	1.76	0.85
2:AA:44:MET:HA	2:AA:44:MET:CE	2.07	0.85
1:A1:3151:G:OP1	8:AH:64:LYS:HG3	1.77	0.85
20:B2:84:C:OP1	42:BU:3:LYS:HG2	1.77	0.85
1:A1:718:A:C4'	24:BC:242:ASN:HD21	1.89	0.85
1:A1:718:A:H4'	24:BC:242:ASN:HD21	1.41	0.85
20:C2:36:G:C5'	1:D1:57:G:H2'	2.06	0.85
1:D1:2544:U:H1'	7:DG:50:THR:CG2	2.06	0.85
1:D1:971:C:H2'	1:D1:972:U:H5'	1.56	0.85
45:EX:98:ILE:N	45:EX:123:ASN:HD21	1.73	0.85
1:F1:1108:A:H4'	1:F1:1109:A:OP1	1.74	0.85
1:F1:1753:A:H4'	1:F1:1754:G:OP2	1.75	0.85
1:F1:75:A:H8	18:FU:71:ARG:HH12	1.23	0.85
21:G3:63:A:N7	29:GH:209:LEU:HD11	1.91	0.85
28:GG:40:UNK:HG2	28:GG:102:UNK:HG1	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2128:C:OP1	50:H1:3897:HOH:O	1.94	0.85
1:H1:2370:G:OP2	50:H1:3762:HOH:O	1.95	0.85
19:HX:168:THR:H	19:HX:188:THR:HG23	1.41	0.85
1:A1:1580:G:H4'	1:A1:1581:C:OP2	1.74	0.85
1:A1:2254:A:C6	1:A1:2255:U:C4	2.65	0.85
25:BD:50:ALA:HB1	25:BD:59:ILE:CG2	2.07	0.85
34:BM:179:ARG:HE	34:BM:185:ARG:HH22	1.25	0.85
28:CG:33:UNK:HG3	28:CG:36:UNK:HG2	1.57	0.85
30:CI:61:MET:CE	30:CI:68:GLY:HA3	2.07	0.85
43:CV:93:HIS:CD2	43:CV:95:ASP:HB2	2.12	0.85
1:D1:1731:G:H21	11:DL:54:ASN:ND2	1.75	0.85
19:DX:7:GLN:OE1	19:DX:79:TYR:HB3	1.77	0.85
20:E2:32:C:H2'	20:E2:33:C:H6	1.39	0.85
1:F1:1430:G:N7	50:F1:3789:HOH:O	2.10	0.85
9:FJ:88:LEU:HD12	9:FJ:89:PRO:HD2	1.58	0.85
19:FX:158:ASN:HD21	19:FX:160:ALA:HB3	1.38	0.85
29:GH:18:PRO:O	29:GH:23:ASN:ND2	2.10	0.85
34:GM:3:PHE:HZ	1:H1:1041:C:O2	1.57	0.85
1:H1:832:A:H2	1:H1:2406:U:HO2'	0.91	0.85
1:A1:1186:A:O2'	1:A1:1187:C:OP2	1.94	0.84
24:BC:283:TYR:CE1	24:BC:285:LEU:HD23	2.12	0.84
1:A1:388:A:C1'	38:BQ:103:ASN:HD21	1.88	0.84
34:CM:106:ALA:HA	34:CM:171:ILE:HD11	1.58	0.84
45:CX:98:ILE:N	45:CX:123:ASN:HD21	1.73	0.84
1:D1:1434:G:H2'	1:D1:1435:C:H5''	1.59	0.84
11:DL:5:ILE:HG22	11:DL:6:THR:H	1.41	0.84
12:DM:45:VAL:HB	12:DM:51:ASN:ND2	1.92	0.84
26:EE:126:ALA:HB2	26:EE:132:ILE:HD11	1.56	0.84
28:EG:40:UNK:HG2	28:EG:102:UNK:HG1	1.59	0.84
28:EG:22:UNK:HG2	28:EG:92:UNK:HB1	1.59	0.84
1:F1:1114:C:H2'	1:F1:1115:U:H5'	1.57	0.84
1:F1:2576:C:H6	1:F1:2576:C:C5'	1.89	0.84
2:FA:28:HIS:CD2	2:FA:31:LYS:H	1.94	0.84
12:FM:45:VAL:HB	12:FM:51:ASN:ND2	1.91	0.84
24:GC:167:GLU:HG2	24:GC:222:THR:HG21	1.58	0.84
24:GC:395:ASP:CG	37:GP:154:ARG:HH22	1.80	0.84
30:GI:61:MET:CE	30:GI:68:GLY:HA3	2.07	0.84
1:H1:1037:A:H2'	1:H1:1038:G:H8	1.42	0.84
24:GC:242:ASN:ND2	1:H1:718:A:H4'	1.92	0.84
18:HU:132:LYS:HA	18:HU:135:LEU:HD12	1.58	0.84
32:GK:88:THR:HG23	18:HU:164:LYS:NZ	1.90	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1313:A:H4'	1:A1:1314:A:OP1	1.77	0.84
17:AT:47:ILE:O	17:AT:55:LYS:NZ	2.09	0.84
22:BA:210:HIS:CD2	22:BA:212:HIS:H	1.91	0.84
1:A1:2521:A:N1	27:BF:43:ARG:NH1	2.25	0.84
23:CB:210:ASN:HD22	23:CB:351:ILE:HA	1.42	0.84
27:CF:121:LYS:HD3	1:D1:118:A:N7	1.91	0.84
1:D1:2576:C:H6	1:D1:2576:C:C5'	1.90	0.84
1:D1:284:U:C5	1:D1:305:A:H5''	2.09	0.84
24:EC:242:ASN:HD21	1:F1:718:A:C4'	1.89	0.84
27:EF:100:LYS:NZ	1:F1:120:A:OP1	2.10	0.84
45:EX:62:ASP:HB2	1:F1:1365:C:O3'	1.77	0.84
32:GK:48:GLU:HA	32:GK:48:GLU:OE1	1.74	0.84
35:GN:24:ASN:OD1	35:GN:27:HIS:HB2	1.75	0.84
37:GP:13:LYS:NZ	1:H1:1021:U:OP1	2.09	0.84
1:H1:2334:C:H4'	1:H1:2335:U:OP1	1.75	0.84
1:H1:1101:U:H5'	17:HT:49:ASN:ND2	1.91	0.84
1:A1:2394:A:N7	50:A1:4263:HOH:O	2.08	0.84
1:A1:444:A:C2	1:A1:533:G:N2	2.45	0.84
1:A1:643:A:O2'	5:AE:131:LYS:HE2	1.77	0.84
7:AG:13:LYS:HB2	7:AG:100:ILE:HD12	1.58	0.84
7:AG:47:ASN:ND2	7:AG:73:SER:HB3	1.91	0.84
9:AJ:88:LEU:HD12	9:AJ:89:PRO:HD2	1.59	0.84
29:BH:47:PRO:HB3	29:BH:171:TRP:CH2	2.12	0.84
16:AQ:37:ARG:NH2	33:BL:2:GLY:N	2.24	0.84
42:BU:34:ILE:HA	42:BU:37:ILE:HD12	1.58	0.84
24:CC:36:ASP:OD1	35:CN:23:THR:HB	1.78	0.84
38:CQ:120:GLN:HB3	38:CQ:149:GLU:HG2	1.58	0.84
38:CQ:131:THR:HG23	1:D1:1533:G:H22	1.42	0.84
1:D1:2596:G:OP2	50:D1:4111:HOH:O	1.95	0.84
27:EF:44:PHE:O	1:F1:2518:A:O2'	1.94	0.84
1:F1:842:A:OP2	50:F1:3892:HOH:O	1.94	0.84
7:FG:47:ASN:ND2	7:FG:73:SER:HB3	1.92	0.84
30:GI:84:ARG:HE	30:GI:89:HIS:CD2	1.95	0.84
9:HJ:54:GLY:HA3	9:HJ:75:THR:HG22	1.59	0.84
1:A1:1534:C:OP1	38:BQ:129:ARG:NH2	2.10	0.84
1:A1:2899:C:OP1	50:A1:4435:HOH:O	1.95	0.84
32:CK:81:TRP:CZ2	32:CK:123:VAL:HG22	2.12	0.84
34:CM:3:PHE:HZ	1:D1:1041:C:O2	1.60	0.84
1:D1:1114:C:H2'	1:D1:1115:U:H5'	1.59	0.84
1:D1:1597:U:H2'	1:D1:1598:C:C6	2.13	0.84
1:D1:2542:U:H4'	1:D1:2543:C:OP1	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:171:GLN:NE2	1:F1:3273:U:OP1	2.10	0.84
1:F1:71:U:O2'	1:F1:72:A:OP1	1.96	0.84
6:FF:32:ASN:OD1	6:FF:34:ASN:N	2.09	0.84
24:GC:65:MET:HE3	24:GC:105:ARG:HD3	1.60	0.84
35:GN:89:ASN:HD22	35:GN:109:THR:CG2	1.90	0.84
1:H1:1109:A:H1'	1:H1:1110:U:OP2	1.77	0.84
1:H1:1321:A:O2'	1:H1:1322:G:O5'	1.94	0.84
1:H1:3044:A:H2'	1:H1:3074:G:H1	1.42	0.84
1:A1:1185:A:C3'	1:A1:1186:A:H5''	2.05	0.84
1:A1:1595:A:C5	1:A1:1596:U:H1'	2.12	0.84
45:CX:62:ASP:HB2	1:D1:1365:C:O3'	1.78	0.84
1:D1:2932:U:H5''	1:D1:2933:G:OP2	1.76	0.84
2:DA:44:MET:HA	2:DA:44:MET:HE2	1.60	0.84
19:DX:25:ALA:HB1	19:DX:71:ARG:O	1.77	0.84
28:EG:15:UNK:HG3	28:EG:65:UNK:CA	2.03	0.84
1:F1:2273:C:C2'	1:F1:2274:A:H5''	2.06	0.84
1:F1:2720:G:C2'	1:F1:2721:G:H5'	2.07	0.84
17:FT:8:THR:HG22	17:FT:10:LYS:H	1.43	0.84
24:GC:119:ARG:NH2	1:H1:704:G:O2'	2.09	0.84
1:H1:1370:A:C2'	1:H1:1371:G:H5''	2.06	0.84
1:H1:219:A:H2	1:H1:1416:U:H2'	1.42	0.84
19:HX:158:ASN:HD21	19:HX:160:ALA:HB3	1.40	0.84
1:A1:1379:G:N1	5:AE:22:ASP:OD2	2.11	0.84
5:AE:69:LEU:HD23	5:AE:71:SER:OG	1.77	0.84
29:BH:18:PRO:O	29:BH:23:ASN:ND2	2.09	0.84
21:C3:40:C:H5''	21:C3:41:G:OP2	1.78	0.84
29:CH:55:ASP:O	29:CH:131:ILE:HG12	1.78	0.84
22:EA:210:HIS:CD2	22:EA:212:HIS:H	1.90	0.84
27:EF:103:ARG:HG3	27:EF:107:GLN:NE2	1.93	0.84
1:F1:1051:C:H2'	1:F1:1052:A:O4'	1.78	0.84
1:F1:220:C:H4'	1:F1:221:A:OP2	1.78	0.84
1:F1:707:A:OP2	50:F1:4488:HOH:O	1.95	0.84
27:GF:122:PRO:CG	1:H1:119:A:C2	2.61	0.84
1:H1:2694:A:H4'	50:H1:4330:HOH:O	1.77	0.84
1:H1:418:G:O6	1:H1:2378:A:O2'	1.95	0.84
7:HG:13:LYS:HB2	7:HG:100:ILE:HD12	1.60	0.84
9:HJ:152:CYS:HB2	9:HJ:161:VAL:HG22	1.58	0.84
1:A1:1434:G:C2'	1:A1:1435:C:H5''	2.07	0.84
1:A1:2310:G:OP1	50:A1:4189:HOH:O	1.94	0.84
1:A1:57:G:O3'	1:A1:58:A:H4'	1.78	0.84
1:A1:701:A:H3'	35:BN:91:GLU:HG2	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:728:G:OP2	50:A1:3782:HOH:O	1.93	0.84
4:AC:95:THR:HG22	4:AC:99:LYS:HE3	1.59	0.84
20:B2:74:A:N6	20:B2:88:G:H1'	1.91	0.84
21:B3:8:G:P	34:BM:33:ARG:HH12	2.00	0.84
34:BM:106:ALA:HA	34:BM:171:ILE:HD11	1.58	0.84
33:CL:30:TYR:HE2	33:CL:63:ARG:HD3	1.38	0.84
21:C3:13:A:O2'	34:CM:24:ARG:NH2	2.11	0.84
30:CI:86:MET:CE	1:D1:1201:G:H21	1.91	0.84
1:D1:2766:A:H2'	1:D1:2767:A:H5'	1.57	0.84
1:D1:805:A:H4'	1:D1:806:G:OP2	1.78	0.84
6:DF:107:ASP:O	6:DF:111:VAL:HG23	1.76	0.84
8:DH:54:LYS:NZ	8:DH:108:LEU:O	2.09	0.84
23:EB:278:LYS:NZ	23:EB:325:CYS:O	2.10	0.84
30:EI:84:ARG:HE	30:EI:89:HIS:CD2	1.96	0.84
35:EN:89:ASN:HD22	35:EN:109:THR:CG2	1.91	0.84
1:F1:971:C:H2'	1:F1:972:U:H5'	1.57	0.84
13:FN:24:VAL:HG23	13:FN:138:PHE:CE1	2.13	0.84
43:GV:141:ILE:O	43:GV:145:ILE:HG13	1.77	0.84
1:H1:2665:G:H4'	1:H1:2666:G:O5'	1.78	0.84
1:H1:531:C:C2'	1:H1:532:G:H5'	2.08	0.84
1:A1:1374:C:H5''	1:A1:1375:A:OP1	1.77	0.84
1:A1:1597:U:H2'	1:A1:1598:C:C6	2.13	0.84
1:A1:2320:G:N7	50:A1:4085:HOH:O	2.11	0.84
1:A1:291:C:C2'	1:A1:292:C:H5''	2.06	0.84
1:A1:591:G:H2'	1:A1:592:A:C8	2.12	0.84
17:AT:8:THR:HG22	17:AT:10:LYS:H	1.43	0.84
27:BF:126:LYS:CE	27:BF:135:LEU:HD13	2.06	0.84
1:D1:284:U:H1'	50:D1:3848:HOH:O	1.75	0.84
24:EC:238:VAL:HG21	24:EC:262:ALA:HA	1.57	0.84
1:F1:2265:A:H5''	1:F1:2265:A:H8	1.42	0.84
1:F1:531:C:C2'	1:F1:532:G:H5'	2.08	0.84
2:FA:44:MET:HA	2:FA:44:MET:CE	2.08	0.84
34:GM:179:ARG:HE	34:GM:185:ARG:HH22	1.26	0.84
41:GT:15:ILE:HG12	41:GT:34:LEU:HD13	1.60	0.84
1:H1:1753:A:H4'	1:H1:1754:G:OP2	1.75	0.84
1:H1:447:G:O6	50:H1:4465:HOH:O	1.95	0.84
30:GI:197:GLY:HA2	6:HF:99:LYS:HD3	1.59	0.84
1:A1:2370:G:OP2	50:A1:3944:HOH:O	1.95	0.84
2:AA:83:THR:O	20:B2:96:A:O2'	1.96	0.84
13:AN:83:THR:HG22	13:AN:85:TYR:H	1.41	0.84
43:BV:93:HIS:CD2	43:BV:95:ASP:HB2	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CG:40:UNK:HG2	28:CG:102:UNK:HG1	1.58	0.84
47:CO:162:UNK:O	47:CO:165:UNK:HG3	1.78	0.84
1:D1:2575:G:H4'	1:D1:2576:C:OP1	1.75	0.84
21:E3:13:A:N3	34:EM:24:ARG:NH2	2.24	0.84
1:F1:1313:A:H4'	1:F1:1314:A:OP1	1.75	0.84
1:F1:3227:A:H1'	5:FE:86:PRO:HG3	1.59	0.84
1:F1:610:A:H2'	1:F1:611:A:C8	2.13	0.84
32:EK:68:ASN:HB3	18:FU:60:THR:HG23	1.60	0.84
21:G3:28:C:H2'	21:G3:29:C:H5'	1.60	0.84
24:GC:304:VAL:O	24:GC:308:VAL:HG23	1.77	0.84
38:GQ:131:THR:HG23	1:H1:1533:G:H22	1.43	0.84
4:HC:95:THR:HG22	4:HC:99:LYS:HE3	1.59	0.84
5:HE:102:VAL:HG22	5:HE:170:LEU:HD21	1.57	0.84
8:HH:13:ARG:HH22	8:HH:17:LYS:CG	1.90	0.84
1:A1:1201:G:H21	30:BI:86:MET:CE	1.89	0.84
1:A1:1383:G:H4'	1:A1:1383:G:OP1	1.77	0.84
21:B3:83:G:H22	21:B3:93:G:N2	1.76	0.84
24:BC:304:VAL:O	24:BC:308:VAL:HG23	1.77	0.84
47:CO:161:UNK:O	47:CO:164:UNK:HG3	1.77	0.84
1:D1:3008:U:O4	50:D1:4738:HOH:O	1.96	0.84
1:D1:3236:C:O2'	1:D1:3237:C:OP1	1.96	0.84
1:D1:630:G:H2'	1:D1:631:G:O4'	1.78	0.84
9:DJ:23:TYR:HA	9:DJ:46:ILE:CG2	2.07	0.84
16:DQ:57:ARG:O	16:DQ:60:GLU:HG2	1.77	0.84
32:EK:68:ASN:HB3	18:FU:60:THR:CG2	2.08	0.84
1:F1:1758:U:H4'	1:F1:1759:C:OP2	1.75	0.84
1:F1:2665:G:H4'	1:F1:2666:G:O5'	1.78	0.84
1:F1:26:C:H2'	1:F1:27:C:H5'	1.59	0.84
38:EQ:134:ALA:HB2	1:F1:905:G:C5'	2.07	0.84
11:FL:91:ILE:HG12	13:FN:144:PHE:CE2	2.12	0.84
19:FX:22:VAL:CG1	19:FX:40:GLN:HE21	1.91	0.84
20:G2:3:A:OP1	20:G2:4:A:N7	2.11	0.84
43:GV:93:HIS:CD2	43:GV:95:ASP:HB2	2.13	0.84
1:H1:2273:C:C2'	1:H1:2274:A:H5''	2.08	0.84
16:HQ:37:ARG:O	16:HQ:41:VAL:HG23	1.78	0.84
1:A1:146:U:H4'	1:A1:147:U:O5'	1.76	0.83
1:A1:2255:U:O2'	1:A1:2301:C:H5''	1.75	0.83
1:A1:299:G:C2'	1:A1:300:G:H5''	2.08	0.83
1:A1:3237:C:N4	8:AH:10:ALA:HA	1.92	0.83
24:BC:227:LEU:HA	24:BC:230:ILE:HD12	1.60	0.83
24:BC:238:VAL:HG21	24:BC:262:ALA:HA	1.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C3:10:C:C2	34:CM:20:TYR:HD1	1.96	0.83
30:CI:53:PHE:CE2	30:CI:144:VAL:HG11	2.12	0.83
37:CP:27:ILE:HA	37:CP:30:TYR:HD2	1.40	0.83
38:CQ:103:ASN:ND2	1:D1:388:A:O2'	2.11	0.83
9:DJ:54:GLY:HA3	9:DJ:75:THR:HG22	1.60	0.83
32:CK:99:VAL:HB	18:DU:169:ILE:HD11	1.59	0.83
23:EB:210:ASN:HD21	23:EB:352:ILE:H	1.25	0.83
24:EC:304:VAL:O	24:EC:308:VAL:HG23	1.77	0.83
43:EV:211:PHE:O	50:EV:305:HOH:O	1.96	0.83
1:F1:1798:U:H5'	1:F1:1799:C:H5'	1.60	0.83
1:F1:2246:G:O6	50:F1:4292:HOH:O	1.95	0.83
1:F1:2576:C:C2'	1:F1:2577:G:H5'	2.08	0.83
7:FG:13:LYS:HB2	7:FG:100:ILE:HD12	1.58	0.83
1:F1:114:A:H4'	16:FQ:37:ARG:HH22	1.43	0.83
27:GF:21:LEU:HD21	13:HN:122:TYR:CE2	2.13	0.83
1:H1:591:G:H2'	1:H1:592:A:C8	2.12	0.83
1:A1:1109:A:H1'	1:A1:1110:U:OP2	1.78	0.83
1:A1:1321:A:O2'	1:A1:1322:G:O5'	1.95	0.83
1:A1:219:A:H2	1:A1:1416:U:H2'	1.42	0.83
1:A1:40:C:H2'	1:A1:41:A:C5'	2.05	0.83
2:AA:44:MET:HA	2:AA:44:MET:HE2	1.58	0.83
34:BM:163:LEU:HD21	34:BM:175:HIS:CG	2.12	0.83
37:BP:21:THR:HA	37:BP:24:HIS:CD2	2.13	0.83
24:CC:304:VAL:O	24:CC:308:VAL:HG23	1.78	0.83
21:C3:7:G:O3'	34:CM:33:ARG:NH1	2.11	0.83
1:D1:219:A:H2	1:D1:1416:U:H2'	1.42	0.83
43:EV:133:PHE:CE1	43:EV:226:ASN:HB3	2.13	0.83
46:EY:7:LYS:HG3	1:F1:1950:C:H3'	1.59	0.83
1:F1:1374:C:H5'	1:F1:1375:A:OP1	1.78	0.83
1:F1:1597:U:H2'	1:F1:1598:C:C6	2.14	0.83
1:F1:2370:G:OP2	50:F1:3817:HOH:O	1.96	0.83
34:GM:125:VAL:HG21	34:GM:205:PHE:HE1	1.42	0.83
39:GR:73:THR:HG23	42:GU:37:ILE:HD13	1.58	0.83
1:H1:1737:A:N1	1:H1:1754:G:O2'	2.11	0.83
1:H1:2542:U:H4'	1:H1:2543:C:OP1	1.76	0.83
2:HA:28:HIS:CD2	2:HA:31:LYS:H	1.95	0.83
33:GL:2:GLY:N	16:HQ:37:ARG:NH2	2.24	0.83
20:B2:25:U:H4'	20:B2:26:A:OP1	1.76	0.83
22:BA:219:HIS:HA	50:BA:304:HOH:O	1.78	0.83
22:BA:30:TYR:HB2	22:BA:124:ARG:HA	1.58	0.83
36:EO:106:LEU:HD21	36:EO:138:LEU:HD21	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:55:ALA:HB2	8:FH:109:TYR:HE1	1.44	0.83
11:FL:5:ILE:HG22	11:FL:6:THR:N	1.93	0.83
21:G3:104:C:C2'	21:G3:105:C:H5''	2.08	0.83
30:GI:113:ARG:HH11	1:H1:3162:A:N6	1.76	0.83
1:H1:787:U:O2	18:HU:179:ARG:NH2	2.11	0.83
1:A1:1108:A:H4'	1:A1:1109:A:OP1	1.76	0.83
1:A1:1776:G:H5''	50:A1:4698:HOH:O	1.78	0.83
1:A1:3167:U:H4'	1:A1:3168:A:C5'	2.08	0.83
1:A1:55:A:OP2	50:A1:3718:HOH:O	1.96	0.83
6:AF:11:ARG:HH21	6:AF:57:LYS:CA	1.91	0.83
29:BH:75:ASN:O	29:BH:79:PHE:HD1	1.62	0.83
1:D1:1011:U:OP1	50:D1:4329:HOH:O	1.94	0.83
1:D1:1048:U:H2'	1:D1:1049:U:C5'	2.07	0.83
1:D1:2720:G:C2'	1:D1:2721:G:H5'	2.08	0.83
1:D1:3227:A:H1'	5:DE:86:PRO:HG3	1.60	0.83
1:D1:444:A:C2	1:D1:533:G:N2	2.45	0.83
25:ED:50:ALA:HB1	25:ED:59:ILE:CG2	2.08	0.83
21:E3:8:G:OP1	34:EM:33:ARG:NH1	2.10	0.83
1:F1:1054:G:H2'	1:F1:1055:A:H8	1.43	0.83
1:F1:2328:C:OP2	50:F1:4301:HOH:O	1.95	0.83
23:GB:278:LYS:NZ	23:GB:325:CYS:O	2.10	0.83
27:GF:47:TRP:HB3	27:GF:51:ILE:CD1	2.06	0.83
29:GH:47:PRO:HB3	29:GH:171:TRP:CH2	2.13	0.83
40:GS:55:VAL:HG22	40:GS:105:LEU:HD23	1.59	0.83
13:HN:24:VAL:HG23	13:HN:138:PHE:CE1	2.14	0.83
1:A1:2519:A:H2'	1:A1:2520:G:C8	2.14	0.83
1:A1:418:G:H8	1:A1:418:G:H3'	1.42	0.83
1:A1:75:A:H8	18:AU:71:ARG:HH12	1.21	0.83
24:BC:308:VAL:CG1	35:BN:40:ARG:HH11	1.91	0.83
20:C2:25:U:H4'	20:C2:26:A:OP1	1.76	0.83
22:CA:210:HIS:CD2	22:CA:212:HIS:H	1.92	0.83
29:CH:18:PRO:O	29:CH:23:ASN:ND2	2.10	0.83
46:CY:45:VAL:HG23	46:CY:45:VAL:O	1.77	0.83
1:D1:1313:A:H4'	1:D1:1314:A:OP1	1.77	0.83
27:CF:128:GLY:HA2	1:D1:146:U:HO2'	1.38	0.83
1:D1:1504:C:OP2	50:D1:4211:HOH:O	1.96	0.83
1:D1:1798:U:H5''	1:D1:1799:C:H5'	1.60	0.83
1:D1:591:G:H2'	1:D1:592:A:C8	2.13	0.83
5:DE:69:LEU:HD23	5:DE:71:SER:OG	1.79	0.83
33:EL:201:ARG:NH2	1:F1:79:C:O3'	2.11	0.83
1:F1:1047:G:H1	1:F1:1057:U:H3	1.25	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1168:C:OP1	50:F1:3813:HOH:O	1.95	0.83
1:F1:1448:G:H2'	1:F1:1449:C:H6	1.43	0.83
24:EC:34:ARG:NH1	1:F1:698:G:OP1	2.12	0.83
15:FP:12:MET:HA	15:FP:15:TRP:CD1	2.14	0.83
23:GB:28:ARG:NH2	1:H1:3129:G:O6	2.11	0.83
44:GW:10:ASP:OD1	44:GW:108:THR:HG22	1.77	0.83
1:H1:3297:A:H5''	1:H1:3298:U:OP1	1.78	0.83
1:H1:444:A:C2	1:H1:533:G:N2	2.45	0.83
1:H1:610:A:H2'	1:H1:611:A:C8	2.14	0.83
2:HA:44:MET:HA	2:HA:44:MET:CE	2.07	0.83
4:AC:10:THR:HG22	4:AC:21:HIS:CD2	2.13	0.83
22:BA:253:GLU:OE2	22:GA:252:LYS:CG	2.26	0.83
24:BC:163:VAL:HA	24:BC:166:TYR:CE2	2.13	0.83
27:BF:50:TYR:CE1	27:BF:51:ILE:HG23	2.14	0.83
28:BG:40:UNK:HG2	28:BG:102:UNK:HG1	1.61	0.83
22:CA:42:ILE:HD12	22:CA:43:ARG:H	1.41	0.83
1:D1:2637:G:O6	50:D1:4905:HOH:O	1.97	0.83
1:D1:40:C:H2'	1:D1:41:A:C5'	2.08	0.83
1:D1:428:A:H2'	1:D1:429:A:H8	1.44	0.83
1:D1:47:G:H1'	1:D1:48:U:OP2	1.79	0.83
19:DX:168:THR:H	19:DX:188:THR:HG23	1.43	0.83
32:EK:48:GLU:OE1	32:EK:48:GLU:HA	1.77	0.83
34:EM:3:PHE:CE2	1:F1:1041:C:N3	2.47	0.83
1:F1:2130:G:OP2	50:F1:3965:HOH:O	1.97	0.83
1:F1:2718:U:OP1	50:F1:4473:HOH:O	1.96	0.83
1:F1:444:A:C2	1:F1:533:G:N2	2.46	0.83
1:F1:57:G:O3'	1:F1:58:A:H4'	1.78	0.83
1:F1:986:C:OP2	50:F1:3671:HOH:O	1.95	0.83
1:F1:3185:G:H8	8:FH:11:PRO:HD3	1.43	0.83
9:FJ:23:TYR:HA	9:FJ:46:ILE:CG2	2.08	0.83
19:FX:168:THR:H	19:FX:188:THR:HG23	1.44	0.83
21:G3:83:G:H1	21:G3:93:G:H22	1.26	0.83
23:GB:162:THR:HG21	23:GB:175:HIS:CD2	2.13	0.83
20:G2:147:G:H21	27:GF:54:GLN:HE22	1.26	0.83
1:H1:1597:U:H2'	1:H1:1598:C:C6	2.13	0.83
1:H1:1758:U:H4'	1:H1:1759:C:OP2	1.74	0.83
5:HE:55:ALA:HB2	8:HH:109:TYR:HE1	1.43	0.83
8:HH:54:LYS:NZ	8:HH:108:LEU:O	2.11	0.83
9:HJ:23:TYR:HA	9:HJ:46:ILE:CG2	2.08	0.83
1:A1:1598:C:H3'	1:A1:1599:G:H8	1.44	0.83
1:A1:610:A:H2'	1:A1:611:A:C8	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AX:25:ALA:HA	19:AX:73:LEU:HG	1.61	0.83
32:BK:81:TRP:CZ2	32:BK:123:VAL:HG22	2.13	0.83
22:CA:230:ALA:HB3	22:CA:235:LYS:HG3	1.61	0.83
43:CV:208:ARG:NH2	1:D1:1354:C:OP1	2.11	0.83
46:CY:4:ARG:NH1	1:D1:881:G:N2	2.26	0.83
38:EQ:131:THR:HG23	1:F1:1533:G:H22	1.43	0.83
30:GI:196:PHE:CE1	6:HF:111:VAL:HG22	2.14	0.83
37:GP:27:ILE:HA	37:GP:30:TYR:HD2	1.41	0.83
1:H1:2396:A:N6	50:H1:4023:HOH:O	2.10	0.83
1:H1:26:C:H2'	1:H1:27:C:H5'	1.61	0.83
19:HX:25:ALA:HA	19:HX:73:LEU:HG	1.60	0.83
1:A1:2576:C:C2'	1:A1:2577:G:H5'	2.08	0.83
1:A1:3325:G:C4	41:BT:58:ARG:NH2	2.46	0.83
8:AH:13:ARG:HG2	8:AH:15:TRP:CE3	2.13	0.83
1:A1:1146:C:H42	17:AT:10:LYS:NZ	1.76	0.83
20:B2:86:G:O6	40:BS:113:SER:OG	1.97	0.83
21:B3:28:C:H2'	21:B3:29:C:H5'	1.59	0.83
20:C2:105:A:H5'	20:C2:106:A:C5'	2.09	0.83
22:CA:130:ALA:HB3	22:CA:133:CYS:SG	2.19	0.83
43:CV:98:ARG:HH11	43:CV:98:ARG:CG	1.92	0.83
1:D1:1448:G:H2'	1:D1:1449:C:H6	1.44	0.83
1:D1:3058:G:OP2	50:D1:4511:HOH:O	1.96	0.83
20:C2:96:A:O2'	2:DA:83:THR:O	1.97	0.83
6:DF:11:ARG:HH21	6:DF:57:LYS:CA	1.92	0.83
1:D1:452:U:C5'	14:DO:56:GLN:NE2	2.38	0.83
1:F1:2542:U:H4'	1:F1:2543:C:OP1	1.76	0.83
1:F1:790:C:H4'	1:F1:791:C:OP1	1.75	0.83
19:FX:22:VAL:HG23	19:FX:78:ILE:CD1	2.09	0.83
1:H1:2371:G:O2'	1:H1:2372:G:C8	2.32	0.83
7:HG:62:LEU:HD11	13:HN:84:ARG:HB2	1.61	0.83
16:AQ:57:ARG:O	16:AQ:60:GLU:HG2	1.77	0.83
25:BD:133:ARG:HG3	25:BD:152:GLN:O	1.79	0.83
27:BF:103:ARG:HG3	27:BF:107:GLN:NE2	1.94	0.83
25:CD:135:GLY:O	25:CD:138:VAL:HG23	1.78	0.83
30:CI:184:PRO:O	30:CI:187:LYS:HG2	1.78	0.83
1:D1:220:C:H4'	1:D1:221:A:OP2	1.78	0.83
1:D1:2273:C:C2'	1:D1:2274:A:H5''	2.09	0.83
1:D1:2330:G:OP2	50:D1:4596:HOH:O	1.96	0.83
1:D1:3162:A:H4'	1:D1:3163:A:OP1	1.77	0.83
1:D1:610:A:H2'	1:D1:611:A:C8	2.14	0.83
7:DG:13:LYS:HB2	7:DG:100:ILE:HD12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:E2:3:A:OP1	20:E2:4:A:N7	2.12	0.83
35:EN:170:GLU:OE2	50:EN:301:HOH:O	1.95	0.83
1:F1:1667:A:O2'	1:F1:1668:A:OP1	1.97	0.83
23:EB:118:PHE:HE2	1:F1:2989:G:H21	1.19	0.83
1:F1:3227:A:C5'	5:FE:57:ARG:NH1	2.40	0.83
1:F1:2219:A:OP1	16:FQ:78:ARG:NH2	2.12	0.83
20:G2:58:U:H3	20:G2:65:C:H5	1.21	0.83
21:G3:13:A:O2'	34:GM:24:ARG:NH2	2.12	0.83
35:GN:16:VAL:HG12	35:GN:17:VAL:N	1.93	0.83
1:H1:1185:A:C2'	1:H1:1186:A:H5''	2.08	0.83
1:H1:1504:C:OP2	50:H1:3917:HOH:O	1.95	0.83
1:H1:1798:U:H5''	1:H1:1799:C:H5'	1.59	0.83
1:H1:1775:A:H4'	15:HP:34:LYS:HZ1	1.43	0.83
1:A1:2576:C:C5'	1:A1:2576:C:H6	1.92	0.83
1:A1:3227:A:H5''	5:AE:57:ARG:NH1	1.94	0.83
1:A1:531:C:C2'	1:A1:532:G:H5'	2.09	0.83
13:AN:24:VAL:HG23	13:AN:138:PHE:CE1	2.13	0.83
14:AO:69:LYS:HG2	14:AO:70:VAL:H	1.44	0.83
43:BV:133:PHE:CE1	43:BV:226:ASN:HB3	2.14	0.83
24:CC:238:VAL:HG21	24:CC:262:ALA:HA	1.61	0.83
34:CM:179:ARG:HE	34:CM:185:ARG:HH22	1.25	0.83
1:D1:645:A:H1'	1:D1:646:A:OP2	1.79	0.83
32:EK:142:GLY:CA	18:FU:173:ARG:NH2	2.40	0.83
1:F1:3044:A:H2'	1:F1:3074:G:H1	1.42	0.83
20:G2:100:C:P	39:GR:56:ARG:HH22	2.01	0.83
22:GA:71:LYS:HE3	22:GA:73:ASN:OD1	1.79	0.83
24:GC:36:ASP:OD1	35:GN:23:THR:HB	1.77	0.83
1:H1:1185:A:H2'	1:H1:1186:A:H5''	1.60	0.83
45:GX:79:ARG:HH12	1:H1:1448:G:H4'	1.43	0.83
7:HG:63:ALA:HB1	13:HN:2:ALA:HB1	1.60	0.83
1:A1:1753:A:H3'	1:A1:1754:G:H5''	1.60	0.82
1:A1:3175:A:N6	6:AF:16:ASN:HD21	1.76	0.82
1:A1:868:G:C2'	1:A1:869:G:H5'	2.09	0.82
1:A1:905:G:OP2	38:BQ:133:ARG:HD2	1.79	0.82
2:AA:20:ARG:NH1	20:B2:111:A:C6	2.46	0.82
6:AF:32:ASN:OD1	6:AF:34:ASN:N	2.11	0.82
11:AL:91:ILE:HG12	13:AN:144:PHE:CE2	2.13	0.82
35:BN:52:ARG:NH1	35:BN:141:ARG:HE	1.77	0.82
24:CC:290:LEU:HD21	35:CN:30:LEU:HD13	1.58	0.82
1:D1:1595:A:C5	1:D1:1596:U:H1'	2.14	0.82
1:D1:2255:U:H1'	1:D1:2256:G:OP1	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2991:U:O4	50:D1:4819:HOH:O	1.97	0.82
1:D1:3230:G:N7	5:DE:119:ARG:NH1	2.26	0.82
19:DX:25:ALA:HA	19:DX:73:LEU:HG	1.60	0.82
22:EA:119:GLU:N	22:EA:123:ASP:OD2	2.10	0.82
35:EN:16:VAL:HG12	35:EN:17:VAL:N	1.93	0.82
38:EQ:103:ASN:HD21	1:F1:388:A:C1'	1.90	0.82
42:EU:34:ILE:HA	42:EU:37:ILE:HD12	1.59	0.82
22:EA:70:TYR:HD2	1:F1:1674:C:H4'	1.44	0.82
1:F1:3167:U:H4'	1:F1:3168:A:C5'	2.08	0.82
1:F1:591:G:H2'	1:F1:592:A:C8	2.14	0.82
1:D1:1047:G:OP1	13:FN:3:LYS:NZ	2.11	0.82
33:GL:14:LYS:HZ1	1:H1:268:G:H5''	1.43	0.82
1:H1:2695:G:OP1	50:H1:4334:HOH:O	1.96	0.82
1:H1:2720:G:C2'	1:H1:2721:G:H5'	2.09	0.82
1:H1:470:C:O2	1:H1:509:A:N6	2.11	0.82
24:GC:107:PHE:HE2	1:H1:686:U:H1'	1.42	0.82
8:AH:54:LYS:NZ	8:AH:108:LEU:O	2.12	0.82
23:BB:22:THR:HG22	23:BB:24:HIS:H	1.42	0.82
24:BC:25:LEU:HD12	24:BC:26:PRO:HD2	1.61	0.82
28:CG:22:UNK:HG2	28:CG:92:UNK:HB1	1.61	0.82
34:CM:221:ASN:O	34:CM:225:GLN:HG2	1.77	0.82
43:CV:141:ILE:O	43:CV:145:ILE:HG13	1.79	0.82
1:D1:146:U:H4'	1:D1:147:U:O5'	1.77	0.82
1:D1:1594:C:C4	1:D1:1595:A:N7	2.47	0.82
1:D1:1922:G:O6	50:D1:4599:HOH:O	1.97	0.82
1:D1:1234:G:OP1	10:DK:119:ASN:ND2	2.12	0.82
27:CF:21:LEU:HD21	13:DN:122:TYR:CE2	2.13	0.82
38:EQ:129:ARG:NH2	1:F1:1534:C:OP1	2.11	0.82
1:F1:1682:G:N7	50:F1:3919:HOH:O	2.13	0.82
9:FJ:109:VAL:HG22	9:FJ:149:GLY:HA2	1.61	0.82
22:GA:134:TYR:HB3	22:GA:169:ILE:HG12	1.61	0.82
24:GC:163:VAL:HA	24:GC:166:TYR:CE2	2.14	0.82
28:GG:33:UNK:CG	28:GG:36:UNK:HG2	2.09	0.82
43:GV:85:ARG:HA	43:GV:131:ILE:HG12	1.60	0.82
1:H1:3344:U:H4'	1:H1:3345:A:OP2	1.78	0.82
1:H1:34:C:O2	50:H1:3632:HOH:O	1.95	0.82
1:A1:696:A:H2'	1:A1:697:A:C5'	2.08	0.82
5:AE:181:ASN:N	5:AE:184:ASP:OD2	2.10	0.82
43:CV:95:ASP:OD2	50:CV:302:HOH:O	1.96	0.82
1:D1:361:A:C2'	1:D1:362:G:H5''	2.09	0.82
1:D1:531:C:C2'	1:D1:532:G:H5'	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:E2:16:G:O6	50:E2:317:HOH:O	1.97	0.82
34:EM:5:LYS:HD3	1:F1:1064:C:C5'	2.09	0.82
11:FL:76:ARG:CZ	11:FL:84:HIS:HB3	2.08	0.82
19:FX:25:ALA:HB1	19:FX:71:ARG:O	1.79	0.82
22:GA:42:ILE:HD12	22:GA:43:ARG:H	1.39	0.82
45:GX:79:ARG:NH1	1:H1:1448:G:C4'	2.43	0.82
1:H1:753:A:N6	1:H1:766:G:H1'	1.93	0.82
1:H1:775:C:H5'	1:H1:776:C:OP2	1.79	0.82
9:HJ:88:LEU:HD12	9:HJ:89:PRO:HD2	1.60	0.82
1:A1:283:A:OP1	4:AC:39:ARG:NH1	2.11	0.82
1:A1:471:A:H4'	24:BC:6:GLN:HE21	1.44	0.82
23:BB:194:LYS:HA	23:BB:197:LEU:HD12	1.61	0.82
34:BM:129:TYR:HE1	34:BM:175:HIS:O	1.61	0.82
46:BY:45:VAL:O	46:BY:45:VAL:HG23	1.78	0.82
1:D1:26:C:H2'	1:D1:27:C:H5'	1.58	0.82
1:D1:2931:G:OP1	50:D1:4239:HOH:O	1.97	0.82
1:D1:299:G:C2'	1:D1:300:G:H5''	2.10	0.82
1:D1:3167:U:H4'	1:D1:3168:A:C5'	2.08	0.82
1:D1:3233:A:O2'	1:D1:3234:U:OP1	1.98	0.82
11:DL:76:ARG:CZ	11:DL:84:HIS:HB3	2.08	0.82
19:DX:22:VAL:HG23	19:DX:78:ILE:CD1	2.10	0.82
23:EB:171:GLN:HB2	1:F1:3273:U:H4'	1.60	0.82
27:EF:62:GLN:HE21	27:EF:229:ILE:HD13	1.42	0.82
1:F1:1660:U:O2'	13:FN:79:HIS:HD2	1.63	0.82
1:F1:2671:C:H2'	1:F1:2672:U:H5'	1.62	0.82
1:F1:1773:G:OP1	15:FP:43:LYS:NZ	2.12	0.82
24:GC:213:LEU:HD12	24:GC:234:ASP:O	1.77	0.82
1:H1:220:C:H4'	1:H1:221:A:OP2	1.77	0.82
1:H1:2344:U:H5'	1:H1:2344:U:H6	1.44	0.82
1:A1:1798:U:O4	50:A1:4702:HOH:O	1.97	0.82
1:A1:220:C:H4'	1:A1:221:A:OP2	1.79	0.82
1:A1:2671:C:H2'	1:A1:2672:U:H5'	1.62	0.82
1:A1:3291:G:O2'	1:A1:3292:U:P	2.38	0.82
1:A1:630:G:H2'	1:A1:631:G:O4'	1.78	0.82
19:AX:113:LEU:HD21	19:AX:140:THR:HG21	1.61	0.82
20:B2:3:A:OP1	20:B2:4:A:N7	2.13	0.82
40:BS:81:VAL:HB	40:BS:84:ILE:HG13	1.60	0.82
20:C2:3:A:OP1	20:C2:4:A:N7	2.13	0.82
1:D1:2325:C:OP1	50:D1:4645:HOH:O	1.97	0.82
1:D1:992:A:OP2	50:D1:4064:HOH:O	1.96	0.82
6:DF:32:ASN:OD1	6:DF:34:ASN:N	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DO:69:LYS:HG2	14:DO:70:VAL:H	1.44	0.82
30:EI:61:MET:CE	30:EI:68:GLY:HA3	2.08	0.82
5:FE:178:PHE:O	8:FH:14:LEU:HD21	1.79	0.82
24:GC:25:LEU:HD12	24:GC:26:PRO:HD2	1.60	0.82
28:GG:22:UNK:HG2	28:GG:92:UNK:HB1	1.61	0.82
11:HL:5:ILE:HG22	11:HL:6:THR:N	1.94	0.82
1:A1:1373:G:H4'	24:BC:312:GLY:O	1.80	0.82
1:A1:1951:G:O3'	46:BY:12:ARG:NH1	2.13	0.82
20:B2:67:C:OP1	42:BU:53:LYS:NZ	2.12	0.82
26:BE:34:ILE:HD11	26:BE:147:ILE:HG22	1.61	0.82
41:BT:22:ARG:HE	41:BT:32:PHE:HD2	1.23	0.82
23:CB:250:ILE:HG13	23:CB:264:ARG:HH21	1.44	0.82
24:CC:242:ASN:HD21	1:D1:718:A:H4'	1.45	0.82
1:D1:2247:A:H2'	1:D1:2248:G:H8	1.43	0.82
23:EB:250:ILE:HG13	23:EB:264:ARG:HH21	1.44	0.82
1:F1:1737:A:N1	1:F1:1754:G:O2'	2.10	0.82
1:F1:299:G:C2'	1:F1:300:G:H5''	2.10	0.82
24:GC:327:ASN:HB3	24:GC:331:PHE:HE2	1.44	0.82
33:GL:55:ASN:HD22	1:H1:148:G:H5'	1.44	0.82
28:GG:8:UNK:CB	1:H1:1248:G:N2	2.40	0.82
1:H1:1863:A:OP1	50:H1:4100:HOH:O	1.98	0.82
4:HC:10:THR:HG22	4:HC:21:HIS:CD2	2.14	0.82
1:A1:14:A:H5''	39:BR:48:ALA:O	1.80	0.82
1:A1:2181:U:OP1	50:A1:4183:HOH:O	1.97	0.82
1:A1:3233:A:O2'	1:A1:3234:U:OP1	1.97	0.82
19:AX:175:LYS:NZ	19:AX:178:ARG:HH11	1.77	0.82
21:B3:104:C:C2'	21:B3:105:C:H5''	2.10	0.82
24:BC:167:GLU:HG2	24:BC:222:THR:HG21	1.62	0.82
24:BC:327:ASN:HB3	24:BC:331:PHE:HE2	1.44	0.82
1:A1:740:A:OP2	32:BK:113:LEU:HB3	1.78	0.82
34:BM:125:VAL:HG21	34:BM:205:PHE:HE1	1.44	0.82
34:BM:180:PHE:HD1	34:BM:200:HIS:CE1	1.98	0.82
43:BV:141:ILE:O	43:BV:145:ILE:HG13	1.78	0.82
35:CN:16:VAL:HG12	35:CN:17:VAL:N	1.94	0.82
35:CN:82:VAL:HG22	35:CN:102:CYS:HB3	1.61	0.82
1:D1:1517:G:OP2	50:D1:4529:HOH:O	1.97	0.82
1:D1:3047:U:H4'	1:D1:3048:A:OP2	1.78	0.82
1:D1:3297:A:H5''	1:D1:3298:U:OP1	1.80	0.82
1:F1:1595:A:C5	1:F1:1596:U:H1'	2.14	0.82
1:F1:2126:G:O2'	50:F1:3983:HOH:O	1.98	0.82
1:F1:2310:G:OP1	50:F1:4060:HOH:O	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2310:G:OP2	50:F1:4060:HOH:O	1.97	0.82
38:EQ:20:SER:O	1:F1:387:G:H4'	1.79	0.82
29:GH:75:ASN:O	29:GH:79:PHE:HD1	1.63	0.82
34:GM:221:ASN:O	34:GM:225:GLN:HG2	1.79	0.82
1:H1:3167:U:H4'	1:H1:3168:A:C5'	2.08	0.82
5:HE:69:LEU:HD23	5:HE:71:SER:OG	1.78	0.82
9:HJ:145:ASN:HD22	9:HJ:146:VAL:H	1.28	0.82
4:AC:66:VAL:HG23	4:AC:83:ILE:HB	1.61	0.82
1:A1:564:A:C1'	24:BC:376:TRP:HD1	1.90	0.82
1:D1:1047:G:H2'	1:D1:1048:U:H5'	1.61	0.82
1:D1:2671:C:H2'	1:D1:2672:U:H5'	1.61	0.82
1:D1:283:A:OP1	4:DC:39:ARG:NH1	2.11	0.82
8:DH:13:ARG:HG2	8:DH:15:TRP:CE3	2.14	0.82
20:E2:86:G:O6	40:ES:113:SER:OG	1.95	0.82
22:EA:130:ALA:HB3	22:EA:133:CYS:SG	2.19	0.82
25:ED:135:GLY:O	25:ED:138:VAL:HG23	1.80	0.82
34:EM:177:GLU:HA	34:EM:180:PHE:HD2	1.43	0.82
1:F1:2128:C:OP1	50:F1:3983:HOH:O	1.96	0.82
1:H1:918:C:H5''	1:H1:919:A:OP1	1.79	0.82
1:A1:988:G:O4'	50:A1:3772:HOH:O	1.97	0.82
10:AK:85:LEU:HD13	26:BE:178:TYR:HB2	1.61	0.82
16:AQ:37:ARG:O	16:AQ:41:VAL:HG23	1.80	0.82
1:A1:979:U:H1'	17:AT:12:GLN:HE21	1.42	0.82
19:AX:25:ALA:HB1	19:AX:71:ARG:O	1.79	0.82
1:A1:2552:A:N3	27:BF:25:LYS:N	2.27	0.82
29:BH:55:ASP:O	29:BH:131:ILE:HG12	1.80	0.82
6:AF:122:SER:HB3	30:BI:186:LEU:HD11	1.60	0.82
43:BV:162:ASP:OD1	43:BV:163:ASN:N	2.12	0.82
24:CC:152:VAL:HG21	24:CC:255:PHE:HE1	1.45	0.82
34:CM:177:GLU:HA	34:CM:180:PHE:HD2	1.45	0.82
1:D1:304:U:HO2'	1:D1:305:A:P	2.03	0.82
4:DC:10:THR:HG22	4:DC:21:HIS:CD2	2.14	0.82
22:EA:33:TYR:H	22:EA:164:ARG:HH22	1.27	0.82
30:EI:184:PRO:O	30:EI:187:LYS:HG2	1.80	0.82
1:F1:1640:C:H2'	1:F1:1641:U:C6	2.14	0.82
8:FH:13:ARG:HG2	8:FH:15:TRP:CE3	2.15	0.82
26:GE:42:SER:O	1:H1:3168:A:C4	2.32	0.82
27:GF:62:GLN:HE21	27:GF:229:ILE:HD13	1.45	0.82
35:GN:89:ASN:HD22	35:GN:109:THR:HG22	1.45	0.82
1:A1:1053:A:H1'	1:A1:1054:G:OP2	1.79	0.82
1:A1:1843:U:H2'	1:A1:1844:U:H6	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2902:G:OP2	50:A1:4582:HOH:O	1.98	0.82
1:A1:775:C:H5'	1:A1:776:C:OP2	1.80	0.82
20:C2:134:C:O2'	20:C2:135:A:OP1	1.98	0.82
1:D1:1719:U:H3	1:D1:1775:A:H2	1.26	0.82
1:D1:3044:A:H2'	1:D1:3074:G:H1	1.45	0.82
29:EH:18:PRO:O	29:EH:23:ASN:ND2	2.13	0.82
1:F1:2101:G:N7	50:F1:4358:HOH:O	2.11	0.82
1:F1:2805:A:N7	50:F1:3822:HOH:O	2.12	0.82
1:F1:3297:A:H5''	1:F1:3298:U:OP1	1.80	0.82
1:F1:470:C:O2	1:F1:509:A:N6	2.11	0.82
1:F1:531:C:H2'	1:F1:532:G:H5'	1.62	0.82
24:GC:376:TRP:HD1	1:H1:564:A:C1'	1.93	0.82
26:GE:178:TYR:HB2	10:HK:85:LEU:HD13	1.62	0.82
9:HJ:109:VAL:HG22	9:HJ:149:GLY:HA2	1.60	0.82
11:HL:76:ARG:CZ	11:HL:84:HIS:HB3	2.10	0.82
13:HN:83:THR:HG22	13:HN:85:TYR:H	1.43	0.82
1:A1:3008:U:O4	50:A1:4601:HOH:O	1.95	0.81
1:A1:3297:A:H5''	1:A1:3298:U:OP1	1.79	0.81
41:BT:15:ILE:HG12	41:BT:34:LEU:HD13	1.61	0.81
1:A1:877:U:O4	46:BY:2:ALA:N	2.13	0.81
28:CG:80:UNK:O	28:CG:82:UNK:HG2	1.80	0.81
1:D1:1134:C:H2'	1:D1:1135:U:H5''	1.62	0.81
1:D1:332:G:OP2	50:D1:3866:HOH:O	1.98	0.81
28:EG:80:UNK:O	28:EG:82:UNK:HG2	1.78	0.81
1:F1:143:G:OP2	50:F1:3705:HOH:O	1.96	0.81
1:F1:1719:U:H3	1:F1:1775:A:H2	1.27	0.81
1:F1:1753:A:H3'	1:F1:1754:G:H5''	1.62	0.81
1:F1:2569:A:O2'	1:F1:2570:U:P	2.38	0.81
1:F1:3128:G:H5'	1:F1:3128:G:H8	1.45	0.81
37:EP:150:PRO:HG2	19:FX:138:ILE:HA	1.60	0.81
23:GB:250:ILE:HG13	23:GB:264:ARG:HH21	1.42	0.81
33:GL:80:VAL:HG13	33:GL:87:VAL:HG13	1.62	0.81
34:GM:59:ARG:HD3	34:GM:61:ILE:HG12	1.62	0.81
38:GQ:132:TYR:O	50:GQ:301:HOH:O	1.96	0.81
1:H1:1134:C:H2'	1:H1:1135:U:H5''	1.61	0.81
1:H1:1667:A:O2'	1:H1:1668:A:OP1	1.98	0.81
38:GQ:20:SER:O	1:H1:387:G:H4'	1.80	0.81
1:H1:1234:G:OP1	10:HK:119:ASN:ND2	2.13	0.81
24:BC:283:TYR:HE1	24:BC:285:LEU:HD23	1.45	0.81
27:BF:151:ASP:OD1	27:BF:152:PRO:HA	1.80	0.81
24:CC:298:ILE:CD1	35:CN:125:ASP:HB2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CF:171:ALA:HA	27:CF:215:TYR:CE2	2.15	0.81
35:CN:91:GLU:HG2	1:D1:701:A:H3'	1.62	0.81
9:DJ:152:CYS:HB2	9:DJ:161:VAL:HG22	1.62	0.81
22:EA:134:TYR:HB3	22:EA:169:ILE:HG12	1.61	0.81
1:F1:114:A:C6	1:F1:264:A:N6	2.49	0.81
1:F1:775:C:H5'	1:F1:776:C:OP2	1.80	0.81
21:G3:42:A:C8	25:GD:72:ARG:NH1	2.48	0.81
21:G3:8:G:P	34:GM:33:ARG:HH12	2.01	0.81
22:GA:33:TYR:N	22:GA:164:ARG:HH22	1.79	0.81
34:GM:129:TYR:HE1	34:GM:175:HIS:O	1.61	0.81
24:GC:290:LEU:HD21	35:GN:30:LEU:HD13	1.60	0.81
1:H1:2933:G:H5''	1:H1:2933:G:N3	1.93	0.81
1:H1:805:A:H4'	1:H1:806:G:OP2	1.76	0.81
8:HH:13:ARG:HG2	8:HH:15:TRP:CE3	2.15	0.81
14:HO:16:LEU:HD13	14:HO:35:ASN:HD22	1.45	0.81
1:A1:1932:A:OP2	50:A1:4117:HOH:O	1.98	0.81
9:AJ:145:ASN:HD22	9:AJ:146:VAL:H	1.28	0.81
18:AU:144:SER:HB2	42:BU:123:LYS:HZ3	1.42	0.81
23:BB:332:ARG:HG3	23:BB:332:ARG:HH11	1.46	0.81
34:BM:246:LEU:O	34:BM:250:VAL:HG23	1.79	0.81
23:CB:162:THR:HG21	23:CB:175:HIS:CD2	2.15	0.81
24:CC:283:TYR:CE1	24:CC:285:LEU:HD23	2.15	0.81
20:C2:77:U:O4	40:CS:71:GLN:NE2	2.13	0.81
1:D1:1553:C:OP1	50:D1:4533:HOH:O	1.97	0.81
1:D1:1667:A:O2'	1:D1:1668:A:OP1	1.98	0.81
1:D1:2999:U:O4	50:D1:4810:HOH:O	1.98	0.81
1:D1:3055:U:O4	50:D1:4219:HOH:O	1.97	0.81
14:DO:75:THR:HG22	14:DO:77:GLU:N	1.95	0.81
21:E3:28:C:H2'	21:E3:29:C:H5'	1.61	0.81
37:EP:41:ASP:OD1	37:EP:61:THR:OG1	1.98	0.81
1:F1:2310:G:OP1	50:F1:4065:HOH:O	1.99	0.81
14:FO:69:LYS:HG2	14:FO:70:VAL:H	1.45	0.81
21:G3:63:A:H2'	29:GH:202:GLU:O	1.80	0.81
21:G3:63:A:O5'	29:GH:206:LEU:HG	1.80	0.81
1:H1:1775:A:H8	1:H1:1776:G:H2'	1.45	0.81
22:GA:35:PHE:CE1	1:H1:2520:G:H2'	2.16	0.81
1:H1:291:C:C2'	1:H1:292:C:H5''	2.10	0.81
1:H1:3230:G:N7	5:HE:119:ARG:NH1	2.29	0.81
1:H1:443:G:OP1	5:HE:16:SER:OG	1.98	0.81
19:HX:22:VAL:CG1	19:HX:40:GLN:HE21	1.92	0.81
1:A1:1354:C:O2'	1:A1:1355:C:H5'	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3344:U:H4'	1:A1:3345:A:OP2	1.81	0.81
19:AX:168:THR:H	19:AX:188:THR:HG23	1.45	0.81
24:BC:152:VAL:HG21	24:BC:255:PHE:HE1	1.46	0.81
28:BG:80:UNK:O	28:BG:82:UNK:HG2	1.81	0.81
30:BI:84:ARG:HE	30:BI:89:HIS:CD2	1.98	0.81
43:CV:162:ASP:OD1	43:CV:163:ASN:N	2.12	0.81
45:CX:79:ARG:HH12	1:D1:1448:G:H4'	1.46	0.81
1:D1:2295:G:OP1	50:D1:4630:HOH:O	1.97	0.81
1:D1:792:G:O2'	1:D1:793:A:O5'	1.98	0.81
29:EH:204:GLY:HA3	29:EH:208:ARG:CZ	2.10	0.81
30:EI:197:GLY:HA2	6:FF:99:LYS:HD3	1.62	0.81
21:E3:13:A:O2'	34:EM:24:ARG:NH2	2.12	0.81
27:EF:233:LYS:HB2	1:F1:2575:G:O6	1.79	0.81
1:F1:3226:A:C2	5:FE:84:GLY:HA3	2.15	0.81
7:FG:13:LYS:HD2	7:FG:100:ILE:HD11	1.62	0.81
33:EL:15:GLN:OE1	16:FQ:52:ALA:HB1	1.80	0.81
20:G2:27:G:OP2	40:GS:12:ARG:HD3	1.80	0.81
24:GC:227:LEU:HA	24:GC:230:ILE:HD12	1.61	0.81
28:GG:80:UNK:O	28:GG:82:UNK:HG2	1.79	0.81
30:GI:196:PHE:HE2	6:HF:110:ARG:HD2	1.41	0.81
32:GK:113:LEU:HB3	1:H1:740:A:OP2	1.78	0.81
34:GM:246:LEU:O	34:GM:250:VAL:HG23	1.81	0.81
1:H1:101:G:O5'	50:H1:3650:HOH:O	1.98	0.81
1:H1:518:G:H4'	1:H1:519:A:OP2	1.77	0.81
1:H1:88:U:H2'	1:H1:89:G:H5'	1.62	0.81
19:HX:25:ALA:HB1	19:HX:71:ARG:O	1.80	0.81
1:A1:1047:G:C2'	1:A1:1048:U:H5''	2.11	0.81
1:A1:2648:U:H4'	1:A1:2740:G:O2'	1.81	0.81
34:BM:177:GLU:HA	34:BM:180:PHE:HD2	1.44	0.81
36:BO:173:ARG:NH1	1:H1:2831:U:O4	2.14	0.81
27:CF:126:LYS:CE	27:CF:135:LEU:HD13	2.08	0.81
1:D1:1434:G:C2'	1:D1:1435:C:H5''	2.11	0.81
1:D1:2576:C:C2'	1:D1:2577:G:H5'	2.11	0.81
1:D1:57:G:O3'	1:D1:58:A:H4'	1.81	0.81
8:DH:13:ARG:HH22	8:DH:17:LYS:CG	1.92	0.81
1:D1:1849:G:OP1	15:DP:47:LYS:HB2	1.80	0.81
21:E3:83:G:H22	21:E3:93:G:N2	1.78	0.81
45:EX:6:VAL:HG12	45:EX:7:ALA:N	1.94	0.81
1:F1:146:U:H4'	1:F1:147:U:O5'	1.79	0.81
1:F1:2797:C:N3	50:F1:4080:HOH:O	2.13	0.81
1:F1:428:A:H2'	1:F1:429:A:H8	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:73:G:P	18:FU:56:VAL:HG11	2.21	0.81
9:FJ:152:CYS:HB2	9:FJ:161:VAL:HG22	1.62	0.81
19:FX:22:VAL:HG11	19:FX:40:GLN:HE21	1.45	0.81
22:GA:33:TYR:H	22:GA:164:ARG:HH22	1.28	0.81
27:GF:103:ARG:HG3	27:GF:107:GLN:NE2	1.95	0.81
32:GK:36:LYS:HB2	1:H1:94:A:OP2	1.80	0.81
1:H1:1108:A:H4'	1:H1:1109:A:OP1	1.77	0.81
1:A1:1562:G:C8	50:A1:4044:HOH:O	2.34	0.81
23:BB:278:LYS:NZ	23:BB:325:CYS:O	2.14	0.81
25:CD:50:ALA:HB1	25:CD:59:ILE:CG2	2.11	0.81
26:CE:34:ILE:HD11	26:CE:147:ILE:HG22	1.62	0.81
1:D1:1598:C:H3'	1:D1:1599:G:H8	1.45	0.81
1:D1:3344:U:H4'	1:D1:3345:A:OP2	1.78	0.81
9:DJ:123:ARG:HD3	9:FJ:123:ARG:NH2	1.95	0.81
17:DT:8:THR:HG22	17:DT:10:LYS:H	1.46	0.81
21:E3:89:G:H2'	21:E3:90:A:C8	2.16	0.81
34:EM:129:TYR:HE1	34:EM:175:HIS:O	1.64	0.81
1:F1:1337:G:N7	50:F1:4156:HOH:O	2.13	0.81
7:FG:35:ARG:NH1	13:FN:77:LEU:HB2	1.96	0.81
19:FX:7:GLN:OE1	19:FX:79:TYR:HB3	1.80	0.81
1:H1:467:A:N6	1:H1:468:A:C6	2.49	0.81
1:H1:645:A:H1'	1:H1:646:A:OP2	1.80	0.81
1:A1:1737:A:H4'	1:A1:1738:A:OP1	1.79	0.81
1:A1:1798:U:H5''	1:A1:1799:C:H5'	1.63	0.81
1:A1:2211:G:O6	50:A1:4560:HOH:O	1.98	0.81
1:A1:2383:U:O2'	38:BQ:82:GLN:NE2	2.13	0.81
1:A1:2415:C:C2'	1:A1:2416:U:H5''	2.09	0.81
1:A1:1773:G:OP2	15:AP:41:LYS:NZ	2.13	0.81
39:CR:73:THR:HG23	42:CU:37:ILE:CD1	2.10	0.81
37:CP:13:LYS:NZ	1:D1:1021:U:OP1	2.14	0.81
1:D1:1052:A:H2	1:D1:1053:A:C5	1.98	0.81
1:D1:1460:G:OP2	50:D1:4029:HOH:O	1.99	0.81
1:D1:1753:A:H3'	1:D1:1754:G:H5''	1.62	0.81
34:EM:6:VAL:HG12	1:F1:1065:U:OP1	1.79	0.81
35:EN:52:ARG:NH1	35:EN:141:ARG:HE	1.79	0.81
23:GB:22:THR:HG22	23:GB:24:HIS:H	1.46	0.81
33:GL:55:ASN:HD22	1:H1:148:G:C5'	1.92	0.81
1:H1:2391:G:H5'	1:H1:2392:A:H4'	1.63	0.81
32:GK:61:ARG:NH2	1:H1:88:U:OP1	2.13	0.81
1:A1:2247:A:H2'	1:A1:2248:G:H8	1.45	0.81
11:AL:5:ILE:HG22	11:AL:6:THR:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:12:MET:HA	15:AP:15:TRP:CD1	2.14	0.81
30:BI:184:PRO:O	30:BI:187:LYS:HG2	1.81	0.81
1:A1:664:U:OP1	32:BK:21:ARG:NH2	2.12	0.81
21:B3:59:C:O2'	34:BM:279:PRO:HD2	1.81	0.81
35:BN:16:VAL:HG12	35:BN:17:VAL:N	1.95	0.81
1:A1:1546:G:O3'	39:BR:77:THR:HG21	1.80	0.81
23:CB:22:THR:HG22	23:CB:24:HIS:H	1.46	0.81
27:CF:47:TRP:HB3	27:CF:51:ILE:CD1	2.10	0.81
34:CM:129:TYR:HE1	34:CM:175:HIS:O	1.63	0.81
24:EC:105:ARG:HG2	24:EC:105:ARG:HH11	1.45	0.81
41:ET:15:ILE:HG12	41:ET:34:LEU:HD13	1.62	0.81
45:EX:43:ARG:NH1	1:F1:662:C:OP2	2.12	0.81
20:G2:75:A:OP2	40:GS:51:LYS:HB3	1.80	0.81
26:GE:126:ALA:HB2	26:GE:132:ILE:HD11	1.61	0.81
38:GQ:120:GLN:HB3	38:GQ:149:GLU:HG2	1.61	0.81
39:GR:73:THR:HG23	42:GU:37:ILE:CD1	2.10	0.81
43:GV:162:ASP:OD1	43:GV:163:ASN:N	2.14	0.81
1:H1:1598:C:H3'	1:H1:1599:G:H8	1.45	0.81
1:H1:3151:G:OP1	8:HH:64:LYS:HG3	1.80	0.81
12:HM:21:CYS:SG	12:HM:30:ILE:HG21	2.21	0.81
1:A1:1775:A:H8	1:A1:1776:G:H2'	1.46	0.81
1:A1:1868:C:OP2	50:A1:4389:HOH:O	1.99	0.81
1:A1:2238:A:O3'	50:A1:4202:HOH:O	1.98	0.81
1:A1:470:C:O2	1:A1:509:A:N6	2.12	0.81
1:A1:904:U:HO2'	1:A1:905:G:P	2.04	0.81
2:AA:20:ARG:HH12	20:B2:111:A:N6	1.78	0.81
2:AA:28:HIS:HD2	2:AA:31:LYS:H	1.28	0.81
22:BA:30:TYR:HA	22:BA:77:PHE:CE1	2.16	0.81
29:CH:204:GLY:HA3	29:CH:208:ARG:CZ	2.10	0.81
30:CI:53:PHE:HE2	30:CI:144:VAL:HG11	1.44	0.81
34:CM:35:ARG:HB2	1:D1:2737:A:C2	2.14	0.81
1:D1:1448:G:H2'	1:D1:1449:C:C6	2.16	0.81
27:CF:44:PHE:O	1:D1:2518:A:O2'	1.99	0.81
7:DG:13:LYS:HD2	7:DG:100:ILE:HD11	1.63	0.81
19:DX:175:LYS:NZ	19:DX:178:ARG:HH11	1.78	0.81
20:E2:36:G:H5''	1:F1:57:G:H2'	1.62	0.81
23:EB:203:VAL:HG11	23:EB:320:ILE:HD11	1.62	0.81
28:EG:33:UNK:CG	28:EG:36:UNK:HG2	2.10	0.81
32:EK:113:LEU:HB3	1:F1:740:A:OP2	1.79	0.81
37:EP:27:ILE:HA	37:EP:30:TYR:CD2	2.16	0.81
46:EY:10:ILE:HG22	1:F1:862:A:H4'	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1598:C:H3'	1:F1:1599:G:H8	1.46	0.81
1:F1:2149:U:H2'	1:F1:2150:U:H5'	1.60	0.81
1:F1:226:C:OP2	50:F1:3717:HOH:O	1.98	0.81
24:GC:308:VAL:CG1	35:GN:40:ARG:HH11	1.93	0.81
43:GV:133:PHE:CE1	43:GV:226:ASN:HB3	2.16	0.81
1:H1:126:A:H5'	1:H1:127:A:OP1	1.80	0.81
1:H1:1434:G:C2'	1:H1:1435:C:H5''	2.11	0.81
1:H1:2671:C:H2'	1:H1:2672:U:H5'	1.62	0.81
1:H1:2717:G:H3'	50:H1:4320:HOH:O	1.80	0.81
1:A1:1184:U:H6	1:A1:1184:U:H5'	1.45	0.81
1:A1:1594:C:C4	1:A1:1595:A:N7	2.49	0.81
1:A1:1640:C:H2'	1:A1:1641:U:C6	2.16	0.81
1:A1:2275:A:O2'	1:A1:2276:A:O5'	1.96	0.81
1:A1:564:A:O2'	24:BC:376:TRP:HB3	1.81	0.81
35:BN:89:ASN:HD22	35:BN:109:THR:HG22	1.46	0.81
34:BM:17:GLN:OE1	37:BP:20:LYS:HA	1.80	0.81
24:CC:369:HIS:CE1	43:CV:68:LYS:HZ1	1.99	0.81
29:CH:75:ASN:O	29:CH:79:PHE:HD1	1.63	0.81
34:CM:125:VAL:HG21	34:CM:205:PHE:HE1	1.44	0.81
1:D1:2149:U:H2'	1:D1:2150:U:H5'	1.62	0.81
14:DO:90:VAL:HG12	14:DO:111:LEU:HD11	1.63	0.81
1:F1:1448:G:H2'	1:F1:1449:C:C6	2.14	0.81
1:F1:2718:U:P	50:F1:4473:HOH:O	2.39	0.81
1:F1:418:G:H3'	1:F1:418:G:H8	1.42	0.81
1:F1:590:A:C2'	1:F1:591:G:H5''	2.09	0.81
1:F1:904:U:HO2'	1:F1:905:G:P	2.04	0.81
22:GA:130:ALA:HB3	22:GA:133:CYS:SG	2.21	0.81
23:GB:210:ASN:HD22	23:GB:351:ILE:HA	1.46	0.81
32:GK:21:ARG:NH2	1:H1:664:U:OP1	2.14	0.81
1:H1:1184:U:H5'	1:H1:1184:U:H6	1.44	0.81
1:H1:1448:G:H2'	1:H1:1449:C:C6	2.15	0.81
1:H1:1719:U:H3	1:H1:1775:A:H2	1.29	0.81
1:H1:3236:C:O2'	1:H1:3237:C:OP1	1.99	0.81
1:H1:3170:A:N7	6:HF:2:VAL:N	2.29	0.81
1:A1:1010:G:H2'	43:BV:98:ARG:HD3	1.62	0.81
1:A1:120:A:OP1	27:BF:100:LYS:NZ	2.14	0.81
1:A1:1366:C:H2'	1:A1:1367:A:C8	2.16	0.81
11:AL:76:ARG:CZ	11:AL:84:HIS:HB3	2.11	0.81
23:BB:250:ILE:HG13	23:BB:264:ARG:HH21	1.43	0.81
26:BE:126:ALA:HB2	26:BE:132:ILE:HD11	1.61	0.81
21:C3:104:C:C2'	21:C3:105:C:H5''	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:33:TYR:H	22:CA:164:ARG:HH22	1.28	0.81
24:CC:242:ASN:HD21	1:D1:718:A:C4'	1.94	0.81
35:CN:114:ILE:HD11	35:CN:121:CYS:SG	2.21	0.81
1:D1:619:G:H4'	1:D1:620:A:C2	2.16	0.81
1:D1:75:A:H8	18:DU:71:ARG:HH12	1.25	0.81
32:CK:99:VAL:HB	18:DU:169:ILE:CD1	2.10	0.81
24:EC:327:ASN:HB3	24:EC:331:PHE:HE2	1.45	0.81
3:FB:2:GLY:N	50:FB:103:HOH:O	2.12	0.81
43:GV:12:LYS:HE2	1:H1:1376:A:H3'	1.63	0.81
1:H1:146:U:H4'	1:H1:147:U:O5'	1.79	0.81
1:H1:1843:U:H2'	1:H1:1844:U:H6	1.44	0.81
1:H1:873:A:H2'	1:H1:874:C:O4'	1.80	0.81
2:HA:62:THR:O	50:HA:203:HOH:O	1.99	0.81
6:HF:106:PHE:HD2	6:HF:110:ARG:HE	1.29	0.81
1:H1:1662:A:C5'	11:HL:76:ARG:NH2	2.44	0.81
1:A1:3128:G:H5'	1:A1:3128:G:H8	1.45	0.80
1:A1:452:U:C5'	14:AO:56:GLN:HE22	1.93	0.80
21:B3:64:A:O2'	29:BH:205:PRO:HG3	1.81	0.80
1:D1:1184:U:H5'	1:D1:1184:U:H6	1.45	0.80
1:F1:2508:U:H4'	1:F1:2509:U:OP1	1.81	0.80
1:F1:3237:C:N4	8:FH:10:ALA:HA	1.96	0.80
2:FA:28:HIS:CD2	2:FA:31:LYS:HG3	2.15	0.80
25:GD:37:LEU:HD12	25:GD:67:VAL:HG12	1.63	0.80
27:GF:43:ARG:NH1	1:H1:2521:A:C2	2.48	0.80
30:GI:6:VAL:HG23	30:GI:30:GLN:NE2	1.96	0.80
35:GN:52:ARG:NH1	35:GN:141:ARG:HE	1.79	0.80
39:GR:43:LEU:HD12	1:H1:1599:G:OP1	1.81	0.80
1:H1:1737:A:H4'	1:H1:1738:A:OP1	1.79	0.80
1:H1:2319:A:OP1	50:H1:3877:HOH:O	1.99	0.80
1:H1:2744:C:OP2	50:H1:4331:HOH:O	1.99	0.80
1:H1:3227:A:C1'	5:HE:86:PRO:HG3	2.11	0.80
1:H1:57:G:O3'	1:H1:58:A:H4'	1.81	0.80
11:HL:6:THR:HG22	11:HL:7:TYR:O	1.81	0.80
1:A1:114:A:C6	1:A1:264:A:N6	2.49	0.80
1:A1:649:G:O6	50:A1:3902:HOH:O	1.99	0.80
1:A1:3185:G:H8	8:AH:11:PRO:HD3	1.45	0.80
32:CK:29:GLY:HA3	1:D1:962:G:H5'	1.60	0.80
43:CV:91:GLN:HE21	1:D1:1167:G:H4'	1.46	0.80
28:CG:8:UNK:HG3	1:D1:1248:G:H21	1.44	0.80
20:E2:105:A:H5'	20:E2:106:A:C5'	2.11	0.80
1:F1:1963:G:N7	50:F1:4366:HOH:O	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2944:A:OP2	50:F1:4068:HOH:O	1.98	0.80
1:F1:696:A:H2'	1:F1:697:A:C5'	2.09	0.80
24:GC:152:VAL:HG21	24:GC:255:PHE:HE1	1.46	0.80
27:GF:46:ARG:HG3	1:H1:2518:A:H2'	1.64	0.80
45:GX:98:ILE:N	45:GX:123:ASN:HD21	1.80	0.80
1:H1:3233:A:O2'	1:H1:3234:U:OP1	1.99	0.80
1:A1:1054:G:H2'	1:A1:1055:A:C8	2.17	0.80
1:A1:2934:A:H5''	1:A1:2935:G:O5'	1.80	0.80
4:AC:19:THR:HG21	4:AC:72:CYS:SG	2.21	0.80
1:A1:3266:G:OP1	23:BB:267:GLN:NE2	2.14	0.80
23:CB:210:ASN:HD21	23:CB:352:ILE:H	1.26	0.80
27:CF:151:ASP:OD1	27:CF:152:PRO:HA	1.81	0.80
1:D1:1843:U:H2'	1:D1:1844:U:H6	1.47	0.80
1:D1:2509:U:OP2	1:D1:2575:G:N2	2.14	0.80
6:DF:106:PHE:HD2	6:DF:110:ARG:HE	1.29	0.80
26:CE:178:TYR:HB2	10:DK:85:LEU:HD13	1.62	0.80
21:E3:104:C:C2'	21:E3:105:C:H5''	2.11	0.80
35:EN:114:ILE:HD11	35:EN:121:CYS:SG	2.22	0.80
1:F1:1016:U:C2'	1:F1:1017:U:H5''	2.11	0.80
31:EJ:16:LYS:NZ	1:F1:3081:C:H5	1.79	0.80
1:F1:645:A:H1'	1:F1:646:A:OP2	1.81	0.80
1:F1:792:G:O2'	1:F1:793:A:O5'	1.97	0.80
1:H1:1945:A:N1	50:H1:3848:HOH:O	2.12	0.80
1:H1:418:G:H8	1:H1:418:G:H3'	1.46	0.80
1:A1:1932:A:OP2	50:A1:4120:HOH:O	2.00	0.80
1:A1:2574:U:H4'	1:A1:2575:G:OP1	1.82	0.80
1:A1:40:C:C2'	1:A1:41:A:H5''	2.08	0.80
1:A1:753:A:N6	1:A1:766:G:H1'	1.96	0.80
9:AJ:109:VAL:HG22	9:AJ:149:GLY:HA2	1.63	0.80
1:A1:57:G:H2'	20:B2:36:G:H5''	1.62	0.80
28:BG:33:UNK:CG	28:BG:36:UNK:HG2	2.11	0.80
37:BP:27:ILE:HA	37:BP:30:TYR:CD2	2.15	0.80
28:CG:33:UNK:CG	28:CG:36:UNK:HG2	2.11	0.80
30:CI:64:ASN:HD21	30:CI:66:ARG:HG2	1.47	0.80
1:D1:418:G:H3'	1:D1:418:G:H8	1.46	0.80
30:CI:196:PHE:CE1	6:DF:111:VAL:HG22	2.17	0.80
1:D1:3185:G:H8	8:DH:11:PRO:HD3	1.45	0.80
12:DM:21:CYS:SG	12:DM:30:ILE:HG21	2.21	0.80
1:D1:979:U:H1'	17:DT:12:GLN:HE21	1.44	0.80
23:EB:162:THR:HG21	23:EB:175:HIS:CD2	2.16	0.80
34:EM:180:PHE:HD1	34:EM:200:HIS:CE1	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1594:C:C4	1:F1:1595:A:N7	2.49	0.80
1:F1:1902:C:O2'	1:F1:1903:A:OP2	1.99	0.80
1:F1:2252:C:C6	1:F1:2253:U:H5	1.98	0.80
43:GV:98:ARG:CG	43:GV:98:ARG:HH11	1.93	0.80
1:H1:1594:C:C4	1:H1:1595:A:N7	2.49	0.80
1:H1:2640:G:O2'	1:H1:2784:G:O6	1.97	0.80
1:H1:527:A:O2'	14:HO:88:GLN:NE2	2.12	0.80
1:H1:974:C:O2'	1:H1:996:A:OP1	1.99	0.80
19:HX:22:VAL:HG11	19:HX:40:GLN:HE21	1.44	0.80
1:A1:555:G:C2'	1:A1:556:A:H5''	2.12	0.80
1:A1:3230:G:N7	5:AE:119:ARG:NH1	2.29	0.80
1:A1:1710:U:OP2	12:AM:42:LYS:NZ	2.13	0.80
20:B2:105:A:H5'	20:B2:106:A:C5'	2.12	0.80
23:BB:210:ASN:HD22	23:BB:351:ILE:HA	1.44	0.80
1:A1:146:U:HO2'	27:BF:128:GLY:HA2	1.46	0.80
44:BW:14:ASN:OD1	44:BW:17:LYS:HG3	1.82	0.80
1:A1:662:C:OP2	45:BX:43:ARG:NH1	2.14	0.80
45:BX:98:ILE:N	45:BX:123:ASN:HD21	1.79	0.80
1:D1:1698:G:N7	50:D1:4956:HOH:O	2.13	0.80
1:D1:1775:A:H4'	1:D1:1776:G:OP2	1.81	0.80
1:D1:1875:G:N7	50:D1:4253:HOH:O	2.13	0.80
1:D1:2665:G:H4'	1:D1:2666:G:O5'	1.80	0.80
1:D1:470:C:O2	1:D1:509:A:N6	2.15	0.80
21:E3:83:G:OP1	50:E3:304:HOH:O	2.00	0.80
38:EQ:29:LYS:HD2	38:EQ:65:PHE:CD2	2.17	0.80
1:F1:1078:U:C5	1:F1:1079:A:N7	2.50	0.80
1:F1:2822:G:OP2	50:F1:4170:HOH:O	2.00	0.80
1:F1:281:G:H4'	1:F1:282:G:C8	2.16	0.80
1:F1:1518:G:OP1	2:FA:14:LYS:NZ	2.15	0.80
1:F1:2705:U:O2'	4:FC:79:ARG:NH2	2.14	0.80
6:FF:106:PHE:HD2	6:FF:110:ARG:HE	1.28	0.80
38:GQ:133:ARG:HD2	1:H1:905:G:OP2	1.81	0.80
28:GG:81:UNK:CB	1:H1:1308:U:O2'	2.29	0.80
1:H1:1354:C:O2'	1:H1:1355:C:H5'	1.82	0.80
1:H1:1737:A:N6	7:HG:28:LYS:HD2	1.97	0.80
1:H1:3168:A:OP1	1:H1:3168:A:H8	1.64	0.80
1:H1:682:G:OP2	50:H1:3686:HOH:O	1.99	0.80
23:BB:24:HIS:CE1	23:BB:28:ARG:HD2	2.17	0.80
21:C3:83:G:H22	21:C3:93:G:N2	1.79	0.80
23:CB:24:HIS:CE1	23:CB:28:ARG:HD2	2.17	0.80
1:D1:1775:A:H8	1:D1:1776:G:H2'	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2966:U:O2'	1:D1:2967:U:H5''	1.81	0.80
23:CB:121:ASN:HB3	1:D1:3275:A:N6	1.96	0.80
30:CI:67:ARG:HH21	1:D1:418:G:H21	1.30	0.80
1:D1:827:C:OP2	50:D1:4048:HOH:O	1.98	0.80
1:D1:91:C:H4'	1:D1:92:G:H5''	1.64	0.80
5:DE:178:PHE:O	8:DH:14:LEU:HD21	1.81	0.80
36:EO:97:ARG:HH21	1:F1:1805:C:H5'	1.47	0.80
1:F1:563:G:H4'	1:F1:564:A:OP1	1.81	0.80
21:G3:27:A:OP2	34:GM:56:THR:HG23	1.81	0.80
24:GC:311:ALA:H	35:GN:40:ARG:NH2	1.79	0.80
36:GO:146:LYS:HA	36:GO:149:LYS:HB3	1.63	0.80
1:H1:531:C:H2'	1:H1:532:G:H5'	1.63	0.80
4:HC:19:THR:HG21	4:HC:72:CYS:SG	2.22	0.80
7:HG:58:TYR:OH	13:HN:84:ARG:HB3	1.82	0.80
1:A1:1864:U:H5'	50:A1:4164:HOH:O	1.80	0.80
5:AE:19:TYR:OH	14:AO:109:LYS:HG2	1.80	0.80
1:A1:3237:C:H41	8:AH:10:ALA:HA	1.44	0.80
14:AO:75:THR:HG22	14:AO:77:GLU:N	1.97	0.80
19:AX:22:VAL:CG1	19:AX:40:GLN:HE21	1.94	0.80
22:BA:30:TYR:HA	22:BA:77:PHE:HE1	1.45	0.80
1:A1:718:A:H4'	24:BC:242:ASN:ND2	1.95	0.80
1:A1:2518:A:O2'	27:BF:44:PHE:O	1.98	0.80
32:BK:60:MET:O	35:BN:172:ARG:NH1	2.15	0.80
35:BN:114:ILE:HD11	35:BN:121:CYS:SG	2.21	0.80
1:A1:862:A:O2'	46:BY:10:ILE:HG22	1.81	0.80
21:C3:28:C:H2'	21:C3:29:C:H5'	1.61	0.80
24:CC:19:THR:HG22	24:CC:21:THR:H	1.46	0.80
37:CP:21:THR:HA	37:CP:24:HIS:CD2	2.17	0.80
1:D1:396:A:C4'	1:D1:397:A:OP2	2.28	0.80
5:DE:181:ASN:N	5:DE:184:ASP:OD2	2.13	0.80
22:EA:33:TYR:N	22:EA:164:ARG:HH22	1.80	0.80
1:F1:1184:U:H6	1:F1:1184:U:H5'	1.47	0.80
1:F1:988:G:O4'	50:F1:4477:HOH:O	1.99	0.80
23:GB:16:PHE:HD2	23:GB:273:ARG:HH12	1.29	0.80
38:GQ:133:ARG:CG	38:GQ:139:ASN:HD22	1.95	0.80
1:H1:3047:U:H4'	1:H1:3048:A:OP2	1.78	0.80
1:H1:3175:A:N6	6:HF:16:ASN:HD21	1.79	0.80
1:A1:2517:G:H4'	1:A1:2518:A:OP1	1.82	0.80
1:A1:459:G:N2	1:A1:517:A:H2'	1.96	0.80
16:AQ:43:GLN:HA	16:AQ:43:GLN:OE1	1.81	0.80
19:AX:22:VAL:HG23	19:AX:78:ILE:CD1	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AX:7:GLN:OE1	19:AX:79:TYR:HB3	1.81	0.80
20:B2:100:C:P	39:BR:56:ARG:HH22	2.04	0.80
23:BB:162:THR:HG21	23:BB:175:HIS:CD2	2.16	0.80
27:BF:171:ALA:HA	27:BF:215:TYR:CE2	2.16	0.80
29:BH:204:GLY:HA3	29:BH:208:ARG:CZ	2.11	0.80
21:C3:120:U:H4'	34:CM:265:LYS:HZ1	1.47	0.80
47:CO:156:UNK:O	47:CO:159:UNK:CG	2.28	0.80
37:CP:82:GLY:HA3	50:DT:104:HOH:O	1.80	0.80
23:CB:2:SER:HB3	1:D1:2931:G:N7	1.97	0.80
23:CB:267:GLN:NE2	1:D1:3266:G:OP1	2.14	0.80
1:D1:88:U:H2'	1:D1:89:G:H5'	1.62	0.80
13:DN:24:VAL:HG23	13:DN:138:PHE:CE1	2.17	0.80
24:EC:227:LEU:HA	24:EC:230:ILE:HD12	1.61	0.80
35:EN:158:GLN:HB3	50:EN:307:HOH:O	1.80	0.80
1:F1:1051:C:H2'	1:F1:1052:A:C8	2.16	0.80
1:F1:1059:U:H2'	1:F1:1060:C:H5''	1.63	0.80
1:F1:3291:G:O2'	1:F1:3292:U:H6	1.63	0.80
1:F1:467:A:N6	1:F1:468:A:C6	2.49	0.80
32:EK:29:GLY:HA3	1:F1:962:G:H5'	1.62	0.80
8:FH:13:ARG:NH1	8:FH:15:TRP:O	2.15	0.80
23:GB:113:ASN:HB2	23:GB:174:ASN:HD21	1.47	0.80
30:GI:132:ARG:HH12	1:H1:1216:C:H2'	1.46	0.80
1:H1:1640:C:H2'	1:H1:1641:U:C6	2.16	0.80
1:H1:2517:G:H4'	1:H1:2518:A:OP1	1.81	0.80
1:H1:2934:A:H5''	1:H1:2935:G:O5'	1.81	0.80
1:H1:450:C:H2'	1:H1:451:A:H8	1.47	0.80
1:A1:1895:U:H5'	50:A1:4125:HOH:O	1.80	0.80
1:A1:590:A:C2'	1:A1:591:G:H5''	2.12	0.80
1:A1:1518:G:OP1	2:AA:14:LYS:NZ	2.13	0.80
2:AA:28:HIS:CD2	2:AA:31:LYS:H	2.00	0.80
21:B3:101:A:N1	50:B3:314:HOH:O	2.15	0.80
26:CE:126:ALA:HB2	26:CE:132:ILE:HD11	1.62	0.80
37:CP:27:ILE:HA	37:CP:30:TYR:CD2	2.15	0.80
20:C2:67:C:OP1	42:CU:53:LYS:NZ	2.14	0.80
45:CX:98:ILE:O	45:CX:123:ASN:ND2	2.14	0.80
1:D1:1052:A:C2	1:D1:1053:A:N7	2.49	0.80
1:D1:3128:G:H8	1:D1:3128:G:H5'	1.45	0.80
1:D1:832:A:H62	1:D1:959:G:H1	1.27	0.80
22:EA:230:ALA:HB3	22:EA:235:LYS:HG3	1.64	0.80
1:F1:1737:A:H4'	1:F1:1738:A:OP1	1.82	0.80
22:GA:30:TYR:HA	22:GA:77:PHE:CE1	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:GM:180:PHE:HD1	34:GM:200:HIS:CE1	2.00	0.80
1:H1:2830:U:H2'	1:H1:2830:U:O2	1.81	0.80
1:H1:753:A:H61	1:H1:766:G:H1'	1.46	0.80
1:A1:1518:G:P	2:AA:14:LYS:HZ2	2.04	0.80
1:A1:2640:G:O2'	1:A1:2784:G:O6	2.00	0.80
1:A1:3236:C:O2'	1:A1:3237:C:OP1	2.00	0.80
1:A1:396:A:C4'	1:A1:397:A:OP2	2.28	0.80
1:A1:645:A:H1'	1:A1:646:A:OP2	1.81	0.80
24:BC:213:LEU:HD12	24:BC:234:ASP:O	1.81	0.80
29:BH:86:HIS:HB3	29:BH:139:ARG:HG2	1.64	0.80
29:BH:16:PRO:HG3	29:BH:128:ARG:NH1	1.97	0.80
27:CF:29:PHE:CD2	27:CF:37:PRO:HD3	2.16	0.80
30:CI:109:THR:CG2	30:CI:110:PRO:HD3	2.12	0.80
21:C3:8:G:OP1	34:CM:33:ARG:NH1	2.14	0.80
1:D1:2517:G:H4'	1:D1:2518:A:OP1	1.79	0.80
27:CF:41:LEU:HD21	1:D1:2519:A:N3	1.96	0.80
1:D1:26:C:C2'	1:D1:27:C:H5'	2.11	0.80
1:D1:1662:A:C5'	11:DL:76:ARG:NH2	2.42	0.80
27:EF:47:TRP:HB3	27:EF:51:ILE:CD1	2.10	0.80
30:EI:109:THR:CG2	30:EI:110:PRO:HD3	2.12	0.80
30:EI:64:ASN:HD21	30:EI:66:ARG:HG2	1.45	0.80
34:EM:125:VAL:HG21	34:EM:205:PHE:HE1	1.44	0.80
36:EO:4:LEU:HD22	36:EO:7:GLN:HG3	1.64	0.80
21:G3:13:A:P	21:G3:109:U:O2'	2.40	0.80
29:GH:15:LYS:NZ	1:H1:2624:A:OP2	2.15	0.80
42:GU:123:LYS:HZ3	18:HU:144:SER:HB2	1.47	0.80
45:GX:79:ARG:NH1	1:H1:1448:G:H4'	1.95	0.80
46:GY:49:ARG:HH21	46:GY:52:VAL:HA	1.46	0.80
46:GY:64:ILE:CD1	46:GY:71:LEU:HD11	2.12	0.80
1:H1:2576:C:C2'	1:H1:2577:G:H5'	2.12	0.80
1:H1:47:G:H1'	1:H1:48:U:OP2	1.81	0.80
35:GN:146:ARG:HA	1:H1:812:G:OP2	1.82	0.80
24:GC:99:ASN:ND2	1:H1:828:C:O2'	2.15	0.80
1:H1:851:G:HO2'	1:H1:1614:A:H8	1.24	0.80
2:HA:2:THR:HB	2:HA:6:PRO:HG2	1.62	0.80
17:HT:8:THR:HG22	17:HT:10:LYS:H	1.45	0.80
32:GK:142:GLY:CA	18:HU:173:ARG:HH22	1.84	0.80
1:A1:1134:C:H2'	1:A1:1135:U:H5''	1.64	0.79
1:A1:73:G:P	18:AU:56:VAL:HG11	2.22	0.79
19:AX:22:VAL:HG11	19:AX:40:GLN:HE21	1.47	0.79
22:BA:33:TYR:H	22:BA:164:ARG:HH22	1.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BG:11:UNK:O	28:BG:15:UNK:HG2	1.82	0.79
28:BG:22:UNK:HG2	28:BG:92:UNK:HB1	1.62	0.79
43:BV:86:ILE:HG12	43:BV:131:ILE:HA	1.64	0.79
1:D1:2803:G:H5''	1:D1:2804:G:OP2	1.81	0.79
1:D1:801:U:H5'	17:DT:37:PRO:HB3	1.62	0.79
22:EA:42:ILE:HD12	22:EA:43:ARG:H	1.42	0.79
24:EC:283:TYR:CE1	24:EC:285:LEU:HD23	2.17	0.79
45:EX:98:ILE:O	45:EX:123:ASN:ND2	2.15	0.79
1:F1:2933:G:H4'	1:F1:2934:A:OP1	1.81	0.79
1:F1:396:A:C4'	1:F1:397:A:OP2	2.25	0.79
6:FF:11:ARG:HH21	6:FF:57:LYS:CA	1.91	0.79
24:GC:283:TYR:CE1	24:GC:285:LEU:HD23	2.17	0.79
25:GD:50:ALA:HB1	25:GD:59:ILE:CG2	2.11	0.79
1:H1:2270:A:H5''	1:H1:2271:G:OP2	1.82	0.79
1:H1:800:G:H4'	1:H1:801:U:OP2	1.81	0.79
1:H1:452:U:C5'	14:HO:56:GLN:HE22	1.95	0.79
1:A1:2665:G:H4'	1:A1:2666:G:O5'	1.80	0.79
1:A1:3047:U:H4'	1:A1:3048:A:OP2	1.80	0.79
38:BQ:133:ARG:CG	38:BQ:139:ASN:HD22	1.93	0.79
24:CC:259:THR:HG22	24:CC:260:GLU:N	1.97	0.79
31:CJ:51:SER:OG	50:CJ:304:HOH:O	1.99	0.79
40:CS:59:ARG:NH1	1:D1:200:C:OP2	2.15	0.79
1:D1:1101:U:H5'	17:DT:49:ASN:ND2	1.97	0.79
24:CC:373:SER:HA	1:D1:564:A:O2'	1.81	0.79
1:D1:83:A:H4'	1:D1:84:G:OP1	1.80	0.79
23:EB:113:ASN:HB2	23:EB:174:ASN:HD21	1.47	0.79
27:EF:151:ASP:OD1	27:EF:152:PRO:HA	1.82	0.79
34:EM:17:GLN:HB3	1:F1:2677:U:O2	1.82	0.79
35:EN:89:ASN:HD22	35:EN:109:THR:HG22	1.46	0.79
44:EW:28:ALA:HA	44:EW:66:ILE:HD11	1.64	0.79
1:F1:2270:A:H5''	1:F1:2271:G:OP2	1.82	0.79
1:F1:2371:G:O2'	1:F1:2372:G:C8	2.34	0.79
1:F1:2703:G:OP2	1:F1:2705:U:H1'	1.83	0.79
20:G2:67:C:OP1	42:GU:53:LYS:NZ	2.14	0.79
1:H1:2695:G:OP1	50:H1:4332:HOH:O	2.00	0.79
1:H1:3291:G:O2'	1:H1:3292:U:H6	1.64	0.79
38:GQ:103:ASN:ND2	1:H1:388:A:O2'	2.15	0.79
5:HE:41:LEU:CD1	5:HE:45:ILE:HD13	2.12	0.79
1:H1:1753:A:N6	7:HG:47:ASN:O	2.14	0.79
14:HO:69:LYS:HG2	14:HO:70:VAL:H	1.46	0.79
1:A1:1655:A:N3	1:A1:1655:A:H2'	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:62:LEU:HB3	13:AN:4:PHE:CE2	2.17	0.79
7:AG:62:LEU:HD11	13:AN:84:ARG:HB2	1.63	0.79
20:B2:100:C:P	39:BR:56:ARG:NH2	2.56	0.79
43:BV:85:ARG:HA	43:BV:131:ILE:HG12	1.64	0.79
23:CB:203:VAL:HG11	23:CB:320:ILE:HD11	1.64	0.79
43:CV:133:PHE:CE1	43:CV:226:ASN:HB3	2.16	0.79
1:D1:1737:A:H4'	1:D1:1738:A:OP1	1.82	0.79
1:D1:2508:U:H4'	1:D1:2509:U:OP1	1.80	0.79
1:D1:114:A:C6	1:D1:264:A:N6	2.51	0.79
1:D1:3175:A:N6	6:DF:16:ASN:HD21	1.80	0.79
1:D1:467:A:N6	1:D1:468:A:C6	2.50	0.79
11:DL:6:THR:HG22	11:DL:7:TYR:O	1.82	0.79
16:DQ:37:ARG:O	16:DQ:41:VAL:HG23	1.81	0.79
24:EC:213:LEU:HD12	24:EC:234:ASP:O	1.82	0.79
1:F1:2245:G:H2'	1:F1:2246:G:H8	1.48	0.79
1:F1:2544:U:H4'	7:FG:50:THR:OG1	1.81	0.79
1:F1:555:G:C2'	1:F1:556:A:H5''	2.11	0.79
20:G2:1:A:H2'	20:G2:3:A:C8	2.18	0.79
34:GM:274:HIS:O	34:GM:278:TYR:HD1	1.65	0.79
1:H1:2862:G:OP2	50:H1:4022:HOH:O	1.99	0.79
31:GJ:16:LYS:NZ	1:H1:3081:C:H5	1.79	0.79
1:H1:3291:G:O2'	1:H1:3292:U:P	2.40	0.79
5:HE:181:ASN:N	5:HE:184:ASP:OD2	2.14	0.79
19:HX:113:LEU:HD21	19:HX:140:THR:HG21	1.63	0.79
1:A1:1657:C:OP1	13:AN:111:ARG:NH1	2.12	0.79
1:A1:2933:G:H4'	1:A1:2934:A:OP1	1.81	0.79
1:A1:361:A:C2'	1:A1:362:G:H5''	2.12	0.79
1:A1:517:A:H4'	1:A1:518:G:OP2	1.81	0.79
1:A1:453:A:N6	1:A1:524:G:H2'	1.98	0.79
1:A1:531:C:H2'	1:A1:532:G:H5'	1.63	0.79
1:A1:918:C:H5''	1:A1:919:A:OP1	1.83	0.79
23:BB:332:ARG:CG	23:BB:332:ARG:HH11	1.95	0.79
26:BE:91:LYS:HG2	26:BE:180:SER:HB3	1.63	0.79
30:BI:53:PHE:HE2	30:BI:144:VAL:HG11	1.43	0.79
20:C2:1:A:H2'	20:C2:3:A:C8	2.16	0.79
24:CC:327:ASN:HB3	24:CC:331:PHE:HE2	1.47	0.79
1:D1:1366:C:H2'	1:D1:1367:A:C8	2.16	0.79
1:D1:1776:G:H5''	50:D1:4875:HOH:O	1.81	0.79
1:D1:2703:G:OP2	1:D1:2705:U:H1'	1.83	0.79
1:D1:281:G:H4'	1:D1:282:G:C8	2.18	0.79
1:D1:38:A:O2'	50:D1:3762:HOH:O	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:111:A:C6	2:DA:20:ARG:NH1	2.51	0.79
1:D1:1773:G:OP2	15:DP:41:LYS:NZ	2.15	0.79
37:EP:60:ARG:NH2	1:F1:2627:C:O2	2.16	0.79
1:F1:3344:U:H4'	1:F1:3345:A:OP2	1.80	0.79
16:FQ:16:THR:HB	18:FU:104:GLN:HB2	1.65	0.79
37:GP:27:ILE:HA	37:GP:30:TYR:CD2	2.18	0.79
30:GI:86:MET:HE2	1:H1:1202:C:H1'	1.64	0.79
30:GI:67:ARG:HH21	1:H1:418:G:H21	1.30	0.79
4:HC:39:ARG:O	4:HC:43:MET:HG3	1.82	0.79
6:HF:11:ARG:HH21	6:HF:57:LYS:CA	1.93	0.79
1:A1:2149:U:H2'	1:A1:2150:U:H5'	1.64	0.79
1:A1:2247:A:H2'	1:A1:2248:G:C8	2.17	0.79
1:A1:467:A:N6	1:A1:468:A:C6	2.50	0.79
18:AU:164:LYS:NZ	32:BK:88:THR:HG23	1.96	0.79
27:BF:67:PRO:HB2	27:BF:68:PRO:HD2	1.65	0.79
35:BN:89:ASN:HD22	35:BN:109:THR:CG2	1.93	0.79
24:CC:234:ASP:OD2	24:CC:254:ARG:NH2	2.12	0.79
47:CO:109:TYR:HB3	47:CO:115:ILE:HG13	1.65	0.79
38:CQ:141:TYR:CE1	1:D1:2350:G:H4'	2.18	0.79
46:CY:10:ILE:HG22	1:D1:862:A:H4'	1.64	0.79
1:D1:1737:A:N1	1:D1:1754:G:O2'	2.15	0.79
1:F1:1184:U:OP1	50:F1:3814:HOH:O	2.01	0.79
1:F1:1197:A:OP2	50:F1:4185:HOH:O	2.00	0.79
1:F1:1775:A:H8	1:F1:1776:G:H2'	1.46	0.79
1:F1:2966:U:O2'	1:F1:2967:U:H5''	1.83	0.79
1:F1:753:A:N6	1:F1:766:G:H1'	1.97	0.79
29:GH:42:THR:HG22	29:GH:44:GLU:H	1.47	0.79
34:GM:175:HIS:CD2	34:GM:180:PHE:HE2	2.01	0.79
1:H1:1731:G:H21	11:HL:54:ASN:ND2	1.79	0.79
9:AJ:126:GLU:OE1	9:HJ:123:ARG:NH2	2.14	0.79
1:A1:1512:G:N7	50:A1:4375:HOH:O	2.15	0.79
1:A1:2521:A:C2	27:BF:43:ARG:NH1	2.50	0.79
1:A1:2635:C:H6	1:A1:2635:C:H5'	1.47	0.79
1:A1:707:A:OP2	50:A1:4630:HOH:O	1.99	0.79
20:B2:3:A:H4'	20:B2:4:A:OP2	1.82	0.79
23:BB:210:ASN:HD21	23:BB:352:ILE:H	1.27	0.79
34:BM:221:ASN:O	34:BM:225:GLN:HG2	1.80	0.79
1:D1:1660:U:O2'	13:DN:79:HIS:HD2	1.66	0.79
21:E3:4:G:H4'	21:E3:26:C:H4'	1.63	0.79
46:EY:15:GLY:O	46:EY:23:ARG:NH1	2.16	0.79
1:F1:1168:C:OP1	50:F1:3808:HOH:O	2.01	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1434:G:C2'	1:F1:1435:C:H5''	2.12	0.79
1:F1:1434:G:H2'	1:F1:1435:C:H5''	1.64	0.79
33:EL:55:ASN:HD22	1:F1:148:G:C5'	1.95	0.79
1:F1:2542:U:H6	1:F1:2542:U:H5''	1.44	0.79
1:F1:996:A:OP2	50:F1:3873:HOH:O	2.01	0.79
20:G2:77:U:O4	40:GS:71:GLN:NE2	2.15	0.79
1:H1:1413:G:O2'	1:H1:1414:C:H5'	1.83	0.79
1:H1:3128:G:H8	1:H1:3128:G:H5'	1.46	0.79
1:H1:1658:G:N7	13:HN:17:ARG:NH1	2.31	0.79
1:A1:2275:A:OP1	50:A1:4493:HOH:O	2.00	0.79
1:A1:2310:G:OP1	50:A1:4184:HOH:O	2.00	0.79
1:A1:2720:G:C2'	1:A1:2721:G:H5'	2.12	0.79
1:A1:610:A:H2'	1:A1:611:A:H8	1.47	0.79
27:BF:47:TRP:HB3	27:BF:51:ILE:CD1	2.10	0.79
38:BQ:8:ARG:HH12	38:BQ:117:GLN:HG3	1.47	0.79
34:CM:246:LEU:O	34:CM:250:VAL:HG23	1.83	0.79
1:D1:428:A:H2'	1:D1:429:A:C8	2.17	0.79
2:DA:2:THR:HB	2:DA:6:PRO:HG2	1.65	0.79
1:D1:439:A:H5''	5:DE:126:HIS:ND1	1.97	0.79
22:EA:16:VAL:CG2	1:F1:936:C:H5''	2.13	0.79
1:F1:3237:C:N4	8:FH:9:VAL:O	2.16	0.79
1:F1:453:A:N6	1:F1:524:G:H2'	1.98	0.79
14:FO:16:LEU:HD13	14:FO:35:ASN:HD22	1.47	0.79
34:GM:52:VAL:HG22	34:GM:63:GLN:HB2	1.65	0.79
35:GN:114:ILE:HD11	35:GN:121:CYS:SG	2.22	0.79
35:GN:123:THR:HG23	35:GN:125:ASP:OD1	1.83	0.79
1:H1:1256:G:H2'	1:H1:1257:G:C8	2.18	0.79
1:H1:1383:G:H4'	1:H1:1383:G:OP1	1.78	0.79
1:H1:2966:U:O2'	1:H1:2967:U:C5'	2.31	0.79
1:H1:2966:U:O2'	1:H1:2967:U:H5''	1.82	0.79
4:HC:66:VAL:HG23	4:HC:83:ILE:HB	1.65	0.79
1:A1:2743:G:C3'	1:A1:2744:C:C5'	2.61	0.79
20:B2:1:A:H2'	20:B2:3:A:C8	2.17	0.79
22:BA:130:ALA:HB3	22:BA:133:CYS:SG	2.23	0.79
30:CI:197:GLY:HA2	6:DF:99:LYS:HD3	1.63	0.79
38:CQ:38:ILE:HD11	38:CQ:93:ILE:HG21	1.65	0.79
1:D1:3043:U:O4	50:D1:4573:HOH:O	2.01	0.79
4:DC:70:PHE:HE2	4:DC:81:ILE:HD12	1.47	0.79
24:EC:163:VAL:O	24:EC:166:TYR:HD2	1.66	0.79
24:EC:242:ASN:ND2	1:F1:718:A:H4'	1.96	0.79
24:EC:152:VAL:HG21	24:EC:255:PHE:HE1	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:EE:124:ILE:CD1	26:EE:159:ILE:HA	2.13	0.79
27:EF:171:ALA:HA	27:EF:215:TYR:CE2	2.17	0.79
34:EM:221:ASN:O	34:EM:225:GLN:HG2	1.83	0.79
1:F1:1223:U:O2	1:F1:1223:U:H2'	1.83	0.79
1:F1:1843:U:H2'	1:F1:1844:U:H6	1.47	0.79
1:F1:918:C:H5''	1:F1:919:A:OP1	1.83	0.79
4:FC:66:VAL:HG23	4:FC:83:ILE:HB	1.65	0.79
13:FN:23:ALA:HB1	13:FN:43:VAL:HG12	1.65	0.79
35:GN:5:LEU:HD23	43:GV:106:ARG:HD2	1.65	0.79
1:H1:1050:C:H2'	1:H1:1051:C:C1'	2.13	0.79
1:H1:2367:A:O2'	50:H1:3761:HOH:O	2.00	0.79
1:H1:552:U:O2'	1:H1:553:C:H5'	1.81	0.79
1:A1:281:G:H4'	1:A1:282:G:C8	2.18	0.79
7:AG:13:LYS:HD2	7:AG:100:ILE:HD11	1.63	0.79
14:AO:16:LEU:HD13	14:AO:35:ASN:HD22	1.46	0.79
17:AT:9:ASN:OD1	17:AT:12:GLN:HB2	1.83	0.79
1:A1:962:G:H5'	32:BK:29:GLY:HA3	1.62	0.79
23:CB:113:ASN:HB2	23:CB:174:ASN:HD21	1.47	0.79
24:CC:163:VAL:O	24:CC:166:TYR:HD2	1.66	0.79
35:CN:89:ASN:HD22	35:CN:109:THR:CG2	1.95	0.79
47:CO:175:UNK:O	29:EH:83:ASP:HB3	1.83	0.79
1:D1:1223:U:H2'	1:D1:1223:U:O2	1.83	0.79
1:D1:1909:C:O2'	1:D1:1910:A:P	2.41	0.79
1:D1:1927:U:OP2	50:D1:4614:HOH:O	2.01	0.79
37:CP:5:TYR:O	1:D1:2619:C:OP1	2.01	0.79
15:DP:12:MET:HA	15:DP:15:TRP:CD1	2.18	0.79
29:EH:75:ASN:O	29:EH:79:PHE:HD1	1.66	0.79
40:ES:55:VAL:HG22	40:ES:105:LEU:HD23	1.65	0.79
1:F1:2347:A:OP2	50:F1:4402:HOH:O	2.00	0.79
1:F1:2391:G:H5'	1:F1:2392:A:H4'	1.65	0.79
1:F1:467:A:N6	1:F1:512:G:C2	2.51	0.79
1:F1:518:G:O2'	1:F1:519:A:O4'	2.00	0.79
1:F1:527:A:H5'	5:FE:13:SER:OG	1.81	0.79
23:GB:194:LYS:HA	23:GB:197:LEU:HD12	1.65	0.79
24:GC:405:ILE:HD12	29:GH:183:ARG:HG2	1.65	0.79
34:GM:212:TYR:HD2	34:GM:228:PHE:HZ	1.31	0.79
42:GU:89:THR:OG1	42:GU:92:ILE:HG12	1.83	0.79
1:H1:24:A:N3	1:H1:327:U:O2'	2.15	0.79
45:GX:28:ALA:HB3	1:H1:679:C:H5''	1.65	0.79
1:H1:696:A:H2'	1:H1:697:A:C5'	2.07	0.79
7:HG:10:ILE:O	7:HG:13:LYS:HG2	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1477:C:OP1	50:A1:4157:HOH:O	1.99	0.79
1:A1:1562:G:N7	50:A1:4048:HOH:O	2.14	0.79
1:A1:1654:G:C4'	1:A1:1655:A:OP2	2.31	0.79
1:A1:2188:U:O2'	1:A1:2189:G:P	2.41	0.79
18:AU:164:LYS:NZ	32:BK:100:PRO:HB3	1.97	0.79
23:BB:16:PHE:HD2	23:BB:273:ARG:HH12	1.28	0.79
26:BE:38:PHE:CE2	26:BE:71:ILE:HG23	2.17	0.79
27:CF:43:ARG:NH1	1:D1:2521:A:N1	2.31	0.79
39:CR:48:ALA:O	1:D1:14:A:H5''	1.81	0.79
1:D1:555:G:C2'	1:D1:556:A:H5''	2.12	0.79
28:EG:101:UNK:O	28:EG:105:UNK:HG2	1.82	0.79
33:EL:30:TYR:HE2	33:EL:63:ARG:HD3	1.45	0.79
33:EL:55:ASN:HD22	1:F1:148:G:H5'	1.46	0.79
44:EW:14:ASN:ND2	44:EW:17:LYS:HE3	1.97	0.79
1:F1:1775:A:H4'	1:F1:1776:G:OP2	1.81	0.79
1:F1:26:C:C2'	1:F1:27:C:H5'	2.13	0.79
1:F1:2803:G:OP2	50:F1:4198:HOH:O	2.01	0.79
1:F1:3175:A:N6	6:FF:16:ASN:HD21	1.81	0.79
1:F1:418:G:C8	1:F1:418:G:H3'	2.17	0.79
18:FU:72:GLY:O	18:FU:99:ARG:NH1	2.16	0.79
27:GF:151:ASP:OD1	27:GF:152:PRO:HA	1.83	0.79
27:GF:171:ALA:HA	27:GF:215:TYR:CE2	2.18	0.79
29:GH:118:ALA:HB3	1:H1:1153:G:O2'	1.83	0.79
29:GH:204:GLY:HA3	29:GH:208:ARG:CZ	2.12	0.79
32:GK:76:ASN:HB2	32:GK:79:LYS:HE2	1.65	0.79
35:GN:5:LEU:CD2	43:GV:106:ARG:HD2	2.14	0.79
1:H1:2803:G:H5''	1:H1:2804:G:OP2	1.83	0.79
1:H1:3008:U:OP2	50:H1:4305:HOH:O	2.01	0.79
1:H1:3176:A:H4'	1:H1:3177:G:H5'	1.65	0.79
1:H1:563:G:H4'	1:H1:564:A:OP1	1.82	0.79
1:H1:792:G:O2'	1:H1:793:A:O5'	2.00	0.79
1:A1:1002:A:H2'	1:A1:1003:G:H5'	1.65	0.78
1:A1:1128:G:H5''	43:BV:104:ARG:HD2	1.65	0.78
1:A1:615:G:H21	8:AH:79:LYS:CE	1.96	0.78
33:BL:154:SER:O	33:BL:157:LYS:HG3	1.83	0.78
46:BY:49:ARG:HH21	46:BY:52:VAL:HA	1.48	0.78
25:CD:37:LEU:HD12	25:CD:67:VAL:HG12	1.65	0.78
47:CO:4:LEU:HD22	47:CO:7:GLN:HG3	1.65	0.78
1:D1:2344:U:H6	1:D1:2344:U:H5'	1.49	0.78
1:D1:2542:U:H5''	1:D1:2542:U:H6	1.48	0.78
1:D1:2830:U:H2'	1:D1:2830:U:O2	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:447:G:O6	50:D1:4953:HOH:O	2.01	0.78
1:D1:467:A:N6	1:D1:512:G:C2	2.52	0.78
32:CK:106:LYS:HD3	18:DU:160:SER:HB2	1.65	0.78
23:EB:210:ASN:ND2	23:EB:352:ILE:H	1.80	0.78
27:EF:128:GLY:HA2	1:F1:146:U:O2'	1.82	0.78
29:EH:86:HIS:HB3	29:EH:139:ARG:HG2	1.66	0.78
34:EM:17:GLN:OE1	37:EP:20:LYS:HA	1.83	0.78
22:EA:49:ILE:HD12	46:EY:63:ILE:HG22	1.64	0.78
27:EF:100:LYS:HZ3	1:F1:119:A:H2'	1.45	0.78
1:F1:1710:U:OP2	12:FM:42:LYS:NZ	2.14	0.78
30:EI:67:ARG:HH21	1:F1:418:G:H21	1.29	0.78
1:F1:733:G:O6	50:F1:3696:HOH:O	1.99	0.78
21:G3:89:G:H2'	21:G3:90:A:C8	2.19	0.78
22:GA:62:VAL:HG21	22:GA:77:PHE:CD2	2.16	0.78
30:GI:159:ARG:O	30:GI:162:ARG:HG2	1.83	0.78
1:H1:1654:G:H2'	1:H1:1654:G:N3	1.97	0.78
1:H1:2703:G:OP2	1:H1:2705:U:H1'	1.83	0.78
1:A1:1667:A:O2'	1:A1:1668:A:OP1	1.99	0.78
1:A1:1719:U:H3	1:A1:1775:A:H2	1.31	0.78
1:A1:2261:U:O4	50:A1:4551:HOH:O	1.99	0.78
2:AA:17:THR:HG22	2:AA:18:LEU:N	1.99	0.78
21:B3:4:G:H4'	21:B3:26:C:H4'	1.63	0.78
21:B3:83:G:H1	21:B3:93:G:N2	1.81	0.78
21:C3:83:G:P	50:C3:304:HOH:O	2.40	0.78
22:CA:186:GLN:HA	22:CA:186:GLN:OE1	1.83	0.78
29:CH:42:THR:HG22	29:CH:44:GLU:H	1.48	0.78
1:D1:2862:G:OP1	50:D1:4370:HOH:O	2.00	0.78
1:D1:418:G:O6	1:D1:2378:A:O2'	2.01	0.78
1:D1:459:G:N2	1:D1:517:A:H2'	1.98	0.78
1:D1:842:A:OP2	50:D1:4092:HOH:O	1.99	0.78
5:DE:83:ASN:ND2	5:DE:174:LEU:O	2.15	0.78
23:EB:303:ILE:H	23:EB:303:ILE:HD12	1.47	0.78
34:EM:246:LEU:O	34:EM:250:VAL:HG23	1.83	0.78
1:F1:1655:A:H2'	1:F1:1655:A:N3	1.99	0.78
30:GI:64:ASN:HD21	30:GI:66:ARG:HG2	1.47	0.78
44:GW:28:ALA:HA	44:GW:66:ILE:HD11	1.63	0.78
45:GX:62:ASP:HB2	1:H1:1365:C:O3'	1.84	0.78
1:H1:1184:U:OP2	50:H1:3758:HOH:O	2.01	0.78
22:GA:201:ARG:HD2	1:H1:2182:G:O6	1.83	0.78
7:HG:13:LYS:HD2	7:HG:100:ILE:HD11	1.63	0.78
32:GK:106:LYS:HD3	18:HU:160:SER:HB2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1654:G:N3	1:A1:1654:G:H2'	1.98	0.78
1:A1:2625:A:H5'	1:A1:2626:A:C5'	2.13	0.78
1:A1:563:G:H4'	1:A1:564:A:OP1	1.82	0.78
1:A1:1775:A:H4'	15:AP:34:LYS:HZ1	1.46	0.78
28:BG:101:UNK:O	28:BG:105:UNK:HG2	1.83	0.78
21:B3:44:C:O2'	34:BM:152:ARG:HD3	1.84	0.78
43:BV:98:ARG:CG	43:BV:98:ARG:HH11	1.97	0.78
24:CC:283:TYR:HE1	24:CC:285:LEU:HD23	1.49	0.78
31:CJ:16:LYS:NZ	1:D1:3081:C:C5	2.50	0.78
35:CN:123:THR:HG23	35:CN:125:ASP:OD1	1.83	0.78
1:D1:1376:A:H5''	1:D1:1377:A:H5'	1.66	0.78
1:D1:3291:G:O2'	1:D1:3292:U:H6	1.67	0.78
11:DL:59:VAL:CG1	11:DL:63:GLU:HB3	2.13	0.78
24:EC:376:TRP:HB3	1:F1:564:A:HO2'	1.47	0.78
39:ER:150:ILE:H	39:ER:150:ILE:HD12	1.49	0.78
1:F1:1047:G:C2'	1:F1:1048:U:H5'	2.14	0.78
1:F1:1053:A:H1'	1:F1:1054:G:OP2	1.81	0.78
1:F1:126:A:H5'	1:F1:127:A:OP1	1.84	0.78
1:F1:2101:G:OP2	50:F1:4361:HOH:O	2.00	0.78
1:F1:2509:U:OP2	1:F1:2575:G:N2	2.15	0.78
4:FC:10:THR:HG22	4:FC:21:HIS:CD2	2.19	0.78
5:FE:181:ASN:N	5:FE:184:ASP:OD2	2.14	0.78
1:H1:1037:A:H2'	1:H1:1038:G:C8	2.17	0.78
1:H1:1537:U:H5'	1:H1:1538:U:C5	2.17	0.78
24:GC:80:ARG:NH2	1:H1:2802:G:OP1	2.17	0.78
15:HP:12:MET:HA	15:HP:15:TRP:CD1	2.17	0.78
1:A1:1203:C:H4'	30:BI:88:PRO:HD3	1.65	0.78
1:A1:1737:A:N1	1:A1:1754:G:O2'	2.14	0.78
1:A1:2803:G:H5''	1:A1:2804:G:OP2	1.83	0.78
1:A1:447:G:O6	50:A1:4759:HOH:O	2.00	0.78
1:A1:552:U:O2'	1:A1:553:C:H5'	1.84	0.78
1:A1:827:C:HO2'	24:BC:107:PHE:HE1	1.31	0.78
2:AA:2:THR:HB	2:AA:6:PRO:HG2	1.65	0.78
8:AH:11:PRO:HG2	8:AH:12:THR:H	1.47	0.78
26:BE:73:SER:HA	26:BE:76:LYS:HE2	1.65	0.78
37:BP:94:GLU:OE1	37:BP:94:GLU:N	2.16	0.78
23:CB:332:ARG:HG3	23:CB:332:ARG:HH11	1.47	0.78
30:CI:159:ARG:O	30:CI:162:ARG:HG2	1.82	0.78
34:CM:180:PHE:HD1	34:CM:200:HIS:CE1	2.02	0.78
21:C3:13:A:N3	34:CM:24:ARG:NH2	2.30	0.78
35:CN:89:ASN:HD22	35:CN:109:THR:HG22	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1197:A:OP2	50:D1:4427:HOH:O	2.01	0.78
20:E2:37:A:O3'	50:E2:306:HOH:O	2.00	0.78
37:EP:94:GLU:OE1	37:EP:94:GLU:N	2.16	0.78
43:EV:85:ARG:HA	43:EV:131:ILE:HG12	1.64	0.78
2:FA:62:THR:O	50:FA:203:HOH:O	2.00	0.78
1:F1:3170:A:N7	6:FF:2:VAL:N	2.31	0.78
8:FH:54:LYS:NZ	8:FH:108:LEU:O	2.15	0.78
25:GD:50:ALA:O	25:GD:62:ASN:N	2.17	0.78
1:A1:1129:C:H5''	1:A1:1130:A:OP2	1.83	0.78
1:A1:1223:U:H2'	1:A1:1223:U:O2	1.81	0.78
1:A1:2520:G:H2'	22:BA:35:PHE:CE1	2.18	0.78
40:BS:55:VAL:HG22	40:BS:105:LEU:HD23	1.63	0.78
21:C3:21:G:H4'	34:CM:277:PHE:HD2	1.48	0.78
23:CB:303:ILE:H	23:CB:303:ILE:HD12	1.46	0.78
40:CS:55:VAL:HG22	40:CS:105:LEU:HD23	1.64	0.78
1:D1:1002:A:H2'	1:D1:1003:G:H5'	1.66	0.78
43:CV:104:ARG:HD2	1:D1:1128:G:H5''	1.65	0.78
1:D1:2371:G:O2'	1:D1:2372:G:C8	2.35	0.78
1:D1:2569:A:O2'	1:D1:2570:U:P	2.42	0.78
1:D1:2635:C:H6	1:D1:2635:C:H5'	1.47	0.78
1:D1:906:C:OP1	50:D1:4243:HOH:O	2.01	0.78
4:DC:66:VAL:HG23	4:DC:83:ILE:HB	1.65	0.78
20:E2:25:U:H4'	20:E2:26:A:OP1	1.82	0.78
1:F1:219:A:H2	1:F1:1416:U:H2'	1.44	0.78
1:F1:1840:U:C4'	1:F1:1841:A:O5'	2.32	0.78
1:F1:2574:U:H4'	1:F1:2575:G:OP1	1.82	0.78
1:F1:2637:G:N7	50:F1:4573:HOH:O	2.15	0.78
23:EB:272:HIS:HD2	1:F1:3127:U:OP1	1.67	0.78
1:F1:3176:A:H4'	1:F1:3177:G:H5'	1.65	0.78
11:FL:67:ILE:HD12	11:FL:71:ALA:HB3	1.65	0.78
32:GK:61:ARG:HA	35:GN:172:ARG:HH12	1.45	0.78
30:GI:88:PRO:HD3	1:H1:1203:C:H4'	1.65	0.78
1:H1:1366:C:H2'	1:H1:1367:A:C8	2.18	0.78
1:A1:1448:G:H2'	1:A1:1449:C:C6	2.18	0.78
1:A1:418:G:H3'	1:A1:418:G:C8	2.17	0.78
1:A1:525:C:C2'	1:A1:525:C:O2	2.32	0.78
5:AE:55:ALA:HB2	8:AH:109:TYR:CE1	2.17	0.78
30:BI:159:ARG:O	30:BI:162:ARG:HG2	1.84	0.78
35:BN:5:LEU:HD23	43:BV:106:ARG:HD2	1.65	0.78
21:C3:27:A:OP2	34:CM:56:THR:HG23	1.83	0.78
27:CF:103:ARG:HG3	27:CF:107:GLN:NE2	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CX:79:ARG:HH12	1:D1:1448:G:C4'	1.96	0.78
1:D1:1737:A:O2'	1:D1:1738:A:C8	2.37	0.78
1:D1:2595:G:C8	50:D1:4099:HOH:O	2.35	0.78
23:CB:171:GLN:HB2	1:D1:3273:U:H4'	1.64	0.78
6:DF:8:GLN:HE21	6:DF:11:ARG:HH11	1.31	0.78
23:EB:332:ARG:HH11	23:EB:332:ARG:HG3	1.49	0.78
1:F1:1146:C:H42	17:FT:10:LYS:NZ	1.81	0.78
1:F1:2517:G:H4'	1:F1:2518:A:OP1	1.81	0.78
1:F1:3233:A:O2'	1:F1:3234:U:OP1	2.01	0.78
1:F1:3291:G:O2'	1:F1:3292:U:P	2.42	0.78
1:F1:83:A:H4'	1:F1:84:G:OP1	1.84	0.78
17:FT:47:ILE:O	17:FT:55:LYS:NZ	2.16	0.78
22:GA:30:TYR:HA	22:GA:77:PHE:HE1	1.48	0.78
42:GU:90:ARG:O	42:GU:94:ARG:HG2	1.83	0.78
1:H1:1655:A:H2'	1:H1:1655:A:N3	1.98	0.78
1:H1:3055:U:O4	50:H1:3923:HOH:O	2.01	0.78
1:H1:3176:A:H4'	1:H1:3177:G:O5'	1.84	0.78
1:H1:518:G:O2'	1:H1:519:A:O4'	2.01	0.78
14:HO:90:VAL:HG12	14:HO:111:LEU:HD11	1.65	0.78
1:A1:1016:U:C2'	1:A1:1017:U:H5''	2.13	0.78
1:A1:1221:G:H2'	1:A1:1222:A:C8	2.18	0.78
21:C3:4:G:H4'	21:C3:26:C:H4'	1.65	0.78
23:CB:194:LYS:HA	23:CB:197:LEU:HD12	1.66	0.78
24:CC:150:SER:O	14:DO:75:THR:HG23	1.82	0.78
24:CC:65:MET:HE1	24:CC:97:PHE:HB2	1.64	0.78
47:CO:167:UNK:O	47:CO:170:UNK:CG	2.32	0.78
38:CQ:133:ARG:CG	38:CQ:139:ASN:HD22	1.95	0.78
1:D1:1222:A:C2	1:D1:1336:U:N3	2.52	0.78
1:D1:126:A:H5'	1:D1:127:A:OP1	1.83	0.78
1:D1:145:A:N6	50:D1:3811:HOH:O	2.14	0.78
1:D1:2743:G:C3'	1:D1:2744:C:C5'	2.62	0.78
23:CB:118:PHE:HE2	1:D1:2989:G:H21	1.29	0.78
1:D1:518:G:O2'	1:D1:519:A:O4'	2.01	0.78
1:D1:1737:A:N6	7:DG:28:LYS:HD2	1.99	0.78
8:DH:13:ARG:NH1	8:DH:15:TRP:O	2.17	0.78
24:EC:167:GLU:HG2	24:EC:222:THR:HG21	1.66	0.78
1:F1:138:C:C2'	1:F1:139:A:H5'	2.14	0.78
24:EC:6:GLN:HE21	1:F1:471:A:H4'	1.48	0.78
1:F1:832:A:H62	1:F1:959:G:H1	1.29	0.78
22:EA:16:VAL:HG23	1:F1:936:C:OP1	1.83	0.78
8:FH:11:PRO:HG2	8:FH:12:THR:H	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1053:A:C2	13:FN:94:LYS:NZ	2.51	0.78
14:FO:75:THR:HG22	14:FO:77:GLU:N	1.98	0.78
16:FQ:43:GLN:OE1	16:FQ:43:GLN:HA	1.82	0.78
1:H1:2294:A:OP1	50:H1:4205:HOH:O	2.01	0.78
34:GM:12:TYR:OH	1:H1:2677:U:OP1	2.01	0.78
8:HH:13:ARG:NH1	8:HH:15:TRP:O	2.16	0.78
1:A1:3291:G:O2'	1:A1:3292:U:H6	1.67	0.78
5:AE:83:ASN:ND2	5:AE:174:LEU:O	2.17	0.78
12:AM:21:CYS:SG	12:AM:30:ILE:HG21	2.24	0.78
18:AU:160:SER:HB2	32:BK:106:LYS:HD3	1.64	0.78
19:AX:96:GLN:H	19:AX:134:THR:HG21	1.49	0.78
23:BB:303:ILE:H	23:BB:303:ILE:HD12	1.48	0.78
1:A1:119:A:C2	27:BF:122:PRO:HG2	2.18	0.78
32:BK:117:ARG:HD3	32:BK:137:ARG:NH1	1.98	0.78
34:BM:274:HIS:O	34:BM:278:TYR:HD2	1.67	0.78
45:CX:98:ILE:H	45:CX:123:ASN:HD21	1.32	0.78
1:D1:517:A:H4'	1:D1:518:G:OP2	1.82	0.78
1:D1:590:A:C2'	1:D1:591:G:H5''	2.10	0.78
1:D1:775:C:H5'	1:D1:776:C:OP2	1.82	0.78
26:EE:91:LYS:HG2	26:EE:180:SER:HB3	1.66	0.78
20:E2:77:U:O4	40:ES:71:GLN:NE2	2.16	0.78
1:F1:2766:A:C2'	1:F1:2767:A:H5'	2.13	0.78
21:G3:3:U:H2'	21:G3:4:G:C8	2.19	0.78
21:G3:4:G:H4'	21:G3:26:C:H4'	1.64	0.78
24:GC:309:LYS:O	35:GN:40:ARG:NH1	2.17	0.78
1:H1:2267:G:H4'	1:H1:2268:G:OP1	1.84	0.78
1:H1:26:C:C2'	1:H1:27:C:H5'	2.14	0.78
23:GB:378:PHE:HA	1:H1:3325:G:N2	1.99	0.78
1:H1:428:A:H2'	1:H1:429:A:H8	1.48	0.78
1:H1:83:A:H4'	1:H1:84:G:OP1	1.82	0.78
1:A1:2301:C:N4	1:H1:873:A:H2	1.82	0.78
1:H1:91:C:H4'	1:H1:92:G:H5''	1.65	0.78
1:A1:1046:G:H2'	1:A1:1047:G:H8	1.49	0.78
1:A1:1376:A:H5''	1:A1:1377:A:O4'	1.84	0.78
1:A1:1805:C:H5'	36:BO:97:ARG:HH21	1.47	0.78
1:A1:2391:G:H5'	1:A1:2392:A:H4'	1.64	0.78
1:A1:26:C:C2'	1:A1:27:C:H5'	2.13	0.78
1:A1:2907:A:OP2	50:A1:4483:HOH:O	2.02	0.78
1:A1:3227:A:H1'	5:AE:86:PRO:HG3	1.63	0.78
8:AH:13:ARG:NH1	8:AH:15:TRP:O	2.17	0.78
11:AL:59:VAL:CG1	11:AL:63:GLU:HB3	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2737:A:C2	34:BM:35:ARG:HB2	2.18	0.78
22:CA:30:TYR:HA	22:CA:77:PHE:CE1	2.18	0.78
24:CC:167:GLU:H	24:CC:171:GLN:HE22	1.32	0.78
34:CM:3:PHE:CZ	1:D1:1041:C:O2	2.37	0.78
1:D1:1062:A:C2'	1:D1:1063:C:H5'	2.14	0.78
1:D1:1183:C:H2'	1:D1:1184:U:H5''	1.66	0.78
1:D1:2391:G:H5'	1:D1:2392:A:H4'	1.65	0.78
1:D1:444:A:N1	1:D1:533:G:N2	2.32	0.78
24:CC:363:ARG:NH2	1:D1:602:A:OP2	2.14	0.78
32:EK:61:ARG:HA	35:EN:172:ARG:HH12	1.47	0.78
38:EQ:132:TYR:O	50:EQ:301:HOH:O	2.01	0.78
1:F1:1909:C:O2'	1:F1:1910:A:P	2.42	0.78
1:F1:2252:C:C5	1:F1:2253:U:C4	2.71	0.78
1:F1:2803:G:H5''	1:F1:2804:G:OP2	1.82	0.78
1:F1:2875:A:OP2	50:F1:4159:HOH:O	2.02	0.78
1:F1:3222:U:O2'	1:F1:3223:G:H5'	1.84	0.78
1:F1:452:U:C5'	14:FO:56:GLN:NE2	2.34	0.78
25:GD:92:ARG:H	25:GD:95:ASN:ND2	1.81	0.78
35:GN:162:HIS:O	1:H1:805:A:H5'	1.84	0.78
1:H1:1840:U:C4'	1:H1:1841:A:O5'	2.32	0.78
1:H1:2188:U:O2'	1:H1:2189:G:P	2.42	0.78
1:H1:555:G:C2'	1:H1:556:A:H5''	2.14	0.78
14:HO:50:LEU:HD13	14:HO:111:LEU:HD21	1.65	0.78
1:A1:1752:G:H5''	1:A1:1753:A:H3'	1.65	0.78
1:A1:1840:U:C4'	1:A1:1841:A:O5'	2.31	0.78
1:A1:20:G:N7	50:A1:3719:HOH:O	2.17	0.78
1:A1:2371:G:O2'	1:A1:2372:G:C8	2.35	0.78
1:A1:2519:A:N3	27:BF:41:LEU:HD21	1.99	0.78
1:A1:2569:A:O2'	1:A1:2570:U:P	2.40	0.78
1:A1:3325:G:C5	41:BT:58:ARG:CZ	2.66	0.78
32:CK:76:ASN:HB2	32:CK:79:LYS:HE2	1.66	0.78
21:C3:44:C:O2'	34:CM:152:ARG:HD3	1.84	0.78
39:CR:150:ILE:H	39:CR:150:ILE:HD12	1.49	0.78
1:D1:1221:G:H2'	1:D1:1222:A:C8	2.19	0.78
1:D1:1840:U:C4'	1:D1:1841:A:O5'	2.32	0.78
1:D1:3291:G:O2'	1:D1:3292:U:P	2.42	0.78
1:D1:95:U:O2'	50:D1:3726:HOH:O	2.01	0.78
20:E2:1:A:H2'	20:E2:3:A:C8	2.18	0.78
32:EK:76:ASN:HB2	32:EK:79:LYS:HE2	1.65	0.78
34:EM:52:VAL:HG22	34:EM:63:GLN:HB2	1.66	0.78
41:ET:58:ARG:NH2	1:F1:3325:G:C4	2.51	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1654:G:N3	1:F1:1654:G:H2'	1.98	0.78
1:F1:2830:U:H2'	1:F1:2830:U:O2	1.81	0.78
1:F1:1518:G:P	2:FA:14:LYS:HZ1	2.07	0.78
22:GA:230:ALA:HB3	22:GA:235:LYS:HG3	1.66	0.78
1:H1:1129:C:H5''	1:H1:1130:A:OP2	1.83	0.78
1:H1:138:C:C2'	1:H1:139:A:H5'	2.14	0.78
1:H1:2509:U:OP2	1:H1:2575:G:N2	2.16	0.78
37:GP:150:PRO:HG2	19:HX:138:ILE:HA	1.66	0.78
1:A1:428:A:H2'	1:A1:429:A:H8	1.48	0.77
17:AT:16:SER:O	50:AT:103:HOH:O	2.02	0.77
24:BC:19:THR:HG22	24:BC:21:THR:H	1.48	0.77
34:BM:156:GLY:HA2	34:BM:181:PRO:HG3	1.65	0.77
45:BX:98:ILE:O	45:BX:123:ASN:ND2	2.17	0.77
45:BX:6:VAL:HG12	45:BX:7:ALA:N	1.99	0.77
22:CA:134:TYR:HB3	22:CA:169:ILE:HG12	1.67	0.77
23:CB:210:ASN:ND2	23:CB:352:ILE:H	1.82	0.77
44:CW:14:ASN:ND2	44:CW:17:LYS:HE3	1.99	0.77
1:D1:1016:U:C2'	1:D1:1017:U:H5''	2.13	0.77
24:EC:65:MET:HE3	24:EC:105:ARG:HD3	1.65	0.77
34:EM:212:TYR:HD2	34:EM:228:PHE:CZ	2.02	0.77
1:F1:1057:U:H2'	1:F1:1058:C:H6	1.49	0.77
1:F1:1134:C:H2'	1:F1:1135:U:H5''	1.65	0.77
1:F1:1183:C:C2'	1:F1:1184:U:H5''	2.14	0.77
1:F1:525:C:O2	1:F1:525:C:C2'	2.31	0.77
7:FG:58:TYR:OH	13:FN:84:ARG:HB3	1.84	0.77
36:GO:87:ALA:O	50:GO:302:HOH:O	2.02	0.77
43:GV:104:ARG:HD2	1:H1:1128:G:H5''	1.66	0.77
1:H1:1002:A:H2'	1:H1:1003:G:H5'	1.66	0.77
1:H1:1752:G:H5''	1:H1:1753:A:H3'	1.66	0.77
1:H1:2766:A:C2'	1:H1:2767:A:H5'	2.14	0.77
1:H1:838:G:H1'	2:HA:50:TRP:HZ2	1.49	0.77
6:HF:8:GLN:HE21	6:HF:11:ARG:HH11	1.30	0.77
13:HN:4:PHE:HB2	13:HN:9:ARG:HH21	1.48	0.77
1:A1:126:A:H5'	1:A1:127:A:OP1	1.85	0.77
1:A1:2254:A:C6	1:A1:2255:U:O4	2.37	0.77
1:A1:2508:U:H4'	1:A1:2509:U:OP1	1.83	0.77
1:A1:3266:G:H2'	1:A1:3267:A:H5''	1.67	0.77
13:AN:26:VAL:HG21	13:AN:97:VAL:HG21	1.64	0.77
1:D1:1752:G:H5''	1:D1:1753:A:H3'	1.64	0.77
1:D1:2375:U:O4	50:D1:3930:HOH:O	2.01	0.77
1:D1:3098:A:OP1	10:DK:93:LYS:NZ	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:531:C:H2'	1:D1:532:G:H5'	1.65	0.77
1:D1:753:A:N6	1:D1:766:G:H1'	1.98	0.77
13:DN:26:VAL:HG21	13:DN:97:VAL:HG21	1.67	0.77
16:DQ:16:THR:HB	18:DU:104:GLN:HB2	1.65	0.77
34:EM:156:GLY:HA2	34:EM:181:PRO:HG3	1.67	0.77
43:EV:98:ARG:HH11	43:EV:98:ARG:CG	1.96	0.77
1:F1:1062:A:H2'	1:F1:1063:C:H5'	1.66	0.77
1:F1:1183:C:H2'	1:F1:1184:U:H5''	1.65	0.77
1:F1:120:A:H4'	1:F1:121:A:O5'	1.85	0.77
1:F1:2805:A:N6	50:F1:3824:HOH:O	2.15	0.77
26:EE:168:LYS:NZ	1:F1:3021:A:N3	2.32	0.77
1:F1:610:A:H2'	1:F1:611:A:H8	1.49	0.77
1:F1:91:C:H4'	1:F1:92:G:H5''	1.65	0.77
11:FL:59:VAL:CG1	11:FL:63:GLU:HB3	2.14	0.77
34:GM:3:PHE:CZ	1:H1:1041:C:O2	2.36	0.77
1:H1:1376:A:H5''	1:H1:1377:A:O4'	1.83	0.77
1:H1:2651:A:OP1	50:H1:4311:HOH:O	2.02	0.77
1:H1:3297:A:C5'	1:H1:3298:U:OP1	2.33	0.77
1:H1:459:G:N2	1:H1:517:A:H2'	1.99	0.77
2:HA:28:HIS:CD2	2:HA:31:LYS:HG3	2.18	0.77
1:A1:3170:A:N7	6:AF:2:VAL:N	2.32	0.77
1:A1:3330:U:OP1	44:BW:16:HIS:HD2	1.68	0.77
1:A1:91:C:H4'	1:A1:92:G:H5''	1.66	0.77
21:B3:83:G:H22	21:B3:93:G:H21	1.33	0.77
21:C3:13:A:P	21:C3:109:U:O2'	2.41	0.77
22:CA:30:TYR:HA	22:CA:77:PHE:HE1	1.50	0.77
32:CK:61:ARG:HA	35:CN:172:ARG:HH12	1.48	0.77
1:D1:138:C:C2'	1:D1:139:A:H5'	2.14	0.77
20:E2:100:C:P	39:ER:56:ARG:HH22	2.06	0.77
34:EM:212:TYR:HD2	34:EM:228:PHE:HZ	1.31	0.77
26:EE:23:ARG:HG3	1:F1:3169:A:OP1	1.84	0.77
1:F1:73:G:OP1	18:FU:56:VAL:HG11	1.84	0.77
20:G2:105:A:H5'	20:G2:106:A:C5'	2.13	0.77
29:GH:16:PRO:HG3	29:GH:128:ARG:NH1	1.99	0.77
33:GL:30:TYR:HE2	33:GL:63:ARG:HD3	1.45	0.77
1:H1:1052:A:C2	1:H1:1053:A:N7	2.53	0.77
1:H1:1183:C:C3'	1:H1:1184:U:H5''	2.15	0.77
1:H1:3115:C:H6	1:H1:3115:C:H5'	1.48	0.77
1:H1:590:A:C2'	1:H1:591:G:H5''	2.11	0.77
1:H1:732:C:O2	1:H1:778:G:O2'	2.02	0.77
1:A1:2625:A:H5'	1:A1:2626:A:H5'	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:792:G:O2'	1:A1:793:A:O5'	2.03	0.77
2:AA:14:LYS:HD3	3:AB:52:TYR:CD1	2.19	0.77
11:AL:6:THR:HG22	11:AL:7:TYR:O	1.84	0.77
42:BU:36:LYS:HZ3	42:BU:45:LEU:HD22	1.50	0.77
24:CC:167:GLU:HG2	24:CC:222:THR:HG21	1.66	0.77
38:CQ:32:TYR:HD2	38:CQ:33:GLU:HG2	1.49	0.77
1:D1:552:U:O2'	1:D1:553:C:H5'	1.83	0.77
1:D1:738:U:OP1	18:DU:182:ARG:NH1	2.16	0.77
23:EB:194:LYS:HA	23:EB:197:LEU:HD12	1.66	0.77
35:EN:52:ARG:CB	35:EN:84:THR:HG21	2.04	0.77
30:EI:88:PRO:HD3	1:F1:1203:C:H4'	1.66	0.77
1:F1:2250:A:H1'	1:F1:2251:A:OP2	1.81	0.77
1:F1:459:G:N2	1:F1:517:A:H2'	2.00	0.77
23:GB:210:ASN:HD21	23:GB:352:ILE:H	1.31	0.77
1:A1:3297:A:C5'	1:A1:3298:U:OP1	2.32	0.77
13:AN:4:PHE:N	13:AN:4:PHE:CD1	2.32	0.77
7:AG:35:ARG:HH12	13:AN:77:LEU:C	1.86	0.77
24:BC:259:THR:HG22	24:BC:260:GLU:N	2.00	0.77
1:A1:119:A:H2'	27:BF:100:LYS:NZ	1.99	0.77
35:BN:52:ARG:HH12	35:BN:141:ARG:NE	1.83	0.77
36:BO:87:ALA:O	50:BO:202:HOH:O	2.02	0.77
25:CD:108:GLU:HA	25:CD:122:ILE:HG23	1.65	0.77
30:CI:6:VAL:HG23	30:CI:30:GLN:NE2	2.00	0.77
32:CK:24:LYS:NZ	1:D1:967:U:O4	2.16	0.77
42:CU:90:ARG:O	42:CU:94:ARG:HG2	1.85	0.77
22:CA:35:PHE:CE1	1:D1:2520:G:H2'	2.19	0.77
14:DO:16:LEU:HD13	14:DO:35:ASN:HD22	1.48	0.77
24:EC:234:ASP:OD2	24:EC:254:ARG:NH2	2.13	0.77
1:F1:619:G:H4'	1:F1:620:A:C2	2.20	0.77
1:F1:994:C:OP1	50:F1:4107:HOH:O	2.03	0.77
19:FX:113:LEU:HD21	19:FX:140:THR:HG21	1.64	0.77
24:GC:234:ASP:OD2	24:GC:254:ARG:NH2	2.14	0.77
28:GG:101:UNK:O	28:GG:105:UNK:HG2	1.83	0.77
30:GI:109:THR:CG2	30:GI:110:PRO:HD3	2.15	0.77
37:GP:116:LYS:NZ	37:GP:128:THR:HB	1.99	0.77
39:GR:150:ILE:H	39:GR:150:ILE:HD12	1.49	0.77
1:H1:1513:A:OP2	50:H1:4094:HOH:O	2.02	0.77
1:H1:428:A:H2'	1:H1:429:A:C8	2.20	0.77
32:GK:29:GLY:HA3	1:H1:962:G:H5'	1.66	0.77
19:HX:22:VAL:HG23	19:HX:78:ILE:CD1	2.13	0.77
19:HX:7:GLN:OE1	19:HX:79:TYR:HB3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1047:G:H2'	1:A1:1048:U:C5'	2.13	0.77
1:A1:138:C:C2'	1:A1:139:A:H5'	2.14	0.77
1:A1:1737:A:O2'	1:A1:1738:A:C8	2.37	0.77
1:A1:654:U:H2'	1:A1:655:A:C8	2.19	0.77
23:BB:157:ARG:HG2	23:BB:180:GLN:HA	1.66	0.77
31:CJ:11:VAL:HG12	31:CJ:11:VAL:O	1.85	0.77
35:CN:5:LEU:HD23	43:CV:106:ARG:HD2	1.66	0.77
1:D1:1050:C:H2'	1:D1:1051:C:C1'	2.14	0.77
1:D1:1640:C:H2'	1:D1:1641:U:C6	2.18	0.77
1:D1:1864:U:H5'	50:D1:4254:HOH:O	1.82	0.77
1:D1:2310:G:OP1	50:D1:4278:HOH:O	2.02	0.77
1:F1:142:A:N7	50:F1:3716:HOH:O	2.17	0.77
1:F1:3020:G:O2'	1:F1:3021:A:H5''	1.85	0.77
1:F1:418:G:O6	1:F1:2378:A:O2'	2.02	0.77
1:F1:428:A:H2'	1:F1:429:A:C8	2.19	0.77
1:F1:444:A:N1	1:F1:533:G:N2	2.33	0.77
13:FN:4:PHE:HB2	13:FN:9:ARG:HH21	1.49	0.77
16:FQ:37:ARG:O	16:FQ:41:VAL:HG23	1.82	0.77
28:GG:31:UNK:C	1:H1:1257:G:C4'	2.56	0.77
31:GJ:46:ILE:CD1	31:GJ:54:PRO:HB3	2.14	0.77
31:GJ:46:ILE:HD11	31:GJ:54:PRO:HB3	1.64	0.77
21:G3:59:C:O2'	34:GM:279:PRO:HD2	1.84	0.77
42:GU:58:TYR:O	42:GU:62:ILE:HD12	1.84	0.77
46:GY:4:ARG:NH1	1:H1:881:G:N2	2.31	0.77
1:H1:1753:A:H3'	1:H1:1754:G:H5''	1.64	0.77
1:H1:2542:U:H5''	1:H1:2542:U:H6	1.49	0.77
1:H1:3226:A:H5''	5:HE:80:TYR:OH	1.85	0.77
1:H1:1518:G:OP1	2:HA:14:LYS:NZ	2.17	0.77
16:HQ:16:THR:HB	18:HU:104:GLN:HB2	1.66	0.77
1:A1:1183:C:C3'	1:A1:1184:U:H5''	2.14	0.77
1:A1:1448:G:H4'	45:BX:79:ARG:HH12	1.50	0.77
1:A1:61:A:OP2	50:A1:3753:HOH:O	2.02	0.77
1:A1:3273:U:OP1	23:BB:171:GLN:NE2	2.18	0.77
1:A1:1308:U:C5'	28:BG:58:UNK:CB	2.57	0.77
24:BC:298:ILE:CD1	35:BN:125:ASP:HB2	2.15	0.77
44:BW:10:ASP:OD1	44:BW:73:ARG:HG2	1.83	0.77
26:CE:7:GLU:HG2	26:CE:56:GLN:HG2	1.66	0.77
26:CE:91:LYS:HG2	26:CE:180:SER:HB3	1.64	0.77
35:CN:52:ARG:NH1	35:CN:141:ARG:HE	1.82	0.77
24:CC:308:VAL:CG1	35:CN:40:ARG:HH11	1.97	0.77
47:CO:167:UNK:C	47:CO:170:UNK:HG3	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CW:10:ASP:OD1	44:CW:73:ARG:HG2	1.85	0.77
45:CX:6:VAL:HG12	45:CX:7:ALA:N	1.98	0.77
1:D1:1037:A:H2'	1:D1:1038:G:H8	1.49	0.77
1:D1:1461:A:H5''	1:D1:1462:U:H5''	1.67	0.77
1:D1:439:A:H8	1:D1:439:A:P	2.07	0.77
1:D1:532:G:OP1	5:DE:127:LYS:NZ	2.17	0.77
32:CK:100:PRO:HB3	18:DU:164:LYS:NZ	1.99	0.77
18:DU:56:VAL:HG12	18:DU:57:ARG:H	1.49	0.77
29:EH:140:VAL:HG11	29:EH:144:HIS:HB2	1.66	0.77
1:F1:1307:C:H2'	1:F1:1308:U:H6	1.49	0.77
1:F1:1700:A:H2'	1:F1:1701:A:H8	1.49	0.77
1:F1:2966:U:O2'	1:F1:2967:U:C5'	2.32	0.77
23:EB:28:ARG:NH2	1:F1:3129:G:O6	2.18	0.77
1:F1:3236:C:O2'	1:F1:3237:C:OP1	2.01	0.77
21:G3:62:U:H4'	21:G3:63:A:OP1	1.85	0.77
26:GE:34:ILE:HD11	26:GE:147:ILE:HG22	1.67	0.77
1:H1:2308:A:OP2	50:H1:4237:HOH:O	2.02	0.77
1:H1:2390:G:C8	50:H1:3854:HOH:O	2.38	0.77
1:H1:792:G:H5'	18:HU:190:TRP:CD2	2.20	0.77
6:AF:13:VAL:CG1	6:AF:53:VAL:HG22	2.15	0.77
7:AG:10:ILE:O	7:AG:13:LYS:HG2	1.85	0.77
42:BU:90:ARG:O	42:BU:94:ARG:HG2	1.84	0.77
46:BY:15:GLY:O	46:BY:23:ARG:NH1	2.17	0.77
23:CB:16:PHE:HD2	23:CB:273:ARG:HH12	1.28	0.77
24:CC:152:VAL:HG21	24:CC:255:PHE:CE1	2.19	0.77
28:CG:101:UNK:O	28:CG:105:UNK:HG2	1.85	0.77
42:CU:36:LYS:HZ3	42:CU:45:LEU:HD22	1.50	0.77
1:D1:1183:C:C2'	1:D1:1184:U:H5''	2.15	0.77
1:D1:1442:G:OP1	50:D1:3895:HOH:O	2.02	0.77
1:D1:2415:C:C2'	1:D1:2416:U:H5''	2.14	0.77
1:D1:2933:G:H5''	1:D1:2933:G:N3	1.99	0.77
20:E2:12:A:H2'	20:E2:13:A:C8	2.20	0.77
25:ED:32:LYS:O	25:ED:36:VAL:HG23	1.85	0.77
26:EE:34:ILE:HD11	26:EE:147:ILE:HG22	1.66	0.77
26:EE:52:ASN:OD1	26:EE:53:VAL:N	2.18	0.77
26:EE:73:SER:HA	26:EE:76:LYS:HE2	1.67	0.77
30:EI:61:MET:HE1	30:EI:68:GLY:HA3	1.66	0.77
31:EJ:46:ILE:HD11	31:EJ:54:PRO:HB3	1.66	0.77
44:EW:10:ASP:OD1	44:EW:73:ARG:HG2	1.84	0.77
1:F1:1129:C:H5''	1:F1:1130:A:OP2	1.84	0.77
1:F1:1376:A:H5''	1:F1:1377:A:H5'	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1434:G:H2'	1:F1:1435:C:H5'	1.66	0.77
1:H1:1024:A:O2'	1:H1:1025:G:H5'	1.83	0.77
1:H1:564:A:H2'	1:H1:564:A:N3	2.00	0.77
1:A1:1046:G:H2'	1:A1:1047:G:C8	2.20	0.77
18:AU:72:GLY:O	18:AU:99:ARG:NH1	2.17	0.77
1:A1:57:G:H2'	20:B2:36:G:H5'	1.67	0.77
30:BI:64:ASN:HD21	30:BI:66:ARG:HG2	1.48	0.77
23:CB:332:ARG:CG	23:CB:332:ARG:HH11	1.98	0.77
24:CC:152:VAL:HG13	24:CC:157:TYR:CD2	2.20	0.77
35:CN:52:ARG:CB	35:CN:84:THR:HG21	2.04	0.77
30:CI:88:PRO:HD3	1:D1:1203:C:H4'	1.67	0.77
1:D1:1918:U:O2'	1:D1:1919:A:H5''	1.83	0.77
5:DE:63:VAL:HG11	5:DE:76:VAL:CG1	2.14	0.77
21:E3:10:C:C2	34:EM:20:TYR:HD1	2.03	0.77
21:E3:1:G:N3	34:EM:274:HIS:NE2	2.29	0.77
30:EI:64:ASN:ND2	30:EI:66:ARG:HG2	2.00	0.77
33:EL:80:VAL:HG13	33:EL:87:VAL:HG13	1.65	0.77
21:E3:27:A:H5''	34:EM:57:ASN:HD21	1.50	0.77
1:F1:1461:A:H5''	1:F1:1462:U:H5''	1.67	0.77
1:F1:1927:U:OP2	50:F1:4326:HOH:O	2.02	0.77
1:F1:638:U:H2'	1:F1:639:U:H6	1.50	0.77
6:FF:30:ILE:HG21	19:FX:163:PHE:HE2	1.49	0.77
19:FX:96:GLN:H	19:FX:134:THR:HG21	1.49	0.77
24:GC:126:ARG:HB3	24:GC:283:TYR:CE2	2.20	0.77
21:G3:64:A:O2'	29:GH:205:PRO:HG3	1.83	0.77
37:GP:94:GLU:N	37:GP:94:GLU:OE1	2.18	0.77
37:GP:142:GLN:OE1	43:GV:71:ALA:HB2	1.84	0.77
1:H1:1831:G:OP2	50:H1:4131:HOH:O	2.03	0.77
1:H1:1843:U:H2'	1:H1:1844:U:C6	2.19	0.77
26:GE:166:LYS:NZ	1:H1:2882:U:OP1	2.12	0.77
1:H1:3222:U:O2'	1:H1:3223:G:H5'	1.85	0.77
1:H1:332:G:C2'	1:H1:333:G:H5''	2.14	0.77
1:H1:467:A:N6	1:H1:512:G:C2	2.53	0.77
7:HG:24:THR:HG21	7:HG:29:SER:OG	1.85	0.77
1:A1:1049:U:H2'	1:A1:1050:C:C6	2.20	0.77
1:A1:1598:C:H2'	1:A1:1599:G:O4'	1.85	0.77
1:A1:439:A:H8	1:A1:439:A:P	2.08	0.77
21:B3:43:A:OP1	25:BD:137:ARG:HD2	1.84	0.77
34:BM:212:TYR:HD2	34:BM:228:PHE:HZ	1.30	0.77
37:CP:152:VAL:HG22	19:DX:138:ILE:HD13	1.67	0.77
1:D1:120:A:H4'	1:D1:121:A:O5'	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1376:A:H5''	1:D1:1377:A:O4'	1.84	0.77
1:D1:73:G:P	18:DU:56:VAL:HG11	2.25	0.77
1:D1:800:G:H4'	1:D1:801:U:OP2	1.83	0.77
14:DO:6:TRP:HZ3	14:DO:40:LEU:HD12	1.50	0.77
23:EB:332:ARG:CG	23:EB:332:ARG:HH11	1.98	0.77
24:EC:319:ARG:NH2	1:F1:620:A:C8	2.53	0.77
25:ED:108:GLU:HA	25:ED:122:ILE:HG23	1.67	0.77
29:EH:42:THR:HG22	29:EH:44:GLU:H	1.49	0.77
1:F1:1073:A:O2'	1:F1:1074:A:O5'	2.03	0.77
27:EF:43:ARG:NH1	1:F1:2521:A:N1	2.32	0.77
1:F1:654:U:H2'	1:F1:655:A:C8	2.19	0.77
13:FN:26:VAL:HG21	13:FN:97:VAL:HG21	1.67	0.77
20:G2:25:U:H4'	20:G2:26:A:OP1	1.82	0.77
24:GC:107:PHE:HE1	1:H1:827:C:O2'	1.67	0.77
21:G3:43:A:OP1	25:GD:137:ARG:HD2	1.84	0.77
29:GH:140:VAL:HG11	29:GH:144:HIS:HB2	1.67	0.77
29:GH:86:HIS:HB3	29:GH:139:ARG:HG2	1.67	0.77
32:GK:100:PRO:HB3	18:HU:164:LYS:NZ	2.00	0.77
1:H1:1048:U:H2'	1:H1:1049:U:C5'	2.14	0.77
20:G2:36:G:H5''	1:H1:57:G:H2'	1.65	0.77
1:A1:1430:G:N7	50:A1:3922:HOH:O	2.17	0.76
1:A1:2344:U:H6	1:A1:2344:U:H5'	1.49	0.76
1:A1:282:G:H22	1:A1:304:U:C5'	1.98	0.76
1:A1:3222:U:O2'	1:A1:3223:G:H5'	1.84	0.76
1:A1:518:G:O2'	1:A1:519:A:O4'	2.03	0.76
9:AJ:143:ALA:C	9:AJ:144:ASN:HD22	1.88	0.76
6:AF:3:PHE:CD1	19:AX:164:PRO:HB3	2.21	0.76
24:BC:152:VAL:HG21	24:BC:255:PHE:CE1	2.19	0.76
26:CE:124:ILE:CD1	26:CE:159:ILE:HA	2.14	0.76
28:CG:11:UNK:O	28:CG:15:UNK:HG2	1.85	0.76
34:CM:52:VAL:HG22	34:CM:63:GLN:HB2	1.68	0.76
37:CP:94:GLU:OE1	37:CP:94:GLU:N	2.18	0.76
1:D1:1129:C:H5''	1:D1:1130:A:OP2	1.83	0.76
1:D1:2640:G:O2'	1:D1:2784:G:O6	2.02	0.76
1:D1:3061:A:OP2	50:D1:4503:HOH:O	2.03	0.76
9:DJ:145:ASN:HD22	9:DJ:146:VAL:H	1.31	0.76
24:EC:251:HIS:HD2	1:F1:1410:G:O2'	1.68	0.76
31:EJ:127:ALA:HB1	9:FJ:58:ILE:HD13	1.66	0.76
46:EY:4:ARG:NH1	1:F1:881:G:N2	2.33	0.76
1:F1:1002:A:H2'	1:F1:1003:G:H5'	1.65	0.76
1:F1:1909:C:HO2'	1:F1:1910:A:P	2.07	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3098:A:OP1	10:FK:93:LYS:NZ	2.17	0.76
1:F1:635:A:O2'	5:FE:33:LEU:HD13	1.85	0.76
5:FE:41:LEU:CD1	5:FE:45:ILE:HD13	2.13	0.76
14:FO:90:VAL:HG12	14:FO:111:LEU:HD11	1.67	0.76
43:GV:36:GLN:O	43:GV:40:GLU:HG2	1.84	0.76
1:H1:1223:U:O2	1:H1:1223:U:H2'	1.83	0.76
39:GR:48:ALA:O	1:H1:14:A:H5''	1.85	0.76
1:H1:591:G:H2'	1:H1:592:A:H8	1.49	0.76
11:HL:88:ARG:HG3	13:HN:14:LEU:HD13	1.67	0.76
13:HN:26:VAL:HG21	13:HN:97:VAL:HG21	1.67	0.76
1:A1:1461:A:H5''	1:A1:1462:U:H5''	1.66	0.76
1:A1:1566:U:H2'	1:A1:1567:A:H8	1.48	0.76
1:A1:467:A:N6	1:A1:512:G:C2	2.54	0.76
1:A1:526:U:O2'	1:A1:527:A:C8	2.38	0.76
1:A1:619:G:H4'	1:A1:620:A:C2	2.20	0.76
1:A1:857:G:OP1	50:BO:202:HOH:O	2.04	0.76
18:AU:144:SER:HB2	42:BU:123:LYS:HZ1	1.46	0.76
24:CC:327:ASN:HB3	24:CC:331:PHE:CE2	2.21	0.76
27:CF:50:TYR:CE1	27:CF:51:ILE:HG23	2.19	0.76
40:CS:43:ASN:O	40:CS:125:LEU:HD12	1.85	0.76
1:D1:1307:C:H2'	1:D1:1308:U:H6	1.49	0.76
24:EC:376:TRP:CD1	1:F1:564:A:C1'	2.48	0.76
24:EC:405:ILE:CD1	29:EH:183:ARG:HE	1.99	0.76
30:EI:113:ARG:HH11	1:F1:3162:A:N6	1.81	0.76
21:E3:120:U:H4'	34:EM:265:LYS:HZ1	1.48	0.76
42:EU:90:ARG:O	42:EU:94:ARG:HG2	1.84	0.76
1:F1:2140:A:P	50:F1:3985:HOH:O	2.42	0.76
1:F1:2188:U:O2'	1:F1:2189:G:P	2.42	0.76
1:F1:3115:C:H6	1:F1:3115:C:H5'	1.51	0.76
1:F1:738:U:OP1	18:FU:182:ARG:NH1	2.17	0.76
21:G3:56:G:H4'	25:GD:146:SER:OG	1.86	0.76
1:H1:2366:G:H5''	1:H1:2367:A:OP2	1.85	0.76
1:H1:2931:G:OP1	50:H1:3939:HOH:O	2.02	0.76
1:H1:832:A:C2	1:H1:2406:U:O2'	2.38	0.76
1:A1:19:A:H4'	1:A1:20:G:OP2	1.85	0.76
16:AQ:16:THR:HB	18:AU:104:GLN:HB2	1.68	0.76
1:D1:304:U:O2'	1:D1:305:A:P	2.43	0.76
1:D1:564:A:N3	1:D1:564:A:H2'	2.00	0.76
5:DE:63:VAL:CG1	5:DE:76:VAL:HG13	2.15	0.76
27:EF:41:LEU:HD21	1:F1:2519:A:N3	2.00	0.76
38:EQ:32:TYR:HD2	38:EQ:33:GLU:HG2	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:358:C:H4'	1:F1:842:A:N6	2.00	0.76
34:GM:212:TYR:HD2	34:GM:228:PHE:CZ	2.02	0.76
45:GX:112:LYS:NZ	14:HO:128:GLU:OE2	2.17	0.76
1:H1:991:U:O4	1:H1:1142:G:N2	2.18	0.76
1:H1:1771:U:O2'	15:HP:54:LYS:NZ	2.14	0.76
1:H1:2439:C:H2'	1:H1:2440:A:C8	2.20	0.76
1:H1:358:C:H4'	1:H1:842:A:N6	2.00	0.76
19:HX:96:GLN:H	19:HX:134:THR:HG21	1.51	0.76
1:A1:1035:A:C2	1:A1:1068:U:H1'	2.21	0.76
1:A1:120:A:H4'	1:A1:121:A:O5'	1.84	0.76
1:A1:1809:C:OP1	50:A1:4092:HOH:O	2.03	0.76
1:A1:2830:U:H2'	1:A1:2830:U:O2	1.84	0.76
1:A1:874:C:H4'	1:H1:2301:C:H41	1.48	0.76
7:AG:11:GLN:HE22	1:H1:2249:U:C3'	1.98	0.76
35:BN:123:THR:HG23	35:BN:125:ASP:OD1	1.85	0.76
38:BQ:29:LYS:HD2	38:BQ:65:PHE:CD2	2.20	0.76
21:C3:27:A:H5''	34:CM:57:ASN:HD21	1.50	0.76
1:D1:1654:G:C4'	1:D1:1655:A:OP2	2.33	0.76
1:D1:2933:G:H4'	1:D1:2934:A:OP1	1.84	0.76
1:D1:418:G:H3'	1:D1:418:G:C8	2.21	0.76
1:D1:47:G:OP2	50:D1:3727:HOH:O	2.03	0.76
1:D1:563:G:H4'	1:D1:564:A:OP1	1.84	0.76
7:DG:10:ILE:O	7:DG:13:LYS:HG2	1.84	0.76
21:E3:65:G:OP2	50:E3:328:HOH:O	2.03	0.76
27:EF:67:PRO:HB2	27:EF:68:PRO:HD2	1.67	0.76
29:EH:43:VAL:HG11	29:EH:197:VAL:HG23	1.67	0.76
42:EU:123:LYS:HZ1	18:FU:144:SER:HB2	1.47	0.76
1:F1:1752:G:H5''	1:F1:1753:A:H3'	1.65	0.76
2:FA:21:ARG:CD	2:FA:44:MET:HE1	2.16	0.76
7:FG:10:ILE:O	7:FG:13:LYS:HG2	1.85	0.76
9:FJ:145:ASN:HD22	9:FJ:146:VAL:H	1.30	0.76
13:FN:4:PHE:N	13:FN:4:PHE:CD1	2.32	0.76
1:F1:2216:G:O6	16:FQ:75:LYS:NZ	2.18	0.76
32:EK:99:VAL:HB	18:FU:169:ILE:HD11	1.66	0.76
19:FX:180:VAL:HG13	19:FX:181:TYR:HD1	1.50	0.76
21:G3:81:A:C2'	21:G3:82:G:H5''	2.16	0.76
24:GC:152:VAL:HG21	24:GC:255:PHE:CE1	2.19	0.76
1:H1:1004:U:C6	1:H1:1004:U:H5'	2.17	0.76
1:H1:1909:C:O2'	1:H1:1910:A:P	2.44	0.76
1:H1:610:A:H2'	1:H1:611:A:H8	1.49	0.76
1:H1:789:U:H4'	1:H1:790:C:OP1	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:16:VAL:HG23	1:H1:936:C:OP1	1.84	0.76
16:HQ:43:GLN:HA	16:HQ:43:GLN:OE1	1.84	0.76
32:GK:68:ASN:HB3	18:HU:60:THR:HG21	1.67	0.76
1:A1:1477:C:OP1	50:A1:4155:HOH:O	2.02	0.76
1:A1:2619:C:OP1	37:BP:5:TYR:O	2.03	0.76
1:A1:3158:G:H3'	1:A1:3159:A:H5'	1.67	0.76
1:A1:418:G:O6	1:A1:2378:A:O2'	2.02	0.76
1:A1:809:A:H4'	35:BN:92:ARG:HH21	1.49	0.76
24:BC:327:ASN:HB3	24:BC:331:PHE:CE2	2.20	0.76
34:BM:212:TYR:HD2	34:BM:228:PHE:CZ	2.02	0.76
34:BM:59:ARG:HB2	34:BM:81:TYR:CE2	2.21	0.76
36:BO:109:TYR:HB3	36:BO:115:ILE:HG13	1.67	0.76
24:CC:213:LEU:HD12	24:CC:234:ASP:O	1.86	0.76
47:CO:164:UNK:O	47:CO:168:UNK:HG2	1.85	0.76
1:D1:138:C:H2'	1:D1:139:A:H5'	1.68	0.76
1:D1:1909:C:HO2'	1:D1:1910:A:P	2.07	0.76
1:D1:2439:C:H2'	1:D1:2440:A:C8	2.20	0.76
1:D1:3297:A:C5'	1:D1:3298:U:OP1	2.34	0.76
8:DH:11:PRO:HG2	8:DH:12:THR:H	1.51	0.76
21:E3:13:A:P	21:E3:109:U:O2'	2.43	0.76
1:F1:1376:A:H5''	1:F1:1377:A:O4'	1.85	0.76
38:EQ:82:GLN:NE2	1:F1:2383:U:O2'	2.18	0.76
24:GC:152:VAL:HG13	24:GC:157:TYR:CD2	2.20	0.76
24:GC:164:GLU:OE2	24:GC:259:THR:HG21	1.86	0.76
28:GG:11:UNK:O	28:GG:15:UNK:HG2	1.85	0.76
34:GM:254:ILE:O	34:GM:258:PRO:HD3	1.85	0.76
1:H1:1016:U:C2'	1:H1:1017:U:H5''	2.15	0.76
1:H1:1183:C:C2'	1:H1:1184:U:H5''	2.15	0.76
1:H1:3266:G:H2'	1:H1:3267:A:H5''	1.68	0.76
9:HJ:112:ASP:H	9:HJ:156:ASN:HD21	1.31	0.76
15:HP:48:LYS:HG3	15:HP:49:TYR:CE2	2.21	0.76
1:A1:1130:A:H5'	1:A1:1131:G:OP2	1.86	0.76
1:A1:2542:U:H5''	1:A1:2542:U:H6	1.49	0.76
1:A1:3230:G:O2'	1:A1:3231:U:P	2.43	0.76
1:A1:753:A:H61	1:A1:766:G:H1'	1.50	0.76
9:AJ:58:ILE:HD13	31:BJ:127:ALA:HB1	1.66	0.76
32:BK:118:LEU:CB	32:BK:141:VAL:HG21	2.16	0.76
34:BM:52:VAL:HG22	34:BM:63:GLN:HB2	1.68	0.76
35:BN:82:VAL:CG2	35:BN:127:LEU:HD11	2.16	0.76
36:BO:152:SER:HB3	36:BO:163:ARG:HH12	1.48	0.76
20:C2:18:G:H1'	1:D1:406:A:H61	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:58:PRO:HD2	22:CA:171:ALA:HB3	1.66	0.76
34:CM:212:TYR:HD2	34:CM:228:PHE:CZ	2.02	0.76
1:D1:1054:G:C2'	1:D1:1055:A:C8	2.67	0.76
25:CD:99:THR:CG2	1:D1:2673:C:O2'	2.34	0.76
1:D1:2994:G:HO2'	1:D1:2995:A:H8	1.31	0.76
1:D1:55:A:OP2	50:D1:3717:HOH:O	2.02	0.76
4:DC:19:THR:HG21	4:DC:72:CYS:SG	2.25	0.76
37:CP:139:VAL:HG21	19:DX:30:ILE:HD11	1.67	0.76
23:EB:16:PHE:HD2	23:EB:273:ARG:HH12	1.32	0.76
24:EC:164:GLU:OE2	24:EC:259:THR:HG21	1.85	0.76
30:EI:6:VAL:HG23	30:EI:30:GLN:NE2	2.00	0.76
37:EP:116:LYS:NZ	37:EP:128:THR:HB	2.00	0.76
28:EG:60:UNK:HG1	1:F1:1249:G:C5'	2.13	0.76
1:F1:2640:G:O2'	1:F1:2784:G:O6	2.02	0.76
1:F1:283:A:OP1	4:FC:39:ARG:NH1	2.17	0.76
1:F1:526:U:O2'	1:F1:527:A:C8	2.39	0.76
1:F1:579:G:H1'	19:FX:158:ASN:N	2.01	0.76
23:GB:24:HIS:CE1	23:GB:28:ARG:HD2	2.20	0.76
32:GK:51:HIS:HE1	18:HU:6:GLN:HA	1.51	0.76
27:GF:154:GLU:OE2	33:GL:26:ARG:NH2	2.18	0.76
1:H1:1460:G:OP2	50:H1:3773:HOH:O	2.01	0.76
14:HO:6:TRP:HZ3	14:HO:40:LEU:HD12	1.50	0.76
1:H1:73:G:P	18:HU:56:VAL:HG11	2.26	0.76
1:A1:1063:C:O2'	34:BM:5:LYS:HA	1.85	0.76
1:A1:1307:C:H2'	1:A1:1308:U:H6	1.48	0.76
1:A1:1448:G:H2'	1:A1:1449:C:H6	1.50	0.76
1:A1:2989:G:H21	23:BB:118:PHE:HE2	1.31	0.76
1:A1:591:G:H2'	1:A1:592:A:H8	1.50	0.76
1:A1:88:U:H2'	1:A1:89:G:H5'	1.66	0.76
1:A1:974:C:O2'	1:A1:996:A:OP1	2.03	0.76
25:BD:108:GLU:HA	25:BD:122:ILE:HG23	1.68	0.76
25:BD:29:LYS:HA	25:BD:32:LYS:HD2	1.68	0.76
26:BE:124:ILE:CD1	26:BE:159:ILE:HA	2.16	0.76
33:BL:182:LYS:HG2	33:BL:183:SER:N	2.01	0.76
21:B3:11:A:C8	34:BM:18:THR:HB	2.20	0.76
24:BC:311:ALA:H	35:BN:40:ARG:NH2	1.82	0.76
41:BT:5:THR:HG21	41:BT:14:ARG:CG	2.15	0.76
41:CT:15:ILE:HG12	41:CT:34:LEU:HD13	1.67	0.76
1:D1:1700:A:H2'	1:D1:1701:A:H8	1.50	0.76
1:D1:2766:A:C2'	1:D1:2767:A:H5'	2.16	0.76
1:D1:284:U:O4'	50:D1:3848:HOH:O	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:17:THR:HG22	2:DA:18:LEU:N	2.00	0.76
17:DT:47:ILE:O	17:DT:55:LYS:NZ	2.16	0.76
19:DX:96:GLN:H	19:DX:134:THR:HG21	1.50	0.76
23:EB:118:PHE:HE2	1:F1:2989:G:N2	1.84	0.76
30:EI:159:ARG:O	30:EI:162:ARG:HG2	1.84	0.76
36:EO:133:LYS:HG3	36:EO:134:ASN:H	1.51	0.76
41:ET:58:ARG:CZ	1:F1:3325:G:C5	2.69	0.76
1:F1:1354:C:O2'	1:F1:1355:C:H5'	1.85	0.76
1:F1:1657:C:OP1	13:FN:111:ARG:NH1	2.14	0.76
1:F1:2362:A:OP2	50:F1:3767:HOH:O	2.02	0.76
1:F1:567:C:N4	1:F1:603:A:C6	2.54	0.76
12:FM:21:CYS:SG	12:FM:30:ILE:HG21	2.25	0.76
32:EK:88:THR:HG23	18:FU:164:LYS:NZ	2.01	0.76
24:GC:65:MET:CE	24:GC:105:ARG:HH11	1.97	0.76
27:GF:67:PRO:HB2	27:GF:68:PRO:HD2	1.68	0.76
30:GI:64:ASN:ND2	30:GI:66:ARG:HG2	2.01	0.76
38:GQ:32:TYR:HD1	38:GQ:33:GLU:HG2	1.51	0.76
42:GU:104:VAL:HG13	42:GU:108:THR:HB	1.67	0.76
43:GV:86:ILE:HG12	43:GV:131:ILE:HA	1.68	0.76
44:GW:10:ASP:OD1	44:GW:73:ARG:HG2	1.86	0.76
45:GX:98:ILE:O	45:GX:123:ASN:ND2	2.19	0.76
46:GY:7:LYS:O	46:GY:27:LYS:NZ	2.16	0.76
1:H1:120:A:H4'	1:H1:121:A:O5'	1.84	0.76
1:H1:1307:C:H2'	1:H1:1308:U:H6	1.49	0.76
1:H1:2890:A:OP2	50:H1:4276:HOH:O	2.04	0.76
1:H1:517:A:H4'	1:H1:518:G:OP2	1.84	0.76
5:HE:63:VAL:HG11	5:HE:76:VAL:CG1	2.16	0.76
1:A1:1064:C:C2'	1:A1:1065:U:H5'	2.14	0.76
1:A1:127:A:OP2	50:A1:3813:HOH:O	2.03	0.76
1:A1:1413:G:O2'	1:A1:1414:C:H5'	1.86	0.76
1:A1:3115:C:H6	1:A1:3115:C:H5'	1.50	0.76
1:A1:357:G:OP2	50:A1:3856:HOH:O	2.04	0.76
1:A1:418:G:H21	30:BI:67:ARG:HH21	1.31	0.76
1:A1:564:A:N3	1:A1:564:A:H2'	1.99	0.76
19:AX:158:ASN:ND2	19:AX:160:ALA:HB3	2.00	0.76
27:BF:29:PHE:CD2	27:BF:37:PRO:HD3	2.21	0.76
29:BH:42:THR:HG22	29:BH:44:GLU:H	1.49	0.76
30:BI:109:THR:CG2	30:BI:110:PRO:HD3	2.16	0.76
30:BI:61:MET:CE	30:BI:68:GLY:HA3	2.15	0.76
32:BK:122:PRO:CA	32:BK:142:GLY:O	2.33	0.76
24:BC:284:GLN:HG2	35:BN:108:GLU:OE2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C3:120:U:H4'	34:CM:265:LYS:NZ	2.01	0.76
35:CN:155:ALA:O	35:CN:158:GLN:HG3	1.86	0.76
39:CR:73:THR:HG23	42:CU:37:ILE:HD13	1.66	0.76
42:CU:76:GLY:HA2	1:D1:133:C:H2'	1.67	0.76
43:CV:12:LYS:CE	1:D1:1376:A:H3'	2.15	0.76
1:D1:1478:A:N7	50:D1:4244:HOH:O	2.17	0.76
1:D1:453:A:N6	1:D1:524:G:H2'	2.01	0.76
7:DG:63:ALA:HB1	13:DN:2:ALA:HB1	1.66	0.76
13:DN:87:VAL:CG1	13:DN:90:LEU:HB2	2.16	0.76
37:EP:21:THR:HA	37:EP:24:HIS:CD2	2.21	0.76
1:F1:3176:A:H4'	1:F1:3177:G:O5'	1.86	0.76
1:F1:517:A:H4'	1:F1:518:G:OP2	1.83	0.76
1:F1:654:U:H2'	1:F1:655:A:H8	1.51	0.76
1:F1:800:G:H4'	1:F1:801:U:OP2	1.84	0.76
34:GM:83:LEU:HB3	34:GM:88:VAL:CG2	2.16	0.76
43:GV:208:ARG:NH2	1:H1:1354:C:OP1	2.19	0.76
27:GF:130:ASN:HB2	1:H1:148:G:O6	1.84	0.76
1:H1:1862:C:H5''	1:H1:1863:A:O5'	1.85	0.76
27:GF:62:GLN:OE1	1:H1:2574:U:N3	2.19	0.76
1:H1:508:A:O2'	1:H1:509:A:C8	2.38	0.76
1:A1:1958:G:N7	50:A1:4528:HOH:O	2.18	0.76
1:A1:304:U:O2'	1:A1:305:A:C8	2.38	0.76
1:A1:332:G:C2'	1:A1:333:G:H5''	2.16	0.76
1:A1:800:G:H4'	1:A1:801:U:OP2	1.85	0.76
9:AJ:30:ALA:HB3	9:AJ:35:TYR:CZ	2.20	0.76
23:BB:113:ASN:HB2	23:BB:174:ASN:HD21	1.49	0.76
24:BC:163:VAL:O	24:BC:166:TYR:HD2	1.68	0.76
25:BD:50:ALA:O	25:BD:62:ASN:N	2.18	0.76
20:C2:36:G:H5''	1:D1:57:G:H2'	1.68	0.76
29:CH:86:HIS:HB3	29:CH:139:ARG:HG2	1.67	0.76
47:CO:109:TYR:HB3	47:CO:115:ILE:CG1	2.15	0.76
1:D1:1354:C:O2'	1:D1:1355:C:H5'	1.86	0.76
46:CY:12:ARG:NH1	1:D1:1951:G:O3'	2.19	0.76
1:D1:2188:U:O2'	1:D1:2189:G:P	2.43	0.76
16:DQ:43:GLN:HA	16:DQ:43:GLN:OE1	1.83	0.76
22:EA:30:TYR:HA	22:EA:77:PHE:CE1	2.20	0.76
23:EB:292:ALA:HB3	23:EB:301:LYS:HB3	1.68	0.76
29:EH:48:TYR:HE1	29:EH:178:ARG:CZ	1.99	0.76
38:EQ:103:ASN:HD21	1:F1:388:A:H1'	1.50	0.76
38:EQ:133:ARG:HD2	1:F1:905:G:OP2	1.86	0.76
1:F1:3297:A:C5'	1:F1:3298:U:OP1	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:753:A:H61	1:F1:766:G:H1'	1.50	0.76
1:F1:991:U:O4	1:F1:1142:G:N2	2.19	0.76
20:G2:105:A:C8	20:G2:106:A:C8	2.74	0.76
24:GC:327:ASN:HB3	24:GC:331:PHE:CE2	2.20	0.76
32:GK:122:PRO:CA	32:GK:142:GLY:O	2.34	0.76
1:H1:1654:G:C4'	1:H1:1655:A:OP2	2.34	0.76
1:H1:2250:A:OP2	1:H1:2251:A:N7	2.19	0.76
1:H1:282:G:H22	1:H1:304:U:C5'	1.98	0.76
1:H1:434:A:H5''	1:H1:435:A:OP1	1.85	0.76
1:H1:526:U:O2'	1:H1:527:A:C8	2.37	0.76
11:HL:5:ILE:HG22	11:HL:6:THR:H	1.50	0.76
1:A1:1875:G:N7	50:A1:4163:HOH:O	2.18	0.76
1:A1:444:A:N1	1:A1:533:G:N2	2.32	0.76
1:A1:3234:U:O2'	8:AH:105:ARG:NH1	2.19	0.76
21:B3:46:C:OP1	34:BM:158:ARG:HG3	1.85	0.76
42:BU:104:VAL:CG1	42:BU:108:THR:HB	2.16	0.76
44:BW:28:ALA:HA	44:BW:66:ILE:HD11	1.68	0.76
29:CH:16:PRO:HG3	29:CH:128:ARG:NH1	2.00	0.76
30:CI:159:ARG:HD2	30:CI:162:ARG:HH21	1.46	0.76
32:CK:117:ARG:HD3	32:CK:137:ARG:NH1	2.01	0.76
38:CQ:132:TYR:O	50:CQ:306:HOH:O	2.04	0.76
1:D1:1654:G:H2'	1:D1:1654:G:N3	1.98	0.76
1:D1:3168:A:OP1	1:D1:3168:A:H8	1.67	0.76
7:DG:10:ILE:HG23	7:DG:13:LYS:HE2	1.67	0.76
9:DJ:162:HIS:CD2	9:DJ:164:LEU:H	2.04	0.76
17:DT:9:ASN:OD1	17:DT:12:GLN:HB2	1.85	0.76
42:CU:123:LYS:NZ	18:DU:144:SER:HB2	2.00	0.76
22:EA:30:TYR:HA	22:EA:77:PHE:HE1	1.51	0.76
24:EC:152:VAL:HG21	24:EC:255:PHE:CE1	2.21	0.76
43:EV:122:ASN:ND2	1:F1:1013:U:OP1	2.19	0.76
1:F1:3183:A:O2'	1:F1:3184:A:O5'	2.04	0.76
1:F1:564:A:H2'	1:F1:564:A:N3	2.00	0.76
1:F1:681:A:H3'	50:F1:3739:HOH:O	1.86	0.76
23:GB:303:ILE:HD12	23:GB:303:ILE:H	1.52	0.76
23:GB:332:ARG:CG	23:GB:332:ARG:HH11	1.98	0.76
36:GO:95:TRP:CH2	1:H1:880:U:H4'	2.21	0.76
1:H1:1047:G:H2'	1:H1:1048:U:C5'	2.16	0.76
1:H1:1183:C:H2'	1:H1:1184:U:H5''	1.67	0.76
1:H1:2574:U:H4'	1:H1:2575:G:OP1	1.85	0.76
1:H1:3020:G:O2'	1:H1:3021:A:H5''	1.87	0.76
1:A1:1064:C:H2'	1:A1:1065:U:H5'	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2703:G:OP2	1:A1:2705:U:H1'	1.86	0.75
1:A1:3176:A:H4'	1:A1:3177:G:H5'	1.66	0.75
1:A1:3185:G:C2	1:A1:3237:C:C2	2.74	0.75
1:A1:3232:A:OP1	5:AE:88:LYS:NZ	2.18	0.75
26:BE:7:GLU:HG2	26:BE:56:GLN:HG2	1.68	0.75
34:BM:209:ILE:O	34:BM:213:MET:HG2	1.87	0.75
20:C2:32:C:H2'	20:C2:33:C:C6	2.21	0.75
21:C3:48:G:OP2	34:CM:94:SER:HB3	1.85	0.75
46:CY:19:GLY:HA2	1:D1:1949:U:O2	1.86	0.75
1:D1:1256:G:H2'	1:D1:1257:G:C8	2.22	0.75
1:D1:1321:A:HO2'	1:D1:1322:G:P	2.09	0.75
1:D1:2256:G:H1'	1:D1:2257:A:H5'	1.66	0.75
1:D1:2625:A:H5'	1:D1:2626:A:H5'	1.67	0.75
34:EM:254:ILE:O	34:EM:258:PRO:HD3	1.86	0.75
1:F1:1862:C:H5'	1:F1:1863:A:O5'	1.87	0.75
1:F1:552:U:O2'	1:F1:553:C:H5'	1.85	0.75
6:FF:30:ILE:HG21	19:FX:163:PHE:CE2	2.21	0.75
9:FJ:112:ASP:H	9:FJ:156:ASN:HD21	1.32	0.75
1:H1:1321:A:HO2'	1:H1:1322:G:P	2.09	0.75
1:H1:453:A:N6	1:H1:524:G:H2'	2.00	0.75
5:HE:120:GLU:OE2	5:HE:138:GLN:HA	1.86	0.75
5:HE:47:PRO:O	5:HE:101:LYS:HE3	1.86	0.75
1:A1:1132:U:H2'	1:A1:1133:G:C8	2.21	0.75
1:A1:138:C:H2'	1:A1:139:A:H5'	1.68	0.75
1:A1:638:U:H2'	1:A1:639:U:H6	1.50	0.75
6:AF:106:PHE:HD2	6:AF:110:ARG:HE	1.31	0.75
22:BA:118:GLU:OE2	22:BA:164:ARG:HD2	1.86	0.75
24:BC:152:VAL:HG13	24:BC:157:TYR:CD2	2.20	0.75
24:BC:234:ASP:OD2	24:BC:254:ARG:NH2	2.13	0.75
25:BD:92:ARG:H	25:BD:95:ASN:ND2	1.83	0.75
1:A1:388:A:O2'	38:BQ:103:ASN:ND2	2.18	0.75
41:CT:58:ARG:NH2	1:D1:3325:G:C4	2.54	0.75
1:D1:2574:U:H4'	1:D1:2575:G:OP1	1.84	0.75
1:D1:591:G:H2'	1:D1:592:A:H8	1.50	0.75
19:DX:22:VAL:HG11	19:DX:40:GLN:HE21	1.50	0.75
21:E3:83:G:H1	21:E3:93:G:N2	1.84	0.75
24:EC:251:HIS:CD2	1:F1:1410:G:O2'	2.39	0.75
24:EC:126:ARG:HB3	24:EC:283:TYR:CE2	2.22	0.75
26:EE:7:GLU:HG2	26:EE:56:GLN:HG2	1.68	0.75
36:EO:109:TYR:HB3	36:EO:115:ILE:HG13	1.68	0.75
1:F1:2252:C:C4	1:F1:2253:U:C5	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2930:C:H3'	50:F1:4029:HOH:O	1.85	0.75
2:FA:14:LYS:HD3	3:FB:52:TYR:CD1	2.20	0.75
23:GB:121:ASN:HB2	1:H1:3275:A:N7	2.01	0.75
24:GC:167:GLU:H	24:GC:171:GLN:HE22	1.31	0.75
37:GP:14:LYS:HE3	1:H1:1020:G:OP1	1.85	0.75
33:GL:147:ARG:NH2	1:H1:111:C:OP1	2.19	0.75
1:H1:47:G:OP2	50:H1:3613:HOH:O	2.03	0.75
9:HJ:143:ALA:C	9:HJ:144:ASN:HD22	1.89	0.75
9:HJ:77:ASN:HB3	9:HJ:80:GLU:HG3	1.68	0.75
1:A1:2964:A:N1	50:A1:4194:HOH:O	2.18	0.75
6:AF:8:GLN:HE21	6:AF:11:ARG:HH11	1.34	0.75
20:B2:50:C:N4	50:B2:321:HOH:O	2.20	0.75
22:BA:186:GLN:HA	22:BA:186:GLN:OE1	1.87	0.75
29:CH:15:LYS:NZ	1:D1:2624:A:OP2	2.17	0.75
29:CH:43:VAL:HG11	29:CH:197:VAL:HG23	1.68	0.75
34:CM:142:PHE:CD1	1:D1:1107:A:C8	2.74	0.75
1:D1:223:C:O2'	1:D1:224:C:OP2	2.03	0.75
1:D1:2966:U:O2'	1:D1:2967:U:C5'	2.34	0.75
1:D1:3185:G:C2	1:D1:3237:C:C2	2.74	0.75
20:E2:3:A:C2	1:F1:3243:A:O4'	2.40	0.75
24:EC:19:THR:HG22	24:EC:21:THR:H	1.50	0.75
27:EF:25:LYS:N	1:F1:2552:A:N3	2.35	0.75
32:EK:117:ARG:HD3	32:EK:137:ARG:NH1	2.01	0.75
34:EM:209:ILE:O	34:EM:213:MET:HG2	1.86	0.75
43:EV:98:ARG:HD3	1:F1:1010:G:H2'	1.69	0.75
29:EH:194:GLY:HA3	1:F1:1036:G:O2'	1.87	0.75
1:F1:1057:U:H2'	1:F1:1058:C:C6	2.22	0.75
1:F1:138:C:H2'	1:F1:139:A:H5'	1.68	0.75
1:F1:1737:A:O2'	1:F1:1738:A:C8	2.39	0.75
1:F1:2344:U:H5'	1:F1:2344:U:H6	1.52	0.75
1:F1:3124:U:OP1	50:F1:4504:HOH:O	2.05	0.75
1:F1:527:A:O2'	14:FO:88:GLN:NE2	2.20	0.75
1:F1:88:U:H2'	1:F1:89:G:H5'	1.69	0.75
13:FN:76:ASN:HB3	13:FN:79:HIS:CD2	2.22	0.75
20:G2:12:A:H2'	20:G2:13:A:C8	2.20	0.75
20:G2:74:A:H5'	40:GS:50:ARG:CG	2.16	0.75
36:GO:4:LEU:HD22	36:GO:7:GLN:HG3	1.66	0.75
43:GV:12:LYS:CE	1:H1:1376:A:H3'	2.16	0.75
1:H1:138:C:H2'	1:H1:139:A:H5'	1.68	0.75
1:H1:1461:A:H5''	1:H1:1462:U:H5''	1.66	0.75
1:H1:1598:C:H2'	1:H1:1599:G:O4'	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:444:A:N1	1:H1:533:G:N2	2.32	0.75
1:H1:619:G:H4'	1:H1:620:A:C2	2.22	0.75
1:A1:1343:G:H4'	1:A1:1344:A:OP2	1.86	0.75
1:A1:1843:U:H2'	1:A1:1844:U:C6	2.21	0.75
1:A1:2129:U:OP2	50:A1:4101:HOH:O	2.03	0.75
1:A1:936:C:OP1	22:BA:16:VAL:HG23	1.86	0.75
30:BI:6:VAL:HG23	30:BI:30:GLN:NE2	2.01	0.75
43:BV:80:VAL:HG22	43:BV:188:VAL:CG2	2.16	0.75
22:CA:33:TYR:N	22:CA:164:ARG:HH22	1.82	0.75
23:CB:36:ASP:OD1	23:CB:38:SER:N	2.16	0.75
34:CM:3:PHE:HZ	1:D1:1041:C:C2	2.04	0.75
1:D1:100:A:O2'	18:DU:60:THR:OG1	2.01	0.75
1:D1:1598:C:H2'	1:D1:1599:G:O4'	1.86	0.75
1:D1:3158:G:H3'	1:D1:3159:A:H5'	1.69	0.75
1:D1:526:U:O2'	1:D1:527:A:C8	2.39	0.75
24:CC:376:TRP:HB3	1:D1:564:A:O2'	1.87	0.75
1:D1:941:G:H5'	1:D1:942:A:OP1	1.87	0.75
2:DA:14:LYS:HD3	3:DB:52:TYR:CD1	2.21	0.75
13:DN:36:ARG:NH1	13:DN:74:TYR:CG	2.54	0.75
23:EB:54:THR:HG22	23:EB:55:HIS:N	2.02	0.75
33:EL:19:MET:HE2	33:EL:22:ILE:HD12	1.68	0.75
42:EU:89:THR:OG1	42:EU:92:ILE:HG12	1.87	0.75
46:EY:49:ARG:HH21	46:EY:52:VAL:HA	1.50	0.75
1:F1:1366:C:H2'	1:F1:1367:A:C8	2.22	0.75
1:F1:2252:C:O5'	1:F1:2252:C:C6	2.38	0.75
1:F1:363:G:C5'	1:F1:363:G:H8	1.98	0.75
5:FE:102:VAL:CG2	5:FE:170:LEU:HD21	2.17	0.75
13:FN:4:PHE:CB	13:FN:9:ARG:HH21	1.99	0.75
24:GC:163:VAL:O	24:GC:166:TYR:HD2	1.70	0.75
24:GC:298:ILE:CD1	35:GN:125:ASP:HB2	2.15	0.75
35:GN:52:ARG:HB2	35:GN:84:THR:CG2	2.03	0.75
1:H1:3230:G:O2'	1:H1:3231:U:P	2.44	0.75
1:H1:439:A:P	1:H1:439:A:H8	2.09	0.75
35:GN:22:SER:HB3	1:H1:697:A:OP1	1.85	0.75
20:G2:111:A:C6	2:HA:20:ARG:NH1	2.53	0.75
1:H1:1710:U:OP1	12:HM:44:LYS:NZ	2.20	0.75
17:HT:47:ILE:O	17:HT:55:LYS:NZ	2.20	0.75
1:A1:1002:A:C2	1:A1:1004:U:H5''	2.22	0.75
1:A1:1183:C:C2'	1:A1:1184:U:H5''	2.15	0.75
1:A1:2390:G:C5	50:A1:4062:HOH:O	2.33	0.75
1:A1:2548:G:O2'	1:A1:2549:U:OP1	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2966:U:O2'	1:A1:2967:U:C5'	2.35	0.75
1:A1:358:C:H4'	1:A1:842:A:N6	2.01	0.75
1:A1:564:A:O2'	24:BC:373:SER:HA	1.84	0.75
1:A1:789:U:H4'	1:A1:790:C:OP1	1.85	0.75
5:AE:63:VAL:HG11	5:AE:76:VAL:CG1	2.17	0.75
13:AN:54:THR:HG22	13:AN:56:ARG:H	1.52	0.75
14:AO:6:TRP:HZ3	14:AO:40:LEU:HD12	1.51	0.75
21:B3:13:A:P	21:B3:109:U:O2'	2.45	0.75
21:B3:10:C:C2	34:BM:20:TYR:HD1	2.04	0.75
24:BC:126:ARG:HB3	24:BC:283:TYR:CE2	2.21	0.75
26:CE:10:VAL:HB	26:CE:53:VAL:HB	1.67	0.75
33:CL:182:LYS:HG2	33:CL:183:SER:N	2.00	0.75
33:CL:55:ASN:HD22	1:D1:148:G:H5'	1.51	0.75
34:CM:32:ALA:HB2	50:CM:405:HOH:O	1.85	0.75
42:CU:104:VAL:CG1	42:CU:108:THR:HB	2.16	0.75
42:CU:89:THR:OG1	42:CU:92:ILE:HG12	1.87	0.75
44:CW:14:ASN:OD1	44:CW:17:LYS:HG3	1.86	0.75
46:CY:49:ARG:HH21	46:CY:52:VAL:HA	1.52	0.75
34:CM:142:PHE:CE1	1:D1:1107:A:N7	2.55	0.75
24:CC:229:ASN:HD21	1:D1:211:A:H3'	1.52	0.75
1:D1:421:G:OP1	50:D1:3946:HOH:O	2.03	0.75
1:D1:567:C:N4	1:D1:603:A:C6	2.54	0.75
1:D1:610:A:H2'	1:D1:611:A:H8	1.48	0.75
5:DE:120:GLU:OE2	5:DE:138:GLN:HA	1.86	0.75
1:F1:1221:G:H2'	1:F1:1222:A:C8	2.21	0.75
1:F1:1598:C:H2'	1:F1:1599:G:O4'	1.86	0.75
1:F1:3230:G:O2'	1:F1:3231:U:P	2.44	0.75
9:DJ:123:ARG:HH22	9:FJ:123:ARG:HG2	1.49	0.75
9:FJ:143:ALA:C	9:FJ:144:ASN:HD22	1.89	0.75
11:FL:5:ILE:HG22	11:FL:6:THR:H	1.49	0.75
11:FL:6:THR:HG22	11:FL:7:TYR:O	1.86	0.75
18:FU:133:LYS:C	18:FU:135:LEU:H	1.88	0.75
25:GD:108:GLU:HA	25:GD:122:ILE:HG23	1.68	0.75
40:GS:80:HIS:ND1	40:GS:95:GLN:HB3	2.01	0.75
42:GU:104:VAL:CG1	42:GU:108:THR:HB	2.16	0.75
1:H1:1773:G:OP1	15:HP:43:LYS:NZ	2.19	0.75
1:H1:2545:A:H4'	1:H1:2546:A:OP2	1.87	0.75
1:H1:1518:G:P	2:HA:14:LYS:HZ1	2.09	0.75
31:GJ:127:ALA:HB1	9:HJ:58:ILE:HD13	1.69	0.75
13:HN:4:PHE:CB	13:HN:9:ARG:HH21	1.99	0.75
1:A1:1862:C:H5''	1:A1:1863:A:O5'	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:508:A:O2'	1:A1:509:A:C8	2.40	0.75
20:B2:32:C:H2'	20:B2:33:C:C6	2.22	0.75
21:B3:83:G:P	50:B3:306:HOH:O	2.44	0.75
32:BK:76:ASN:HB2	32:BK:79:LYS:HE2	1.68	0.75
30:CI:196:PHE:HE2	6:DF:110:ARG:HD2	1.48	0.75
33:CL:55:ASN:HD22	1:D1:148:G:C5'	2.00	0.75
1:D1:1185:A:HO2'	1:D1:1357:A:H2	1.34	0.75
1:D1:304:U:O2'	1:D1:305:A:C8	2.39	0.75
1:D1:638:U:H2'	1:D1:639:U:H6	1.50	0.75
5:DE:69:LEU:HD21	5:DE:114:ASP:CB	2.16	0.75
7:DG:62:LEU:HD11	13:DN:84:ARG:HB2	1.68	0.75
19:DX:113:LEU:HD21	19:DX:140:THR:HG21	1.67	0.75
26:EE:10:VAL:HB	26:EE:53:VAL:HB	1.67	0.75
21:E3:44:C:O2'	34:EM:152:ARG:HD3	1.86	0.75
43:EV:133:PHE:O	43:EV:226:ASN:HA	1.87	0.75
1:F1:1343:G:H4'	1:F1:1344:A:OP2	1.87	0.75
7:FG:62:LEU:HD11	13:FN:84:ARG:HB2	1.68	0.75
17:FT:63:VAL:O	17:FT:66:GLU:HG2	1.87	0.75
42:EU:124:ALA:HB2	18:FU:153:SER:OG	1.87	0.75
20:G2:84:C:OP1	42:GU:3:LYS:HG2	1.86	0.75
27:GF:29:PHE:CD2	27:GF:37:PRO:HD3	2.21	0.75
1:H1:2569:A:O2'	1:H1:2570:U:P	2.43	0.75
1:H1:88:U:O4'	1:H1:280:G:O2'	2.05	0.75
1:H1:2899:C:H5''	50:H1:4147:HOH:O	1.86	0.75
1:H1:304:U:HO2'	1:H1:305:A:P	2.09	0.75
1:H1:304:U:O2'	1:H1:305:A:C8	2.39	0.75
18:HU:60:THR:HB	18:HU:63:TYR:HD2	1.50	0.75
1:A1:1307:C:H2'	1:A1:1308:U:C6	2.22	0.75
1:A1:304:U:O2'	1:A1:305:A:P	2.44	0.75
11:AL:37:LYS:HB2	11:AL:60:ARG:NH2	2.02	0.75
34:BM:119:TYR:HD1	34:BM:132:VAL:HG11	1.51	0.75
24:CC:157:TYR:CD1	24:CC:159:PHE:CE1	2.74	0.75
27:CF:176:LYS:HB2	27:CF:187:THR:CG2	2.13	0.75
47:CO:163:UNK:O	47:CO:166:UNK:HG3	1.87	0.75
42:CU:47:ARG:O	42:CU:51:VAL:HG23	1.85	0.75
22:CA:70:TYR:HD2	1:D1:1674:C:H4'	1.51	0.75
1:D1:3020:G:O2'	1:D1:3021:A:H5''	1.86	0.75
1:D1:3230:G:O2'	1:D1:3231:U:P	2.44	0.75
14:DO:13:ASN:OD1	14:DO:15:PHE:N	2.17	0.75
18:DU:72:GLY:O	18:DU:99:ARG:NH1	2.20	0.75
25:ED:92:ARG:H	25:ED:95:ASN:ND2	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:59:ARG:HD3	34:EM:61:ILE:HG12	1.67	0.75
1:F1:1109:A:H4'	1:F1:1110:U:O5'	1.87	0.75
1:F1:1130:A:H5'	1:F1:1131:G:OP2	1.87	0.75
27:EF:128:GLY:HA2	1:F1:146:U:HO2'	1.51	0.75
1:F1:3110:U:H4'	1:F1:3111:A:OP1	1.86	0.75
7:FG:10:ILE:HG23	7:FG:13:LYS:HE2	1.67	0.75
20:G2:18:G:H1'	1:H1:406:A:H61	1.51	0.75
22:GA:205:MET:HE2	22:GA:209:ASP:HB3	1.68	0.75
26:GE:124:ILE:CD1	26:GE:159:ILE:HA	2.16	0.75
36:GO:109:TYR:HB3	36:GO:115:ILE:HG13	1.67	0.75
1:H1:339:C:O2'	1:H1:340:G:H5'	1.86	0.75
1:H1:363:G:H8	1:H1:363:G:C5'	1.99	0.75
9:HJ:162:HIS:CD2	9:HJ:164:LEU:H	2.04	0.75
13:HN:14:LEU:O	13:HN:19:ALA:HB1	1.87	0.75
16:HQ:71:LYS:HE2	16:HQ:75:LYS:HE2	1.66	0.75
1:A1:388:A:H1'	38:BQ:103:ASN:HD21	1.52	0.75
1:A1:443:G:OP1	5:AE:16:SER:OG	2.04	0.75
1:A1:637:U:H2'	1:A1:638:U:H6	1.51	0.75
1:A1:654:U:H2'	1:A1:655:A:H8	1.51	0.75
21:B3:105:C:H5'	21:B3:105:C:H6	1.52	0.75
23:BB:210:ASN:ND2	23:BB:352:ILE:H	1.84	0.75
23:BB:54:THR:HG22	23:BB:55:HIS:N	2.02	0.75
30:CI:64:ASN:ND2	30:CI:66:ARG:HG2	2.02	0.75
37:CP:116:LYS:NZ	37:CP:128:THR:HB	2.02	0.75
38:CQ:29:LYS:HD2	38:CQ:65:PHE:CD2	2.21	0.75
44:CW:28:ALA:HA	44:CW:66:ILE:HD11	1.67	0.75
1:D1:1478:A:H5'	1:D1:1479:A:OP1	1.87	0.75
1:D1:2625:A:H5'	1:D1:2626:A:C5'	2.17	0.75
1:D1:3222:U:O2'	1:D1:3223:G:H5'	1.86	0.75
33:EL:202:ARG:HH12	18:FU:27:ALA:HB2	1.52	0.75
1:F1:1004:U:H5'	1:F1:1004:U:C6	2.18	0.75
34:EM:3:PHE:HE2	1:F1:1041:C:N3	1.84	0.75
1:F1:2625:A:H5'	1:F1:2626:A:H5'	1.69	0.75
4:FC:70:PHE:CE2	4:FC:81:ILE:HD12	2.22	0.75
24:GC:65:MET:HE3	24:GC:105:ARG:HH11	1.50	0.75
36:GO:109:TYR:HB3	36:GO:115:ILE:CG1	2.17	0.75
43:GV:170:LEU:HB3	43:GV:175:ILE:HD12	1.69	0.75
1:H1:1221:G:H2'	1:H1:1222:A:C8	2.22	0.75
1:H1:1700:A:H2'	1:H1:1701:A:H8	1.52	0.75
1:H1:418:G:H3'	1:H1:418:G:C8	2.21	0.75
20:G2:44:A:H5'	2:HA:68:MET:HG3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HH:58:TYR:CD1	8:HH:104:LEU:HD21	2.19	0.75
1:A1:1210:C:O2'	19:AX:13:THR:HG21	1.87	0.75
1:A1:961:A:H5''	32:BK:27:LYS:HB2	1.69	0.75
16:AQ:2:ALA:HB2	18:AU:184:GLU:OE2	1.87	0.75
16:AQ:7:VAL:HG11	18:AU:185:LYS:HG3	1.69	0.75
20:B2:12:A:H2'	20:B2:13:A:C8	2.22	0.75
22:BA:33:TYR:N	22:BA:164:ARG:HH22	1.84	0.75
1:A1:3162:A:N6	30:BI:113:ARG:HH11	1.84	0.75
34:BM:254:ILE:O	34:BM:258:PRO:HD3	1.86	0.75
42:BU:104:VAL:HG13	42:BU:108:THR:HB	1.69	0.75
43:BV:170:LEU:HB3	43:BV:175:ILE:HD12	1.69	0.75
33:CL:80:VAL:HG13	33:CL:87:VAL:HG13	1.68	0.75
46:CY:7:LYS:O	46:CY:27:LYS:NZ	2.20	0.75
1:D1:1566:U:H2'	1:D1:1567:A:H8	1.51	0.75
1:D1:1655:A:N3	1:D1:1655:A:H2'	1.99	0.75
1:D1:619:G:C4'	1:D1:620:A:H2	2.00	0.75
1:D1:735:A:OP1	50:D1:3800:HOH:O	2.05	0.75
9:DJ:143:ALA:C	9:DJ:144:ASN:HD22	1.89	0.75
23:EB:277:ASN:HD21	23:EB:343:GLN:HE21	1.34	0.75
24:EC:327:ASN:HB3	24:EC:331:PHE:CE2	2.21	0.75
27:EF:29:PHE:CD2	27:EF:37:PRO:HD3	2.20	0.75
28:EG:22:UNK:CG	28:EG:92:UNK:HB1	2.15	0.75
1:F1:1537:U:H5'	1:F1:1538:U:C5	2.21	0.75
1:F1:508:A:O2'	1:F1:509:A:C8	2.40	0.75
2:FA:17:THR:HG22	2:FA:18:LEU:N	2.02	0.75
4:FC:70:PHE:HE2	4:FC:81:ILE:HD12	1.49	0.75
8:FH:58:TYR:CD1	8:FH:104:LEU:HD21	2.20	0.75
1:F1:511:U:H5''	14:FO:70:VAL:HG21	1.69	0.75
35:GN:52:ARG:HH12	35:GN:141:ARG:NE	1.84	0.75
35:GN:147:GLU:O	35:GN:150:ARG:HG2	1.87	0.75
1:H1:2648:U:H4'	1:H1:2740:G:O2'	1.87	0.75
1:H1:546:A:H2'	1:H1:547:U:C6	2.22	0.75
1:H1:933:G:H4'	1:H1:934:G:H5''	1.69	0.75
7:HG:27:TYR:CD2	7:HG:52:ARG:HD3	2.22	0.75
35:GN:25:VAL:HG13	14:HO:7:GLU:HB3	1.67	0.75
1:A1:439:A:H5''	5:AE:126:HIS:CG	2.22	0.74
5:AE:120:GLU:OE2	5:AE:138:GLN:HA	1.85	0.74
13:AN:24:VAL:HG23	13:AN:138:PHE:HE1	1.52	0.74
13:AN:4:PHE:HB2	13:AN:9:ARG:HH21	1.51	0.74
26:BE:144:LEU:HD12	26:BE:156:CYS:SG	2.26	0.74
36:BO:149:LYS:O	36:BO:163:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:73:TYR:CD1	40:BS:76:LYS:HB2	2.22	0.74
43:BV:36:GLN:O	43:BV:40:GLU:HG2	1.86	0.74
21:C3:63:A:H2'	29:CH:202:GLU:O	1.87	0.74
30:CI:132:ARG:HH12	1:D1:1216:C:H2'	1.52	0.74
33:CL:65:ARG:HB2	33:CL:127:TYR:HD2	1.52	0.74
38:CQ:133:ARG:HD3	50:CQ:306:HOH:O	1.86	0.74
46:CY:64:ILE:CD1	46:CY:71:LEU:HD11	2.15	0.74
1:D1:1183:C:C3'	1:D1:1184:U:H5''	2.16	0.74
1:D1:2394:A:OP2	50:D1:4360:HOH:O	2.04	0.74
1:D1:789:U:H4'	1:D1:790:C:OP1	1.86	0.74
1:D1:2705:U:O2'	4:DC:79:ARG:NH2	2.20	0.74
13:DN:4:PHE:HB2	13:DN:9:ARG:HH21	1.51	0.74
13:DN:54:THR:HG22	13:DN:56:ARG:H	1.52	0.74
24:EC:152:VAL:HG13	24:EC:157:TYR:CD2	2.22	0.74
24:EC:259:THR:HG22	24:EC:260:GLU:N	2.02	0.74
26:EE:144:LEU:HD12	26:EE:156:CYS:SG	2.27	0.74
1:F1:1752:G:H2'	7:FG:85:HIS:CD2	2.22	0.74
1:F1:2934:A:H5''	1:F1:2935:G:O5'	1.86	0.74
1:F1:439:A:H8	1:F1:439:A:P	2.10	0.74
1:F1:775:C:H2'	1:F1:775:C:O2	1.87	0.74
24:GC:214:VAL:HG21	24:GC:227:LEU:CD1	2.17	0.74
33:GL:65:ARG:HB2	33:GL:127:TYR:HD2	1.51	0.74
35:GN:82:VAL:CG2	35:GN:127:LEU:HD11	2.16	0.74
38:GQ:38:ILE:HD11	38:GQ:93:ILE:HG21	1.69	0.74
8:HH:11:PRO:HG2	8:HH:12:THR:H	1.51	0.74
18:HU:72:GLY:O	18:HU:99:ARG:NH1	2.20	0.74
1:A1:2433:A:H2'	1:A1:2434:A:C8	2.22	0.74
1:A1:2595:G:C8	50:A1:4016:HOH:O	2.39	0.74
1:A1:2685:A:H2'	1:A1:2686:A:C8	2.21	0.74
1:A1:2766:A:C2'	1:A1:2767:A:H5'	2.17	0.74
1:A1:962:G:H1'	50:A1:3775:HOH:O	1.87	0.74
8:AH:58:TYR:CD1	8:AH:104:LEU:HD21	2.19	0.74
32:BK:76:ASN:CG	32:BK:115:LYS:HB2	2.07	0.74
36:BO:169:SER:HB3	1:H1:2886:G:O2'	1.86	0.74
21:C3:3:U:H2'	21:C3:4:G:C8	2.22	0.74
23:CB:26:ARG:NH1	23:CB:176:ILE:O	2.17	0.74
29:CH:33:ILE:HB	29:CH:69:ARG:NH2	2.02	0.74
1:D1:1843:U:H2'	1:D1:1844:U:C6	2.22	0.74
1:D1:19:A:H4'	1:D1:20:G:OP2	1.86	0.74
23:CB:265:ALA:O	1:D1:2977:U:O2'	2.04	0.74
1:D1:3176:A:H4'	1:D1:3177:G:H5'	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:974:C:O2'	1:D1:996:A:OP1	2.05	0.74
9:AJ:86:ASN:OD1	9:DJ:82:ARG:HD3	1.86	0.74
19:DX:93:LEU:HD21	19:DX:120:LEU:HD21	1.67	0.74
20:E2:33:C:C2'	20:E2:34:G:H5'	2.16	0.74
31:EJ:46:ILE:CD1	31:EJ:54:PRO:HB3	2.17	0.74
37:EP:13:LYS:O	50:EP:204:HOH:O	2.05	0.74
38:EQ:38:ILE:HD11	38:EQ:93:ILE:HG21	1.69	0.74
43:EV:93:HIS:ND1	43:EV:94:PRO:HD2	2.02	0.74
1:F1:1027:G:H4'	1:F1:1028:A:OP2	1.85	0.74
1:F1:1051:C:H2'	1:F1:1052:A:H8	1.49	0.74
1:F1:3110:U:OP2	10:FK:111:ARG:NH1	2.20	0.74
6:FF:8:GLN:HE21	6:FF:11:ARG:HH11	1.32	0.74
13:FN:25:ILE:HG23	13:FN:41:VAL:HG13	1.69	0.74
14:FO:6:TRP:HZ3	14:FO:40:LEU:HD12	1.50	0.74
15:FP:48:LYS:HG3	15:FP:49:TYR:CE2	2.22	0.74
23:GB:267:GLN:NE2	1:H1:3266:G:OP1	2.20	0.74
26:GE:52:ASN:OD1	26:GE:53:VAL:N	2.20	0.74
45:GX:6:VAL:HG12	45:GX:7:ALA:N	2.02	0.74
1:H1:161:U:H2'	1:H1:162:C:H5''	1.69	0.74
1:H1:2251:A:H2'	1:H1:2253:U:OP2	1.86	0.74
1:H1:2393:A:OP2	50:H1:4029:HOH:O	2.05	0.74
44:GW:16:HIS:HD2	1:H1:3330:U:OP1	1.70	0.74
1:H1:2219:A:OP1	16:HQ:78:ARG:NH2	2.20	0.74
1:A1:1379:G:OP2	14:AO:102:GLY:N	2.19	0.74
1:A1:1404:G:OP1	50:A1:4325:HOH:O	2.06	0.74
1:A1:3226:A:H5''	5:AE:80:TYR:OH	1.87	0.74
1:A1:83:A:H4'	1:A1:84:G:OP1	1.85	0.74
7:AG:95:ALA:HB3	7:AG:101:LEU:CD1	2.16	0.74
20:B2:33:C:C2'	20:B2:34:G:H5'	2.17	0.74
18:AU:164:LYS:HB3	32:BK:99:VAL:O	1.87	0.74
20:C2:3:A:H4'	20:C2:4:A:OP2	1.86	0.74
25:CD:32:LYS:O	25:CD:36:VAL:HG23	1.87	0.74
35:CN:5:LEU:CD2	43:CV:106:ARG:HD2	2.18	0.74
1:D1:821:U:H5'	1:D1:821:U:H6	1.53	0.74
9:DJ:109:VAL:HG22	9:DJ:149:GLY:HA2	1.69	0.74
25:ED:50:ALA:O	25:ED:62:ASN:N	2.19	0.74
30:EI:132:ARG:HH12	1:F1:1216:C:H2'	1.50	0.74
30:EI:159:ARG:HD2	30:EI:162:ARG:HH21	1.50	0.74
21:E3:11:A:C8	34:EM:18:THR:HB	2.22	0.74
46:EY:73:THR:HG22	46:EY:75:PRO:HD2	1.68	0.74
1:F1:1654:G:C4'	1:F1:1655:A:OP2	2.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2352:A:H2'	1:F1:2353:C:H6	1.51	0.74
34:EM:176:SER:OG	1:F1:2735:A:O3'	2.04	0.74
1:F1:304:U:O2'	1:F1:305:A:P	2.46	0.74
5:FE:83:ASN:ND2	5:FE:174:LEU:O	2.20	0.74
32:EK:106:LYS:HD3	18:FU:160:SER:HB2	1.70	0.74
24:GC:259:THR:HG22	24:GC:260:GLU:N	2.03	0.74
32:GK:76:ASN:CG	32:GK:115:LYS:HB2	2.08	0.74
37:GP:57:TYR:HA	37:GP:60:ARG:HG3	1.69	0.74
37:GP:8:ARG:O	37:GP:11:THR:OG1	2.03	0.74
28:GG:60:UNK:HG1	1:H1:1249:G:H8	1.52	0.74
1:H1:1513:A:OP2	50:H1:4099:HOH:O	2.04	0.74
1:H1:2209:A:OP2	50:H1:4253:HOH:O	2.03	0.74
1:A1:2977:U:O2'	23:BB:265:ALA:O	2.05	0.74
1:A1:3008:U:O4	50:A1:4596:HOH:O	2.03	0.74
1:A1:435:A:N3	1:A1:435:A:H2'	2.02	0.74
8:AH:57:VAL:HG22	8:AH:74:TRP:CZ3	2.21	0.74
18:AU:60:THR:HB	18:AU:63:TYR:HD2	1.51	0.74
19:AX:16:MET:CE	19:AX:121:ILE:HD12	2.16	0.74
1:A1:3275:A:N6	23:BB:121:ASN:HB3	2.03	0.74
1:A1:2574:U:N3	27:BF:62:GLN:OE1	2.20	0.74
1:A1:1950:C:H2'	46:BY:7:LYS:HE3	1.69	0.74
24:CC:242:ASN:ND2	1:D1:718:A:H4'	2.01	0.74
1:D1:1132:U:H2'	1:D1:1133:G:C8	2.23	0.74
1:D1:1360:C:C2'	1:D1:1361:U:H5''	2.16	0.74
1:D1:2765:C:H2'	1:D1:2765:C:O2	1.87	0.74
1:D1:508:A:O2'	1:D1:509:A:C8	2.41	0.74
2:DA:28:HIS:CD2	2:DA:31:LYS:HG3	2.22	0.74
4:DC:51:GLN:HG3	4:DC:52:THR:N	2.02	0.74
22:EA:35:PHE:CD1	1:F1:2520:G:H2'	2.22	0.74
44:EW:14:ASN:OD1	44:EW:17:LYS:HG3	1.87	0.74
1:F1:1413:G:O2'	1:F1:1414:C:H5'	1.87	0.74
1:F1:1562:G:O6	50:F1:3928:HOH:O	2.06	0.74
1:F1:2669:A:O3'	1:F1:2670:U:H6	1.71	0.74
1:F1:3332:A:O2'	1:F1:3333:G:OP1	2.05	0.74
1:F1:591:G:H2'	1:F1:592:A:H8	1.52	0.74
8:FH:58:TYR:HA	8:FH:104:LEU:HD22	1.69	0.74
19:FX:180:VAL:HG13	19:FX:181:TYR:CD1	2.23	0.74
20:G2:100:C:P	39:GR:56:ARG:NH2	2.58	0.74
24:GC:19:THR:HG22	24:GC:21:THR:H	1.53	0.74
24:GC:229:ASN:HD21	1:H1:211:A:C3'	2.00	0.74
26:GE:91:LYS:HG2	26:GE:180:SER:HB3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:GJ:83:ILE:HG23	31:GJ:122:VAL:HG13	1.69	0.74
33:GL:27:THR:HG21	33:GL:124:ASP:HB3	1.69	0.74
1:H1:1245:U:H6	1:H1:1245:U:H5'	1.51	0.74
1:H1:2295:G:OP2	50:H1:4207:HOH:O	2.05	0.74
24:GC:77:ALA:N	1:H1:2397:A:OP2	2.20	0.74
37:GP:60:ARG:NH2	1:H1:2627:C:O2	2.21	0.74
1:H1:283:A:OP1	4:HC:39:ARG:NH1	2.20	0.74
20:G2:111:A:N6	2:HA:20:ARG:HH12	1.85	0.74
5:HE:135:THR:HG22	5:HE:136:GLU:H	1.51	0.74
1:A1:1183:C:H2'	1:A1:1184:U:H5''	1.68	0.74
1:A1:1321:A:HO2'	1:A1:1322:G:P	2.10	0.74
1:A1:1222:A:C2	1:A1:1336:U:N3	2.55	0.74
1:A1:3037:A:OP2	23:BB:220:LYS:NZ	2.14	0.74
1:A1:428:A:H2'	1:A1:429:A:C8	2.21	0.74
4:AC:51:GLN:HG3	4:AC:52:THR:N	2.01	0.74
25:BD:101:ASN:ND2	25:BD:130:VAL:HG13	2.03	0.74
33:BL:65:ARG:HB2	33:BL:127:TYR:HD2	1.51	0.74
25:CD:92:ARG:H	25:CD:95:ASN:ND2	1.84	0.74
31:CJ:46:ILE:CD1	31:CJ:54:PRO:HB3	2.18	0.74
43:CV:36:GLN:O	43:CV:40:GLU:HG2	1.87	0.74
1:D1:1012:U:OP2	50:D1:4329:HOH:O	2.05	0.74
43:CV:122:ASN:ND2	1:D1:1013:U:OP1	2.21	0.74
1:D1:1537:U:H5'	1:D1:1538:U:C5	2.23	0.74
1:D1:3266:G:H2'	1:D1:3267:A:H5''	1.67	0.74
1:D1:904:U:O2'	1:D1:905:G:OP2	2.05	0.74
13:DN:41:VAL:HG23	13:DN:77:LEU:HD23	1.70	0.74
32:EK:76:ASN:CG	32:EK:115:LYS:HB2	2.08	0.74
33:EL:13:LYS:NZ	16:FQ:46:ARG:HA	2.03	0.74
21:E3:7:G:O3'	34:EM:33:ARG:NH1	2.19	0.74
45:EX:98:ILE:H	45:EX:123:ASN:HD21	1.34	0.74
1:F1:2242:G:C2'	1:F1:2243:C:H5'	2.17	0.74
1:F1:2743:G:C3'	1:F1:2744:C:C5'	2.63	0.74
1:F1:637:U:H2'	1:F1:638:U:H6	1.52	0.74
24:GC:312:GLY:O	1:H1:1373:G:H4'	1.88	0.74
34:GM:209:ILE:O	34:GM:213:MET:HG2	1.86	0.74
35:GN:158:GLN:NE2	50:GN:302:HOH:O	2.20	0.74
38:GQ:71:ARG:HD2	1:H1:3268:C:O2	1.86	0.74
1:H1:1343:G:H4'	1:H1:1344:A:OP2	1.87	0.74
1:H1:2393:A:OP2	50:H1:4025:HOH:O	2.06	0.74
1:H1:2743:G:C3'	1:H1:2744:C:C5'	2.63	0.74
1:H1:442:G:C2	1:H1:536:A:C2	2.75	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:450:C:H2'	1:H1:451:A:C8	2.21	0.74
1:H1:455:G:OP2	14:HO:92:LYS:NZ	2.17	0.74
13:HN:87:VAL:CG1	13:HN:90:LEU:HB2	2.17	0.74
1:A1:1109:A:H4'	1:A1:1110:U:O5'	1.87	0.74
1:A1:2126:G:N3	50:A1:4102:HOH:O	2.19	0.74
1:A1:2405:U:OP2	50:A1:3775:HOH:O	2.05	0.74
1:A1:3153:U:H5''	1:A1:3154:A:OP2	1.88	0.74
1:A1:638:U:H2'	1:A1:639:U:C6	2.23	0.74
5:AE:69:LEU:HD21	5:AE:114:ASP:CB	2.16	0.74
13:AN:10:VAL:O	13:AN:83:THR:HB	1.88	0.74
20:B2:105:A:C8	20:B2:106:A:C8	2.75	0.74
22:BA:62:VAL:HG21	22:BA:77:PHE:CD2	2.18	0.74
36:BO:4:LEU:HD22	36:BO:7:GLN:HG3	1.68	0.74
38:BQ:32:TYR:HD2	38:BQ:33:GLU:HG2	1.53	0.74
42:BU:89:THR:OG1	42:BU:92:ILE:HG12	1.86	0.74
30:CI:61:MET:HE1	30:CI:68:GLY:HA3	1.69	0.74
34:CM:156:GLY:HA2	34:CM:181:PRO:HG3	1.70	0.74
35:CN:155:ALA:HB3	35:CN:158:GLN:CD	2.07	0.74
1:D1:1430:G:N7	50:D1:3987:HOH:O	2.19	0.74
1:D1:2211:G:O6	50:D1:4688:HOH:O	2.01	0.74
1:D1:497:G:C2'	1:D1:498:A:H5'	2.17	0.74
1:D1:654:U:H2'	1:D1:655:A:C8	2.22	0.74
11:DL:67:ILE:HD12	11:DL:71:ALA:HB3	1.69	0.74
27:EF:43:ARG:NH1	1:F1:2521:A:C2	2.55	0.74
43:EV:80:VAL:HG22	43:EV:188:VAL:CG2	2.18	0.74
34:EM:5:LYS:HA	1:F1:1064:C:H4'	1.68	0.74
1:F1:1222:A:C2	1:F1:1336:U:N3	2.56	0.74
1:F1:3168:A:H8	1:F1:3168:A:OP1	1.69	0.74
1:F1:3261:U:O4	50:F1:4516:HOH:O	2.06	0.74
1:F1:871:A:H2'	1:F1:872:A:C8	2.23	0.74
20:E2:44:A:H5'	2:FA:68:MET:HG3	1.70	0.74
21:G3:11:A:O2'	21:G3:12:U:H3'	1.88	0.74
21:G3:48:G:OP2	34:GM:94:SER:HB3	1.88	0.74
20:G2:86:G:N1	40:GS:111:ASP:OD2	2.20	0.74
46:GY:73:THR:HG22	46:GY:75:PRO:HD2	1.67	0.74
28:GG:8:UNK:HG3	1:H1:1248:G:H22	0.62	0.74
2:HA:21:ARG:CD	2:HA:44:MET:HE1	2.17	0.74
8:HH:57:VAL:HG22	8:HH:74:TRP:CZ3	2.23	0.74
11:HL:67:ILE:HD12	11:HL:71:ALA:HB3	1.69	0.74
33:GL:15:GLN:OE1	16:HQ:52:ALA:HB1	1.88	0.74
17:HT:9:ASN:OD1	17:HT:12:GLN:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1430:G:H5'	1:A1:1431:U:OP2	1.87	0.74
1:A1:363:G:H8	1:A1:363:G:C5'	2.01	0.74
1:A1:749:U:O4	50:A1:3983:HOH:O	2.05	0.74
9:AJ:140:THR:HG22	9:AJ:141:THR:N	2.02	0.74
21:B3:62:U:H4'	21:B3:63:A:OP1	1.87	0.74
1:A1:200:C:OP2	40:BS:59:ARG:NH1	2.21	0.74
20:C2:33:C:C2'	20:C2:34:G:H5'	2.17	0.74
29:CH:140:VAL:HG11	29:CH:144:HIS:HB2	1.68	0.74
21:C3:64:A:O2'	29:CH:205:PRO:HG3	1.88	0.74
33:CL:187:SER:OG	1:D1:27:C:OP1	2.05	0.74
1:D1:1165:U:O2	50:D1:3796:HOH:O	2.06	0.74
1:D1:1495:C:H4'	1:D1:1496:U:OP2	1.87	0.74
1:D1:861:A:N6	1:D1:882:G:H1'	2.03	0.74
1:D1:918:C:H5''	1:D1:919:A:OP1	1.88	0.74
22:CA:16:VAL:HG23	1:D1:936:C:OP1	1.87	0.74
23:EB:24:HIS:CE1	23:EB:28:ARG:HD2	2.22	0.74
38:EQ:103:ASN:ND2	1:F1:388:A:O2'	2.21	0.74
43:EV:36:GLN:O	43:EV:40:GLU:HG2	1.88	0.74
45:EX:79:ARG:NH1	1:F1:1448:G:H4'	2.01	0.74
1:F1:1256:G:H2'	1:F1:1257:G:C8	2.22	0.74
1:F1:1840:U:H1'	1:F1:1841:A:OP2	1.87	0.74
22:EA:157:LYS:NZ	1:F1:2154:A:OP2	2.18	0.74
1:F1:2405:U:OP2	50:F1:4476:HOH:O	2.06	0.74
1:F1:3073:U:OP2	50:F1:4313:HOH:O	2.06	0.74
1:F1:3158:G:H3'	1:F1:3159:A:H5'	1.68	0.74
1:F1:47:G:O6	50:F1:3634:HOH:O	2.04	0.74
1:F1:789:U:H4'	1:F1:790:C:OP1	1.84	0.74
13:FN:36:ARG:NH1	13:FN:74:TYR:CG	2.55	0.74
33:EL:9:GLU:HB2	16:FQ:45:ILE:HD13	1.70	0.74
25:GD:32:LYS:O	25:GD:36:VAL:HG23	1.87	0.74
21:G3:13:A:N3	34:GM:24:ARG:NH2	2.34	0.74
34:GM:283:THR:HB	34:GM:286:GLN:HG3	1.70	0.74
36:GO:97:ARG:HH21	1:H1:1805:C:H5'	1.53	0.74
1:H1:1132:U:H2'	1:H1:1133:G:C8	2.23	0.74
1:H1:2669:A:O3'	1:H1:2670:U:H6	1.70	0.74
4:HC:27:LYS:HD3	4:HC:27:LYS:H	1.53	0.74
1:H1:852:A:H5''	11:HL:14:ASN:O	1.87	0.74
1:A1:1495:C:H4'	1:A1:1496:U:OP2	1.88	0.74
1:A1:1700:A:H2'	1:A1:1701:A:H8	1.53	0.74
1:A1:1918:U:O2'	1:A1:1919:A:H5''	1.87	0.74
1:A1:2356:A:H8	1:A1:2356:A:H5'	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2520:G:H2'	22:BA:35:PHE:CD1	2.23	0.74
1:A1:812:G:OP2	35:BN:146:ARG:HA	1.88	0.74
5:AE:102:VAL:CG2	5:AE:170:LEU:HD21	2.17	0.74
18:AU:133:LYS:C	18:AU:135:LEU:H	1.89	0.74
20:B2:147:G:N2	27:BF:54:GLN:HE22	1.85	0.74
29:BH:48:TYR:HE1	29:BH:178:ARG:CZ	2.00	0.74
30:BI:64:ASN:ND2	30:BI:66:ARG:HG2	2.02	0.74
35:BN:147:GLU:O	35:BN:150:ARG:HG2	1.87	0.74
44:BW:14:ASN:ND2	44:BW:17:LYS:HE3	2.03	0.74
21:C3:83:G:H1	21:C3:93:G:N2	1.84	0.74
24:CC:312:GLY:O	1:D1:1373:G:H4'	1.86	0.74
40:CS:80:HIS:ND1	40:CS:95:GLN:HB3	2.03	0.74
39:CR:43:LEU:HD12	1:D1:1599:G:OP1	1.88	0.74
1:D1:1862:C:H5''	1:D1:1863:A:O5'	1.87	0.74
22:EA:62:VAL:HG21	22:EA:77:PHE:CD2	2.16	0.74
24:EC:284:GLN:HG2	35:EN:108:GLU:OE2	1.87	0.74
1:F1:339:C:O2'	1:F1:340:G:H5'	1.88	0.74
1:F1:532:G:OP1	5:FE:127:LYS:NZ	2.21	0.74
7:FG:95:ALA:HB3	7:FG:101:LEU:CD1	2.18	0.74
23:GB:118:PHE:HE2	1:H1:2989:G:N2	1.85	0.74
23:GB:210:ASN:ND2	23:GB:352:ILE:H	1.85	0.74
25:GD:101:ASN:ND2	25:GD:130:VAL:HG13	2.03	0.74
30:GI:132:ARG:NH1	1:H1:1216:C:H2'	2.02	0.74
1:H1:1615:G:OP1	11:HL:15:THR:HG21	1.87	0.74
1:H1:1840:U:H1'	1:H1:1841:A:OP2	1.88	0.74
23:GB:325:CYS:HB2	1:H1:3036:U:O2'	1.88	0.74
1:H1:638:U:H2'	1:H1:639:U:H6	1.52	0.74
1:H1:972:U:H2'	1:H1:973:C:H6	1.52	0.74
14:HO:75:THR:HG22	14:HO:77:GLU:N	2.02	0.74
1:A1:1166:G:O6	17:AT:10:LYS:NZ	2.18	0.74
1:A1:567:C:N4	1:A1:603:A:C6	2.55	0.74
1:A1:821:U:H5'	1:A1:821:U:H6	1.53	0.74
2:AA:17:THR:CG2	2:AA:18:LEU:N	2.51	0.74
4:AC:39:ARG:O	4:AC:43:MET:HG3	1.87	0.74
34:BM:175:HIS:CD2	34:BM:180:PHE:HE2	2.05	0.74
21:C3:81:A:C2'	21:C3:82:G:H5''	2.18	0.74
23:CB:185:LYS:HB2	23:CB:188:GLU:HG3	1.69	0.74
29:CH:48:TYR:HE1	29:CH:178:ARG:CZ	2.00	0.74
33:CL:6:TYR:HA	16:DQ:45:ILE:HD11	1.68	0.74
34:CM:59:ARG:HB2	34:CM:81:TYR:CE2	2.22	0.74
1:D1:3176:A:H4'	1:D1:3177:G:O5'	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3237:C:N4	8:DH:10:ALA:HA	2.03	0.74
1:D1:410:U:O4	50:D1:4901:HOH:O	2.04	0.74
19:DX:22:VAL:CG1	19:DX:40:GLN:HE21	2.00	0.74
25:ED:37:LEU:HD12	25:ED:67:VAL:HG12	1.69	0.74
27:EF:50:TYR:CE1	27:EF:51:ILE:HG23	2.22	0.74
32:EK:84:VAL:HG21	32:EK:102:ILE:HG12	1.69	0.74
34:EM:59:ARG:HB2	34:EM:81:TYR:CE2	2.22	0.74
30:EI:132:ARG:NH1	1:F1:1216:C:H2'	2.02	0.74
1:F1:1615:G:OP1	11:FL:15:THR:HG21	1.86	0.74
1:F1:1798:U:C5'	1:F1:1799:C:H5'	2.18	0.74
23:EB:265:ALA:O	1:F1:2977:U:O2'	2.03	0.74
4:FC:39:ARG:O	4:FC:43:MET:HG3	1.88	0.74
18:FU:56:VAL:HG12	18:FU:57:ARG:H	1.51	0.74
20:G2:36:G:H5'	1:H1:57:G:H2'	1.68	0.74
21:G3:83:G:H22	21:G3:93:G:N2	1.85	0.74
26:GE:10:VAL:HB	26:GE:53:VAL:HB	1.70	0.74
30:GI:159:ARG:HD2	30:GI:162:ARG:HH21	1.52	0.74
1:H1:497:G:C2'	1:H1:498:A:H5'	2.18	0.74
1:H1:654:U:H2'	1:H1:655:A:C8	2.22	0.74
7:HG:10:ILE:HA	7:HG:13:LYS:HD3	0.86	0.74
1:A1:1013:U:OP1	43:BV:122:ASN:ND2	2.20	0.74
1:A1:1909:C:O2'	1:A1:1910:A:P	2.45	0.74
1:A1:2352:A:H2'	1:A1:2353:C:H6	1.53	0.74
1:A1:832:A:N6	1:A1:959:G:H1	1.85	0.74
25:BD:32:LYS:O	25:BD:36:VAL:HG23	1.86	0.74
1:A1:1216:C:H2'	30:BI:132:ARG:NH1	2.03	0.74
33:BL:80:VAL:HG13	33:BL:87:VAL:HG13	1.70	0.74
35:BN:82:VAL:HG21	35:BN:127:LEU:HD11	1.70	0.74
30:CI:113:ARG:HH11	1:D1:3162:A:N6	1.85	0.74
34:CM:212:TYR:HD2	34:CM:228:PHE:HZ	1.32	0.74
38:CQ:33:GLU:OE2	38:CQ:64:ARG:N	2.21	0.74
43:CV:86:ILE:HG12	43:CV:131:ILE:HA	1.68	0.74
1:D1:1620:U:O4	50:D1:4524:HOH:O	2.05	0.74
25:CD:65:MET:SD	1:D1:2669:A:O2'	2.45	0.74
1:D1:933:G:H4'	1:D1:934:G:H5''	1.69	0.74
1:D1:3234:U:O2'	8:DH:105:ARG:NH1	2.21	0.74
21:E3:105:C:H5'	21:E3:105:C:H6	1.52	0.74
21:E3:64:A:O2'	29:EH:205:PRO:HG3	1.87	0.74
42:EU:104:VAL:CG1	42:EU:108:THR:HB	2.18	0.74
1:F1:1183:C:C3'	1:F1:1184:U:H5''	2.17	0.74
1:F1:1843:U:H2'	1:F1:1844:U:C6	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2516:U:H3	1:F1:2518:A:H8	1.36	0.74
1:F1:3185:G:C2	1:F1:3237:C:C2	2.75	0.74
5:FE:135:THR:HG22	5:FE:136:GLU:H	1.53	0.74
5:FE:63:VAL:HG11	5:FE:76:VAL:CG1	2.18	0.74
13:FN:54:THR:HG22	13:FN:56:ARG:H	1.52	0.74
26:GE:7:GLU:HG2	26:GE:56:GLN:HG2	1.67	0.74
37:GP:145:VAL:HG21	19:HX:40:GLN:OE1	1.88	0.74
38:GQ:29:LYS:HD2	38:GQ:65:PHE:CD2	2.22	0.74
46:GY:7:LYS:CE	1:H1:1950:C:H2'	2.17	0.74
1:H1:114:A:C6	1:H1:264:A:N6	2.55	0.74
1:H1:1579:U:H5''	1:H1:1580:G:OP1	1.88	0.74
44:GW:33:ARG:HH22	1:H1:1906:G:H5''	1.51	0.74
24:GC:123:ASN:ND2	1:H1:698:G:O2'	2.19	0.74
3:HB:23:LEU:HD12	3:HB:24:PRO:HD2	1.70	0.74
16:HQ:6:ALA:O	16:HQ:7:VAL:HB	1.87	0.74
1:A1:387:G:H4'	38:BQ:20:SER:O	1.88	0.73
1:A1:525:C:H4'	1:A1:526:U:OP2	1.88	0.73
9:AJ:112:ASP:H	9:AJ:156:ASN:HD21	1.36	0.73
31:BJ:87:ARG:HD2	31:BJ:88:PRO:HD2	1.70	0.73
1:A1:148:G:H5'	33:BL:55:ASN:HD22	1.53	0.73
43:BV:133:PHE:O	43:BV:226:ASN:HA	1.88	0.73
25:CD:50:ALA:O	25:CD:62:ASN:N	2.21	0.73
1:D1:2253:U:H1'	1:D1:2254:A:OP1	1.88	0.73
1:D1:2576:C:H5''	1:D1:2576:C:H6	1.50	0.73
1:D1:682:G:OP2	50:D1:3875:HOH:O	2.04	0.73
5:DE:41:LEU:HA	5:DE:92:GLN:NE2	2.02	0.73
6:DF:13:VAL:CG1	6:DF:53:VAL:HG22	2.18	0.73
1:D1:1711:U:H1'	12:DM:77:TYR:CD2	2.23	0.73
21:E3:62:U:H4'	21:E3:63:A:OP1	1.88	0.73
36:EO:115:ILE:HG22	36:EO:119:GLN:HB2	1.70	0.73
40:ES:55:VAL:HG11	40:ES:103:LEU:HD13	1.70	0.73
1:F1:1245:U:H6	1:F1:1245:U:H5'	1.53	0.73
1:F1:3266:G:H2'	1:F1:3267:A:H5''	1.70	0.73
2:FA:2:THR:HB	2:FA:6:PRO:HG2	1.68	0.73
19:FX:93:LEU:HD21	19:FX:120:LEU:HD21	1.69	0.73
44:GW:14:ASN:ND2	44:GW:17:LYS:HE3	2.03	0.73
1:H1:2369:C:H2'	1:H1:2369:C:O2	1.88	0.73
27:GF:233:LYS:HB2	1:H1:2575:G:O6	1.88	0.73
1:H1:2635:C:H5'	1:H1:2635:C:H6	1.53	0.73
1:H1:2803:G:OP1	50:H1:4078:HOH:O	2.04	0.73
38:GQ:3:LYS:NZ	1:H1:398:G:N7	2.34	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:61:A:N7	50:H1:3627:HOH:O	2.20	0.73
4:HC:51:GLN:HG3	4:HC:52:THR:N	2.01	0.73
18:HU:100:LYS:CE	18:HU:102:ARG:HH21	1.99	0.73
1:A1:1256:G:H2'	1:A1:1257:G:C8	2.23	0.73
1:A1:2999:U:O4	50:A1:4646:HOH:O	2.05	0.73
1:A1:3128:G:H5'	1:A1:3128:G:C8	2.22	0.73
1:A1:362:G:H3'	1:A1:363:G:H5''	1.70	0.73
1:A1:450:C:H2'	1:A1:451:A:H8	1.52	0.73
1:A1:972:U:H2'	1:A1:973:C:H6	1.53	0.73
32:BK:19:HIS:CD2	32:BK:25:HIS:HB2	2.23	0.73
38:BQ:8:ARG:NH1	38:BQ:117:GLN:HG3	2.03	0.73
1:A1:1548:U:H3'	39:BR:121:LEU:HD11	1.69	0.73
42:BU:58:TYR:O	42:BU:62:ILE:HD12	1.88	0.73
43:BV:118:LYS:O	43:BV:122:ASN:HB2	1.86	0.73
20:C2:100:C:P	39:CR:56:ARG:HH22	2.11	0.73
28:CG:22:UNK:CG	28:CG:92:UNK:HB1	2.18	0.73
33:CL:26:ARG:HB3	33:CL:30:TYR:CE1	2.23	0.73
38:CQ:133:ARG:HD2	1:D1:905:G:OP2	1.87	0.73
1:D1:1073:A:O2'	1:D1:1074:A:O5'	2.05	0.73
30:CI:132:ARG:NH1	1:D1:1216:C:H2'	2.02	0.73
1:D1:1593:A:C6	1:D1:1594:C:N4	2.57	0.73
1:D1:1720:A:H2'	1:D1:1721:A:C8	2.23	0.73
41:CT:58:ARG:CZ	1:D1:3325:G:C5	2.72	0.73
8:DH:58:TYR:CD1	8:DH:104:LEU:HD21	2.20	0.73
8:DH:57:VAL:HG22	8:DH:74:TRP:CZ3	2.24	0.73
18:DU:60:THR:HB	18:DU:63:TYR:HD2	1.53	0.73
1:F1:1432:G:OP1	50:F1:3786:HOH:O	2.05	0.73
1:F1:161:U:H2'	1:F1:162:C:H5''	1.70	0.73
1:F1:1700:A:H2'	1:F1:1701:A:C8	2.23	0.73
1:F1:2180:G:O2'	50:F1:4077:HOH:O	2.07	0.73
1:F1:2715:C:OP1	50:F1:4086:HOH:O	2.04	0.73
1:F1:2765:C:H2'	1:F1:2765:C:O2	1.88	0.73
1:F1:332:G:C2'	1:F1:333:G:H5''	2.17	0.73
20:E2:111:A:C6	2:FA:20:ARG:NH1	2.56	0.73
20:G2:3:A:H4'	20:G2:4:A:OP2	1.86	0.73
34:GM:213:MET:HB3	34:GM:224:PHE:HE1	1.53	0.73
1:H1:2685:A:H2'	1:H1:2686:A:C8	2.23	0.73
33:GL:187:SER:OG	1:H1:27:C:OP1	2.06	0.73
24:GC:275:THR:OG1	1:H1:498:A:H5''	1.89	0.73
9:HJ:140:THR:HG22	9:HJ:141:THR:N	2.03	0.73
1:A1:1667:A:HO2'	1:A1:1668:A:P	2.10	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1840:U:H1'	1:A1:1841:A:OP2	1.89	0.73
1:A1:2919:C:N3	1:A1:2923:U:C5	2.56	0.73
13:AN:87:VAL:CG1	13:AN:90:LEU:HB2	2.19	0.73
18:AU:56:VAL:HG12	18:AU:57:ARG:H	1.48	0.73
24:BC:188:VAL:HG21	24:BC:231:PRO:O	1.87	0.73
1:A1:768:A:C1'	35:BN:141:ARG:HD3	2.19	0.73
22:CA:10:LYS:HD2	1:D1:2178:A:OP1	1.88	0.73
46:CY:73:THR:HG22	46:CY:75:PRO:HD2	1.70	0.73
1:D1:161:U:H2'	1:D1:162:C:H5''	1.70	0.73
1:D1:2177:A:H2'	1:D1:2178:A:H5''	1.70	0.73
1:D1:243:G:H5'	1:D1:243:G:H8	1.52	0.73
1:D1:3153:U:H5''	1:D1:3154:A:OP2	1.88	0.73
1:D1:526:U:HO2'	1:D1:527:A:H8	1.32	0.73
1:D1:71:U:O2'	1:D1:72:A:P	2.46	0.73
13:DN:4:PHE:CB	13:DN:9:ARG:HH21	2.01	0.73
28:EG:11:UNK:O	28:EG:15:UNK:HG2	1.88	0.73
29:EH:33:ILE:HB	29:EH:69:ARG:NH2	2.03	0.73
32:EK:19:HIS:CD2	32:EK:25:HIS:HB2	2.23	0.73
33:EL:55:ASN:OD1	50:EL:404:HOH:O	2.06	0.73
38:EQ:141:TYR:CE1	1:F1:2350:G:H4'	2.23	0.73
38:EQ:33:GLU:CD	38:EQ:63:THR:H	1.92	0.73
1:F1:1430:G:H5'	1:F1:1431:U:OP2	1.87	0.73
1:F1:1667:A:HO2'	1:F1:1668:A:P	2.11	0.73
4:FC:27:LYS:H	4:FC:27:LYS:HD3	1.53	0.73
9:FJ:140:THR:HG22	9:FJ:141:THR:N	2.03	0.73
22:GA:78:ILE:CD1	22:GA:129:ARG:HD3	2.18	0.73
34:GM:17:GLN:HB3	1:H1:2677:U:O2	1.87	0.73
42:GU:47:ARG:O	42:GU:51:VAL:HG23	1.87	0.73
1:H1:1130:A:H2	1:H1:1390:A:O2'	1.70	0.73
1:H1:2508:U:H4'	1:H1:2509:U:OP1	1.87	0.73
1:H1:637:U:H2'	1:H1:638:U:H6	1.53	0.73
11:HL:59:VAL:CG1	11:HL:63:GLU:HB3	2.18	0.73
12:HM:21:CYS:SG	12:HM:30:ILE:HD13	2.28	0.73
1:H1:801:U:H5'	17:HT:37:PRO:HB3	1.69	0.73
1:A1:1579:U:H5''	1:A1:1580:G:OP1	1.88	0.73
1:A1:2397:A:OP1	50:A1:4709:HOH:O	2.05	0.73
1:A1:602:A:OP2	24:BC:363:ARG:NH2	2.15	0.73
1:A1:801:U:H5'	17:AT:37:PRO:HB3	1.68	0.73
6:AF:30:ILE:HG21	19:AX:163:PHE:HE2	1.54	0.73
10:AK:99:CYS:O	10:AK:100:TYR:HB2	1.88	0.73
13:AN:36:ARG:NH1	13:AN:74:TYR:CG	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:7:VAL:CG1	18:AU:185:LYS:HG3	2.18	0.73
29:BH:140:VAL:HG11	29:BH:144:HIS:HB2	1.69	0.73
36:BO:152:SER:CB	36:BO:163:ARG:HH12	1.99	0.73
37:BP:116:LYS:NZ	37:BP:128:THR:HB	2.03	0.73
21:C3:119:C:H2'	34:CM:270:PRO:HG2	1.70	0.73
34:CM:254:ILE:O	34:CM:258:PRO:HD3	1.87	0.73
1:D1:1027:G:O2'	1:D1:1028:A:P	2.46	0.73
1:D1:439:A:H5''	5:DE:126:HIS:CG	2.23	0.73
6:DF:3:PHE:CD1	19:DX:164:PRO:HB3	2.23	0.73
20:E2:105:A:C8	20:E2:106:A:C8	2.77	0.73
23:EB:210:ASN:ND2	23:EB:351:ILE:HA	2.02	0.73
34:EM:175:HIS:CD2	34:EM:180:PHE:HE2	2.06	0.73
1:F1:1002:A:C2'	1:F1:1003:G:H5'	2.19	0.73
1:F1:1566:U:H2'	1:F1:1567:A:H8	1.51	0.73
1:F1:1875:G:O6	50:F1:4045:HOH:O	2.07	0.73
1:F1:435:A:H2'	1:F1:435:A:N3	2.04	0.73
13:FN:14:LEU:O	13:FN:19:ALA:HB1	1.88	0.73
32:GK:142:GLY:C	18:HU:173:ARG:HH21	1.91	0.73
36:GO:95:TRP:CZ3	1:H1:880:U:H4'	2.23	0.73
43:GV:133:PHE:O	43:GV:226:ASN:HA	1.87	0.73
45:GX:69:LEU:HB3	45:GX:70:PRO:HD2	1.71	0.73
1:H1:1173:A:H2'	1:H1:1174:G:H8	1.53	0.73
1:H1:1503:A:H5''	50:H1:3914:HOH:O	1.86	0.73
1:H1:2352:A:H2'	1:H1:2353:C:H6	1.52	0.73
1:H1:3105:G:N2	50:H1:4046:HOH:O	2.22	0.73
1:H1:3232:A:H4'	5:HE:55:ALA:HB1	1.70	0.73
1:H1:3269:G:N3	1:H1:3269:G:H5''	2.03	0.73
1:H1:3185:G:H8	8:HH:11:PRO:HD3	1.53	0.73
5:HE:178:PHE:O	8:HH:14:LEU:HD21	1.88	0.73
1:A1:1360:C:C2'	1:A1:1361:U:H5''	2.18	0.73
1:A1:1503:A:H5''	50:A1:4124:HOH:O	1.88	0.73
1:A1:1533:G:N2	38:BQ:131:THR:HG23	2.02	0.73
1:A1:2509:U:OP2	1:A1:2575:G:N2	2.21	0.73
1:A1:3020:G:O2'	1:A1:3021:A:H5''	1.88	0.73
1:A1:775:C:H2'	1:A1:775:C:O2	1.89	0.73
23:BB:277:ASN:HD21	23:BB:343:GLN:HE21	1.37	0.73
29:BH:48:TYR:CE2	29:BH:142:GLU:HG3	2.23	0.73
20:C2:36:G:H5'	1:D1:57:G:H2'	1.68	0.73
23:CB:121:ASN:HB2	1:D1:3275:A:N7	2.03	0.73
23:CB:54:THR:HG22	23:CB:55:HIS:N	2.01	0.73
24:CC:163:VAL:HA	24:CC:166:TYR:CD2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CI:109:THR:HG23	30:CI:110:PRO:HD3	1.71	0.73
41:CT:54:THR:HG22	41:CT:56:ALA:H	1.54	0.73
1:D1:3151:G:OP1	8:DH:64:LYS:HG3	1.89	0.73
1:D1:3165:A:H2'	1:D1:3166:A:H8	1.53	0.73
1:D1:332:G:C2'	1:D1:333:G:H5''	2.17	0.73
20:C2:111:A:N6	2:DA:20:ARG:HH12	1.87	0.73
13:DN:14:LEU:O	13:DN:19:ALA:HB1	1.88	0.73
24:EC:167:GLU:H	24:EC:171:GLN:HE22	1.34	0.73
30:EI:109:THR:HG23	30:EI:110:PRO:HD3	1.69	0.73
21:E3:21:G:H4'	34:EM:277:PHE:HD2	1.54	0.73
38:EQ:39:LYS:HE2	38:EQ:119:GLY:H	1.54	0.73
1:F1:2954:G:OP1	50:F1:4057:HOH:O	2.07	0.73
24:EC:123:ASN:ND2	1:F1:698:G:O2'	2.21	0.73
18:FU:60:THR:HB	18:FU:63:TYR:HD2	1.53	0.73
1:F1:1343:G:O6	19:FX:167:LYS:HD2	1.88	0.73
29:GH:43:VAL:HG11	29:GH:197:VAL:HG23	1.69	0.73
43:GV:97:LYS:O	43:GV:101:ARG:HG3	1.89	0.73
1:H1:1360:C:C2'	1:H1:1361:U:H5''	2.19	0.73
1:H1:1737:A:O2'	1:H1:1738:A:C8	2.39	0.73
1:H1:2576:C:H6	1:H1:2576:C:H5''	1.53	0.73
1:A1:2177:A:H2'	1:A1:2178:A:H5''	1.70	0.73
1:A1:2246:G:H2'	1:A1:2247:A:H8	1.52	0.73
1:A1:2375:U:O4	50:A1:3885:HOH:O	2.01	0.73
1:A1:3021:A:N3	26:BE:168:LYS:NZ	2.36	0.73
1:A1:517:A:O2'	1:A1:518:G:H3'	1.88	0.73
1:A1:897:A:C2'	1:A1:898:C:H5'	2.19	0.73
3:AB:23:LEU:HD12	3:AB:24:PRO:HD2	1.71	0.73
13:AN:23:ALA:HB1	13:AN:43:VAL:HG12	1.70	0.73
20:B2:147:G:H21	27:BF:54:GLN:NE2	1.87	0.73
21:B3:3:U:H2'	21:B3:4:G:C8	2.23	0.73
23:BB:210:ASN:ND2	23:BB:351:ILE:HA	2.04	0.73
20:B2:27:G:OP2	40:BS:12:ARG:HD3	1.89	0.73
32:CK:78:ASP:N	32:CK:78:ASP:OD1	2.22	0.73
34:CM:274:HIS:O	34:CM:278:TYR:HD2	1.71	0.73
1:D1:1002:A:C2'	1:D1:1003:G:H5'	2.19	0.73
35:CN:141:ARG:HD3	1:D1:768:A:C1'	2.19	0.73
5:DE:102:VAL:CG2	5:DE:170:LEU:HD21	2.18	0.73
9:DJ:112:ASP:H	9:DJ:156:ASN:HD21	1.34	0.73
16:DQ:25:HIS:CD2	50:DQ:302:HOH:O	2.41	0.73
20:E2:32:C:H2'	20:E2:33:C:C6	2.22	0.73
29:EH:16:PRO:HG3	29:EH:128:ARG:NH1	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:EQ:133:ARG:CG	38:EQ:139:ASN:HD22	1.99	0.73
40:ES:43:ASN:O	40:ES:125:LEU:HD12	1.88	0.73
1:F1:1579:U:H5''	1:F1:1580:G:OP1	1.87	0.73
1:F1:2242:G:H2'	1:F1:2243:C:H5'	1.68	0.73
1:F1:621:G:H21	1:F1:634:G:H5''	1.52	0.73
1:F1:986:C:P	50:F1:3671:HOH:O	2.47	0.73
4:FC:51:GLN:HG3	4:FC:52:THR:N	2.03	0.73
5:FE:69:LEU:HD21	5:FE:114:ASP:CB	2.18	0.73
14:FO:89:ARG:O	14:FO:93:VAL:HG23	1.89	0.73
23:GB:203:VAL:HG11	23:GB:320:ILE:HD11	1.68	0.73
23:GB:54:THR:HG22	23:GB:55:HIS:N	2.02	0.73
27:GF:126:LYS:HE2	27:GF:135:LEU:CD1	2.12	0.73
40:GS:43:ASN:O	40:GS:125:LEU:HD12	1.89	0.73
44:GW:73:ARG:HG3	44:GW:95:LEU:HD11	1.71	0.73
1:H1:1370:A:C2	1:H1:1389:G:C2	2.77	0.73
5:HE:63:VAL:CG1	5:HE:76:VAL:HG13	2.19	0.73
16:HQ:9:ILE:HD11	18:HU:187:ASN:CB	2.13	0.73
1:A1:1124:G:C8	37:BP:116:LYS:NZ	2.57	0.73
1:A1:2890:A:OP2	50:A1:4585:HOH:O	2.06	0.73
1:A1:3183:A:O2'	1:A1:3184:A:O5'	2.06	0.73
1:A1:434:A:H4'	1:A1:435:A:C8	2.23	0.73
1:A1:1731:G:H21	11:AL:54:ASN:ND2	1.87	0.73
24:BC:214:VAL:HG21	24:BC:227:LEU:CD1	2.18	0.73
27:BF:126:LYS:HE2	27:BF:135:LEU:CD1	2.15	0.73
36:BO:109:TYR:HB3	36:BO:115:ILE:CG1	2.19	0.73
20:C2:100:C:P	39:CR:56:ARG:NH2	2.62	0.73
22:CA:115:CYS:HB2	22:CA:166:THR:HB	1.70	0.73
26:CE:73:SER:HA	26:CE:76:LYS:HE2	1.69	0.73
27:CF:122:PRO:CG	1:D1:119:A:C2	2.70	0.73
27:CF:67:PRO:HB2	27:CF:68:PRO:HD2	1.69	0.73
34:CM:283:THR:HB	34:CM:286:GLN:HG3	1.70	0.73
1:D1:3183:A:O2'	1:D1:3184:A:O5'	2.06	0.73
1:D1:3332:A:O2'	1:D1:3333:G:OP1	2.05	0.73
2:DA:64:ARG:HA	50:DA:204:HOH:O	1.88	0.73
6:DF:20:ASP:OD2	6:DF:46:GLN:NE2	2.20	0.73
23:EB:46:PHE:CE2	23:EB:203:VAL:HG22	2.24	0.73
24:EC:229:ASN:HD21	1:F1:211:A:C3'	2.01	0.73
27:EF:62:GLN:OE1	1:F1:2574:U:N3	2.21	0.73
35:EN:52:ARG:HH12	35:EN:141:ARG:NE	1.85	0.73
41:ET:37:LYS:HE3	41:ET:53:TRP:CZ2	2.24	0.73
46:EY:4:ARG:NH2	1:F1:863:G:O6	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1132:U:H2'	1:F1:1133:G:C8	2.24	0.73
1:F1:1307:C:H2'	1:F1:1308:U:C6	2.23	0.73
1:F1:1478:A:H5'	1:F1:1479:A:OP1	1.89	0.73
1:F1:324:A:H5''	1:F1:325:U:OP2	1.89	0.73
3:FB:23:LEU:HD12	3:FB:24:PRO:HD2	1.71	0.73
5:FE:41:LEU:HB3	5:FE:45:ILE:CG2	2.19	0.73
20:G2:2:G:O2'	1:H1:2983:A:O2'	2.00	0.73
25:GD:48:SER:HB3	1:H1:2671:C:OP1	1.89	0.73
41:GT:37:LYS:HE3	41:GT:53:TRP:CZ2	2.23	0.73
1:H1:1002:A:C2'	1:H1:1003:G:H5'	2.18	0.73
1:H1:1186:A:N3	1:H1:1186:A:H2'	2.01	0.73
1:H1:3158:G:H3'	1:H1:3159:A:H5'	1.69	0.73
1:H1:525:C:O2	1:H1:525:C:C2'	2.32	0.73
1:A1:1149:U:C2'	1:A1:1150:U:H5'	2.18	0.73
1:A1:147:U:H4'	1:A1:148:G:OP2	1.87	0.73
1:A1:2931:G:N7	23:BB:2:SER:HB3	2.03	0.73
1:A1:981:U:OP1	50:A1:4207:HOH:O	2.06	0.73
6:AF:13:VAL:HG11	6:AF:53:VAL:CG2	2.19	0.73
21:B3:110:G:O6	34:BM:21:ARG:HD2	1.88	0.73
22:BA:115:CYS:HB2	22:BA:166:THR:HB	1.70	0.73
26:BE:29:GLY:N	26:BE:82:VAL:HG11	2.03	0.73
32:BK:118:LEU:HB2	32:BK:141:VAL:HG21	1.71	0.73
20:C2:86:G:N1	40:CS:111:ASP:OD2	2.22	0.73
43:CV:215:ARG:NH2	1:D1:1197:A:O3'	2.22	0.73
46:CY:2:ALA:N	1:D1:877:U:O4	2.21	0.73
1:D1:851:G:HO2'	1:D1:1614:A:H8	1.36	0.73
1:D1:2393:A:OP2	50:D1:4370:HOH:O	2.06	0.73
23:EB:157:ARG:HG2	23:EB:180:GLN:HA	1.70	0.73
32:EK:118:LEU:CB	32:EK:141:VAL:HG21	2.19	0.73
33:EL:154:SER:O	33:EL:157:LYS:HG3	1.88	0.73
35:EN:123:THR:HG23	35:EN:125:ASP:OD1	1.88	0.73
37:EP:13:LYS:HD2	1:F1:1020:G:H3'	1.70	0.73
38:EQ:8:ARG:HH12	38:EQ:117:GLN:HG3	1.54	0.73
38:EQ:33:GLU:OE2	38:EQ:64:ARG:N	2.22	0.73
1:F1:1599:G:C6	1:F1:1600:U:C4	2.77	0.73
1:F1:1720:A:H2'	1:F1:1721:A:C8	2.23	0.73
1:F1:2625:A:H5'	1:F1:2626:A:C5'	2.18	0.73
35:EN:146:ARG:HA	1:F1:812:G:OP2	1.89	0.73
6:FF:13:VAL:CG1	6:FF:53:VAL:HG22	2.19	0.73
9:FJ:53:ILE:HA	9:FJ:80:GLU:OE1	1.89	0.73
42:EU:120:PHE:HE2	18:FU:90:SER:O	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:186:GLN:OE1	22:GA:186:GLN:HA	1.87	0.73
24:GC:150:SER:O	14:HO:75:THR:HG23	1.88	0.73
1:H1:1107:A:H3'	1:H1:1108:A:H8	1.53	0.73
1:H1:1307:C:H2'	1:H1:1308:U:C6	2.23	0.73
1:H1:147:U:H4'	1:H1:148:G:OP2	1.88	0.73
1:H1:1592:G:H2'	1:H1:1593:A:C8	2.24	0.73
1:H1:1700:A:H2'	1:H1:1701:A:C8	2.23	0.73
1:H1:704:G:H2'	1:H1:705:A:O4'	1.89	0.73
5:HE:80:TYR:CD2	5:HE:86:PRO:HB3	2.24	0.73
13:HN:23:ALA:HB1	13:HN:43:VAL:HG12	1.70	0.73
1:A1:2669:A:O2'	25:BD:65:MET:SD	2.46	0.73
1:A1:2686:A:H2'	1:A1:2687:G:C8	2.24	0.73
1:A1:3275:A:O2'	1:A1:3276:C:OP2	2.06	0.73
21:B3:89:G:H2'	21:B3:90:A:C8	2.24	0.73
21:C3:62:U:H4'	21:C3:63:A:OP1	1.87	0.73
23:CB:46:PHE:CE2	23:CB:203:VAL:HG22	2.24	0.73
33:CL:110:VAL:HG12	33:CL:113:LEU:HG	1.70	0.73
1:D1:1307:C:H2'	1:D1:1308:U:C6	2.23	0.73
38:CQ:20:SER:O	1:D1:387:G:H4'	1.88	0.73
38:CQ:103:ASN:ND2	1:D1:388:A:H1'	2.04	0.73
18:DU:133:LYS:C	18:DU:135:LEU:H	1.89	0.73
19:DX:158:ASN:ND2	19:DX:160:ALA:HB3	2.02	0.73
31:EJ:11:VAL:O	31:EJ:11:VAL:HG12	1.88	0.73
34:EM:274:HIS:O	34:EM:278:TYR:HD2	1.70	0.73
40:ES:73:TYR:CD1	40:ES:76:LYS:HB2	2.22	0.73
1:F1:1662:A:H5'	11:FL:76:ARG:HH21	1.52	0.73
1:F1:282:G:H22	1:F1:304:U:C5'	2.01	0.73
1:F1:447:G:O6	50:F1:4606:HOH:O	2.06	0.73
1:F1:528:C:H6	1:F1:528:C:H5'	1.54	0.73
35:EN:22:SER:HB3	1:F1:697:A:OP1	1.88	0.73
5:FE:173:TYR:CG	6:FF:106:PHE:HD1	2.07	0.73
26:GE:144:LEU:HD12	26:GE:156:CYS:SG	2.29	0.73
37:GP:91:VAL:HG12	37:GP:92:LYS:O	1.89	0.73
38:GQ:8:ARG:HH12	38:GQ:117:GLN:HG3	1.53	0.73
1:H1:1593:A:C6	1:H1:1594:C:N4	2.57	0.73
1:H1:1895:U:OP1	50:H1:3917:HOH:O	2.06	0.73
27:GF:46:ARG:NE	1:H1:2518:A:H5'	2.02	0.73
1:H1:324:A:H5''	1:H1:325:U:OP2	1.88	0.73
1:H1:567:C:N4	1:H1:603:A:C6	2.57	0.73
1:H1:615:G:N2	8:HH:79:LYS:HE2	2.04	0.73
35:GN:21:LYS:O	1:H1:696:A:C5'	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:HP:4:GLU:OE1	15:HP:54:LYS:HE2	1.88	0.73
19:HX:180:VAL:HG13	19:HX:181:TYR:HD1	1.53	0.73
18:AU:56:VAL:CG1	18:AU:57:ARG:N	2.51	0.73
29:BH:43:VAL:HG11	29:BH:197:VAL:HG23	1.69	0.73
18:AU:27:ALA:HB2	33:BL:202:ARG:HH12	1.54	0.73
34:BM:59:ARG:HD3	34:BM:61:ILE:HG12	1.70	0.73
34:BM:83:LEU:HB3	34:BM:88:VAL:CG2	2.18	0.73
44:BW:73:ARG:HG3	44:BW:95:LEU:HD11	1.70	0.73
23:CB:210:ASN:ND2	23:CB:351:ILE:HA	2.04	0.73
34:CM:83:LEU:HB3	34:CM:88:VAL:CG2	2.18	0.73
1:D1:1109:A:H4'	1:D1:1110:U:O5'	1.86	0.73
1:D1:1255:A:C2	1:D1:1309:G:C5	2.77	0.73
1:D1:1775:A:O5'	15:DP:34:LYS:NZ	2.22	0.73
1:D1:339:C:O2'	1:D1:340:G:H5'	1.87	0.73
1:D1:641:U:H2'	1:D1:642:C:H6	1.54	0.73
1:D1:649:G:O6	50:D1:3949:HOH:O	2.07	0.73
32:CK:61:ARG:NH2	1:D1:88:U:OP1	2.20	0.73
4:DC:70:PHE:CE2	4:DC:81:ILE:HD12	2.24	0.73
5:DE:41:LEU:HB3	5:DE:45:ILE:CG2	2.19	0.73
1:D1:2219:A:OP1	16:DQ:78:ARG:NH2	2.22	0.73
42:CU:124:ALA:HB2	18:DU:153:SER:OG	1.88	0.73
27:EF:19:ASN:HB3	27:EF:20:PRO:CD	2.19	0.73
30:EI:196:PHE:HE2	6:FF:110:ARG:HD2	1.52	0.73
32:EK:118:LEU:HB2	32:EK:141:VAL:HG21	1.71	0.73
42:EU:104:VAL:HG13	42:EU:108:THR:HB	1.71	0.73
39:ER:48:ALA:O	1:F1:14:A:H5''	1.89	0.73
1:F1:3269:G:N3	1:F1:3269:G:H5''	2.04	0.73
9:FJ:162:HIS:CD2	9:FJ:164:LEU:H	2.06	0.73
20:G2:32:C:H2'	20:G2:33:C:C6	2.21	0.73
27:GF:50:TYR:CE1	27:GF:51:ILE:HG23	2.23	0.73
32:GK:117:ARG:HD3	32:GK:137:ARG:NH1	2.03	0.73
34:GM:156:GLY:HA2	34:GM:181:PRO:HG3	1.69	0.73
36:GO:42:ARG:NH2	1:H1:1626:U:P	2.62	0.73
1:H1:1918:U:O2'	1:H1:1919:A:H5''	1.89	0.73
1:H1:2411:U:OP1	50:H1:3824:HOH:O	2.06	0.73
1:H1:2413:G:H4'	1:H1:2414:A:OP1	1.89	0.73
1:H1:2805:A:N7	50:H1:3765:HOH:O	2.21	0.73
32:GK:24:LYS:NZ	1:H1:967:U:O4	2.20	0.73
1:H1:842:A:H8	2:HA:15:THR:HG23	1.52	0.73
15:HP:48:LYS:HG3	15:HP:49:TYR:CD2	2.24	0.73
18:HU:133:LYS:C	18:HU:135:LEU:H	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:GK:99:VAL:HB	18:HU:169:ILE:HD13	1.70	0.73
1:A1:1478:A:N7	50:A1:4155:HOH:O	2.22	0.72
1:A1:742:U:O4	17:AT:61:LYS:HB3	1.88	0.72
30:BI:49:ASN:ND2	30:BI:135:CYS:SG	2.60	0.72
1:A1:1448:G:H4'	45:BX:79:ARG:NH1	2.04	0.72
33:CL:27:THR:HG21	33:CL:124:ASP:HB3	1.70	0.72
35:CN:141:ARG:HD3	1:D1:768:A:H1'	1.71	0.72
1:D1:1046:G:O3'	13:FN:3:LYS:CE	2.37	0.72
1:D1:223:C:HO2'	1:D1:224:C:P	2.11	0.72
1:D1:2251:A:H1'	46:EY:74:PRO:CB	2.19	0.72
1:D1:2648:U:H4'	1:D1:2740:G:O2'	1.89	0.72
1:D1:2669:A:O3'	1:D1:2670:U:H6	1.71	0.72
1:D1:637:U:H2'	1:D1:638:U:H6	1.53	0.72
9:DJ:186:ILE:HD12	9:DJ:197:LEU:HB2	1.70	0.72
1:F1:2301:C:H2'	1:F1:2301:C:O2	1.88	0.72
1:F1:2545:A:H4'	1:F1:2546:A:OP2	1.88	0.72
1:F1:450:C:H2'	1:F1:451:A:H8	1.53	0.72
1:F1:61:A:OP2	50:F1:3652:HOH:O	2.06	0.72
46:EY:10:ILE:CG2	1:F1:862:A:H4'	2.18	0.72
1:F1:904:U:O2'	1:F1:905:G:OP2	2.07	0.72
20:E2:111:A:N6	2:FA:20:ARG:HH12	1.87	0.72
5:FE:41:LEU:HA	5:FE:92:GLN:NE2	2.03	0.72
14:FO:13:ASN:OD1	14:FO:15:PHE:N	2.22	0.72
19:FX:158:ASN:ND2	19:FX:160:ALA:HB3	2.03	0.72
20:G2:105:A:H5''	20:G2:106:A:H8	1.53	0.72
34:GM:153:THR:HG22	34:GM:179:ARG:HH11	1.54	0.72
37:GP:21:THR:HA	37:GP:24:HIS:CD2	2.23	0.72
1:H1:1109:A:H4'	1:H1:1110:U:O5'	1.87	0.72
1:H1:1775:A:H4'	1:H1:1776:G:OP2	1.87	0.72
1:H1:2540:G:H4'	1:H1:2541:U:OP2	1.89	0.72
1:H1:3183:A:O2'	1:H1:3184:A:O5'	2.06	0.72
1:H1:434:A:H4'	1:H1:435:A:C8	2.24	0.72
1:H1:439:A:H5''	5:HE:126:HIS:CG	2.23	0.72
14:HO:89:ARG:O	14:HO:93:VAL:HG23	1.89	0.72
18:HU:56:VAL:HG12	18:HU:57:ARG:H	1.52	0.72
1:A1:1397:G:C8	50:A1:4228:HOH:O	2.42	0.72
1:A1:1592:G:H2'	1:A1:1593:A:C8	2.25	0.72
1:A1:2875:A:OP2	50:A1:4293:HOH:O	2.07	0.72
1:A1:3106:C:H2'	1:A1:3107:C:H5'	1.70	0.72
1:A1:3273:U:H4'	23:BB:171:GLN:HB2	1.70	0.72
5:AE:41:LEU:HB3	5:AE:45:ILE:CG2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:41:LEU:CD1	5:AE:45:ILE:HD13	2.16	0.72
1:A1:406:A:H61	20:B2:18:G:H1'	1.51	0.72
24:BC:195:ARG:HD3	24:BC:199:GLY:HA3	1.71	0.72
1:A1:1599:G:OP1	39:BR:43:LEU:HD12	1.88	0.72
21:C3:53:U:H4'	21:C3:54:A:O5'	1.88	0.72
27:CF:68:PRO:HD3	27:CF:225:TRP:HE1	1.54	0.72
24:CC:295:ILE:HD11	35:CN:29:LEU:HB3	1.70	0.72
43:CV:80:VAL:HG22	43:CV:188:VAL:CG2	2.19	0.72
43:CV:93:HIS:ND1	43:CV:94:PRO:HD2	2.05	0.72
37:CP:13:LYS:HD2	1:D1:1020:G:H3'	1.70	0.72
1:D1:1130:A:H5'	1:D1:1131:G:OP2	1.89	0.72
1:D1:1700:A:H2'	1:D1:1701:A:C8	2.23	0.72
1:D1:1798:U:C5'	1:D1:1799:C:H5'	2.20	0.72
1:D1:2540:G:H4'	1:D1:2541:U:OP2	1.89	0.72
1:D1:442:G:C2	1:D1:536:A:C2	2.77	0.72
9:DJ:77:ASN:HB3	9:DJ:80:GLU:HG3	1.71	0.72
22:EA:131:SER:OG	22:EA:175:ARG:NH1	2.21	0.72
22:EA:186:GLN:HA	22:EA:186:GLN:OE1	1.86	0.72
33:EL:182:LYS:HG2	33:EL:183:SER:N	2.04	0.72
1:F1:1593:A:C6	1:F1:1594:C:N4	2.57	0.72
1:F1:88:U:O4'	1:F1:280:G:O2'	2.07	0.72
17:FT:9:ASN:OD1	17:FT:12:GLN:HB2	1.89	0.72
26:GE:73:SER:HA	26:GE:76:LYS:HE2	1.71	0.72
43:GV:93:HIS:HD2	43:GV:95:ASP:HB2	1.55	0.72
28:GG:31:UNK:CA	1:H1:1257:G:C4'	2.67	0.72
1:H1:2368:A:OP1	50:H1:3763:HOH:O	2.07	0.72
1:H1:2891:A:N7	50:H1:4278:HOH:O	2.21	0.72
6:HF:30:ILE:HG21	19:HX:163:PHE:HE2	1.53	0.72
6:HF:3:PHE:CD1	19:HX:164:PRO:HB3	2.24	0.72
7:HG:43:PHE:CE1	7:HG:68:HIS:CD2	2.78	0.72
9:HJ:30:ALA:HB3	9:HJ:35:TYR:CZ	2.24	0.72
32:GK:88:THR:HG23	18:HU:164:LYS:HZ2	1.51	0.72
1:A1:1775:A:H4'	1:A1:1776:G:OP2	1.88	0.72
1:A1:223:C:O2'	1:A1:224:C:OP2	2.07	0.72
1:A1:2348:G:C6	50:A1:4566:HOH:O	2.41	0.72
1:A1:2788:G:N7	32:BK:44:ARG:NH2	2.38	0.72
1:A1:2875:A:OP2	50:A1:4288:HOH:O	2.06	0.72
1:A1:339:C:O2'	1:A1:340:G:H5'	1.88	0.72
5:AE:88:LYS:HG2	5:AE:90:VAL:HG23	1.71	0.72
38:BQ:39:LYS:HE2	38:BQ:119:GLY:H	1.54	0.72
39:BR:150:ILE:H	39:BR:150:ILE:HD12	1.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C3:105:C:H5'	21:C3:105:C:H6	1.54	0.72
25:CD:101:ASN:ND2	25:CD:130:VAL:HG13	2.04	0.72
33:CL:202:ARG:HH12	18:DU:27:ALA:HB2	1.52	0.72
42:CU:58:TYR:O	42:CU:62:ILE:HD12	1.88	0.72
1:D1:1168:C:OP1	50:D1:4011:HOH:O	2.07	0.72
1:D1:1599:G:C6	1:D1:1600:U:C4	2.77	0.72
33:CL:172:ARG:HD3	1:D1:28:G:OP1	1.89	0.72
2:DA:17:THR:CG2	2:DA:18:LEU:N	2.52	0.72
14:DO:89:ARG:O	14:DO:93:VAL:HG23	1.90	0.72
17:DT:63:VAL:O	17:DT:66:GLU:HG2	1.89	0.72
20:E2:3:A:H4'	20:E2:4:A:OP2	1.88	0.72
21:E3:42:A:C8	25:ED:72:ARG:NH1	2.57	0.72
32:EK:122:PRO:CA	32:EK:142:GLY:O	2.37	0.72
34:EM:19:LYS:HE3	1:F1:2677:U:C4	2.25	0.72
45:EX:121:LEU:HB2	45:EX:124:ALA:HB2	1.70	0.72
1:F1:19:A:H4'	1:F1:20:G:OP2	1.89	0.72
1:F1:2343:A:H3'	1:F1:2344:U:H5''	1.70	0.72
1:F1:2500:C:H2'	1:F1:2501:A:H8	1.53	0.72
1:F1:638:U:H2'	1:F1:639:U:C6	2.24	0.72
5:FE:47:PRO:O	5:FE:101:LYS:HE3	1.89	0.72
5:FE:120:GLU:OE2	5:FE:138:GLN:HA	1.88	0.72
8:FH:54:LYS:HD3	8:FH:110:PRO:HG2	1.71	0.72
23:GB:36:ASP:OD1	23:GB:38:SER:N	2.20	0.72
27:GF:183:VAL:CG1	27:GF:185:LYS:HE3	2.19	0.72
36:GO:133:LYS:HG3	36:GO:134:ASN:H	1.54	0.72
23:GB:272:HIS:HD2	1:H1:3127:U:OP1	1.72	0.72
4:HC:7:THR:HB	4:HC:94:ILE:HD11	1.69	0.72
5:HE:69:LEU:HD21	5:HE:114:ASP:CB	2.20	0.72
6:HF:20:ASP:OD2	6:HF:46:GLN:NE2	2.22	0.72
13:HN:54:THR:HG22	13:HN:56:ARG:H	1.53	0.72
1:A1:1376:A:H5''	1:A1:1377:A:H5'	1.70	0.72
1:A1:438:A:O3'	1:A1:439:A:C8	2.43	0.72
1:A1:548:G:H22	1:A1:619:G:H21	1.34	0.72
1:A1:852:A:H5''	11:AL:14:ASN:O	1.88	0.72
13:AN:11:VAL:HG12	13:AN:82:PRO:HA	1.71	0.72
14:AO:90:VAL:CG1	14:AO:111:LEU:HD11	2.18	0.72
16:AQ:71:LYS:HE2	16:AQ:75:LYS:HE2	1.71	0.72
38:BQ:34:VAL:HG22	38:BQ:60:ILE:CD1	2.20	0.72
45:BX:84:LEU:HD12	45:BX:110:LEU:HD22	1.72	0.72
27:CF:19:ASN:HB3	27:CF:20:PRO:CD	2.19	0.72
31:CJ:46:ILE:HD11	31:CJ:54:PRO:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CT:37:LYS:HE3	41:CT:53:TRP:CZ2	2.24	0.72
1:D1:1413:G:O2'	1:D1:1414:C:H5'	1.88	0.72
1:D1:1840:U:H1'	1:D1:1841:A:OP2	1.89	0.72
1:D1:2301:C:H2'	1:D1:2301:C:O2	1.89	0.72
1:D1:284:U:H1'	50:D1:3850:HOH:O	1.88	0.72
1:D1:3128:G:C8	1:D1:3128:G:H5'	2.24	0.72
6:DF:13:VAL:HG21	6:DF:27:ILE:HD11	1.70	0.72
9:DJ:33:ASN:O	9:DJ:37:VAL:HG23	1.89	0.72
1:D1:579:G:H1'	19:DX:158:ASN:N	2.04	0.72
21:E3:81:A:C2'	21:E3:82:G:H5''	2.20	0.72
22:EA:205:MET:HE2	22:EA:209:ASP:HB3	1.71	0.72
21:E3:110:G:O6	34:EM:21:ARG:HD2	1.89	0.72
20:E2:41:U:C2	42:EU:93:ARG:NH2	2.57	0.72
1:F1:3093:U:OP2	50:F1:4461:HOH:O	2.07	0.72
8:FH:57:VAL:HG22	8:FH:74:TRP:CZ3	2.25	0.72
22:GA:35:PHE:CD1	1:H1:2520:G:H2'	2.24	0.72
23:GB:145:LEU:O	23:GB:148:ARG:HB2	1.90	0.72
38:GQ:103:ASN:HD21	1:H1:388:A:C2'	2.01	0.72
45:GX:84:LEU:HD12	45:GX:110:LEU:HD22	1.69	0.72
1:H1:1660:U:O2'	13:HN:79:HIS:HD2	1.71	0.72
1:H1:612:C:O2'	1:H1:613:U:H5'	1.90	0.72
45:GX:43:ARG:HH22	1:H1:660:C:H2'	1.53	0.72
35:GN:141:ARG:HD3	1:H1:768:A:C1'	2.19	0.72
5:HE:88:LYS:HG2	5:HE:90:VAL:HG23	1.72	0.72
6:HF:2:VAL:HG12	6:HF:3:PHE:H	1.55	0.72
6:HF:30:ILE:HG21	19:HX:163:PHE:CE2	2.25	0.72
1:A1:2516:U:H3	1:A1:2518:A:H8	1.36	0.72
1:A1:3269:G:N3	1:A1:3269:G:H5''	2.04	0.72
1:A1:827:C:O2'	24:BC:107:PHE:HE1	1.70	0.72
32:CK:104:VAL:HG12	32:CK:109:PHE:HB2	1.71	0.72
24:CC:284:GLN:HG2	35:CN:108:GLU:OE2	1.89	0.72
43:CV:133:PHE:O	43:CV:226:ASN:HA	1.89	0.72
1:D1:1580:G:C4'	1:D1:1581:C:OP2	2.37	0.72
1:D1:2309:U:H4'	1:D1:2310:G:OP2	1.88	0.72
1:D1:2362:A:OP2	50:D1:3933:HOH:O	2.06	0.72
1:D1:3125:G:OP2	50:D1:4809:HOH:O	2.06	0.72
6:DF:8:GLN:HE21	6:DF:11:ARG:NH1	1.86	0.72
20:E2:58:U:N3	20:E2:65:C:H5	1.87	0.72
23:EB:121:ASN:HB2	1:F1:3275:A:N7	2.05	0.72
23:EB:185:LYS:HB2	23:EB:188:GLU:HG3	1.70	0.72
24:EC:107:PHE:HE1	1:F1:827:C:HO2'	1.34	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:227:LEU:HD12	24:EC:235:VAL:HG22	1.71	0.72
24:EC:65:MET:CE	24:EC:105:ARG:HH11	2.03	0.72
30:EI:194:ALA:HA	30:EI:198:TYR:HB2	1.72	0.72
32:EK:81:TRP:HZ2	32:EK:123:VAL:HG22	1.53	0.72
37:EP:26:ARG:O	37:EP:29:ARG:HG3	1.88	0.72
1:F1:434:A:H4'	1:F1:435:A:C8	2.24	0.72
1:F1:442:G:C2	1:F1:536:A:C2	2.78	0.72
43:EV:31:SER:HA	1:F1:628:A:OP1	1.89	0.72
9:FJ:35:TYR:O	9:FJ:39:GLU:HG3	1.89	0.72
20:G2:33:C:C2'	20:G2:34:G:H5'	2.19	0.72
28:GG:81:UNK:HB1	1:H1:1308:U:O2'	1.89	0.72
37:GP:74:VAL:HG12	37:GP:75:ILE:N	2.05	0.72
38:GQ:82:GLN:NE2	1:H1:2383:U:O2'	2.22	0.72
41:GT:5:THR:HG21	41:GT:14:ARG:CG	2.20	0.72
39:GR:35:VAL:HG11	1:H1:2518:A:H3'	1.72	0.72
23:GB:265:ALA:O	1:H1:2977:U:O2'	2.06	0.72
1:H1:2994:G:HO2'	1:H1:2995:A:H8	1.35	0.72
1:H1:3227:A:C5'	5:HE:57:ARG:NH1	2.47	0.72
1:H1:713:G:O6	1:H1:716:A:OP1	2.07	0.72
2:HA:21:ARG:NH1	2:HA:44:MET:HE1	2.04	0.72
5:HE:102:VAL:CG2	5:HE:170:LEU:HD21	2.19	0.72
6:HF:13:VAL:CG1	6:HF:53:VAL:HG22	2.19	0.72
6:HF:8:GLN:HE21	6:HF:11:ARG:NH1	1.86	0.72
9:HJ:33:ASN:O	9:HJ:37:VAL:HG23	1.89	0.72
1:A1:1562:G:C6	50:A1:4048:HOH:O	2.43	0.72
1:A1:439:A:H5''	5:AE:126:HIS:HD1	1.53	0.72
1:A1:615:G:H21	8:AH:79:LYS:HE2	1.54	0.72
1:A1:3109:C:C3'	10:AK:111:ARG:HH12	1.98	0.72
13:AN:130:LYS:HG2	1:H1:2664:C:P	2.29	0.72
19:AX:16:MET:HE3	19:AX:121:ILE:HD12	1.70	0.72
21:B3:42:A:C8	25:BD:72:ARG:NH1	2.58	0.72
1:A1:148:G:C5'	33:BL:55:ASN:HD22	2.03	0.72
36:BO:115:ILE:HG22	36:BO:119:GLN:HB2	1.71	0.72
46:BY:73:THR:HG22	46:BY:75:PRO:HD2	1.71	0.72
23:CB:19:ARG:O	23:CB:271:HIS:HE1	1.73	0.72
24:CC:188:VAL:HG21	24:CC:231:PRO:O	1.89	0.72
24:CC:376:TRP:HD1	1:D1:564:A:C1'	1.94	0.72
1:D1:1053:A:H1'	1:D1:1054:G:OP2	1.89	0.72
1:D1:1149:U:C2'	1:D1:1150:U:H5'	2.20	0.72
1:D1:1662:A:H5'	11:DL:76:ARG:HH21	1.47	0.72
1:D1:3227:A:C1'	5:DE:86:PRO:HG3	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3232:A:C6	1:D1:3233:A:C2	2.78	0.72
1:D1:612:C:O2'	1:D1:613:U:H5'	1.90	0.72
25:ED:29:LYS:HA	25:ED:32:LYS:HD2	1.72	0.72
32:EK:104:VAL:HG12	32:EK:109:PHE:HB2	1.72	0.72
27:EF:154:GLU:OE2	33:EL:26:ARG:NH2	2.22	0.72
33:EL:27:THR:HG21	33:EL:124:ASP:HB3	1.72	0.72
43:EV:156:GLN:OE1	1:F1:1389:G:H1'	1.90	0.72
1:F1:1731:G:H21	11:FL:54:ASN:ND2	1.86	0.72
1:F1:612:C:O2'	1:F1:613:U:H5'	1.89	0.72
21:G3:105:C:H5'	21:G3:105:C:H6	1.54	0.72
21:G3:83:G:H1	21:G3:93:G:N2	1.88	0.72
22:GA:118:GLU:OE2	22:GA:164:ARG:HD2	1.89	0.72
23:GB:19:ARG:O	23:GB:271:HIS:HE1	1.72	0.72
23:GB:332:ARG:HG3	23:GB:332:ARG:HH11	1.54	0.72
24:GC:105:ARG:HH11	24:GC:105:ARG:HG2	1.53	0.72
30:GI:194:ALA:HA	30:GI:198:TYR:HB2	1.71	0.72
32:GK:81:TRP:HZ2	32:GK:123:VAL:HG22	1.55	0.72
1:H1:1052:A:H2	1:H1:1053:A:C5	2.08	0.72
1:H1:1173:A:H2'	1:H1:1174:G:C8	2.23	0.72
1:H1:684:A:C2	1:H1:1461:A:C2	2.77	0.72
1:H1:655:A:H2'	1:H1:656:C:C6	2.24	0.72
5:HE:41:LEU:HB3	5:HE:45:ILE:CG2	2.19	0.72
5:HE:83:ASN:ND2	5:HE:174:LEU:O	2.22	0.72
8:HH:9:VAL:HG12	8:HH:10:ALA:N	2.05	0.72
1:H1:1210:C:O3'	19:HX:171:ARG:NH2	2.23	0.72
1:A1:161:U:H2'	1:A1:162:C:H5''	1.69	0.72
1:A1:2669:A:O3'	1:A1:2670:U:H6	1.73	0.72
33:BL:110:VAL:HG12	33:BL:113:LEU:HG	1.72	0.72
34:BM:180:PHE:CD1	34:BM:200:HIS:CE1	2.78	0.72
1:A1:768:A:H1'	35:BN:141:ARG:HD3	1.70	0.72
40:BS:80:HIS:ND1	40:BS:95:GLN:HB3	2.04	0.72
43:BV:96:VAL:HG22	43:BV:126:ARG:HG3	1.71	0.72
24:CC:272:THR:HG22	24:CC:273:TYR:N	2.04	0.72
21:C3:43:A:OP1	25:CD:137:ARG:HD2	1.89	0.72
1:D1:1579:U:H5''	1:D1:1580:G:OP1	1.89	0.72
1:D1:753:A:H61	1:D1:766:G:H1'	1.53	0.72
20:E2:90:G:O6	50:E2:341:HOH:O	2.07	0.72
21:E3:3:U:H2'	21:E3:4:G:C8	2.24	0.72
25:ED:65:MET:SD	1:F1:2669:A:O2'	2.48	0.72
1:F1:147:U:H4'	1:F1:148:G:OP2	1.90	0.72
1:F1:2576:C:H6	1:F1:2576:C:H5''	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2648:U:H4'	1:F1:2740:G:O2'	1.90	0.72
1:F1:2714:U:O2'	50:F1:4090:HOH:O	2.07	0.72
1:F1:933:G:H4'	1:F1:934:G:H5''	1.70	0.72
22:GA:218:GLN:OE1	50:GA:405:HOH:O	2.06	0.72
33:GL:148:ILE:O	33:GL:151:ILE:HG22	1.90	0.72
21:G3:27:A:H5''	34:GM:57:ASN:HD21	1.53	0.72
36:GO:115:ILE:HG22	36:GO:119:GLN:HB2	1.72	0.72
41:GT:58:ARG:NH2	1:H1:3325:G:C4	2.58	0.72
1:H1:2371:G:O2'	1:H1:2372:G:H8	1.72	0.72
25:GD:124:GLY:HA3	1:H1:2663:A:C6	2.25	0.72
1:H1:362:G:H3'	1:H1:363:G:H5''	1.72	0.72
1:H1:419:A:C2	1:H1:2358:A:H4'	2.25	0.72
5:HE:69:LEU:HD11	5:HE:114:ASP:N	2.04	0.72
7:HG:47:ASN:HD21	7:HG:73:SER:HB3	1.54	0.72
17:HT:55:LYS:HB3	17:HT:59:LEU:HD23	1.72	0.72
19:HX:93:LEU:HD21	19:HX:120:LEU:HD21	1.70	0.72
1:A1:1037:A:OP1	29:BH:40:LYS:NZ	2.22	0.72
1:A1:1216:C:H2'	30:BI:132:ARG:HH12	1.55	0.72
1:A1:1593:A:C6	1:A1:1594:C:N4	2.58	0.72
1:A1:2246:G:H2'	1:A1:2247:A:C8	2.25	0.72
1:A1:2301:C:O2	1:A1:2301:C:H2'	1.89	0.72
1:A1:768:A:H5'	35:BN:141:ARG:O	1.89	0.72
4:AC:70:PHE:HE2	4:AC:81:ILE:HD12	1.55	0.72
5:AE:42:ARG:HH12	8:AH:111:ASN:ND2	1.87	0.72
8:AH:9:VAL:HG12	8:AH:10:ALA:N	2.05	0.72
19:AX:93:LEU:HD21	19:AX:120:LEU:HD21	1.69	0.72
20:B2:137:G:H21	33:BL:112:GLU:HG2	1.53	0.72
31:BJ:11:VAL:HG12	31:BJ:11:VAL:O	1.88	0.72
31:BJ:83:ILE:HG23	31:BJ:122:VAL:HG13	1.72	0.72
23:CB:157:ARG:HG2	23:CB:180:GLN:HA	1.72	0.72
26:CE:52:ASN:OD1	26:CE:53:VAL:N	2.23	0.72
34:CM:142:PHE:CE1	1:D1:1107:A:C8	2.78	0.72
43:CV:170:LEU:HB3	43:CV:175:ILE:HD12	1.72	0.72
43:CV:208:ARG:O	1:D1:1195:U:OP1	2.08	0.72
44:CW:73:ARG:HG3	44:CW:95:LEU:HD11	1.70	0.72
1:D1:2101:G:H8	1:D1:2101:G:H5'	1.55	0.72
1:D1:2516:U:H3	1:D1:2518:A:H8	1.38	0.72
1:D1:2600:U:H2'	1:D1:2601:U:C6	2.24	0.72
38:CQ:71:ARG:HD2	1:D1:3268:C:O2	1.90	0.72
1:D1:525:C:O2	1:D1:525:C:C2'	2.32	0.72
1:D1:852:A:H5''	11:DL:14:ASN:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:EO:109:TYR:HB3	36:EO:115:ILE:CG1	2.19	0.72
41:ET:5:THR:HG21	41:ET:14:ARG:CG	2.20	0.72
1:F1:1035:A:H2'	1:F1:1036:G:H8	1.54	0.72
1:F1:1149:U:C2'	1:F1:1150:U:H5'	2.19	0.72
1:F1:1592:G:H2'	1:F1:1593:A:C8	2.25	0.72
1:F1:2254:A:H4'	1:F1:2255:U:OP2	1.90	0.72
1:F1:2413:G:H4'	1:F1:2414:A:OP1	1.90	0.72
1:F1:2741:U:H4'	1:F1:2742:G:OP2	1.90	0.72
1:F1:3234:U:O2'	8:FH:105:ARG:NH1	2.22	0.72
1:F1:846:C:OP1	50:F1:3910:HOH:O	2.08	0.72
14:FO:52:GLY:HA3	14:FO:118:ASN:HD21	1.53	0.72
24:GC:99:ASN:HD22	24:GC:100:GLN:HE21	1.36	0.72
43:GV:80:VAL:HG22	43:GV:188:VAL:CG2	2.19	0.72
1:H1:1047:G:H2'	1:H1:1048:U:H5'	1.69	0.72
1:H1:304:U:O2'	1:H1:305:A:P	2.47	0.72
1:H1:832:A:N6	1:H1:959:G:H1	1.87	0.72
4:HC:27:LYS:N	4:HC:27:LYS:HD3	2.05	0.72
4:HC:70:PHE:HE2	4:HC:81:ILE:HD12	1.55	0.72
11:HL:37:LYS:HB2	11:HL:60:ARG:HH21	1.53	0.72
13:HN:36:ARG:NH1	13:HN:74:TYR:CG	2.57	0.72
1:A1:1580:G:C4'	1:A1:1581:C:OP2	2.38	0.72
1:A1:1779:C:N4	50:A1:4699:HOH:O	2.22	0.72
1:A1:1845:U:H4'	1:A1:1846:C:OP2	1.90	0.72
1:A1:434:A:H5''	1:A1:435:A:OP1	1.89	0.72
1:A1:497:G:C2'	1:A1:498:A:H5'	2.20	0.72
1:A1:682:G:O6	50:A1:3960:HOH:O	2.07	0.72
6:AF:20:ASP:OD2	6:AF:46:GLN:NE2	2.23	0.72
7:AG:10:ILE:HG23	7:AG:13:LYS:HE2	1.71	0.72
13:AN:25:ILE:HG23	13:AN:41:VAL:HG13	1.72	0.72
21:B3:4:G:H4'	21:B3:26:C:C4'	2.20	0.72
22:BA:78:ILE:CD1	22:BA:129:ARG:HD3	2.20	0.72
28:BG:22:UNK:CG	28:BG:92:UNK:HB1	2.19	0.72
30:BI:159:ARG:HD2	30:BI:162:ARG:HH21	1.51	0.72
30:BI:16:GLY:O	30:BI:19:ALA:HB3	1.88	0.72
33:BL:27:THR:HG21	33:BL:124:ASP:HB3	1.71	0.72
42:CU:104:VAL:HG13	42:CU:108:THR:HB	1.72	0.72
1:D1:1446:C:C6	1:D1:1446:C:H5'	2.25	0.72
1:D1:3106:C:H2'	1:D1:3107:C:H5'	1.72	0.72
1:D1:450:C:H2'	1:D1:451:A:H8	1.54	0.72
6:DF:28:VAL:HG12	6:DF:66:ASN:H	1.54	0.72
24:EC:157:TYR:CD1	24:EC:159:PHE:CE1	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:EE:45:ILE:HA	26:EE:55:LEU:HD23	1.71	0.72
33:EL:187:SER:OG	1:F1:27:C:OP1	2.07	0.72
1:F1:1360:C:C2'	1:F1:1361:U:H5''	2.19	0.72
1:F1:906:C:OP1	50:F1:4033:HOH:O	2.07	0.72
28:GG:22:UNK:CG	28:GG:92:UNK:HB1	2.18	0.72
29:GH:48:TYR:HE1	29:GH:178:ARG:CZ	2.02	0.72
32:GK:118:LEU:CB	32:GK:141:VAL:HG21	2.20	0.72
43:GV:122:ASN:ND2	1:H1:1013:U:OP1	2.22	0.72
45:GX:121:LEU:HB2	45:GX:124:ALA:HB2	1.72	0.72
46:GY:10:ILE:HG22	1:H1:862:A:H4'	1.72	0.72
1:H1:1210:C:O2'	19:HX:13:THR:HG21	1.88	0.72
1:H1:525:C:H4'	1:H1:526:U:OP2	1.88	0.72
9:HJ:142:ILE:HD13	9:HJ:152:CYS:HB3	1.72	0.72
11:HL:37:LYS:HB2	11:HL:60:ARG:NH2	2.05	0.72
1:A1:1594:C:H2'	1:A1:1595:A:H5'	1.72	0.72
1:A1:2332:C:OP2	23:BB:238:LYS:HE3	1.90	0.72
1:A1:2439:C:H2'	1:A1:2440:A:C8	2.25	0.72
1:A1:282:G:H22	1:A1:304:U:H5'	1.54	0.72
1:A1:71:U:O2'	1:A1:72:A:P	2.48	0.72
1:A1:936:C:H5''	22:BA:16:VAL:CG2	2.20	0.72
15:AP:48:LYS:HG3	15:AP:49:TYR:CE1	2.25	0.72
19:AX:13:THR:HG22	19:AX:14:LEU:HD23	1.72	0.72
22:CA:62:VAL:HG21	22:CA:77:PHE:CD2	2.19	0.72
24:CC:227:LEU:HD12	24:CC:235:VAL:HG22	1.72	0.72
26:CE:144:LEU:HD12	26:CE:156:CYS:SG	2.29	0.72
34:CM:209:ILE:O	34:CM:213:MET:HG2	1.89	0.72
35:CN:141:ARG:O	1:D1:768:A:H5'	1.90	0.72
40:CS:55:VAL:HG11	40:CS:103:LEU:HD13	1.71	0.72
42:CU:32:LEU:O	42:CU:35:ALA:HB3	1.90	0.72
43:CV:93:HIS:HD2	43:CV:95:ASP:HB2	1.54	0.72
9:DJ:123:ARG:HD3	9:FJ:123:ARG:HH21	1.53	0.72
13:DN:76:ASN:HB3	13:DN:79:HIS:CD2	2.25	0.72
15:DP:48:LYS:HG3	15:DP:49:TYR:CE2	2.24	0.72
16:DQ:25:HIS:NE2	50:DQ:302:HOH:O	2.22	0.72
20:E2:100:C:P	39:ER:56:ARG:NH2	2.62	0.72
21:E3:11:A:O2'	21:E3:12:U:H3'	1.90	0.72
46:EY:64:ILE:CD1	46:EY:71:LEU:HD11	2.18	0.72
1:F1:232:C:H4'	1:F1:233:G:OP2	1.89	0.72
1:F1:3237:C:H41	8:FH:10:ALA:HA	1.50	0.72
9:FJ:77:ASN:HB3	9:FJ:80:GLU:HG3	1.72	0.72
24:GC:157:TYR:CD1	24:GC:159:PHE:CE1	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:GD:124:GLY:HA3	1:H1:2663:A:C5	2.25	0.72
26:GE:169:ASP:OD1	26:GE:171:ARG:HG3	1.89	0.72
34:GM:19:LYS:HE3	1:H1:2677:U:C4	2.25	0.72
1:H1:1146:C:H42	17:HT:10:LYS:NZ	1.88	0.72
1:H1:1313:A:C4'	1:H1:1314:A:OP1	2.38	0.72
1:H1:1495:C:H4'	1:H1:1496:U:OP2	1.89	0.72
1:H1:2371:G:HO2'	1:H1:2372:G:H8	1.32	0.72
1:H1:2416:U:H2'	1:H1:2417:C:O4'	1.90	0.72
1:H1:2544:U:H1'	7:HG:50:THR:CG2	2.13	0.72
1:H1:279:U:C2	1:H1:281:G:OP2	2.42	0.72
1:H1:821:U:H5'	1:H1:821:U:H6	1.53	0.72
2:HA:17:THR:HG22	2:HA:18:LEU:N	2.05	0.72
13:HN:76:ASN:HB3	13:HN:79:HIS:CD2	2.25	0.72
1:A1:1107:A:H3'	1:A1:1108:A:H8	1.55	0.71
1:A1:2545:A:H4'	1:A1:2546:A:OP2	1.88	0.71
1:A1:3168:A:OP1	1:A1:3168:A:H8	1.72	0.71
1:A1:3275:A:N7	23:BB:121:ASN:HB2	2.05	0.71
7:AG:27:TYR:CD2	7:AG:52:ARG:HD3	2.24	0.71
23:BB:203:VAL:HG11	23:BB:320:ILE:HD11	1.71	0.71
26:BE:169:ASP:OD1	26:BE:171:ARG:HG3	1.90	0.71
39:BR:73:THR:HG23	42:BU:37:ILE:HD13	1.71	0.71
21:C3:30:G:O2'	21:C3:31:G:H5'	1.89	0.71
27:CF:25:LYS:N	1:D1:2552:A:N3	2.37	0.71
47:CO:174:UNK:HB2	29:EH:81:SER:CB	2.20	0.71
1:D1:1343:G:H4'	1:D1:1344:A:OP2	1.89	0.71
1:D1:1598:C:C2'	1:D1:1599:G:H5'	2.20	0.71
1:D1:2180:G:H1'	50:D1:4287:HOH:O	1.89	0.71
1:D1:2239:A:O5'	50:D1:4288:HOH:O	2.06	0.71
1:D1:3115:C:H6	1:D1:3115:C:H5'	1.55	0.71
1:D1:766:G:O6	50:D1:4059:HOH:O	2.07	0.71
13:DN:10:VAL:O	13:DN:83:THR:HB	1.89	0.71
21:E3:33:U:C4	34:EM:212:TYR:CE1	2.78	0.71
22:EA:78:ILE:CD1	22:EA:129:ARG:HD3	2.19	0.71
31:EJ:90:ARG:HB2	31:EJ:96:PHE:CE2	2.25	0.71
32:EK:21:ARG:NH2	1:F1:664:U:OP1	2.23	0.71
33:EL:65:ARG:HB2	33:EL:127:TYR:HD2	1.54	0.71
33:EL:147:ARG:NH2	1:F1:111:C:OP1	2.23	0.71
35:EN:4:ASP:OD1	43:EV:106:ARG:HD3	1.89	0.71
1:D1:2251:A:O2'	46:EY:75:PRO:HD3	1.89	0.71
1:F1:1580:G:C4'	1:F1:1581:C:OP2	2.37	0.71
1:F1:2500:C:H2'	1:F1:2501:A:C8	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3128:G:H5'	1:F1:3128:G:C8	2.24	0.71
44:EW:16:HIS:HD2	1:F1:3330:U:OP1	1.73	0.71
1:F1:517:A:O2'	1:F1:518:G:H3'	1.90	0.71
24:EC:281:SER:OG	1:F1:721:C:OP1	2.04	0.71
2:FA:17:THR:CG2	2:FA:18:LEU:N	2.52	0.71
7:FG:27:TYR:CD2	7:FG:52:ARG:HD3	2.25	0.71
9:FJ:33:ASN:O	9:FJ:37:VAL:HG23	1.90	0.71
19:FX:176:LYS:HE2	19:FX:177:TYR:CZ	2.24	0.71
24:GC:369:HIS:CE1	43:GV:68:LYS:HZ1	2.08	0.71
32:GK:44:ARG:NH2	1:H1:2788:G:N7	2.37	0.71
21:G3:8:G:OP1	34:GM:33:ARG:NH1	2.22	0.71
40:GS:84:ILE:O	40:GS:96:ILE:HD12	1.90	0.71
40:GS:86:LYS:HG3	40:GS:96:ILE:HD11	1.71	0.71
43:GV:86:ILE:HG22	43:GV:214:LYS:HE3	1.72	0.71
1:H1:1255:A:C2	1:H1:1309:G:C5	2.78	0.71
1:H1:2625:A:H5'	1:H1:2626:A:C5'	2.20	0.71
1:H1:3106:C:H2'	1:H1:3107:C:H5'	1.72	0.71
30:GI:196:PHE:CD1	6:HF:111:VAL:HG22	2.25	0.71
1:A1:1376:A:H4'	1:A1:1377:A:OP2	1.89	0.71
1:A1:1561:A:OP2	50:A1:4044:HOH:O	2.08	0.71
1:A1:1599:G:C6	1:A1:1600:U:C4	2.78	0.71
1:A1:1700:A:H2'	1:A1:1701:A:C8	2.25	0.71
1:A1:2126:G:N2	50:A1:4102:HOH:O	2.10	0.71
12:AM:55:ASN:HD22	12:AM:71:ILE:HD11	1.53	0.71
19:AX:180:VAL:HG13	19:AX:181:TYR:HD1	1.56	0.71
21:B3:81:A:C2'	21:B3:82:G:H5''	2.20	0.71
1:A1:2178:A:OP1	22:BA:10:LYS:HD2	1.90	0.71
24:BC:167:GLU:H	24:BC:171:GLN:HE22	1.36	0.71
46:BY:12:ARG:O	46:BY:12:ARG:HD2	1.90	0.71
33:CL:19:MET:HE2	33:CL:22:ILE:HD12	1.72	0.71
35:CN:147:GLU:O	35:CN:150:ARG:HG2	1.89	0.71
43:CV:12:LYS:HE2	1:D1:1376:A:H3'	1.71	0.71
1:D1:1918:U:HO2'	1:D1:1919:A:H5''	1.54	0.71
1:D1:2265:A:H8	1:D1:2265:A:H5''	1.54	0.71
1:D1:438:A:O3'	1:D1:439:A:C8	2.43	0.71
1:D1:527:A:O2'	14:DO:88:GLN:NE2	2.23	0.71
1:D1:559:G:O2'	1:D1:560:A:H5'	1.90	0.71
24:CC:242:ASN:ND2	1:D1:718:A:O2'	2.23	0.71
5:DE:47:PRO:O	5:DE:101:LYS:HE3	1.89	0.71
1:D1:3109:C:C3'	10:DK:111:ARG:HH12	1.99	0.71
14:DO:90:VAL:CG1	14:DO:111:LEU:HD11	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EH:116:ARG:O	1:F1:2633:C:O2'	2.09	0.71
42:EU:82:LEU:HA	42:EU:85:ARG:HG3	1.71	0.71
43:EV:208:ARG:O	1:F1:1195:U:OP1	2.08	0.71
43:EV:86:ILE:HG22	43:EV:214:LYS:HE3	1.72	0.71
1:F1:1050:C:H2'	1:F1:1051:C:C1'	2.20	0.71
1:F1:1255:A:C2	1:F1:1309:G:C5	2.77	0.71
1:F1:1754:G:O6	7:FG:29:SER:HB2	1.90	0.71
33:EL:172:ARG:HD3	1:F1:28:G:OP1	1.90	0.71
1:F1:832:A:C2	1:F1:2406:U:O2'	2.42	0.71
4:FC:27:LYS:HD3	4:FC:27:LYS:N	2.05	0.71
4:FC:7:THR:HB	4:FC:94:ILE:HD11	1.71	0.71
6:FF:13:VAL:HG21	6:FF:27:ILE:HD11	1.71	0.71
9:FJ:186:ILE:HD12	9:FJ:197:LEU:HB2	1.72	0.71
13:FN:87:VAL:CG1	13:FN:90:LEU:HB2	2.20	0.71
24:GC:284:GLN:HG2	35:GN:108:GLU:OE2	1.91	0.71
39:GR:94:VAL:HG11	39:GR:103:ILE:HD11	1.72	0.71
44:GW:72:VAL:HG11	44:GW:92:VAL:HG13	1.73	0.71
1:H1:359:G:OP1	3:HB:50:LYS:NZ	2.22	0.71
1:H1:775:C:H2'	1:H1:775:C:O2	1.90	0.71
33:GL:6:TYR:CE1	16:HQ:41:VAL:HG13	2.26	0.71
1:A1:1020:G:H3'	37:BP:13:LYS:HD2	1.72	0.71
1:A1:1674:C:H4'	22:BA:70:TYR:HD2	1.55	0.71
1:A1:88:U:O4'	1:A1:280:G:O2'	2.08	0.71
1:A1:2994:G:HO2'	1:A1:2995:A:H8	1.38	0.71
12:AM:21:CYS:SG	12:AM:30:ILE:HD13	2.30	0.71
13:AN:4:PHE:CB	13:AN:9:ARG:HH21	2.02	0.71
14:AO:89:ARG:O	14:AO:93:VAL:HG23	1.90	0.71
29:BH:33:ILE:HB	29:BH:69:ARG:NH2	2.05	0.71
6:AF:110:ARG:HD2	30:BI:196:PHE:HE2	1.55	0.71
30:BI:194:ALA:HA	30:BI:198:TYR:HB2	1.70	0.71
16:AQ:45:ILE:HD11	33:BL:6:TYR:HA	1.72	0.71
1:A1:1064:C:P	34:BM:5:LYS:HZ3	2.10	0.71
36:BO:119:GLN:NE2	36:BO:150:ILE:HD11	2.04	0.71
43:BV:97:LYS:O	43:BV:101:ARG:HG3	1.90	0.71
42:CU:76:GLY:HA2	1:D1:133:C:C2'	2.20	0.71
1:D1:2413:G:H4'	1:D1:2414:A:OP1	1.89	0.71
1:D1:2819:G:N7	50:D1:4416:HOH:O	2.23	0.71
24:CC:107:PHE:HE2	1:D1:686:U:C1'	2.02	0.71
1:D1:73:G:OP1	18:DU:56:VAL:HG11	1.89	0.71
13:DN:16:GLY:N	13:DN:19:ALA:HB2	2.05	0.71
18:DU:56:VAL:CG1	18:DU:57:ARG:N	2.52	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:26:ARG:NH1	23:EB:176:ILE:O	2.21	0.71
33:EL:165:THR:O	33:EL:169:ARG:HG3	1.90	0.71
33:EL:26:ARG:HB3	33:EL:30:TYR:CE1	2.23	0.71
38:EQ:103:ASN:ND2	1:F1:388:A:H1'	2.05	0.71
43:EV:170:LEU:HB3	43:EV:175:ILE:HD12	1.70	0.71
1:F1:1370:A:C2	1:F1:1389:G:C2	2.79	0.71
1:F1:1495:C:H4'	1:F1:1496:U:OP2	1.89	0.71
1:F1:2635:C:H6	1:F1:2635:C:H5'	1.54	0.71
1:F1:2685:A:H2'	1:F1:2686:A:C8	2.24	0.71
1:F1:2686:A:H2'	1:F1:2687:G:C8	2.25	0.71
1:F1:826:A:O2'	50:F1:3847:HOH:O	2.07	0.71
45:EX:57:ILE:CG1	1:F1:972:U:H5''	2.19	0.71
5:FE:63:VAL:CG1	5:FE:76:VAL:HG13	2.20	0.71
6:FF:28:VAL:HG12	6:FF:66:ASN:H	1.55	0.71
13:FN:91:CYS:SG	13:FN:92:ASP:N	2.62	0.71
18:FU:128:GLN:OE1	18:FU:139:THR:OG1	2.07	0.71
23:GB:185:LYS:HB2	23:GB:188:GLU:HG3	1.71	0.71
23:GB:46:PHE:CE2	23:GB:203:VAL:HG22	2.25	0.71
36:GO:56:VAL:HG23	1:H1:1897:U:OP1	1.90	0.71
38:GQ:39:LYS:HE2	38:GQ:119:GLY:H	1.55	0.71
42:GU:76:GLY:HA2	1:H1:133:C:H2'	1.72	0.71
1:H1:2310:G:OP1	50:H1:3959:HOH:O	2.07	0.71
1:H1:2364:G:H2'	1:H1:2365:G:C8	2.24	0.71
1:H1:842:A:OP2	50:H1:3808:HOH:O	2.07	0.71
1:A1:1044:G:O2'	1:A1:1045:G:H5'	1.90	0.71
1:A1:232:C:H4'	1:A1:233:G:OP2	1.89	0.71
1:A1:2793:G:O6	50:A1:3768:HOH:O	2.07	0.71
4:AC:27:LYS:H	4:AC:27:LYS:HD3	1.55	0.71
5:AE:63:VAL:CG1	5:AE:76:VAL:HG13	2.20	0.71
5:AE:69:LEU:HD11	5:AE:114:ASP:N	2.05	0.71
7:AG:35:ARG:HH12	13:AN:78:ASN:N	1.89	0.71
14:AO:13:ASN:OD1	14:AO:15:PHE:N	2.22	0.71
24:BC:163:VAL:HA	24:BC:166:TYR:CD2	2.25	0.71
1:A1:268:G:C5'	33:BL:14:LYS:HZ1	2.01	0.71
21:B3:7:G:O3'	34:BM:33:ARG:NH1	2.23	0.71
44:CW:54:LEU:HD22	44:CW:92:VAL:HG12	1.73	0.71
1:D1:1492:G:H2'	1:D1:1493:A:H5''	1.72	0.71
1:D1:2362:A:N7	50:D1:3935:HOH:O	2.22	0.71
1:D1:2433:A:H2'	1:D1:2434:A:C8	2.25	0.71
1:D1:434:A:H5''	1:D1:435:A:OP1	1.90	0.71
1:D1:641:U:H2'	1:D1:642:C:C6	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:795:G:HO2'	1:D1:796:A:H8	1.38	0.71
1:D1:861:A:H62	1:D1:882:G:H1'	1.53	0.71
20:E2:67:C:OP1	42:EU:53:LYS:NZ	2.20	0.71
33:EL:110:VAL:HG12	33:EL:113:LEU:HG	1.71	0.71
44:EW:73:ARG:HG3	44:EW:95:LEU:HD11	1.71	0.71
1:F1:1107:A:H3'	1:F1:1108:A:H8	1.55	0.71
1:F1:1313:A:C4'	1:F1:1314:A:OP1	2.38	0.71
1:F1:684:A:C2	1:F1:1461:A:C2	2.77	0.71
1:F1:1503:A:H5''	50:F1:4009:HOH:O	1.89	0.71
1:F1:2876:U:OP2	50:F1:4161:HOH:O	2.08	0.71
43:EV:63:LYS:NZ	1:F1:562:G:O3'	2.23	0.71
1:F1:732:C:O2	1:F1:778:G:O2'	2.08	0.71
7:FG:24:THR:HG21	7:FG:29:SER:OG	1.90	0.71
27:GF:176:LYS:HB2	27:GF:187:THR:CG2	2.14	0.71
42:GU:74:PHE:HB3	42:GU:80:LYS:HG2	1.73	0.71
1:H1:1752:G:H5'	1:H1:1754:G:C5'	2.19	0.71
22:GA:192:ARG:NH1	1:H1:1821:U:OP2	2.22	0.71
1:H1:2128:C:OP1	50:H1:3894:HOH:O	2.08	0.71
5:HE:19:TYR:OH	14:HO:109:LYS:HG2	1.91	0.71
14:HO:69:LYS:HG2	14:HO:70:VAL:N	2.05	0.71
19:HX:180:VAL:HG13	19:HX:181:TYR:CD1	2.25	0.71
1:A1:1002:A:C2'	1:A1:1003:G:H5'	2.19	0.71
1:A1:1313:A:C4'	1:A1:1314:A:OP1	2.39	0.71
1:A1:1492:G:H2'	1:A1:1493:A:H5''	1.73	0.71
1:A1:1562:G:C5	50:A1:4048:HOH:O	2.43	0.71
1:A1:2551:A:O3'	13:AN:52:LYS:NZ	2.23	0.71
1:A1:442:G:C2	1:A1:536:A:C2	2.78	0.71
6:AF:30:ILE:HG21	19:AX:163:PHE:CE2	2.25	0.71
1:A1:828:C:O2'	24:BC:99:ASN:ND2	2.24	0.71
25:BD:104:PHE:HE1	25:BD:106:ILE:HD11	1.56	0.71
26:BE:10:VAL:HB	26:BE:53:VAL:HB	1.72	0.71
32:BK:84:VAL:HG21	32:BK:102:ILE:HG12	1.71	0.71
40:BS:55:VAL:HG11	40:BS:103:LEU:HD13	1.72	0.71
24:CC:126:ARG:HB3	24:CC:283:TYR:CE2	2.25	0.71
26:CE:45:ILE:HA	26:CE:55:LEU:HD23	1.72	0.71
43:CV:97:LYS:O	43:CV:101:ARG:HG3	1.89	0.71
1:D1:1051:C:C2	1:D1:1052:A:C8	2.79	0.71
1:D1:1215:U:H3	1:D1:1344:A:H62	1.36	0.71
1:D1:1430:G:H5'	1:D1:1431:U:OP2	1.90	0.71
1:D1:284:U:H5	1:D1:305:A:C5'	1.99	0.71
1:D1:3269:G:H5''	1:D1:3269:G:N3	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:638:U:H2'	1:D1:639:U:C6	2.24	0.71
23:EB:93:ILE:HD11	23:EB:102:LEU:HD22	1.73	0.71
24:EC:223:LEU:O	24:EC:227:LEU:HG	1.91	0.71
27:EF:126:LYS:HE2	27:EF:135:LEU:CD1	2.11	0.71
30:EI:86:MET:HE1	1:F1:1201:G:N2	2.00	0.71
34:EM:83:LEU:HB3	34:EM:88:VAL:CG2	2.21	0.71
40:ES:80:HIS:ND1	40:ES:95:GLN:HB3	2.05	0.71
45:EX:6:VAL:CG1	45:EX:7:ALA:H	2.02	0.71
1:F1:1504:C:OP2	50:F1:4012:HOH:O	2.09	0.71
1:F1:1598:C:C2'	1:F1:1599:G:H5'	2.20	0.71
1:F1:434:A:H5''	1:F1:435:A:OP1	1.90	0.71
1:F1:497:G:C2'	1:F1:498:A:H5'	2.20	0.71
1:F1:519:A:H5''	14:FO:89:ARG:HH11	1.55	0.71
24:GC:251:HIS:HD2	1:H1:1410:G:O2'	1.73	0.71
36:GO:92:LYS:NZ	1:H1:882:G:OP2	2.23	0.71
41:GT:54:THR:HG22	41:GT:56:ALA:H	1.56	0.71
44:GW:72:VAL:CG1	44:GW:92:VAL:HG13	2.21	0.71
1:H1:1130:A:H5'	1:H1:1131:G:OP2	1.90	0.71
43:GV:91:GLN:HE21	1:H1:1167:G:H4'	1.53	0.71
1:H1:2439:C:H2'	1:H1:2440:A:H8	1.55	0.71
15:HP:12:MET:O	15:HP:16:GLN:HG2	1.90	0.71
1:A1:3227:A:C1'	5:AE:86:PRO:HG3	2.20	0.71
1:A1:637:U:H2'	1:A1:638:U:C6	2.24	0.71
1:A1:671:A:O2'	50:A1:3948:HOH:O	2.08	0.71
1:A1:861:A:H1'	1:A1:883:A:C2	2.26	0.71
1:A1:1213:G:N3	19:AX:126:GLY:HA3	2.05	0.71
21:B3:8:G:OP1	34:BM:33:ARG:NH1	2.23	0.71
38:CQ:133:ARG:NH2	1:D1:2351:A:N3	2.38	0.71
43:CV:63:LYS:NZ	1:D1:562:G:O3'	2.24	0.71
44:CW:59:TRP:CZ3	44:CW:63:ILE:HG12	2.26	0.71
3:DB:23:LEU:HD12	3:DB:24:PRO:HD2	1.73	0.71
6:DF:13:VAL:HG11	6:DF:53:VAL:HG22	1.73	0.71
9:DJ:63:THR:HG22	9:DJ:72:VAL:HA	1.73	0.71
13:DN:91:CYS:SG	13:DN:92:ASP:N	2.63	0.71
18:DU:128:GLN:OE1	18:DU:139:THR:OG1	2.07	0.71
27:EF:127:TYR:CD1	27:EF:127:TYR:C	2.64	0.71
27:EF:183:VAL:CG1	27:EF:185:LYS:HE3	2.21	0.71
37:EP:74:VAL:HG12	37:EP:75:ILE:N	2.06	0.71
45:EX:84:LEU:HD12	45:EX:110:LEU:HD22	1.73	0.71
45:EX:79:ARG:NH1	1:F1:1448:G:C4'	2.53	0.71
1:F1:2548:G:O2'	1:F1:2549:U:OP1	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:114:A:C5	1:F1:264:A:C6	2.78	0.71
1:F1:2933:G:H5''	1:F1:2933:G:N3	2.05	0.71
1:F1:3106:C:H2'	1:F1:3107:C:H5'	1.72	0.71
1:F1:3165:A:H2'	1:F1:3166:A:H8	1.54	0.71
1:F1:563:G:C4'	1:F1:564:A:OP1	2.39	0.71
5:FE:3:ARG:HB3	5:FE:5:PRO:HD2	1.73	0.71
27:GF:19:ASN:HB3	27:GF:20:PRO:CD	2.20	0.71
32:GK:84:VAL:HG21	32:GK:102:ILE:HG12	1.72	0.71
45:GX:34:TRP:CZ2	45:GX:54:MET:HB2	2.25	0.71
45:GX:98:ILE:H	45:GX:123:ASN:HD21	1.39	0.71
1:H1:1251:C:H1'	1:H1:1315:U:O2'	1.90	0.71
1:H1:1376:A:H5''	1:H1:1377:A:H5'	1.71	0.71
1:H1:1478:A:H5'	1:H1:1479:A:OP1	1.91	0.71
1:H1:1599:G:C6	1:H1:1600:U:C4	2.78	0.71
1:H1:1798:U:C5'	1:H1:1799:C:H5'	2.19	0.71
1:H1:223:C:O2'	1:H1:224:C:OP2	2.08	0.71
1:H1:2415:C:H2'	1:H1:2416:U:C5'	2.21	0.71
1:H1:2516:U:H3	1:H1:2518:A:H8	1.38	0.71
1:H1:3110:U:H4'	1:H1:3111:A:OP1	1.90	0.71
1:H1:71:U:O2'	1:H1:72:A:P	2.49	0.71
1:H1:643:A:O2'	5:HE:131:LYS:HE2	1.90	0.71
8:HH:15:TRP:CD1	8:HH:105:ARG:HG2	2.26	0.71
1:H1:71:U:C5	18:HU:64:ASN:HB3	2.26	0.71
19:HX:158:ASN:ND2	19:HX:160:ALA:HB3	2.05	0.71
1:A1:243:G:H5'	1:A1:243:G:H8	1.54	0.71
1:A1:655:A:H2'	1:A1:656:C:C6	2.25	0.71
1:A1:941:G:H5'	1:A1:942:A:OP1	1.90	0.71
13:AN:14:LEU:O	13:AN:19:ALA:HB1	1.91	0.71
13:AN:41:VAL:HG23	13:AN:77:LEU:HD23	1.72	0.71
24:BC:99:ASN:HD22	24:BC:100:GLN:HE21	1.38	0.71
44:BW:72:VAL:HG11	44:BW:92:VAL:HG13	1.73	0.71
21:C3:89:G:H2'	21:C3:90:A:C8	2.26	0.71
24:CC:251:HIS:HD2	1:D1:1410:G:O2'	1.74	0.71
30:CI:109:THR:HG23	30:CI:110:PRO:CD	2.20	0.71
34:CM:175:HIS:CD2	34:CM:180:PHE:HE2	2.08	0.71
41:CT:11:CYS:HG	41:CT:13:TYR:HD2	1.37	0.71
1:D1:1370:A:C2	1:D1:1389:G:C2	2.79	0.71
1:D1:1901:C:H5''	1:D1:1902:C:C5'	2.20	0.71
1:D1:2548:G:O2'	1:D1:2549:U:OP1	2.09	0.71
24:EC:163:VAL:HA	24:EC:166:TYR:CD2	2.25	0.71
24:EC:283:TYR:HE1	24:EC:285:LEU:HD23	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1918:U:O2'	1:F1:1919:A:H5''	1.91	0.71
1:F1:2251:A:H5''	1:F1:2252:C:OP2	1.90	0.71
1:F1:170:A:H61	1:F1:249:G:H1'	1.55	0.71
1:F1:279:U:N3	1:F1:281:G:OP2	2.23	0.71
1:F1:2875:A:OP2	50:F1:4164:HOH:O	2.08	0.71
6:FF:8:GLN:HE21	6:FF:11:ARG:NH1	1.88	0.71
23:GB:2:SER:HB3	1:H1:2931:G:N7	2.06	0.71
1:H1:1062:A:H2'	1:H1:1063:C:H5'	1.71	0.71
34:GM:35:ARG:HB2	1:H1:2737:A:C2	2.25	0.71
1:H1:3185:G:C2	1:H1:3237:C:C2	2.79	0.71
1:H1:526:U:HO2'	1:H1:527:A:H8	1.35	0.71
5:HE:67:LYS:O	5:HE:75:LEU:HB2	1.91	0.71
7:HG:13:LYS:HD2	7:HG:100:ILE:HD13	1.71	0.71
1:A1:1021:U:OP1	37:BP:13:LYS:NZ	2.19	0.71
1:A1:1255:A:C2	1:A1:1309:G:C5	2.79	0.71
1:A1:1655:A:C2	1:A1:1669:G:C6	2.78	0.71
1:A1:2385:A:H2'	1:A1:2386:G:O5'	1.91	0.71
1:A1:2765:C:H2'	1:A1:2765:C:O2	1.89	0.71
1:A1:3165:A:H2'	1:A1:3166:A:H8	1.55	0.71
7:AG:13:LYS:O	7:AG:17:VAL:HG23	1.90	0.71
7:AG:24:THR:HG21	7:AG:29:SER:OG	1.90	0.71
7:AG:40:LYS:CG	7:AG:93:LEU:O	2.38	0.71
1:A1:3237:C:H41	8:AH:10:ALA:CA	2.03	0.71
8:AH:15:TRP:NE1	8:AH:105:ARG:HG2	2.06	0.71
11:AL:37:LYS:HB2	11:AL:60:ARG:HH21	1.56	0.71
1:A1:579:G:H1'	19:AX:158:ASN:N	2.06	0.71
22:BA:38:ARG:O	22:BA:93:LEU:HG	1.91	0.71
25:BD:133:ARG:CB	25:BD:134:PRO:HD2	2.19	0.71
24:BC:405:ILE:CD1	29:BH:183:ARG:HE	2.03	0.71
18:AU:164:LYS:HZ2	32:BK:88:THR:HG23	1.56	0.71
27:CF:126:LYS:HE2	27:CF:135:LEU:CD1	2.17	0.71
38:CQ:33:GLU:CD	38:CQ:63:THR:H	1.93	0.71
1:D1:1037:A:H2'	1:D1:1038:G:C8	2.25	0.71
1:D1:1141:U:O4	1:D1:1142:G:N2	2.23	0.71
1:D1:1562:G:N7	50:D1:4135:HOH:O	2.24	0.71
1:D1:2685:A:H2'	1:D1:2686:A:C8	2.26	0.71
1:D1:633:C:H2'	1:D1:634:G:OP1	1.90	0.71
32:CK:36:LYS:HB2	1:D1:94:A:OP2	1.89	0.71
5:DE:69:LEU:HD11	5:DE:114:ASP:N	2.06	0.71
6:DF:13:VAL:HG11	6:DF:53:VAL:CG2	2.20	0.71
1:D1:3155:A:N6	8:DH:98:GLN:O	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DJ:142:ILE:HD13	9:DJ:152:CYS:HB3	1.73	0.71
1:F1:3232:A:C6	1:F1:3233:A:C2	2.78	0.71
1:F1:44:U:OP1	50:F1:3627:HOH:O	2.09	0.71
1:F1:525:C:H4'	1:F1:526:U:OP2	1.89	0.71
1:F1:559:G:O2'	1:F1:560:A:H5'	1.91	0.71
5:FE:125:ASN:OD1	5:FE:128:ASN:N	2.22	0.71
1:F1:1662:A:C5'	11:FL:76:ARG:NH2	2.50	0.71
24:GC:195:ARG:HD3	24:GC:199:GLY:HA3	1.73	0.71
13:AN:27:LYS:HZ2	1:H1:1045:G:C3'	2.03	0.71
1:H1:994:C:OP1	50:H1:4001:HOH:O	2.08	0.71
1:A1:1598:C:C2'	1:A1:1599:G:H5'	2.20	0.71
1:A1:1901:C:H5''	1:A1:1902:C:C5'	2.21	0.71
1:A1:2673:C:O2'	25:BD:99:THR:HG23	1.89	0.71
1:A1:46:A:H4'	1:A1:47:G:O5'	1.90	0.71
14:AO:52:GLY:HA3	14:AO:118:ASN:HD21	1.55	0.71
14:AO:69:LYS:HG2	14:AO:70:VAL:N	2.06	0.71
21:B3:27:A:H5''	34:BM:57:ASN:HD21	1.55	0.71
45:BX:121:LEU:HB2	45:BX:124:ALA:HB2	1.72	0.71
21:C3:83:G:H22	21:C3:93:G:H21	1.39	0.71
45:CX:79:ARG:NH1	1:D1:1448:G:H4'	2.05	0.71
1:D1:324:A:H5''	1:D1:325:U:OP2	1.91	0.71
1:D1:3275:A:O2'	1:D1:3276:C:OP2	2.09	0.71
5:DE:3:ARG:HB3	5:DE:5:PRO:HD2	1.73	0.71
1:F1:1130:A:H2	1:F1:1390:A:O2'	1.74	0.71
9:FJ:30:ALA:HB3	9:FJ:35:TYR:CZ	2.26	0.71
12:FM:77:TYR:HE1	12:FM:81:LEU:HD21	1.55	0.71
13:FN:11:VAL:HG12	13:FN:82:PRO:HA	1.73	0.71
15:FP:48:LYS:HG3	15:FP:49:TYR:CD2	2.24	0.71
17:FT:55:LYS:HB3	17:FT:59:LEU:HD23	1.73	0.71
19:FX:13:THR:HG22	19:FX:14:LEU:HD23	1.72	0.71
21:G3:83:G:OP1	50:G3:303:HOH:O	2.08	0.71
24:GC:272:THR:HG22	24:GC:273:TYR:N	2.06	0.71
24:GC:369:HIS:ND1	43:GV:68:LYS:NZ	2.39	0.71
33:GL:154:SER:O	33:GL:157:LYS:HG3	1.89	0.71
43:GV:93:HIS:ND1	43:GV:94:PRO:HD2	2.06	0.71
1:H1:1234:G:P	10:HK:119:ASN:HD21	2.14	0.71
1:H1:155:A:O2'	16:HQ:28:VAL:HG22	1.90	0.71
1:H1:3235:U:O4	8:HH:13:ARG:HA	1.91	0.71
5:HE:3:ARG:HB3	5:HE:5:PRO:HD2	1.71	0.71
9:HJ:186:ILE:HD12	9:HJ:197:LEU:HB2	1.73	0.71
17:HT:63:VAL:O	17:HT:66:GLU:HG2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:HU:22:THR:HG23	18:HU:24:PHE:HD1	1.54	0.71
1:A1:2906:G:C2'	1:A1:2907:A:H5''	2.20	0.71
1:A1:628:A:H4'	1:A1:629:A:OP2	1.91	0.71
6:AF:12:VAL:HB	6:AF:58:PHE:HB2	1.73	0.71
24:BC:157:TYR:CD1	24:BC:159:PHE:CE1	2.79	0.71
30:BI:101:LEU:HD12	30:BI:102:LYS:N	2.05	0.71
16:AQ:41:VAL:HG13	33:BL:6:TYR:CE1	2.26	0.71
20:C2:38:C:H4'	2:DA:71:ILE:HD13	1.73	0.71
21:C3:62:U:O2'	21:C3:63:A:OP2	2.08	0.71
35:CN:52:ARG:HH12	35:CN:141:ARG:NE	1.89	0.71
47:CO:115:ILE:HG22	47:CO:119:GLN:HB2	1.73	0.71
37:CP:74:VAL:HG12	37:CP:75:ILE:N	2.06	0.71
37:CP:83:ARG:HH22	1:D1:2717:G:H5'	1.56	0.71
1:D1:1173:A:H2'	1:D1:1174:G:C8	2.26	0.71
1:D1:11:A:H2'	1:D1:12:A:C8	2.26	0.71
1:D1:128:G:N7	50:D1:3824:HOH:O	2.24	0.71
1:D1:2542:U:C4'	1:D1:2543:C:OP1	2.39	0.71
26:CE:168:LYS:NZ	1:D1:3021:A:N3	2.39	0.71
1:D1:3237:C:N4	8:DH:9:VAL:O	2.23	0.71
1:D1:517:A:O2'	1:D1:518:G:H3'	1.90	0.71
9:DJ:53:ILE:HA	9:DJ:80:GLU:OE1	1.90	0.71
14:DO:69:LYS:HG2	14:DO:70:VAL:N	2.05	0.71
16:DQ:6:ALA:O	16:DQ:7:VAL:HB	1.91	0.71
24:EC:214:VAL:HG21	24:EC:227:LEU:CD1	2.20	0.71
24:EC:333:LEU:HD21	43:EV:161:THR:O	1.91	0.71
1:F1:1062:A:C2'	1:F1:1063:C:H5'	2.21	0.71
1:F1:3153:U:H5''	1:F1:3154:A:OP2	1.90	0.71
1:F1:641:U:H2'	1:F1:642:C:H6	1.56	0.71
1:F1:70:C:N4	1:F1:72:A:C5	2.59	0.71
8:FH:9:VAL:HG12	8:FH:10:ALA:N	2.06	0.71
15:FP:12:MET:O	15:FP:16:GLN:HG2	1.91	0.71
16:FQ:71:LYS:HE2	16:FQ:75:LYS:HE2	1.71	0.71
23:GB:117:ARG:HA	23:GB:173:LYS:HE3	1.71	0.71
23:GB:2:SER:HB3	1:H1:2931:G:C8	2.26	0.71
24:GC:163:VAL:HA	24:GC:166:TYR:CD2	2.26	0.71
24:GC:227:LEU:HD12	24:GC:235:VAL:HG22	1.71	0.71
25:GD:65:MET:CE	1:H1:2670:U:H4'	2.21	0.71
1:H1:1062:A:C2'	1:H1:1063:C:H5'	2.20	0.71
1:H1:2301:C:H2'	1:H1:2301:C:O2	1.90	0.71
1:H1:3153:U:H5''	1:H1:3154:A:OP2	1.90	0.71
24:GC:6:GLN:HE21	1:H1:471:A:H4'	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GX:43:ARG:NH2	1:H1:660:C:H2'	2.06	0.71
5:HE:41:LEU:HA	5:HE:92:GLN:NE2	2.06	0.71
9:HJ:35:TYR:O	9:HJ:39:GLU:HG3	1.90	0.71
1:A1:2250:A:H2	1:A1:2256:G:H1	1.37	0.70
1:A1:3237:C:N4	8:AH:9:VAL:O	2.23	0.70
5:AE:3:ARG:HB3	5:AE:5:PRO:HD2	1.73	0.70
6:AF:111:VAL:HG22	30:BI:196:PHE:CE1	2.26	0.70
6:AF:28:VAL:HG12	6:AF:66:ASN:H	1.56	0.70
9:AJ:186:ILE:HD12	9:AJ:197:LEU:HB2	1.71	0.70
9:AJ:33:ASN:O	9:AJ:37:VAL:HG23	1.90	0.70
16:AQ:6:ALA:O	16:AQ:7:VAL:HB	1.91	0.70
17:AT:63:VAL:O	17:AT:66:GLU:HG2	1.90	0.70
1:A1:27:C:OP1	33:BL:187:SER:OG	2.07	0.70
24:CC:223:LEU:O	24:CC:227:LEU:HG	1.91	0.70
35:CN:158:GLN:HB3	50:CN:307:HOH:O	1.91	0.70
47:CO:173:UNK:HG2	47:CO:174:UNK:N	2.05	0.70
25:CD:99:THR:HG23	1:D1:2673:C:O2'	1.89	0.70
1:D1:3112:A:H2'	1:D1:3113:G:H5'	1.72	0.70
44:CW:16:HIS:HD2	1:D1:3330:U:OP1	1.73	0.70
1:D1:525:C:H4'	1:D1:526:U:OP2	1.89	0.70
1:D1:832:A:N6	1:D1:959:G:H1	1.88	0.70
7:DG:95:ALA:HB3	7:DG:101:LEU:CD1	2.21	0.70
15:DP:12:MET:O	15:DP:16:GLN:HG2	1.91	0.70
20:E2:36:G:H5'	1:F1:57:G:H2'	1.71	0.70
35:EN:158:GLN:CB	50:EN:307:HOH:O	2.36	0.70
1:F1:1114:C:C2'	1:F1:1115:U:H5'	2.21	0.70
1:F1:2994:G:HO2'	1:F1:2995:A:H8	1.39	0.70
1:F1:304:U:O2'	1:F1:305:A:C8	2.44	0.70
13:FN:10:VAL:O	13:FN:83:THR:HB	1.90	0.70
6:FF:3:PHE:CD1	19:FX:164:PRO:HB3	2.25	0.70
30:GI:113:ARG:NH1	1:H1:3162:A:H61	1.89	0.70
32:GK:118:LEU:HB2	32:GK:141:VAL:HG21	1.72	0.70
1:H1:1002:A:C2	1:H1:1004:U:H5''	2.26	0.70
1:H1:132:U:HO2'	1:H1:133:C:P	2.14	0.70
1:H1:282:G:H22	1:H1:304:U:H5'	1.54	0.70
1:H1:517:A:O2'	1:H1:518:G:H3'	1.90	0.70
24:GC:319:ARG:NE	1:H1:634:G:N7	2.39	0.70
1:H1:637:U:H2'	1:H1:638:U:C6	2.26	0.70
1:H1:654:U:H2'	1:H1:655:A:H8	1.56	0.70
2:HA:14:LYS:HD3	3:HB:52:TYR:CD1	2.26	0.70
5:HE:41:LEU:HD13	5:HE:45:ILE:HG21	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:HN:11:VAL:HG12	13:HN:82:PRO:HA	1.73	0.70
1:A1:114:A:C5	1:A1:264:A:C6	2.78	0.70
1:A1:1251:C:H1'	1:A1:1315:U:O2'	1.89	0.70
1:A1:1597:U:H2'	1:A1:1598:C:O4'	1.91	0.70
1:A1:2254:A:N6	1:A1:2255:U:O4	2.24	0.70
1:A1:2413:G:H4'	1:A1:2414:A:OP1	1.89	0.70
1:A1:2540:G:H4'	1:A1:2541:U:OP2	1.89	0.70
1:A1:2738:G:O3'	34:BM:38:ILE:HD11	1.91	0.70
1:A1:2775:G:O3'	32:BK:59:GLY:HA2	1.91	0.70
1:A1:3232:A:N1	1:A1:3233:A:C2	2.59	0.70
1:A1:397:A:H5'	50:A1:3862:HOH:O	1.91	0.70
1:A1:805:A:C4'	1:A1:806:G:OP2	2.38	0.70
1:A1:838:G:N7	50:A1:4011:HOH:O	2.22	0.70
1:A1:967:U:O4	32:BK:24:LYS:NZ	2.24	0.70
24:BC:89:THR:HG22	24:BC:91:ARG:N	2.06	0.70
43:BV:93:HIS:ND1	43:BV:94:PRO:HD2	2.06	0.70
25:CD:104:PHE:HE1	25:CD:106:ILE:HD11	1.56	0.70
31:CJ:127:ALA:HB1	9:DJ:58:ILE:HD13	1.73	0.70
46:CY:28:LYS:HZ2	1:F1:2252:C:P	2.11	0.70
1:D1:113:A:C2'	1:D1:114:A:OP1	2.39	0.70
1:D1:1446:C:H6	1:D1:1446:C:H5'	1.54	0.70
1:D1:1850:C:OP1	15:DP:47:LYS:HE3	1.90	0.70
1:D1:331:C:H2'	1:D1:332:G:H5''	1.72	0.70
1:D1:434:A:H4'	1:D1:435:A:C8	2.26	0.70
1:D1:615:G:H21	8:DH:79:LYS:CE	2.04	0.70
1:D1:897:A:C2'	1:D1:898:C:H5'	2.20	0.70
5:DE:41:LEU:CD1	5:DE:45:ILE:HD13	2.14	0.70
13:DN:24:VAL:O	13:DN:43:VAL:HG13	1.91	0.70
47:CO:174:UNK:HB2	29:EH:81:SER:HB2	1.73	0.70
32:EK:111:LYS:HG3	32:EK:129:TYR:HB2	1.72	0.70
35:EN:155:ALA:HB3	35:EN:158:GLN:CD	2.12	0.70
35:EN:92:ARG:HH21	1:F1:809:A:H4'	1.56	0.70
1:F1:2101:G:H8	1:F1:2101:G:H5'	1.54	0.70
1:F1:2385:A:H2'	1:F1:2386:G:O5'	1.90	0.70
1:F1:2540:G:H4'	1:F1:2541:U:OP2	1.89	0.70
1:F1:450:C:H2'	1:F1:451:A:C8	2.26	0.70
6:FF:20:ASP:OD2	6:FF:46:GLN:NE2	2.24	0.70
20:G2:74:A:H61	20:G2:88:G:H1'	1.56	0.70
38:GQ:62:PHE:CE1	38:GQ:84:ARG:HB2	2.25	0.70
45:GX:47:ARG:NH1	1:H1:1187:C:C2	2.59	0.70
1:H1:1597:U:H2'	1:H1:1598:C:O4'	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1004:U:C6	1:A1:1004:U:H5'	2.17	0.70
1:A1:1064:C:C5'	34:BM:5:LYS:NZ	2.52	0.70
1:A1:1798:U:C5'	1:A1:1799:C:H5'	2.21	0.70
1:A1:2267:G:H4'	1:A1:2268:G:OP1	1.92	0.70
1:A1:2370:G:H3'	50:A1:3891:HOH:O	1.90	0.70
1:A1:2542:U:C4'	1:A1:2543:C:OP1	2.38	0.70
1:A1:2633:C:H5''	1:A1:2634:G:OP2	1.91	0.70
1:A1:2966:U:O2'	1:A1:2967:U:H5''	1.91	0.70
6:AF:13:VAL:HG21	6:AF:27:ILE:HD11	1.74	0.70
9:AJ:142:ILE:HD13	9:AJ:152:CYS:HB3	1.73	0.70
15:AP:4:GLU:OE1	15:AP:54:LYS:HE2	1.91	0.70
23:BB:117:ARG:HA	23:BB:173:LYS:HE3	1.73	0.70
23:BB:19:ARG:O	23:BB:271:HIS:HE1	1.74	0.70
34:BM:283:THR:HB	34:BM:286:GLN:HG3	1.73	0.70
23:CB:292:ALA:HB3	23:CB:301:LYS:HB3	1.73	0.70
1:D1:1055:A:H2'	1:D1:1056:A:H8	1.56	0.70
1:D1:147:U:H4'	1:D1:148:G:OP2	1.89	0.70
1:D1:1880:C:HO2'	11:DL:7:TYR:HE1	1.39	0.70
1:D1:2275:A:OP1	50:D1:4629:HOH:O	2.10	0.70
1:D1:170:A:H61	1:D1:249:G:H1'	1.56	0.70
20:C2:44:A:H5'	2:DA:68:MET:HG3	1.73	0.70
21:E3:119:C:H2'	34:EM:270:PRO:HG2	1.73	0.70
23:EB:378:PHE:HA	1:F1:3325:G:N2	2.06	0.70
29:EH:42:THR:HG23	29:EH:192:THR:HG21	1.73	0.70
30:EI:109:THR:HG23	30:EI:110:PRO:CD	2.20	0.70
20:E2:98:A:OP1	42:EU:67:ARG:NH1	2.23	0.70
1:F1:1376:A:C5'	1:F1:1377:A:H5'	2.22	0.70
1:F1:1618:A:H2'	1:F1:1619:A:C8	2.25	0.70
1:F1:2651:A:H2'	1:F1:2652:G:C8	2.26	0.70
1:F1:362:G:H3'	1:F1:363:G:H5''	1.72	0.70
1:F1:787:U:O2	18:FU:179:ARG:NH2	2.23	0.70
1:F1:820:G:H2'	1:F1:821:U:H5'	1.72	0.70
16:FQ:6:ALA:O	16:FQ:7:VAL:HB	1.90	0.70
24:GC:125:LYS:O	24:GC:129:VAL:HG23	1.92	0.70
24:GC:188:VAL:HG21	24:GC:231:PRO:O	1.90	0.70
42:GU:32:LEU:O	42:GU:35:ALA:HB3	1.90	0.70
1:H1:2625:A:H5'	1:H1:2626:A:H5'	1.72	0.70
23:GB:20:ARG:HB2	1:H1:2979:A:OP1	1.91	0.70
1:H1:972:U:H2'	1:H1:973:C:C6	2.27	0.70
7:HG:95:ALA:HB3	7:HG:101:LEU:CD1	2.21	0.70
13:HN:15:GLN:HE21	13:HN:79:HIS:CE1	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2343:A:H3'	1:A1:2344:U:H5''	1.72	0.70
1:A1:2576:C:H5''	1:A1:2576:C:H6	1.56	0.70
1:A1:388:A:H1'	38:BQ:103:ASN:ND2	2.05	0.70
9:AJ:77:ASN:HB3	9:AJ:80:GLU:HG3	1.73	0.70
11:AL:98:GLU:OE1	11:AL:101:LYS:HD2	1.91	0.70
19:AX:113:LEU:HD11	19:AX:140:THR:HG21	1.74	0.70
24:BC:309:LYS:HG2	35:BN:40:ARG:O	1.91	0.70
24:BC:65:MET:HE3	24:BC:105:ARG:HD3	1.73	0.70
34:BM:163:LEU:HD21	34:BM:175:HIS:CB	2.22	0.70
40:BS:43:ASN:O	40:BS:125:LEU:HD12	1.90	0.70
1:A1:3047:U:C5	44:BW:65:ASN:OD1	2.37	0.70
23:CB:277:ASN:HD21	23:CB:343:GLN:HE21	1.39	0.70
25:CD:133:ARG:CB	25:CD:134:PRO:HD2	2.17	0.70
30:CI:194:ALA:HA	30:CI:198:TYR:HB2	1.73	0.70
33:CL:26:ARG:O	33:CL:30:TYR:HD1	1.73	0.70
41:CT:5:THR:HG21	41:CT:14:ARG:CG	2.20	0.70
1:D1:1373:G:H2'	1:D1:1374:C:H6	1.57	0.70
1:D1:2439:C:H2'	1:D1:2440:A:H8	1.55	0.70
1:D1:2500:C:H2'	1:D1:2501:A:H8	1.54	0.70
1:D1:282:G:H22	1:D1:304:U:C5'	2.04	0.70
1:D1:696:A:H2'	1:D1:697:A:C5'	2.10	0.70
19:DX:16:MET:CE	19:DX:121:ILE:HD12	2.21	0.70
25:ED:104:PHE:HE1	25:ED:106:ILE:HD11	1.55	0.70
29:EH:48:TYR:CE2	29:EH:142:GLU:HG3	2.25	0.70
43:EV:86:ILE:HG12	43:EV:131:ILE:HA	1.72	0.70
1:F1:1051:C:C2	1:F1:1052:A:C8	2.79	0.70
1:F1:1215:U:H3	1:F1:1344:A:H62	1.39	0.70
25:ED:124:GLY:HA3	1:F1:2663:A:C2	2.26	0.70
24:EC:319:ARG:CZ	1:F1:620:A:N7	2.54	0.70
7:FG:47:ASN:HD21	7:FG:73:SER:HB3	1.57	0.70
21:G3:119:C:H2'	34:GM:270:PRO:HG2	1.74	0.70
29:GH:33:ILE:HB	29:GH:69:ARG:NH2	2.05	0.70
30:GI:107:ILE:HG13	30:GI:159:ARG:NH1	2.07	0.70
42:GU:36:LYS:HZ3	42:GU:45:LEU:HD22	1.56	0.70
1:H1:1366:C:H2'	1:H1:1367:A:H8	1.57	0.70
1:H1:1382:A:H4'	1:H1:1383:G:O5'	1.92	0.70
1:H1:2356:A:H2'	1:H1:2357:C:O5'	1.92	0.70
1:H1:3128:G:C8	1:H1:3128:G:H5'	2.25	0.70
1:H1:638:U:H2'	1:H1:639:U:C6	2.26	0.70
24:GC:240:ARG:CZ	1:H1:712:G:H4'	2.21	0.70
6:HF:6:PHE:O	6:HF:11:ARG:HD3	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HH:13:ARG:HG2	8:HH:15:TRP:CZ3	2.27	0.70
13:HN:25:ILE:HG23	13:HN:41:VAL:HG13	1.73	0.70
42:GU:122:LEU:O	18:HU:148:ASN:ND2	2.24	0.70
18:HU:54:PRO:HD3	18:HU:73:PHE:CE2	2.26	0.70
1:A1:684:A:C2	1:A1:1461:A:C2	2.79	0.70
1:A1:2265:A:H8	1:A1:2265:A:H5''	1.55	0.70
1:A1:2414:A:H2'	1:A1:2415:C:C6	2.27	0.70
1:A1:269:U:O2'	1:A1:317:A:H1'	1.91	0.70
1:A1:3128:G:OP1	23:BB:22:THR:HG23	1.89	0.70
1:A1:3307:A:H61	1:A1:3312:C:H42	1.40	0.70
1:A1:563:G:C4'	1:A1:564:A:OP1	2.39	0.70
11:AL:5:ILE:HD11	11:AL:22:LYS:HG2	1.74	0.70
24:BC:105:ARG:HG2	24:BC:105:ARG:NH1	2.04	0.70
27:BF:68:PRO:HD3	27:BF:225:TRP:HE1	1.57	0.70
23:CB:2:SER:HB3	1:D1:2931:G:C8	2.26	0.70
27:CF:131:HIS:CE1	1:D1:117:G:H2'	2.26	0.70
45:CX:98:ILE:H	45:CX:123:ASN:ND2	1.88	0.70
43:CV:98:ARG:HD3	1:D1:1010:G:H2'	1.73	0.70
1:D1:1382:A:H4'	1:D1:1383:G:O5'	1.90	0.70
1:D1:1594:C:H2'	1:D1:1595:A:H5'	1.73	0.70
1:D1:3226:A:H5''	5:DE:80:TYR:OH	1.91	0.70
1:D1:546:A:H2'	1:D1:547:U:C6	2.26	0.70
16:DQ:71:LYS:HE2	16:DQ:75:LYS:HE2	1.73	0.70
24:EC:99:ASN:HD22	24:EC:100:GLN:HE21	1.37	0.70
35:EN:21:LYS:O	1:F1:696:A:H5''	1.91	0.70
1:F1:210:A:HO2'	1:F1:229:A:HO2'	1.38	0.70
1:F1:71:U:O2'	1:F1:72:A:P	2.49	0.70
5:FE:67:LYS:O	5:FE:75:LEU:HB2	1.91	0.70
6:FF:13:VAL:HG11	6:FF:53:VAL:HG22	1.71	0.70
7:FG:43:PHE:CE1	7:FG:68:HIS:CD2	2.79	0.70
18:FU:56:VAL:CG1	18:FU:57:ARG:N	2.53	0.70
23:GB:210:ASN:ND2	23:GB:351:ILE:HA	2.06	0.70
23:GB:22:THR:HG23	1:H1:3128:G:OP1	1.90	0.70
24:GC:223:LEU:O	24:GC:227:LEU:HG	1.91	0.70
31:GJ:83:ILE:HD11	31:GJ:105:VAL:HG23	1.73	0.70
35:GN:16:VAL:CG1	35:GN:17:VAL:H	2.04	0.70
35:GN:34:TYR:O	35:GN:38:VAL:HG23	1.92	0.70
38:GQ:8:ARG:NH1	38:GQ:117:GLN:HG3	2.07	0.70
43:GV:98:ARG:HG3	43:GV:98:ARG:HH11	1.55	0.70
7:AG:11:GLN:NE2	1:H1:2250:A:P	2.64	0.70
1:H1:232:C:H4'	1:H1:233:G:OP2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2765:C:H2'	1:H1:2765:C:O2	1.90	0.70
1:H1:3275:A:O2'	1:H1:3276:C:OP2	2.09	0.70
1:H1:46:A:H4'	1:H1:47:G:O5'	1.90	0.70
1:A1:1566:U:H2'	1:A1:1567:A:C8	2.27	0.70
1:A1:1863:A:OP1	50:A1:4371:HOH:O	2.09	0.70
1:A1:3110:U:H4'	1:A1:3111:A:OP1	1.90	0.70
1:A1:3127:U:OP1	23:BB:272:HIS:HD2	1.74	0.70
1:A1:621:G:H21	1:A1:634:G:H5''	1.56	0.70
1:A1:707:A:P	50:A1:4630:HOH:O	2.48	0.70
1:A1:895:A:OP1	50:A1:4108:HOH:O	2.09	0.70
8:AH:54:LYS:HD3	8:AH:110:PRO:HG2	1.72	0.70
24:BC:227:LEU:HD12	24:BC:235:VAL:HG22	1.74	0.70
29:BH:42:THR:HG23	29:BH:192:THR:HG21	1.72	0.70
32:BK:91:LYS:HE2	32:BK:92:TYR:CZ	2.27	0.70
1:A1:1549:U:C2	39:BR:131:TYR:CD2	2.80	0.70
1:A1:225:C:H5''	40:BS:46:SER:HB3	1.74	0.70
32:CK:113:LEU:HB3	1:D1:740:A:OP2	1.91	0.70
1:D1:1091:G:H4'	1:D1:1092:C:OP2	1.89	0.70
1:D1:114:A:C5	1:D1:264:A:C6	2.80	0.70
1:D1:1186:A:H2'	1:D1:1186:A:N3	2.06	0.70
1:D1:1477:C:OP1	50:D1:4246:HOH:O	2.07	0.70
1:D1:1597:U:H2'	1:D1:1598:C:O4'	1.91	0.70
1:D1:1771:U:O2'	15:DP:54:LYS:NZ	2.19	0.70
1:D1:3110:U:H4'	1:D1:3111:A:OP1	1.91	0.70
9:DJ:39:GLU:HB3	9:DJ:43:VAL:HG23	1.73	0.70
14:DO:52:GLY:HA3	14:DO:118:ASN:HD21	1.54	0.70
46:EY:62:LYS:NZ	1:F1:2545:A:N7	2.39	0.70
1:F1:1382:A:H4'	1:F1:1383:G:O5'	1.91	0.70
1:F1:1434:G:C2'	1:F1:1435:C:C5'	2.69	0.70
1:F1:279:U:C2	1:F1:281:G:OP2	2.44	0.70
1:F1:3232:A:N1	1:F1:3233:A:C2	2.59	0.70
1:F1:974:C:O2'	1:F1:996:A:OP1	2.06	0.70
5:FE:69:LEU:HD11	5:FE:114:ASP:N	2.06	0.70
12:FM:21:CYS:SG	12:FM:30:ILE:HD13	2.30	0.70
21:G3:64:A:H5'	50:G3:320:HOH:O	1.90	0.70
35:GN:45:PHE:HE1	35:GN:139:LEU:HB2	1.56	0.70
44:GW:19:CYS:HA	44:GW:22:ILE:HD12	1.72	0.70
1:H1:1052:A:N3	1:H1:1053:A:N7	2.39	0.70
1:H1:131:G:N1	1:H1:133:C:H1'	2.07	0.70
1:H1:1492:G:H2'	1:H1:1493:A:H5''	1.73	0.70
1:H1:1594:C:H2'	1:H1:1595:A:H5'	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1901:C:H5'	1:H1:1902:C:C5'	2.22	0.70
1:H1:2933:G:H4'	1:H1:2934:A:OP1	1.91	0.70
1:H1:3157:C:H1'	8:HH:9:VAL:HG13	1.73	0.70
1:A1:1186:A:H2'	1:A1:1186:A:N3	2.05	0.70
1:A1:1448:G:C4'	45:BX:79:ARG:HH12	2.03	0.70
1:A1:1562:G:O6	50:A1:4048:HOH:O	2.10	0.70
1:A1:395:A:O2'	50:A1:3864:HOH:O	2.10	0.70
1:A1:612:C:O2'	1:A1:613:U:H5'	1.90	0.70
1:A1:633:C:H2'	1:A1:634:G:OP1	1.92	0.70
2:AA:17:THR:CG2	2:AA:18:LEU:H	2.03	0.70
5:AE:125:ASN:OD1	5:AE:128:ASN:N	2.23	0.70
23:BB:185:LYS:HB2	23:BB:188:GLU:HG3	1.72	0.70
34:BM:181:PRO:HD2	34:BM:200:HIS:CE1	2.27	0.70
37:BP:40:VAL:CG1	37:BP:96:VAL:HG13	2.21	0.70
44:BW:59:TRP:CZ3	44:BW:63:ILE:HG12	2.27	0.70
1:A1:1950:C:H3'	46:BY:7:LYS:HG3	1.71	0.70
32:CK:104:VAL:CG1	32:CK:109:PHE:HB2	2.21	0.70
24:CC:311:ALA:N	35:CN:40:ARG:NH2	2.39	0.70
40:CS:84:ILE:O	40:CS:96:ILE:HD12	1.92	0.70
45:CX:84:LEU:HD12	45:CX:110:LEU:HD22	1.73	0.70
45:CX:69:LEU:HB3	45:CX:70:PRO:HD2	1.71	0.70
1:D1:1245:U:H6	1:D1:1245:U:H5'	1.57	0.70
1:D1:3177:G:C4'	1:D1:3178:U:OP2	2.39	0.70
1:D1:3232:A:N1	1:D1:3233:A:C2	2.60	0.70
1:D1:635:A:O2'	5:DE:33:LEU:HD13	1.92	0.70
4:DC:27:LYS:HD3	4:DC:27:LYS:H	1.55	0.70
9:DJ:30:ALA:HB3	9:DJ:35:TYR:CZ	2.26	0.70
23:EB:145:LEU:O	23:EB:148:ARG:HB2	1.91	0.70
23:EB:22:THR:HG22	23:EB:24:HIS:N	2.07	0.70
24:EC:89:THR:HG22	24:EC:91:ARG:N	2.05	0.70
31:EJ:10:GLN:CG	31:EJ:129:ILE:HG23	2.22	0.70
42:EU:47:ARG:O	42:EU:51:VAL:HG23	1.92	0.70
45:EX:60:ALA:HA	1:F1:1431:U:H5'	1.73	0.70
46:EY:12:ARG:NH1	1:F1:1951:G:O3'	2.24	0.70
1:F1:1448:G:OP1	50:F1:4195:HOH:O	2.08	0.70
26:EE:166:LYS:NZ	1:F1:2882:U:OP1	2.17	0.70
24:EC:99:ASN:ND2	1:F1:828:C:O2'	2.24	0.70
1:F1:911:C:O2'	1:F1:912:G:H5'	1.91	0.70
11:FL:37:LYS:HB2	11:FL:60:ARG:HH21	1.55	0.70
19:FX:113:LEU:HD11	19:FX:140:THR:HG21	1.73	0.70
21:G3:70:G:O6	50:G3:322:HOH:O	2.08	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:115:CYS:HB2	22:GA:166:THR:HB	1.74	0.70
24:GC:283:TYR:HE1	24:GC:285:LEU:HD23	1.54	0.70
25:GD:101:ASN:HD21	25:GD:130:VAL:HG13	1.57	0.70
1:H1:1505:C:OP1	50:H1:3927:HOH:O	2.09	0.70
1:H1:1927:U:OP2	50:H1:4193:HOH:O	2.09	0.70
1:H1:2686:A:H2'	1:H1:2687:G:C8	2.26	0.70
1:H1:2732:G:H2'	1:H1:2733:C:C6	2.26	0.70
1:H1:279:U:N3	1:H1:281:G:OP2	2.25	0.70
1:H1:3061:A:OP2	50:H1:4106:HOH:O	2.08	0.70
38:GQ:103:ASN:ND2	1:H1:388:A:C1'	2.49	0.70
1:H1:978:G:C8	1:H1:1144:G:C8	2.80	0.70
1:H1:986:C:OP2	50:H1:4328:HOH:O	2.10	0.70
1:H1:635:A:O2'	5:HE:33:LEU:HD13	1.91	0.70
7:HG:57:GLU:HA	7:HG:67:ILE:CD1	2.21	0.70
1:A1:1193:G:H2'	1:A1:1194:A:C8	2.27	0.70
1:A1:1597:U:H2'	1:A1:1598:C:H6	1.56	0.70
1:A1:1921:G:O6	50:A1:4467:HOH:O	2.06	0.70
1:A1:1963:G:N7	50:A1:4521:HOH:O	2.24	0.70
1:A1:897:A:O2'	1:A1:898:C:H5'	1.92	0.70
6:AF:13:VAL:HG11	6:AF:53:VAL:HG22	1.73	0.70
11:AL:67:ILE:HD12	11:AL:71:ALA:HB3	1.73	0.70
24:BC:287:ARG:HD2	35:BN:111:ARG:HH12	1.56	0.70
27:BF:183:VAL:CG1	27:BF:185:LYS:HE3	2.22	0.70
33:BL:45:PRO:O	33:BL:49:ARG:HG3	1.92	0.70
37:BP:40:VAL:HG11	37:BP:96:VAL:HG13	1.73	0.70
43:BV:93:HIS:HD2	43:BV:95:ASP:HB2	1.54	0.70
32:CK:122:PRO:CA	32:CK:142:GLY:O	2.39	0.70
32:CK:81:TRP:HZ2	32:CK:123:VAL:HG22	1.54	0.70
21:C3:11:A:C8	34:CM:18:THR:HB	2.25	0.70
47:CO:133:LYS:HG3	47:CO:134:ASN:H	1.55	0.70
38:CQ:103:ASN:HD21	1:D1:388:A:H1'	1.53	0.70
32:CK:88:THR:HG23	18:DU:164:LYS:NZ	2.05	0.70
19:DX:180:VAL:HG13	19:DX:181:TYR:HD1	1.56	0.70
20:E2:105:A:H5''	20:E2:106:A:H8	1.57	0.70
21:E3:83:G:H22	21:E3:93:G:H21	1.37	0.70
22:EA:20:HIS:HE1	1:F1:847:G:O2'	1.74	0.70
34:EM:180:PHE:CD1	34:EM:200:HIS:CE1	2.79	0.70
42:EU:51:VAL:O	42:EU:55:ILE:HG13	1.91	0.70
1:F1:1901:C:H5''	1:F1:1902:C:C5'	2.22	0.70
22:EA:10:LYS:HD2	1:F1:2178:A:OP1	1.91	0.70
1:F1:637:U:H2'	1:F1:638:U:C6	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:805:A:C4'	1:F1:806:G:OP2	2.38	0.70
11:FL:37:LYS:HB2	11:FL:60:ARG:NH2	2.06	0.70
13:FN:7:TYR:CE2	13:FN:94:LYS:HG3	2.26	0.70
30:GI:49:ASN:ND2	30:GI:135:CYS:SG	2.62	0.70
34:GM:119:TYR:HD1	34:GM:132:VAL:HG11	1.57	0.70
42:GU:51:VAL:O	42:GU:55:ILE:HG13	1.91	0.70
46:GY:10:ILE:CG2	1:H1:862:A:H4'	2.22	0.70
1:H1:1598:C:C2'	1:H1:1599:G:H5'	2.21	0.70
1:H1:2602:U:O4	50:H1:3644:HOH:O	2.09	0.70
1:H1:628:A:H4'	1:H1:629:A:OP2	1.92	0.70
1:H1:70:C:N4	1:H1:72:A:C5	2.59	0.70
1:H1:74:G:H4'	1:H1:75:A:OP1	1.91	0.70
22:GA:16:VAL:CG2	1:H1:936:C:H5''	2.22	0.70
1:H1:941:G:H5'	1:H1:942:A:OP1	1.91	0.70
7:HG:40:LYS:CG	7:HG:93:LEU:O	2.38	0.70
11:HL:98:GLU:OE1	11:HL:101:LYS:HD2	1.91	0.70
11:HL:99:GLU:OE1	11:HL:99:GLU:HA	1.90	0.70
1:A1:1548:U:OP1	39:BR:79:LYS:NZ	2.23	0.70
1:A1:186:U:N3	1:A1:230:G:O6	2.24	0.70
1:A1:3112:A:H2'	1:A1:3113:G:H5'	1.72	0.70
1:A1:619:G:C4'	1:A1:620:A:H2	2.05	0.70
4:AC:7:THR:HB	4:AC:94:ILE:HD11	1.71	0.70
15:AP:48:LYS:HG3	15:AP:49:TYR:CD1	2.27	0.70
1:A1:742:U:H5	17:AT:61:LYS:HD2	1.56	0.70
23:BB:114:THR:HB	23:BB:161:HIS:CD2	2.26	0.70
26:BE:52:ASN:OD1	26:BE:53:VAL:N	2.24	0.70
34:BM:33:ARG:NH2	34:BM:72:ASP:OD2	2.24	0.70
1:A1:1186:A:H3'	35:BN:2:ALA:HB2	1.74	0.70
37:BP:26:ARG:O	37:BP:29:ARG:HG3	1.91	0.70
20:B2:41:U:C2	42:BU:93:ARG:NH2	2.60	0.70
20:C2:12:A:H2'	20:C2:13:A:C8	2.26	0.70
32:CK:21:ARG:NH2	1:D1:664:U:OP1	2.24	0.70
34:CM:17:GLN:OE1	37:CP:20:LYS:HA	1.91	0.70
1:D1:1376:A:C5'	1:D1:1377:A:H5'	2.22	0.70
1:D1:1553:C:OP2	50:D1:4531:HOH:O	2.09	0.70
1:D1:2255:U:C1'	1:D1:2256:G:OP1	2.40	0.70
1:D1:2545:A:H4'	1:D1:2546:A:OP2	1.90	0.70
6:DF:6:PHE:O	6:DF:11:ARG:HD3	1.90	0.70
6:DF:30:ILE:HG21	19:DX:163:PHE:CE2	2.27	0.70
6:DF:45:ARG:NH2	6:DF:67:GLN:O	2.25	0.70
8:DH:9:VAL:HG12	8:DH:10:ALA:N	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DJ:162:HIS:HD2	9:DJ:164:LEU:H	1.40	0.70
22:EA:66:ASP:OD1	22:EA:68:TYR:N	2.23	0.70
43:EV:97:LYS:O	43:EV:101:ARG:HG3	1.91	0.70
45:EX:98:ILE:H	45:EX:123:ASN:ND2	1.90	0.70
1:F1:2356:A:H8	1:F1:2356:A:H5'	1.55	0.70
1:F1:2415:C:H2'	1:F1:2416:U:C5'	2.21	0.70
25:ED:99:THR:CG2	1:F1:2673:C:O2'	2.40	0.70
23:EB:2:SER:HB3	1:F1:2931:G:N7	2.07	0.70
1:F1:3275:A:C2'	1:F1:3276:C:OP2	2.40	0.70
32:EK:24:LYS:NZ	1:F1:967:U:O4	2.24	0.70
2:FA:21:ARG:NH1	2:FA:44:MET:HE1	2.06	0.70
7:FG:13:LYS:HD2	7:FG:100:ILE:HD13	1.74	0.70
23:GB:120:LYS:HD2	1:H1:3257:U:OP1	1.91	0.70
21:G3:64:A:O2'	29:GH:205:PRO:CG	2.39	0.70
33:GL:182:LYS:HG2	33:GL:183:SER:N	2.06	0.70
35:GN:82:VAL:HG21	35:GN:127:LEU:HD11	1.74	0.70
1:H1:1054:G:C2'	1:H1:1055:A:C8	2.69	0.70
1:H1:2600:U:H2'	1:H1:2601:U:C6	2.26	0.70
1:H1:2678:A:H1'	1:H1:2691:A:N6	2.06	0.70
1:H1:2897:A:OP2	50:H1:4051:HOH:O	2.10	0.70
1:H1:563:G:C4'	1:H1:564:A:OP1	2.40	0.70
33:GL:169:ARG:NH2	1:H1:62:G:OP2	2.25	0.70
9:HJ:39:GLU:HB3	9:HJ:43:VAL:HG23	1.74	0.70
13:HN:91:CYS:SG	13:HN:92:ASP:N	2.65	0.70
1:A1:1245:U:H6	1:A1:1245:U:H5'	1.57	0.70
1:A1:2553:G:H5''	27:BF:22:PHE:O	1.91	0.70
1:A1:284:U:C5	1:A1:305:A:C5'	2.75	0.70
1:A1:2859:G:O6	50:A1:4332:HOH:O	2.05	0.70
1:A1:3192:C:O2	6:AF:120:ARG:HD3	1.92	0.70
1:A1:362:G:C3'	1:A1:363:G:H5''	2.22	0.70
1:A1:450:C:H2'	1:A1:451:A:C8	2.26	0.70
1:A1:498:A:H5''	24:BC:275:THR:OG1	1.91	0.70
1:A1:639:U:O2'	1:A1:640:G:H5'	1.92	0.70
9:AJ:162:HIS:CD2	9:AJ:164:LEU:H	2.10	0.70
1:A1:2983:A:O2'	20:B2:2:G:O2'	2.01	0.70
23:BB:46:PHE:CE2	23:BB:203:VAL:HG22	2.25	0.70
27:BF:19:ASN:HB3	27:BF:20:PRO:CD	2.21	0.70
37:BP:13:LYS:O	50:BP:302:HOH:O	2.08	0.70
50:AT:103:HOH:O	37:BP:82:GLY:HA3	1.92	0.70
40:BS:84:ILE:O	40:BS:96:ILE:HD12	1.92	0.70
24:CC:157:TYR:CD1	24:CC:159:PHE:HE1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CI:37:THR:OG1	30:CI:104:PHE:O	2.10	0.70
1:D1:1074:A:H5''	1:D1:1075:C:C5'	2.22	0.70
1:D1:1130:A:H2	1:D1:1390:A:HO2'	1.40	0.70
1:D1:1618:A:H5''	11:DL:62:ALA:HB2	1.73	0.70
1:D1:1845:U:H4'	1:D1:1846:C:OP2	1.92	0.70
1:D1:1921:G:C2'	1:D1:1922:G:H5'	2.22	0.70
1:D1:2149:U:H2'	1:D1:2150:U:C5'	2.22	0.70
1:D1:2254:A:H4'	1:D1:2254:A:OP2	1.90	0.70
1:D1:2395:G:OP1	50:D1:4891:HOH:O	2.09	0.70
1:D1:994:C:OP1	50:D1:4326:HOH:O	2.10	0.70
23:EB:119:TYR:CE2	23:EB:122:TRP:HZ3	2.09	0.70
37:EP:63:LYS:H	37:EP:63:LYS:HD2	1.57	0.70
43:EV:93:HIS:HD2	43:EV:95:ASP:HB2	1.55	0.70
1:F1:1597:U:H2'	1:F1:1598:C:H6	1.57	0.70
7:FG:40:LYS:CG	7:FG:93:LEU:O	2.39	0.70
13:FN:24:VAL:O	13:FN:43:VAL:HG13	1.92	0.70
14:FO:50:LEU:HD13	14:FO:111:LEU:HD21	1.72	0.70
30:GI:61:MET:HE1	30:GI:68:GLY:HA3	1.73	0.70
33:GL:110:VAL:HG12	33:GL:113:LEU:HG	1.71	0.70
40:GS:73:TYR:CD1	40:GS:76:LYS:HB2	2.27	0.70
1:H1:1045:G:H2'	1:H1:1046:G:H8	1.57	0.70
1:H1:1446:C:C6	1:H1:1446:C:H5'	2.27	0.70
1:H1:2100:A:H2'	1:H1:2101:G:C5'	2.20	0.70
1:H1:2994:G:O2'	1:H1:2995:A:H8	1.74	0.70
1:H1:362:G:C3'	1:H1:363:G:H5''	2.22	0.70
7:HG:10:ILE:HG23	7:HG:13:LYS:HE2	1.72	0.70
12:HM:77:TYR:HE1	12:HM:81:LEU:HD21	1.55	0.70
18:HU:58:LYS:HB2	18:HU:63:TYR:HB3	1.74	0.70
1:A1:1132:U:H6	1:A1:1132:U:O5'	1.74	0.69
1:A1:1308:U:O3'	28:BG:58:UNK:HG2	1.92	0.69
1:A1:2101:G:H5'	1:A1:2101:G:H8	1.57	0.69
1:A1:2410:C:H5'	22:BA:208:VAL:HG22	1.74	0.69
1:A1:2635:C:H4'	29:BH:119:PHE:CE2	2.27	0.69
1:A1:3176:A:H4'	1:A1:3177:G:O5'	1.90	0.69
1:A1:3275:A:C2'	1:A1:3276:C:OP2	2.39	0.69
1:A1:528:C:H6	1:A1:528:C:H5'	1.57	0.69
1:A1:559:G:O2'	1:A1:560:A:H5'	1.91	0.69
1:A1:864:C:N4	46:BY:4:ARG:HH21	1.90	0.69
1:A1:439:A:C5'	5:AE:126:HIS:HD1	2.05	0.69
7:AG:47:ASN:HD21	7:AG:73:SER:HB3	1.57	0.69
9:AJ:99:GLU:HG3	9:AJ:101:LEU:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AT:55:LYS:HB3	17:AT:59:LEU:HD23	1.74	0.69
30:BI:61:MET:HE1	30:BI:68:GLY:HA3	1.74	0.69
34:BM:119:TYR:CD1	34:BM:132:VAL:CG1	2.73	0.69
24:BC:295:ILE:HD11	35:BN:29:LEU:HB3	1.74	0.69
1:A1:2351:A:N3	38:BQ:133:ARG:NH2	2.40	0.69
38:BQ:33:GLU:CD	38:BQ:63:THR:H	1.95	0.69
42:BU:47:ARG:O	42:BU:51:VAL:HG23	1.91	0.69
22:CA:78:ILE:CD1	22:CA:129:ARG:HD3	2.22	0.69
23:CB:171:GLN:NE2	1:D1:3273:U:OP1	2.24	0.69
47:CO:159:UNK:O	47:CO:162:UNK:HG3	1.92	0.69
37:CP:19:TYR:HE1	37:CP:20:LYS:HE3	1.57	0.69
37:CP:57:TYR:HA	37:CP:60:ARG:HG3	1.73	0.69
40:CS:73:TYR:CD1	40:CS:76:LYS:HB2	2.26	0.69
41:CT:35:THR:HG22	41:CT:37:LYS:N	2.03	0.69
1:D1:1313:A:C4'	1:D1:1314:A:OP1	2.39	0.69
1:D1:2126:G:O2'	50:D1:4187:HOH:O	2.10	0.69
1:D1:2356:A:H2'	1:D1:2357:C:O5'	1.92	0.69
1:D1:279:U:N3	1:D1:281:G:OP2	2.24	0.69
1:D1:3116:A:OP2	50:D1:4762:HOH:O	2.10	0.69
1:D1:435:A:H2'	1:D1:435:A:N3	2.07	0.69
1:D1:654:U:H2'	1:D1:655:A:H8	1.56	0.69
7:DG:24:THR:HG21	7:DG:29:SER:OG	1.91	0.69
7:DG:40:LYS:CG	7:DG:93:LEU:O	2.39	0.69
21:E3:62:U:O2'	21:E3:63:A:OP2	2.10	0.69
34:EM:210:ASP:HA	34:EM:213:MET:HG3	1.74	0.69
35:EN:147:GLU:O	35:EN:150:ARG:HG2	1.91	0.69
35:EN:16:VAL:CG1	35:EN:17:VAL:H	2.05	0.69
37:EP:91:VAL:HG12	37:EP:92:LYS:O	1.91	0.69
34:EM:140:LYS:HD3	1:F1:1108:A:P	2.31	0.69
22:EA:70:TYR:HD2	1:F1:1674:C:C4'	2.04	0.69
1:F1:2163:A:H5''	50:F1:3622:HOH:O	1.92	0.69
1:F1:3251:C:H4'	1:F1:3252:G:OP2	1.90	0.69
6:FF:45:ARG:NH2	6:FF:67:GLN:O	2.25	0.69
13:FN:16:GLY:N	13:FN:19:ALA:HB2	2.07	0.69
18:FU:52:LEU:HD23	18:FU:93:ILE:HG23	1.73	0.69
1:F1:71:U:C5	18:FU:64:ASN:HB3	2.27	0.69
23:GB:157:ARG:HG2	23:GB:180:GLN:HA	1.74	0.69
30:GI:113:ARG:NH1	1:H1:3162:A:N6	2.39	0.69
33:GL:183:SER:HA	33:GL:191:ASN:HD21	1.55	0.69
35:GN:16:VAL:CG1	35:GN:17:VAL:N	2.54	0.69
41:GT:58:ARG:CZ	1:H1:3325:G:C5	2.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1114:C:C2'	1:H1:1115:U:H5'	2.21	0.69
1:H1:1566:U:H2'	1:H1:1567:A:H8	1.57	0.69
1:H1:2411:U:H2'	1:H1:2412:U:C6	2.27	0.69
1:H1:269:U:H2'	1:H1:270:C:H6	1.57	0.69
1:H1:3232:A:C6	1:H1:3233:A:C2	2.80	0.69
1:H1:331:C:H2'	1:H1:332:G:H5''	1.74	0.69
22:GA:14:ASN:HB3	1:H1:930:U:H5'	1.72	0.69
9:HJ:162:HIS:HD2	9:HJ:164:LEU:H	1.40	0.69
18:HU:52:LEU:HD23	18:HU:93:ILE:HG23	1.73	0.69
1:H1:1343:G:O6	19:HX:167:LYS:HD2	1.92	0.69
1:A1:1007:G:O6	50:A1:4795:HOH:O	2.10	0.69
18:AU:58:LYS:HB2	18:AU:63:TYR:HB3	1.74	0.69
23:BB:119:TYR:CD2	23:BB:122:TRP:HZ3	2.10	0.69
23:BB:145:LEU:O	23:BB:148:ARG:HB2	1.92	0.69
33:BL:183:SER:HA	33:BL:191:ASN:HD21	1.56	0.69
46:BY:71:LEU:O	46:BY:71:LEU:HD12	1.92	0.69
21:C3:33:U:C4	34:CM:212:TYR:CE1	2.79	0.69
24:CC:309:LYS:O	35:CN:40:ARG:NH1	2.25	0.69
1:D1:1418:G:N7	50:D1:4991:HOH:O	2.25	0.69
1:D1:209:A:N1	50:D1:4435:HOH:O	2.25	0.69
1:D1:3157:C:H4'	1:D1:3158:G:C5'	2.22	0.69
1:D1:450:C:H2'	1:D1:451:A:C8	2.27	0.69
1:D1:70:C:N4	1:D1:72:A:C5	2.60	0.69
15:DP:31:VAL:HG22	15:DP:44:LEU:CD2	2.21	0.69
19:DX:180:VAL:HG13	19:DX:181:TYR:CD1	2.27	0.69
23:EB:119:TYR:CD2	23:EB:122:TRP:HZ3	2.10	0.69
23:EB:54:THR:CG2	23:EB:55:HIS:N	2.55	0.69
24:EC:188:VAL:HG21	24:EC:231:PRO:O	1.92	0.69
24:EC:89:THR:CG2	24:EC:91:ARG:H	2.04	0.69
31:EJ:83:ILE:HG23	31:EJ:122:VAL:HG13	1.74	0.69
42:EU:58:TYR:O	42:EU:62:ILE:HD12	1.91	0.69
44:EW:54:LEU:HD22	44:EW:92:VAL:HG12	1.74	0.69
1:F1:1173:A:H2'	1:F1:1174:G:C8	2.27	0.69
1:F1:223:C:O2'	1:F1:224:C:OP2	2.09	0.69
1:F1:2343:A:C3'	1:F1:2344:U:H5''	2.22	0.69
1:F1:2839:A:OP1	50:F1:4095:HOH:O	2.10	0.69
24:EC:319:ARG:NE	1:F1:634:G:N7	2.40	0.69
1:F1:655:A:H2'	1:F1:656:C:C6	2.27	0.69
1:F1:439:A:H5''	5:FE:126:HIS:ND1	2.06	0.69
11:FL:88:ARG:HG3	13:FN:14:LEU:HD13	1.74	0.69
18:FU:124:PHE:HE2	18:FU:142:THR:HA	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:GI:196:PHE:CZ	6:HF:110:ARG:HD2	2.27	0.69
34:GM:180:PHE:CD1	34:GM:200:HIS:CE1	2.79	0.69
43:GV:118:LYS:O	43:GV:122:ASN:HB2	1.90	0.69
44:GW:54:LEU:HD22	44:GW:92:VAL:HG12	1.73	0.69
1:H1:1091:G:H4'	1:H1:1092:C:OP2	1.91	0.69
1:H1:1222:A:C2	1:H1:1336:U:N3	2.60	0.69
30:GI:62:ASN:ND2	1:H1:1332:U:H1'	2.07	0.69
1:H1:1580:G:C4'	1:H1:1581:C:OP2	2.39	0.69
1:H1:2633:C:H5''	1:H1:2634:G:OP2	1.92	0.69
1:H1:641:U:H2'	1:H1:642:C:C6	2.26	0.69
1:A1:3157:C:H4'	1:A1:3158:G:C5'	2.22	0.69
1:A1:3251:C:H4'	1:A1:3252:G:OP2	1.91	0.69
1:A1:94:A:OP2	32:BK:36:LYS:HB2	1.91	0.69
9:AJ:18:LYS:HE2	9:AJ:64:CYS:HA	1.73	0.69
24:BC:230:ILE:O	24:BC:233:VAL:HG22	1.93	0.69
1:A1:2663:A:C2	25:BD:124:GLY:HA3	2.26	0.69
25:BD:37:LEU:HD13	25:BD:69:VAL:HG23	1.74	0.69
36:BO:165:LYS:NZ	1:H1:2893:U:H1'	2.07	0.69
38:BQ:38:ILE:HD11	38:BQ:93:ILE:HG21	1.73	0.69
20:C2:137:G:H21	33:CL:112:GLU:HG2	1.57	0.69
23:CB:294:THR:HG22	23:CB:295:ALA:N	2.07	0.69
32:CK:118:LEU:HB2	32:CK:141:VAL:HG21	1.74	0.69
35:CN:45:PHE:HE1	35:CN:139:LEU:HB2	1.57	0.69
27:CF:100:LYS:NZ	1:D1:120:A:OP1	2.25	0.69
1:D1:1592:G:H2'	1:D1:1593:A:C8	2.27	0.69
31:CJ:16:LYS:NZ	1:D1:3081:C:H5	1.87	0.69
1:D1:519:A:H5''	14:DO:89:ARG:HH11	1.57	0.69
1:D1:756:C:H2'	1:D1:757:C:H5''	1.74	0.69
1:D1:964:U:OP1	50:D1:4026:HOH:O	2.10	0.69
1:D1:986:C:P	50:D1:3772:HOH:O	2.39	0.69
4:DC:27:LYS:HD3	4:DC:27:LYS:N	2.07	0.69
7:DG:13:LYS:HD2	7:DG:100:ILE:HD13	1.73	0.69
14:DO:50:LEU:HD13	14:DO:111:LEU:HD21	1.72	0.69
15:DP:48:LYS:HG3	15:DP:49:TYR:CD2	2.26	0.69
36:EO:92:LYS:NZ	1:F1:882:G:OP2	2.25	0.69
44:EW:19:CYS:HA	44:EW:22:ILE:HD12	1.74	0.69
37:EP:14:LYS:HE3	1:F1:1020:G:OP1	1.91	0.69
1:F1:2411:U:P	50:F1:3912:HOH:O	2.44	0.69
1:F1:2542:U:C4'	1:F1:2543:C:OP1	2.39	0.69
37:EP:5:TYR:O	1:F1:2619:C:OP1	2.09	0.69
1:F1:376:A:N6	1:F1:398:G:H2'	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:619:G:C4'	1:F1:620:A:H2	2.05	0.69
1:F1:641:U:H2'	1:F1:642:C:C6	2.27	0.69
6:FF:13:VAL:HG11	6:FF:53:VAL:CG2	2.22	0.69
20:G2:149:G:N7	50:G2:306:HOH:O	2.25	0.69
21:G3:30:G:O2'	21:G3:31:G:H5'	1.91	0.69
23:GB:162:THR:HB	23:GB:175:HIS:HB2	1.74	0.69
30:GI:69:VAL:HG23	1:H1:2377:G:O2'	1.93	0.69
34:GM:31:TYR:O	34:GM:35:ARG:HG2	1.92	0.69
37:GP:26:ARG:O	37:GP:29:ARG:HG3	1.91	0.69
1:H1:2651:A:H2'	1:H1:2652:G:C8	2.28	0.69
24:GC:107:PHE:HE2	1:H1:686:U:C1'	2.05	0.69
5:HE:125:ASN:OD1	5:HE:128:ASN:N	2.23	0.69
7:HG:13:LYS:O	7:HG:17:VAL:HG23	1.92	0.69
19:HX:13:THR:HG22	19:HX:14:LEU:HD23	1.72	0.69
1:A1:1091:G:H4'	1:A1:1092:C:OP2	1.91	0.69
1:A1:1215:U:H3	1:A1:1344:A:H62	1.40	0.69
1:A1:1382:A:H4'	1:A1:1383:G:O5'	1.90	0.69
1:A1:1537:U:H5'	1:A1:1538:U:C5	2.26	0.69
1:A1:1745:U:O4	36:BO:128:LYS:NZ	2.25	0.69
1:A1:2343:A:C3'	1:A1:2344:U:H5''	2.22	0.69
1:A1:2786:C:H5''	1:A1:2787:A:OP1	1.92	0.69
1:A1:3263:G:H4'	1:A1:3264:U:O5'	1.92	0.69
1:A1:660:C:H2'	45:BX:43:ARG:HH22	1.57	0.69
1:A1:832:A:C2	1:A1:2406:U:O2'	2.43	0.69
1:A1:933:G:H4'	1:A1:934:G:H5''	1.74	0.69
6:AF:6:PHE:O	6:AF:11:ARG:HD3	1.92	0.69
8:AH:15:TRP:CD1	8:AH:105:ARG:HG2	2.27	0.69
24:BC:272:THR:HG22	24:BC:273:TYR:N	2.06	0.69
25:BD:101:ASN:HD21	25:BD:130:VAL:HG13	1.57	0.69
35:BN:52:ARG:CB	35:BN:84:THR:HG21	2.04	0.69
22:CA:12:ARG:HH21	22:CA:14:ASN:HD22	1.39	0.69
22:CA:118:GLU:OE2	22:CA:164:ARG:HD2	1.92	0.69
25:CD:29:LYS:HA	25:CD:32:LYS:HD2	1.74	0.69
29:CH:193:ASP:CB	1:D1:1037:A:H1'	2.22	0.69
32:CK:118:LEU:CB	32:CK:141:VAL:HG21	2.22	0.69
43:CV:86:ILE:HG22	43:CV:214:LYS:HE3	1.73	0.69
37:CP:116:LYS:NZ	1:D1:1124:G:C8	2.60	0.69
1:D1:1213:G:N3	19:DX:126:GLY:HA3	2.06	0.69
1:D1:2264:U:H2'	1:D1:2264:U:O2	1.91	0.69
1:D1:2961:G:C3'	1:D1:2962:U:H5''	2.22	0.69
1:D1:2964:A:N1	50:D1:4283:HOH:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:46:A:H4'	1:D1:47:G:O5'	1.91	0.69
22:CA:16:VAL:CG2	1:D1:936:C:H5''	2.23	0.69
2:DA:21:ARG:CD	2:DA:44:MET:HE1	2.23	0.69
19:DX:7:GLN:HE22	19:DX:80:GLU:HB3	1.58	0.69
39:ER:84:MET:HE2	39:ER:144:ALA:HB2	1.74	0.69
39:ER:43:LEU:CD1	1:F1:1599:G:H5''	2.23	0.69
1:F1:2330:G:OP2	50:F1:4308:HOH:O	2.08	0.69
1:F1:546:A:H2'	1:F1:547:U:C6	2.27	0.69
45:EX:43:ARG:NH2	1:F1:660:C:H2'	2.08	0.69
1:F1:832:A:N6	1:F1:959:G:H1	1.90	0.69
14:FO:69:LYS:HG2	14:FO:70:VAL:N	2.06	0.69
14:FO:62:LEU:HD11	14:FO:97:ARG:HG2	1.74	0.69
29:GH:48:TYR:CE2	29:GH:142:GLU:HG3	2.27	0.69
33:GL:19:MET:HE2	33:GL:22:ILE:HD12	1.73	0.69
34:GM:59:ARG:HB2	34:GM:81:TYR:CE2	2.27	0.69
1:H1:10:A:H2'	1:H1:11:A:C8	2.27	0.69
1:H1:2177:A:H2'	1:H1:2178:A:H5''	1.73	0.69
1:H1:2356:A:H5'	1:H1:2356:A:H8	1.57	0.69
27:GF:233:LYS:HG2	1:H1:2522:A:H1'	1.73	0.69
26:GE:154:GLN:NE2	1:H1:3115:C:H1'	2.06	0.69
1:H1:348:A:H4'	1:H1:349:C:OP2	1.92	0.69
1:H1:866:A:H8	1:H1:866:A:H5''	1.57	0.69
2:HA:26:THR:HG22	2:HA:35:ALA:HB3	1.73	0.69
6:HF:13:VAL:HG21	6:HF:27:ILE:HD11	1.73	0.69
8:HH:84:ASN:O	8:HH:86:VAL:HG23	1.92	0.69
32:GK:99:VAL:O	18:HU:164:LYS:HB3	1.92	0.69
19:HX:113:LEU:HD11	19:HX:140:THR:HG21	1.74	0.69
1:A1:1130:A:H2	1:A1:1390:A:O2'	1.74	0.69
1:A1:2154:A:OP2	22:BA:157:LYS:NZ	2.21	0.69
5:AE:47:PRO:O	5:AE:101:LYS:HE3	1.92	0.69
5:AE:135:THR:HG22	5:AE:136:GLU:H	1.56	0.69
1:A1:1618:A:H5''	11:AL:62:ALA:HB2	1.74	0.69
12:AM:66:ASN:HD21	12:AM:68:GLN:HE21	1.41	0.69
19:AX:94:LYS:HG2	19:AX:136:GLN:HB3	1.75	0.69
23:BB:119:TYR:CE2	23:BB:122:TRP:HZ3	2.09	0.69
21:B3:11:A:O5'	34:BM:18:THR:HG21	1.91	0.69
1:D1:2356:A:H8	1:D1:2356:A:H5'	1.56	0.69
1:D1:274:U:O4	50:D1:3862:HOH:O	2.10	0.69
23:CB:377:PHE:CD2	1:D1:3325:G:N2	2.60	0.69
1:D1:563:G:C4'	1:D1:564:A:OP1	2.40	0.69
24:CC:319:ARG:HH22	1:D1:620:A:H8	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:107:PHE:CE2	1:D1:686:U:H1'	2.23	0.69
7:DG:43:PHE:CE1	7:DG:68:HIS:CD2	2.80	0.69
13:DN:23:ALA:HB1	13:DN:43:VAL:HG12	1.73	0.69
24:EC:276:THR:CG2	24:EC:277:GLY:N	2.55	0.69
38:EQ:34:VAL:HG22	38:EQ:60:ILE:CD1	2.21	0.69
40:ES:84:ILE:O	40:ES:96:ILE:HD12	1.91	0.69
41:ET:54:THR:HG22	41:ET:56:ALA:H	1.57	0.69
1:F1:2309:U:H4'	1:F1:2310:G:OP2	1.92	0.69
1:F1:2439:C:H2'	1:F1:2440:A:C8	2.26	0.69
7:FG:13:LYS:O	7:FG:17:VAL:HG23	1.92	0.69
1:F1:3155:A:N6	8:FH:98:GLN:O	2.25	0.69
25:GD:65:MET:HE1	1:H1:2670:U:H4'	1.72	0.69
33:GL:26:ARG:HB3	33:GL:30:TYR:CE1	2.24	0.69
35:GN:45:PHE:CE2	35:GN:49:ILE:HD11	2.27	0.69
1:H1:186:U:N3	1:H1:230:G:O6	2.25	0.69
1:H1:2542:U:C4'	1:H1:2543:C:OP1	2.40	0.69
24:GC:240:ARG:NH2	1:H1:712:G:H4'	2.08	0.69
1:H1:738:U:OP1	18:HU:182:ARG:NH1	2.24	0.69
13:HN:7:TYR:CE2	13:HN:94:LYS:HG3	2.28	0.69
14:HO:62:LEU:HD11	14:HO:97:ARG:HG2	1.74	0.69
1:A1:2415:C:H2'	1:A1:2416:U:C5'	2.22	0.69
1:A1:2902:G:OP2	50:A1:4584:HOH:O	2.10	0.69
1:A1:2933:G:N3	1:A1:2933:G:H5''	2.07	0.69
1:A1:47:G:O6	50:A1:3735:HOH:O	2.08	0.69
5:AE:18:TRP:HB2	14:AO:95:ARG:HH21	1.58	0.69
19:AX:36:PRO:HD2	37:BP:142:GLN:O	1.92	0.69
21:B3:53:U:H4'	21:B3:54:A:O5'	1.92	0.69
1:A1:698:G:O2'	24:BC:123:ASN:ND2	2.22	0.69
29:BH:34:TYR:CZ	29:BH:92:HIS:ND1	2.61	0.69
18:AU:90:SER:O	42:BU:120:PHE:HE2	1.75	0.69
35:BN:4:ASP:OD1	43:BV:106:ARG:HD3	1.92	0.69
22:CA:195:LYS:HG3	22:CA:195:LYS:O	1.91	0.69
23:CB:54:THR:CG2	23:CB:55:HIS:N	2.56	0.69
24:CC:164:GLU:OE2	24:CC:259:THR:HG21	1.92	0.69
29:CH:166:VAL:HG11	37:CP:157:PHE:CD2	2.28	0.69
37:CP:26:ARG:O	37:CP:29:ARG:HG3	1.92	0.69
1:D1:1107:A:H3'	1:D1:1108:A:H8	1.57	0.69
1:D1:1376:A:H4'	1:D1:1377:A:OP2	1.91	0.69
1:D1:2249:U:H3	1:D1:2257:A:H61	1.38	0.69
1:D1:232:C:H4'	1:D1:233:G:OP2	1.91	0.69
1:D1:2369:C:O2	1:D1:2369:C:H2'	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2396:A:N6	50:D1:4364:HOH:O	2.26	0.69
23:CB:325:CYS:HB2	1:D1:3036:U:O2'	1.93	0.69
5:DE:135:THR:HG22	5:DE:136:GLU:H	1.57	0.69
12:DM:77:TYR:HE1	12:DM:81:LEU:HD21	1.56	0.69
15:DP:4:GLU:OE1	15:DP:54:LYS:HE2	1.92	0.69
21:E3:27:A:OP2	34:EM:56:THR:HG23	1.92	0.69
27:EF:68:PRO:HD3	27:EF:225:TRP:HE1	1.58	0.69
39:ER:94:VAL:HG11	39:ER:103:ILE:HD11	1.73	0.69
43:EV:104:ARG:HD2	1:F1:1128:G:H5''	1.74	0.69
1:F1:1594:C:H2'	1:F1:1595:A:H5'	1.74	0.69
23:EB:253:TRP:CE3	1:F1:2929:A:C8	2.80	0.69
1:F1:639:U:O2'	1:F1:640:G:H5'	1.92	0.69
30:EI:196:PHE:CD1	6:FF:111:VAL:HG22	2.27	0.69
17:FT:16:SER:O	50:FT:204:HOH:O	2.09	0.69
21:G3:2:U:H4'	34:GM:278:TYR:CZ	2.28	0.69
24:GC:215:VAL:CG1	24:GC:238:VAL:HG22	2.18	0.69
30:GI:53:PHE:CD2	30:GI:144:VAL:HG21	2.27	0.69
34:GM:19:LYS:HE3	1:H1:2677:U:O4	1.91	0.69
37:GP:19:TYR:CE2	1:H1:1077:U:H4'	2.27	0.69
1:H1:1130:A:C5'	1:H1:1131:G:OP2	2.40	0.69
1:H1:1181:A:C4'	1:H1:1182:C:OP2	2.39	0.69
1:H1:1361:U:H5'	1:H1:1361:U:H6	1.57	0.69
1:H1:1752:G:C5'	1:H1:1754:G:H5''	2.22	0.69
1:H1:2731:C:H4'	4:HC:18:HIS:HD2	1.58	0.69
1:A1:1446:C:H5'	1:A1:1446:C:C6	2.27	0.69
1:A1:2270:A:H5''	1:A1:2271:G:OP2	1.92	0.69
1:A1:2377:G:O2'	30:BI:69:VAL:HG23	1.93	0.69
1:A1:620:A:H8	24:BC:319:ARG:HH22	1.38	0.69
8:AH:13:ARG:HG2	8:AH:15:TRP:CZ3	2.27	0.69
19:AX:176:LYS:HE2	19:AX:177:TYR:CZ	2.27	0.69
36:BO:114:LYS:O	36:BO:146:LYS:HE2	1.91	0.69
20:B2:77:U:O4	40:BS:71:GLN:NE2	2.24	0.69
1:A1:1197:A:O3'	43:BV:215:ARG:NH2	2.25	0.69
25:CD:19:ILE:HG21	25:CD:125:MET:HE1	1.75	0.69
37:CP:19:TYR:CE2	1:D1:1077:U:H4'	2.28	0.69
38:CQ:103:ASN:HD21	1:D1:388:A:C2'	2.05	0.69
1:D1:1011:U:OP1	50:D1:4332:HOH:O	2.11	0.69
1:D1:1215:U:H3	1:D1:1344:A:N6	1.90	0.69
1:D1:2295:G:P	50:D1:4630:HOH:O	2.51	0.69
1:D1:787:U:O2	18:DU:179:ARG:NH2	2.25	0.69
2:DA:21:ARG:NH1	2:DA:44:MET:HE1	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:DN:25:ILE:HG23	13:DN:41:VAL:HG13	1.73	0.69
25:ED:99:THR:HG23	1:F1:2673:C:O2'	1.93	0.69
32:EK:36:LYS:HB2	1:F1:94:A:OP2	1.93	0.69
37:EP:19:TYR:HE1	37:EP:20:LYS:HE3	1.58	0.69
1:F1:1186:A:H2'	1:F1:1186:A:N3	2.08	0.69
1:F1:2703:G:H4'	1:F1:2704:A:H5'	1.75	0.69
1:F1:1773:G:OP2	15:FP:41:LYS:NZ	2.24	0.69
21:G3:1:G:H4'	34:GM:275:LYS:NZ	2.08	0.69
32:GK:19:HIS:CD2	32:GK:25:HIS:HB2	2.26	0.69
36:GO:145:SER:O	36:GO:149:LYS:HB2	1.92	0.69
46:GY:4:ARG:NH2	1:H1:863:G:O6	2.25	0.69
45:GX:45:ARG:NH2	1:H1:1171:U:OP2	2.25	0.69
1:H1:2548:G:O2'	1:H1:2549:U:OP1	2.09	0.69
2:HA:8:PHE:O	2:HA:11:ARG:HG3	1.93	0.69
5:HE:173:TYR:CE2	6:HF:106:PHE:HA	2.27	0.69
6:HF:13:VAL:HG11	6:HF:53:VAL:CG2	2.22	0.69
31:GJ:139:SER:HB3	9:HJ:102:SER:H	1.57	0.69
10:HK:103:LEU:HD13	10:HK:110:CYS:HA	1.74	0.69
13:HN:24:VAL:HG23	13:HN:138:PHE:HE1	1.55	0.69
1:A1:116:U:O2	1:A1:119:A:H5''	1.93	0.69
1:A1:1505:C:OP1	50:A1:4139:HOH:O	2.10	0.69
1:A1:2308:A:P	50:A1:4538:HOH:O	2.49	0.69
1:A1:790:C:C4'	1:A1:791:C:OP1	2.41	0.69
1:A1:904:U:O2'	1:A1:905:G:OP2	2.08	0.69
15:AP:60:ILE:O	15:AP:64:ILE:HG13	1.92	0.69
29:BH:38:ARG:HD3	29:BH:41:ALA:HB2	1.74	0.69
34:BM:213:MET:HB3	34:BM:224:PHE:HE1	1.57	0.69
43:BV:211:PHE:HB3	43:BV:223:ASP:OD2	1.92	0.69
34:CM:179:ARG:HE	34:CM:185:ARG:NH2	1.90	0.69
34:CM:59:ARG:HD3	34:CM:61:ILE:HG12	1.73	0.69
35:CN:2:ALA:HB2	1:D1:1186:A:H3'	1.74	0.69
29:CH:118:ALA:HB3	1:D1:1153:G:O2'	1.93	0.69
1:D1:2961:G:H2'	1:D1:2962:U:H5''	1.75	0.69
1:D1:284:U:C5	1:D1:305:A:C5'	2.75	0.69
1:D1:628:A:H4'	1:D1:629:A:OP2	1.92	0.69
1:D1:655:A:H2'	1:D1:656:C:C6	2.28	0.69
23:EB:2:SER:HB3	1:F1:2931:G:C8	2.28	0.69
23:EB:36:ASP:OD1	23:EB:38:SER:N	2.25	0.69
25:ED:101:ASN:ND2	25:ED:130:VAL:HG13	2.07	0.69
27:EF:71:HIS:CE1	27:EF:226:GLY:HA3	2.28	0.69
30:EI:101:LEU:HD12	30:EI:102:LYS:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:14:LYS:HZ1	1:F1:268:G:C5'	2.04	0.69
34:EM:213:MET:HB3	34:EM:224:PHE:HE1	1.56	0.69
34:EM:283:THR:HG22	34:EM:285:ALA:H	1.58	0.69
1:F1:1049:U:H2'	1:F1:1050:C:C6	2.28	0.69
1:F1:1376:A:H4'	1:F1:1377:A:OP2	1.91	0.69
1:F1:1425:U:H4'	1:F1:1426:G:OP1	1.92	0.69
1:F1:2149:U:H2'	1:F1:2150:U:C5'	2.23	0.69
1:F1:2600:U:H2'	1:F1:2601:U:C6	2.27	0.69
1:F1:2651:A:OP1	50:F1:4466:HOH:O	2.09	0.69
1:F1:3112:A:H2'	1:F1:3113:G:H5'	1.75	0.69
1:F1:3307:A:H61	1:F1:3312:C:H42	1.40	0.69
6:FF:2:VAL:HG12	6:FF:3:PHE:H	1.57	0.69
12:FM:55:ASN:HD22	12:FM:71:ILE:HD11	1.57	0.69
23:GB:277:ASN:HD21	23:GB:343:GLN:HE21	1.38	0.69
28:GG:8:UNK:HG3	1:H1:1248:G:C2	2.23	0.69
31:GJ:87:ARG:HD2	31:GJ:88:PRO:HD2	1.75	0.69
1:H1:1376:A:H4'	1:H1:1377:A:OP2	1.91	0.69
1:H1:2365:G:N7	50:H1:3733:HOH:O	2.24	0.69
1:H1:170:A:H61	1:H1:249:G:H1'	1.56	0.69
1:H1:3165:A:H2'	1:H1:3166:A:H8	1.57	0.69
1:H1:633:C:H2'	1:H1:634:G:OP1	1.91	0.69
6:HF:12:VAL:HB	6:HF:58:PHE:HB2	1.75	0.69
1:A1:126:A:H2	1:A1:141:C:N4	1.91	0.69
1:A1:2364:G:H2'	1:A1:2365:G:C8	2.28	0.69
1:A1:338:C:H5''	1:A1:338:C:H6	1.57	0.69
7:AG:43:PHE:CE1	7:AG:68:HIS:CD2	2.81	0.69
11:AL:73:THR:HG22	11:AL:74:VAL:H	1.57	0.69
1:A1:452:U:C5'	14:AO:56:GLN:NE2	2.43	0.69
15:AP:31:VAL:HG22	15:AP:44:LEU:CD2	2.23	0.69
1:A1:738:U:OP1	18:AU:182:ARG:NH1	2.25	0.69
18:AU:22:THR:HG23	18:AU:24:PHE:HD1	1.56	0.69
18:AU:56:VAL:CG1	18:AU:57:ARG:H	2.05	0.69
23:BB:294:THR:HG22	23:BB:295:ALA:N	2.07	0.69
46:BY:64:ILE:CD1	46:BY:71:LEU:HD11	2.22	0.69
24:CC:214:VAL:HG21	24:CC:227:LEU:CD1	2.23	0.69
1:D1:1366:C:H2'	1:D1:1367:A:H8	1.56	0.69
1:D1:1379:G:OP2	14:DO:102:GLY:N	2.26	0.69
1:D1:2703:G:H4'	1:D1:2704:A:H5'	1.75	0.69
33:CL:169:ARG:NH2	1:D1:62:G:OP2	2.25	0.69
5:DE:42:ARG:HH12	8:DH:111:ASN:ND2	1.90	0.69
21:E3:4:G:H4'	21:E3:26:C:C4'	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:E3:53:U:H4'	21:E3:54:A:O5'	1.91	0.69
22:EA:195:LYS:O	22:EA:195:LYS:HG3	1.92	0.69
23:EB:170:ARG:NH1	1:F1:3273:U:O2	2.26	0.69
24:EC:107:PHE:HE1	1:F1:827:C:O2'	1.76	0.69
24:EC:272:THR:HG22	24:EC:273:TYR:N	2.08	0.69
34:EM:33:ARG:NH2	34:EM:72:ASP:OD2	2.26	0.69
1:F1:1227:A:H4'	1:F1:1228:C:O5'	1.92	0.69
1:F1:1640:C:H2'	1:F1:1641:U:H6	1.58	0.69
1:F1:2994:G:O2'	1:F1:2995:A:O5'	2.11	0.69
1:F1:363:G:H8	1:F1:363:G:H5'	1.58	0.69
5:FE:88:LYS:HG2	5:FE:90:VAL:HG23	1.74	0.69
22:GA:102:VAL:C	22:GA:103:LEU:HD23	2.12	0.69
23:GB:239:LYS:HG3	1:H1:899:U:OP2	1.93	0.69
24:GC:251:HIS:CD2	1:H1:1410:G:O2'	2.44	0.69
25:GD:65:MET:HE3	1:H1:2670:U:O4'	1.93	0.69
26:GE:38:PHE:CD2	26:GE:71:ILE:HG23	2.28	0.69
35:GN:93:LEU:O	35:GN:113:ARG:NH2	2.19	0.69
1:H1:19:A:H4'	1:H1:20:G:OP2	1.92	0.69
1:H1:2433:A:H2'	1:H1:2434:A:C8	2.28	0.69
1:H1:3232:A:N1	1:H1:3233:A:C2	2.61	0.69
1:H1:641:U:H2'	1:H1:642:C:H6	1.58	0.69
9:HJ:53:ILE:HA	9:HJ:80:GLU:OE1	1.91	0.69
19:HX:7:GLN:NE2	19:HX:80:GLU:HB3	2.07	0.69
1:A1:113:A:C2'	1:A1:114:A:OP1	2.40	0.69
1:A1:1334:G:C2	1:A1:1335:A:C2	2.81	0.69
1:A1:1662:A:H5'	11:AL:76:ARG:HH21	1.57	0.69
1:A1:2651:A:H2'	1:A1:2652:G:C8	2.27	0.69
1:A1:526:U:O2'	1:A1:527:A:H8	1.75	0.69
1:A1:548:G:H1	1:A1:619:G:H22	1.40	0.69
4:AC:27:LYS:N	4:AC:27:LYS:HD3	2.08	0.69
13:AN:16:GLY:N	13:AN:19:ALA:HB2	2.08	0.69
18:AU:124:PHE:HE2	18:AU:142:THR:HA	1.57	0.69
23:BB:93:ILE:HD11	23:BB:102:LEU:HD22	1.75	0.69
35:BN:45:PHE:HE1	35:BN:139:LEU:HB2	1.58	0.69
42:BU:32:LEU:O	42:BU:35:ALA:HB3	1.91	0.69
44:BW:19:CYS:HA	44:BW:22:ILE:HD12	1.75	0.69
20:C2:111:A:N1	2:DA:20:ARG:NH1	2.41	0.69
21:C3:11:A:O2'	21:C3:12:U:H3'	1.92	0.69
23:CB:145:LEU:O	23:CB:148:ARG:HB2	1.92	0.69
23:CB:58:ARG:NH1	23:CB:281:TYR:OH	2.25	0.69
26:CE:169:ASP:OD1	26:CE:171:ARG:HG3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:41:ALA:HB3	29:CH:139:ARG:NH2	2.07	0.69
34:CM:283:THR:HG22	34:CM:285:ALA:H	1.57	0.69
35:CN:16:VAL:CG1	35:CN:17:VAL:N	2.56	0.69
20:C2:98:A:OP1	42:CU:67:ARG:NH1	2.26	0.69
1:D1:1251:C:H1'	1:D1:1315:U:O2'	1.93	0.69
1:D1:2399:A:H2'	1:D1:2399:A:N3	2.08	0.69
5:DE:67:LYS:O	5:DE:75:LEU:HB2	1.93	0.69
8:DH:15:TRP:CD1	8:DH:105:ARG:HG2	2.28	0.69
23:EB:19:ARG:O	23:EB:271:HIS:HE1	1.75	0.69
30:EI:37:THR:OG1	30:EI:104:PHE:O	2.10	0.69
29:EH:15:LYS:HE3	1:F1:1152:U:OP1	1.93	0.69
1:F1:2919:C:N3	1:F1:2923:U:C5	2.60	0.69
1:F1:718:A:O2'	1:F1:719:C:H5'	1.93	0.69
11:FL:99:GLU:HA	11:FL:99:GLU:OE1	1.91	0.69
20:G2:2:G:O2'	1:H1:2983:A:H1'	1.92	0.69
24:GC:200:LYS:HZ3	1:H1:1445:G:H5''	1.58	0.69
27:GF:92:TYR:HE2	27:GF:123:ILE:HG21	1.58	0.69
32:GK:104:VAL:HG12	32:GK:109:PHE:HB2	1.73	0.69
32:GK:148:THR:HG22	32:GK:149:ALA:N	2.08	0.69
38:GQ:33:GLU:CD	38:GQ:63:THR:H	1.96	0.69
43:GV:215:ARG:NH2	1:H1:1197:A:O3'	2.26	0.69
1:H1:2839:A:OP2	50:H1:3993:HOH:O	2.09	0.69
1:H1:3251:C:H4'	1:H1:3252:G:OP2	1.92	0.69
1:H1:438:A:O3'	1:H1:439:A:C8	2.46	0.69
24:GC:126:ARG:HH21	1:H1:720:C:H5''	1.57	0.69
1:H1:756:C:H2'	1:H1:757:C:H5''	1.74	0.69
2:HA:17:THR:CG2	2:HA:18:LEU:N	2.56	0.69
5:HE:41:LEU:HD13	5:HE:45:ILE:CD1	2.18	0.69
10:HK:105:PRO:O	10:HK:106:LYS:HG2	1.92	0.69
1:A1:2100:A:H2'	1:A1:2101:G:C5'	2.20	0.69
1:A1:2994:G:O2'	1:A1:2995:A:H8	1.76	0.69
1:A1:635:A:O2'	5:AE:33:LEU:HD13	1.93	0.69
1:A1:704:G:H2'	1:A1:705:A:O4'	1.92	0.69
1:A1:713:G:O6	1:A1:716:A:OP1	2.11	0.69
7:AG:35:ARG:HH11	13:AN:77:LEU:HB2	1.58	0.69
13:AN:91:CYS:SG	13:AN:92:ASP:N	2.64	0.69
18:AU:164:LYS:HZ1	32:BK:100:PRO:HB3	1.52	0.69
20:B2:137:G:N2	33:BL:112:GLU:HG2	2.08	0.69
23:BB:58:ARG:NH1	23:BB:281:TYR:OH	2.26	0.69
32:BK:104:VAL:CG1	32:BK:109:PHE:HB2	2.22	0.69
32:BK:148:THR:HG22	32:BK:149:ALA:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:621:G:OP1	45:BX:9:LYS:HD2	1.92	0.69
21:C3:4:G:H4'	21:C3:26:C:C4'	2.23	0.69
23:CB:141:ALA:HA	23:CB:144:LEU:HD12	1.74	0.69
24:CC:65:MET:CE	24:CC:105:ARG:HH11	2.06	0.69
27:CF:46:ARG:HG3	1:D1:2518:A:H2'	1.74	0.69
47:CO:170:UNK:O	47:CO:174:UNK:HG3	1.92	0.69
37:CP:8:ARG:O	37:CP:11:THR:OG1	2.10	0.69
42:CU:118:ARG:HH11	18:DU:123:LEU:HD21	1.58	0.69
1:D1:1047:G:OP1	13:FN:3:LYS:CE	2.41	0.69
1:D1:1667:A:HO2'	1:D1:1668:A:P	2.15	0.69
1:D1:832:A:H2	1:D1:2406:U:HO2'	1.39	0.69
1:D1:2500:C:H2'	1:D1:2501:A:C8	2.26	0.69
4:DC:39:ARG:O	4:DC:43:MET:HG3	1.91	0.69
8:DH:13:ARG:HG2	8:DH:15:TRP:CZ3	2.27	0.69
23:EB:62:ARG:CG	23:EB:62:ARG:HH11	2.06	0.69
24:EC:195:ARG:HD3	24:EC:199:GLY:HA3	1.75	0.69
24:EC:240:ARG:O	24:EC:240:ARG:HG2	1.92	0.69
26:EE:169:ASP:OD1	26:EE:171:ARG:HG3	1.93	0.69
26:EE:38:PHE:CD2	26:EE:71:ILE:HG23	2.27	0.69
30:EI:37:THR:O	30:EI:40:ILE:HG13	1.92	0.69
32:EK:148:THR:HG22	32:EK:149:ALA:N	2.07	0.69
34:EM:179:ARG:HE	34:EM:185:ARG:NH2	1.88	0.69
43:EV:211:PHE:HB3	43:EV:223:ASP:OD2	1.93	0.69
1:F1:1173:A:H2'	1:F1:1174:G:H8	1.57	0.69
1:F1:1361:U:H6	1:F1:1361:U:H5'	1.58	0.69
1:F1:1373:G:H2'	1:F1:1374:C:H6	1.57	0.69
1:F1:1563:A:O2'	1:F1:1564:C:H5'	1.93	0.69
1:F1:1597:U:H2'	1:F1:1598:C:O4'	1.92	0.69
1:F1:186:U:N3	1:F1:230:G:O6	2.25	0.69
1:F1:2720:G:H2'	1:F1:2721:G:H5'	1.74	0.69
1:F1:34:C:O2	50:F1:3653:HOH:O	2.08	0.69
9:FJ:18:LYS:HE2	9:FJ:64:CYS:HA	1.74	0.69
21:G3:81:A:H2'	21:G3:82:G:H5''	1.75	0.69
21:G3:82:G:N7	50:G3:309:HOH:O	2.26	0.69
23:GB:294:THR:HG22	23:GB:295:ALA:N	2.08	0.69
30:GI:109:THR:HG23	30:GI:110:PRO:HD3	1.73	0.69
30:GI:37:THR:O	30:GI:40:ILE:HG13	1.93	0.69
24:GC:309:LYS:HG2	35:GN:40:ARG:O	1.92	0.69
45:GX:36:ARG:NH2	1:H1:1395:U:OP1	2.26	0.69
1:H1:1134:C:C2'	1:H1:1135:U:H5''	2.23	0.69
23:GB:378:PHE:CG	1:H1:3325:G:N2	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:711:U:H3	1:H1:718:A:N6	1.91	0.69
1:H1:615:G:N2	8:HH:79:LYS:CE	2.56	0.69
12:HM:55:ASN:HD22	12:HM:71:ILE:HD11	1.58	0.69
1:A1:146:U:O2	1:A1:148:G:C2	2.47	0.68
1:A1:1517:G:OP2	50:A1:4402:HOH:O	2.11	0.68
1:A1:2574:U:C4'	1:A1:2575:G:OP1	2.41	0.68
1:A1:2994:G:O2'	1:A1:2995:A:O5'	2.12	0.68
23:BB:376:LYS:HZ2	9:DJ:44:PRO:CD	2.04	0.68
26:BE:45:ILE:HA	26:BE:55:LEU:HD23	1.74	0.68
30:BI:10:ALA:HB1	30:BI:40:ILE:HG12	1.74	0.68
31:BJ:90:ARG:HB2	31:BJ:96:PHE:CE2	2.28	0.68
18:AU:164:LYS:CD	32:BK:100:PRO:HA	2.23	0.68
44:BW:54:LEU:HD22	44:BW:92:VAL:HG12	1.76	0.68
29:CH:48:TYR:CE2	29:CH:142:GLU:HG3	2.28	0.68
32:CK:19:HIS:CD2	32:CK:25:HIS:HB2	2.27	0.68
33:CL:120:TRP:CH2	33:CL:122:GLY:HA2	2.28	0.68
35:CN:82:VAL:CG2	35:CN:127:LEU:HD11	2.22	0.68
41:CT:5:THR:CG2	41:CT:14:ARG:HG3	2.23	0.68
42:CU:120:PHE:HE2	18:DU:90:SER:O	1.76	0.68
1:D1:1090:A:O2'	1:D1:1091:G:OP1	2.08	0.68
1:D1:1130:A:H2	1:D1:1390:A:O2'	1.75	0.68
1:D1:1173:A:H2'	1:D1:1174:G:H8	1.57	0.68
39:CR:77:THR:HG21	1:D1:1546:G:O3'	1.93	0.68
1:D1:243:G:H5'	1:D1:243:G:C8	2.28	0.68
1:D1:639:U:O2'	1:D1:640:G:H5'	1.93	0.68
1:D1:74:G:H4'	1:D1:75:A:OP1	1.93	0.68
1:D1:972:U:H2'	1:D1:973:C:H6	1.58	0.68
6:DF:15:ILE:HD12	6:DF:43:ILE:HD13	1.73	0.68
11:DL:98:GLU:OE1	11:DL:101:LYS:HD2	1.93	0.68
46:CY:61:LYS:NZ	11:DL:49:CYS:O	2.18	0.68
14:DO:118:ASN:O	14:DO:122:GLN:HG2	1.93	0.68
18:DU:100:LYS:CE	18:DU:102:ARG:HH21	2.06	0.68
19:DX:83:LEU:HD22	19:DX:111:VAL:HG12	1.75	0.68
24:EC:170:LYS:HE3	1:F1:209:A:OP2	1.93	0.68
34:EM:283:THR:HB	34:EM:286:GLN:HG3	1.74	0.68
35:EN:16:VAL:CG1	35:EN:17:VAL:N	2.54	0.68
37:EP:152:VAL:HG22	19:FX:138:ILE:HD13	1.74	0.68
1:F1:1091:G:H4'	1:F1:1092:C:OP2	1.91	0.68
1:F1:1492:G:H2'	1:F1:1493:A:H5''	1.75	0.68
1:F1:2369:C:H2'	1:F1:2369:C:O2	1.91	0.68
6:FF:12:VAL:HB	6:FF:58:PHE:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FN:24:VAL:HG23	13:FN:138:PHE:HE1	1.56	0.68
24:GC:311:ALA:N	35:GN:40:ARG:NH2	2.41	0.68
44:GW:14:ASN:OD1	44:GW:17:LYS:HG3	1.93	0.68
1:H1:1049:U:C4	1:H1:1050:C:C4	2.80	0.68
1:H1:1149:U:C2'	1:H1:1150:U:H5'	2.22	0.68
1:H1:559:G:O2'	1:H1:560:A:H5'	1.92	0.68
35:GN:44:LYS:HD3	1:H1:754:A:OP1	1.93	0.68
1:H1:861:A:N6	1:H1:882:G:H1'	2.08	0.68
18:HU:56:VAL:CG1	18:HU:57:ARG:N	2.56	0.68
1:A1:1562:G:N7	50:A1:4044:HOH:O	2.25	0.68
1:A1:2109:G:O6	50:A1:4541:HOH:O	2.09	0.68
1:A1:2369:C:H2'	1:A1:2369:C:O2	1.94	0.68
1:A1:2600:U:H2'	1:A1:2601:U:C6	2.28	0.68
1:A1:2692:A:OP2	34:BM:23:ARG:NH1	2.25	0.68
1:A1:3081:C:C5	31:BJ:16:LYS:NZ	2.60	0.68
1:A1:911:C:O2'	1:A1:912:G:H5'	1.93	0.68
9:AJ:145:ASN:HD22	9:AJ:146:VAL:N	1.90	0.68
18:AU:100:LYS:CE	18:AU:102:ARG:HH21	2.06	0.68
30:BI:127:ARG:NH2	50:BI:201:HOH:O	1.99	0.68
32:BK:104:VAL:HG12	32:BK:109:PHE:HB2	1.73	0.68
34:BM:122:GLN:NE2	34:BM:126:ASP:OD2	2.26	0.68
35:BN:16:VAL:CG1	35:BN:17:VAL:N	2.57	0.68
37:BP:41:ASP:OD1	37:BP:61:THR:OG1	2.08	0.68
38:BQ:33:GLU:OE2	38:BQ:64:ARG:N	2.26	0.68
1:A1:2340:A:OP1	44:BW:23:SER:HB3	1.92	0.68
23:CB:117:ARG:HA	23:CB:173:LYS:HE3	1.76	0.68
24:CC:89:THR:HG22	24:CC:91:ARG:N	2.08	0.68
31:CJ:83:ILE:HG23	31:CJ:122:VAL:HG13	1.75	0.68
46:CY:10:ILE:CG2	1:D1:862:A:H4'	2.22	0.68
1:D1:1049:U:C4	1:D1:1050:C:C4	2.81	0.68
1:D1:528:C:H5'	1:D1:528:C:H6	1.56	0.68
1:D1:621:G:H21	1:D1:634:G:H5''	1.56	0.68
15:DP:60:ILE:O	15:DP:64:ILE:HG13	1.94	0.68
19:DX:94:LYS:HG2	19:DX:136:GLN:HB3	1.74	0.68
23:EB:375:ASP:HB3	23:EB:380:ARG:O	1.93	0.68
29:EH:193:ASP:CB	1:F1:1036:G:H21	2.04	0.68
1:F1:615:G:H21	8:FH:79:LYS:CE	2.06	0.68
2:FA:17:THR:CG2	2:FA:18:LEU:H	2.07	0.68
5:FE:173:TYR:CE2	6:FF:106:PHE:HA	2.28	0.68
8:FH:59:ILE:HG13	8:FH:59:ILE:O	1.93	0.68
20:G2:38:C:H4'	2:HA:71:ILE:CD1	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:G3:13:A:OP1	21:G3:109:U:O2'	2.12	0.68
23:GB:141:ALA:HA	23:GB:144:LEU:HD12	1.73	0.68
24:GC:89:THR:HG22	24:GC:91:ARG:N	2.06	0.68
1:H1:1869:G:O2'	2:HA:5:THR:HG22	1.93	0.68
1:H1:2263:U:C3'	1:H1:2264:U:H5''	2.23	0.68
1:H1:2500:C:H2'	1:H1:2501:A:H8	1.58	0.68
1:H1:284:U:H5	1:H1:305:A:C5'	2.03	0.68
1:H1:2961:G:H2'	1:H1:2962:U:H5''	1.73	0.68
2:HA:67:TYR:CE2	2:HA:71:ILE:HD11	2.28	0.68
1:A1:1446:C:H5'	1:A1:1446:C:H6	1.59	0.68
1:A1:170:A:H61	1:A1:249:G:H1'	1.56	0.68
1:A1:2307:A:H3'	50:A1:4536:HOH:O	1.94	0.68
1:A1:279:U:C2	1:A1:281:G:OP2	2.46	0.68
1:A1:279:U:N3	1:A1:281:G:OP2	2.25	0.68
1:A1:373:A:H4'	1:A1:374:A:OP1	1.92	0.68
18:AU:128:GLN:OE1	18:AU:139:THR:OG1	2.10	0.68
32:BK:119:PRO:HG3	35:BN:94:LEU:CD1	2.24	0.68
39:BR:73:THR:HG23	42:BU:37:ILE:CD1	2.24	0.68
41:BT:37:LYS:HE3	41:BT:53:TRP:CZ2	2.29	0.68
45:BX:16:THR:O	50:BX:206:HOH:O	2.12	0.68
30:CI:69:VAL:HG23	1:D1:2377:G:O2'	1.93	0.68
38:CQ:39:LYS:HE2	38:CQ:119:GLY:H	1.58	0.68
1:D1:752:C:H5'	1:D1:1002:A:C2	2.28	0.68
1:D1:373:A:H4'	1:D1:374:A:OP1	1.91	0.68
1:D1:462:G:H2'	1:D1:463:U:C6	2.27	0.68
1:D1:1753:A:N6	7:DG:47:ASN:O	2.24	0.68
9:DJ:18:LYS:HE2	9:DJ:64:CYS:HA	1.75	0.68
11:DL:5:ILE:HD11	11:DL:22:LYS:HG2	1.76	0.68
1:D1:1239:G:N3	19:DX:128:HIS:HE1	1.90	0.68
19:DX:7:GLN:NE2	19:DX:80:GLU:HB3	2.08	0.68
22:EA:12:ARG:HH21	22:EA:14:ASN:HD22	1.41	0.68
23:EB:113:ASN:CB	23:EB:174:ASN:HD21	2.06	0.68
23:EB:192:PHE:O	23:EB:195:SER:OG	2.09	0.68
23:EB:294:THR:HG22	23:EB:295:ALA:N	2.08	0.68
30:EI:53:PHE:CD2	30:EI:144:VAL:HG21	2.28	0.68
32:EK:78:ASP:N	32:EK:78:ASP:OD1	2.26	0.68
36:EO:56:VAL:HG23	1:F1:1897:U:OP1	1.93	0.68
43:EV:206:THR:HG21	1:F1:1195:U:O4'	1.94	0.68
1:F1:3275:A:O2'	1:F1:3276:C:OP2	2.11	0.68
1:F1:861:A:H1'	1:F1:883:A:C2	2.28	0.68
2:FA:17:THR:HA	3:FB:52:TYR:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:39:GLU:HB3	9:FJ:43:VAL:HG23	1.76	0.68
20:G2:27:G:H8	20:G2:27:G:H5'	1.58	0.68
27:GF:171:ALA:HB2	27:GF:211:PHE:CE1	2.28	0.68
43:GV:100:LEU:CD2	43:GV:127:VAL:HG11	2.21	0.68
1:H1:284:U:C5	1:H1:305:A:C5'	2.77	0.68
1:H1:3157:C:H4'	1:H1:3158:G:C5'	2.23	0.68
1:H1:514:U:H2'	1:H1:515:A:H8	1.58	0.68
5:HE:80:TYR:HD2	5:HE:86:PRO:HB3	1.58	0.68
9:HJ:18:LYS:HE2	9:HJ:64:CYS:HA	1.73	0.68
13:HN:10:VAL:HG12	13:HN:85:TYR:O	1.93	0.68
15:HP:31:VAL:HG22	15:HP:44:LEU:CD2	2.23	0.68
1:A1:1104:C:C2	17:AT:42:ASN:ND2	2.61	0.68
1:A1:2330:G:P	50:A1:4464:HOH:O	2.51	0.68
1:A1:2741:U:H4'	1:A1:2742:G:OP2	1.92	0.68
1:A1:462:G:H2'	1:A1:463:U:C6	2.28	0.68
5:AE:41:LEU:HA	5:AE:92:GLN:NE2	2.08	0.68
9:AJ:35:TYR:O	9:AJ:39:GLU:HG3	1.92	0.68
24:BC:82:PRO:CB	24:BC:96:ALA:HB3	2.24	0.68
27:BF:20:PRO:HB2	27:BF:22:PHE:HD2	1.58	0.68
43:BV:98:ARG:HG3	43:BV:98:ARG:HH11	1.58	0.68
45:BX:69:LEU:HB3	45:BX:70:PRO:HD2	1.75	0.68
20:C2:41:U:C2	42:CU:93:ARG:NH2	2.61	0.68
43:CV:96:VAL:HG22	43:CV:126:ARG:HG3	1.74	0.68
1:D1:1512:G:N7	50:D1:4495:HOH:O	2.26	0.68
1:D1:2919:C:N3	1:D1:2923:U:C5	2.60	0.68
35:CN:57:ARG:NH1	1:D1:697:A:OP2	2.24	0.68
1:D1:704:G:H2'	1:D1:705:A:O4'	1.93	0.68
1:D1:895:A:OP1	50:D1:4197:HOH:O	2.10	0.68
1:D1:1234:G:P	10:DK:119:ASN:HD21	2.16	0.68
13:DN:7:TYR:CE2	13:DN:94:LYS:HG3	2.29	0.68
20:E2:114:G:H3'	20:E2:114:G:H8	1.59	0.68
20:E2:86:G:N1	40:ES:111:ASP:OD2	2.26	0.68
21:E3:27:A:H2'	21:E3:28:C:C6	2.29	0.68
29:EH:193:ASP:HB2	1:F1:1036:G:N2	2.05	0.68
30:EI:113:ARG:NH1	1:F1:3162:A:H61	1.90	0.68
31:EJ:87:ARG:HD2	31:EJ:88:PRO:HD2	1.76	0.68
32:EK:14:HIS:O	32:EK:15:VAL:HG22	1.94	0.68
38:EQ:8:ARG:NH1	38:EQ:117:GLN:HG3	2.08	0.68
1:F1:1002:A:C2	1:F1:1004:U:H5''	2.28	0.68
1:F1:1234:G:OP1	10:FK:119:ASN:ND2	2.20	0.68
22:EA:208:VAL:HG22	1:F1:2410:C:H5'	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:243:G:H8	1:F1:243:G:H5'	1.58	0.68
29:EH:15:LYS:NZ	1:F1:2624:A:OP2	2.26	0.68
1:F1:2994:G:O2'	1:F1:2995:A:P	2.51	0.68
1:F1:846:C:C2'	1:F1:847:G:H5''	2.23	0.68
6:FF:6:PHE:O	6:FF:11:ARG:HD3	1.92	0.68
1:F1:3237:C:H41	8:FH:10:ALA:CA	2.06	0.68
32:GK:91:LYS:HE2	32:GK:92:TYR:CZ	2.28	0.68
35:GN:18:ARG:HD3	35:GN:54:SER:O	1.93	0.68
38:GQ:141:TYR:CE1	1:H1:2350:G:H4'	2.28	0.68
43:GV:117:ASN:O	43:GV:121:LEU:HB2	1.94	0.68
1:H1:1215:U:H3	1:H1:1344:A:H62	1.40	0.68
1:H1:126:A:H2	1:H1:141:C:N4	1.91	0.68
1:H1:238:G:H5'	2:HA:86:ALA:HB3	1.75	0.68
1:H1:2920:U:C2	1:H1:2923:U:C5	2.80	0.68
1:H1:3234:U:O2'	8:HH:105:ARG:NH1	2.26	0.68
1:H1:3307:A:H61	1:H1:3312:C:H42	1.40	0.68
1:H1:435:A:H2'	1:H1:435:A:N3	2.08	0.68
5:HE:173:TYR:CG	6:HF:106:PHE:HD1	2.12	0.68
14:HO:100:SER:OG	14:HO:103:LEU:HG	1.93	0.68
18:HU:128:GLN:OE1	18:HU:139:THR:OG1	2.11	0.68
1:A1:1308:U:H5''	28:BG:58:UNK:CA	2.24	0.68
1:A1:1442:G:OP1	50:A1:3866:HOH:O	2.11	0.68
1:A1:1563:A:O2'	1:A1:1564:C:H5'	1.93	0.68
1:A1:2500:C:H2'	1:A1:2501:A:H8	1.56	0.68
1:A1:284:U:H1'	50:A1:3836:HOH:O	1.93	0.68
1:A1:2920:U:C2	1:A1:2923:U:C5	2.82	0.68
1:A1:3167:U:C4'	1:A1:3168:A:O5'	2.41	0.68
1:A1:3185:G:C4	1:A1:3237:C:N3	2.62	0.68
1:A1:438:A:O3'	1:A1:439:A:H8	1.77	0.68
1:A1:756:C:H2'	1:A1:757:C:H5''	1.75	0.68
9:AJ:53:ILE:HA	9:AJ:80:GLU:OE1	1.92	0.68
9:AJ:70:LEU:HB3	9:AJ:94:VAL:HG22	1.75	0.68
13:AN:7:TYR:CE2	13:AN:94:LYS:HG3	2.28	0.68
19:AX:180:VAL:HG13	19:AX:181:TYR:CD1	2.27	0.68
26:BE:88:PHE:CD1	26:BE:182:LYS:HA	2.28	0.68
27:BF:127:TYR:C	27:BF:127:TYR:CD1	2.66	0.68
27:BF:71:HIS:CE1	27:BF:226:GLY:HA3	2.28	0.68
29:BH:48:TYR:CE1	29:BH:178:ARG:CZ	2.77	0.68
30:BI:53:PHE:CD2	30:BI:144:VAL:HG21	2.28	0.68
33:BL:120:TRP:CH2	33:BL:122:GLY:HA2	2.29	0.68
34:BM:166:ALA:CB	34:BM:173:ILE:HD11	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:74:VAL:HG12	37:BP:75:ILE:N	2.08	0.68
41:BT:54:THR:HG22	41:BT:56:ALA:H	1.58	0.68
20:C2:75:A:OP2	40:CS:51:LYS:HB3	1.93	0.68
32:CK:14:HIS:O	32:CK:15:VAL:HG22	1.93	0.68
34:CM:213:MET:HB3	34:CM:224:PHE:HE1	1.58	0.68
1:D1:1164:C:O2	50:D1:4337:HOH:O	2.10	0.68
1:D1:1446:C:C5'	1:D1:1446:C:H6	2.06	0.68
1:D1:1752:G:H5'	1:D1:1754:G:C5'	2.21	0.68
27:CF:43:ARG:NH1	1:D1:2521:A:C2	2.61	0.68
22:EA:216:ASN:ND2	1:F1:2957:A:N7	2.41	0.68
34:EM:243:VAL:HG12	34:EM:247:PHE:HD2	1.58	0.68
35:EN:52:ARG:HB2	35:EN:84:THR:CG2	2.05	0.68
1:F1:1251:C:H1'	1:F1:1315:U:O2'	1.94	0.68
1:F1:1460:G:OP2	50:F1:3830:HOH:O	2.09	0.68
1:F1:524:G:O2'	1:F1:525:C:OP2	2.11	0.68
45:EX:43:ARG:HH22	1:F1:660:C:H2'	1.57	0.68
1:F1:790:C:C4'	1:F1:791:C:OP1	2.41	0.68
20:G2:26:A:H3'	20:G2:27:G:H5''	1.75	0.68
23:GB:192:PHE:O	23:GB:195:SER:OG	2.09	0.68
25:GD:29:LYS:HA	25:GD:32:LYS:HD2	1.75	0.68
32:GK:104:VAL:CG1	32:GK:109:PHE:HB2	2.23	0.68
34:GM:34:LYS:O	34:GM:38:ILE:HG23	1.93	0.68
40:GS:55:VAL:HG11	40:GS:103:LEU:HD13	1.74	0.68
1:H1:1249:G:O2'	1:H1:1250:A:O5'	2.11	0.68
1:H1:1430:G:H5'	1:H1:1431:U:OP2	1.93	0.68
1:H1:1434:G:H2'	1:H1:1435:C:H5'	1.74	0.68
1:H1:165:C:H5''	18:HU:132:LYS:NZ	2.07	0.68
1:H1:1956:A:H2'	1:H1:1957:A:H5'	1.76	0.68
1:H1:795:G:O2'	1:H1:796:A:H8	1.72	0.68
1:H1:897:A:O2'	1:H1:898:C:H5'	1.93	0.68
3:HB:28:ARG:NE	3:HB:36:ARG:O	2.27	0.68
5:HE:49:THR:HG22	5:HE:50:VAL:N	2.09	0.68
8:HH:58:TYR:HA	8:HH:104:LEU:HD22	1.74	0.68
1:A1:2500:C:H2'	1:A1:2501:A:C8	2.29	0.68
1:A1:2276:A:H1'	1:A1:2962:U:O2'	1.94	0.68
1:A1:348:A:H4'	1:A1:349:C:OP2	1.94	0.68
5:AE:67:LYS:O	5:AE:75:LEU:HB2	1.93	0.68
6:AF:15:ILE:HD12	6:AF:43:ILE:HD13	1.76	0.68
8:AH:58:TYR:HA	8:AH:104:LEU:HD22	1.74	0.68
20:B2:105:A:H5''	20:B2:106:A:H8	1.58	0.68
23:BB:62:ARG:CG	23:BB:62:ARG:HH11	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:210:ASP:HA	34:BM:213:MET:HG3	1.74	0.68
24:CC:115:ARG:NH2	1:D1:816:A:OP1	2.27	0.68
24:CC:309:LYS:HG2	35:CN:40:ARG:O	1.93	0.68
27:CF:127:TYR:CD1	27:CF:127:TYR:C	2.66	0.68
1:D1:1004:U:C6	1:D1:1004:U:H5'	2.16	0.68
1:D1:186:U:N3	1:D1:230:G:O6	2.27	0.68
1:D1:637:U:H2'	1:D1:638:U:C6	2.27	0.68
8:DH:15:TRP:NE1	8:DH:105:ARG:HG2	2.09	0.68
11:DL:99:GLU:OE1	11:DL:99:GLU:HA	1.94	0.68
22:EA:118:GLU:OE2	22:EA:164:ARG:HD2	1.92	0.68
22:EA:180:ILE:O	1:F1:2145:A:H4'	1.94	0.68
24:EC:298:ILE:CD1	35:EN:125:ASP:HB2	2.23	0.68
24:EC:312:GLY:O	1:F1:1373:G:H4'	1.93	0.68
32:EK:91:LYS:HE2	32:EK:92:TYR:CZ	2.27	0.68
44:EW:59:TRP:CZ3	44:EW:63:ILE:HG12	2.28	0.68
46:EY:12:ARG:NH1	1:F1:1951:G:O2'	2.25	0.68
1:F1:1097:G:N2	1:F1:1117:U:H1'	2.09	0.68
45:EX:80:ASN:HD22	1:F1:1413:G:H4'	1.59	0.68
46:CY:28:LYS:CE	1:F1:2252:C:OP1	2.41	0.68
1:F1:2540:G:H5''	1:F1:2541:U:OP2	1.94	0.68
1:F1:2574:U:C4'	1:F1:2575:G:OP1	2.41	0.68
32:EK:44:ARG:NH2	1:F1:2788:G:N7	2.42	0.68
23:EB:325:CYS:HB2	1:F1:3036:U:O2'	1.94	0.68
1:F1:718:A:H2'	1:F1:719:C:C6	2.28	0.68
1:F1:810:G:H3'	1:F1:811:A:C8	2.29	0.68
3:FB:9:MET:HB3	3:FB:13:PHE:HE2	1.59	0.68
6:FF:15:ILE:HD12	6:FF:43:ILE:HD13	1.76	0.68
23:GB:377:PHE:HD2	23:GB:378:PHE:CE1	2.11	0.68
23:GB:49:PHE:CE2	23:GB:333:VAL:HG12	2.29	0.68
28:GG:8:UNK:CG	1:H1:1248:G:C2	2.74	0.68
31:GJ:11:VAL:O	31:GJ:11:VAL:HG12	1.92	0.68
1:H1:1162:A:OP2	17:HT:5:LYS:NZ	2.24	0.68
1:H1:1175:G:N7	50:H1:3740:HOH:O	2.25	0.68
1:H1:2324:A:H8	1:H1:2324:A:H5''	1.58	0.68
1:H1:250:U:H5'	1:H1:251:A:OP2	1.94	0.68
1:H1:2678:A:H1'	1:H1:2691:A:H62	1.58	0.68
1:H1:2961:G:C3'	1:H1:2962:U:H5''	2.22	0.68
1:H1:3275:A:C2'	1:H1:3276:C:OP2	2.41	0.68
1:H1:619:G:C4'	1:H1:620:A:H2	2.07	0.68
1:H1:752:C:H5'	1:H1:1002:A:C2	2.28	0.68
6:HF:45:ARG:NH2	6:HF:67:GLN:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1252:A:C2	1:A1:3105:G:N7	2.62	0.68
1:A1:3206:A:H5'	23:BB:97:ARG:HH21	1.58	0.68
1:A1:3268:C:O2	38:BQ:71:ARG:HD2	1.93	0.68
1:A1:54:G:OP2	50:A1:3720:HOH:O	2.10	0.68
4:AC:26:TYR:CB	4:AC:67:ALA:HB3	2.24	0.68
19:AX:66:LYS:NZ	21:B3:98:G:OP2	2.21	0.68
30:BI:109:THR:HG23	30:BI:110:PRO:CD	2.24	0.68
31:BJ:46:ILE:HD11	31:BJ:54:PRO:HB3	1.74	0.68
34:CM:163:LEU:HD12	34:CM:173:ILE:HG21	1.76	0.68
43:CV:194:GLU:OE1	43:CV:194:GLU:N	2.22	0.68
1:D1:363:G:C5'	1:D1:363:G:H8	2.06	0.68
5:DE:179:THR:HG22	5:DE:180:LEU:O	1.93	0.68
1:D1:3237:C:H41	8:DH:10:ALA:HA	1.59	0.68
24:EC:82:PRO:CB	24:EC:96:ALA:HB3	2.23	0.68
30:EI:69:VAL:HG23	1:F1:2377:G:O2'	1.93	0.68
21:E3:11:A:O5'	34:EM:18:THR:HG21	1.94	0.68
1:F1:2392:A:O2'	50:F1:4143:HOH:O	2.12	0.68
1:F1:2433:A:H2'	1:F1:2434:A:C8	2.28	0.68
1:F1:672:C:O2'	50:F1:3821:HOH:O	2.11	0.68
22:GA:12:ARG:HH21	22:GA:14:ASN:HD22	1.39	0.68
22:GA:38:ARG:O	22:GA:93:LEU:HG	1.93	0.68
23:GB:119:TYR:CD2	23:GB:122:TRP:HZ3	2.12	0.68
23:GB:58:ARG:NH1	23:GB:281:TYR:OH	2.27	0.68
30:GI:109:THR:HG23	30:GI:110:PRO:CD	2.24	0.68
32:GK:21:ARG:HG3	1:H1:1396:A:H4'	1.75	0.68
34:GM:283:THR:HG22	34:GM:285:ALA:H	1.58	0.68
39:GR:84:MET:HE2	39:GR:144:ALA:HB2	1.74	0.68
6:HF:28:VAL:HG12	6:HF:66:ASN:H	1.58	0.68
1:A1:1435:C:H5'	1:A1:1435:C:H6	1.58	0.68
1:A1:1457:G:OP2	32:BK:9:ARG:NH2	2.21	0.68
1:A1:2884:A:O3'	10:AK:122:ARG:NH2	2.27	0.68
1:A1:2961:G:H2'	1:A1:2962:U:H5''	1.76	0.68
1:A1:3232:A:C6	1:A1:3233:A:C2	2.81	0.68
1:A1:864:C:N4	46:BY:4:ARG:NH2	2.41	0.68
15:AP:12:MET:O	15:AP:16:GLN:HG2	1.93	0.68
1:A1:1146:C:H42	17:AT:10:LYS:HZ1	1.41	0.68
19:AX:167:LYS:HG2	19:AX:188:THR:HG21	1.76	0.68
19:AX:7:GLN:HE22	19:AX:80:GLU:HB3	1.59	0.68
23:BB:375:ASP:HB3	23:BB:380:ARG:O	1.93	0.68
24:BC:223:LEU:O	24:BC:227:LEU:HG	1.93	0.68
1:A1:2633:C:O2'	29:BH:116:ARG:O	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:114:THR:HB	23:CB:161:HIS:CD2	2.27	0.68
24:CC:230:ILE:O	24:CC:233:VAL:HG22	1.94	0.68
27:CF:121:LYS:HD3	1:D1:118:A:C5	2.29	0.68
35:CN:158:GLN:HA	50:D1:4779:HOH:O	1.93	0.68
37:CP:68:ASN:HB3	37:CP:69:PRO:HD2	1.75	0.68
43:CV:98:ARG:CD	1:D1:1010:G:H2'	2.24	0.68
1:D1:1002:A:C2	1:D1:1004:U:H5''	2.27	0.68
1:D1:1600:U:C4	1:D1:1601:U:C4	2.82	0.68
1:D1:1711:U:H1'	12:DM:77:TYR:CE2	2.29	0.68
1:D1:2352:A:H2'	1:D1:2353:C:H6	1.57	0.68
1:D1:2385:A:H2'	1:D1:2386:G:O5'	1.94	0.68
1:D1:2718:U:P	50:D1:4781:HOH:O	2.50	0.68
1:D1:2732:G:H2'	1:D1:2733:C:C6	2.29	0.68
1:D1:2906:G:C2'	1:D1:2907:A:H5''	2.22	0.68
1:D1:3251:C:H4'	1:D1:3252:G:OP2	1.93	0.68
35:CN:92:ARG:HH21	1:D1:809:A:H4'	1.56	0.68
7:DG:13:LYS:O	7:DG:17:VAL:HG23	1.94	0.68
8:DH:84:ASN:O	8:DH:86:VAL:HG23	1.94	0.68
20:E2:27:G:H8	20:E2:27:G:H5'	1.58	0.68
24:EC:287:ARG:HD2	35:EN:111:ARG:HH12	1.58	0.68
26:EE:42:SER:O	1:F1:3168:A:C4	2.47	0.68
40:ES:86:LYS:HG3	40:ES:96:ILE:HD11	1.76	0.68
42:EU:123:LYS:HZ3	18:FU:144:SER:HB2	1.54	0.68
1:F1:113:A:C2'	1:F1:114:A:OP1	2.42	0.68
1:F1:1210:C:O2'	19:FX:13:THR:HG21	1.92	0.68
1:F1:851:G:HO2'	1:F1:1614:A:H8	1.42	0.68
22:EA:2:GLY:HA2	1:F1:2597:G:OP1	1.94	0.68
1:F1:438:A:O3'	1:F1:439:A:C8	2.46	0.68
1:F1:462:G:H2'	1:F1:463:U:C6	2.28	0.68
1:F1:897:A:C2'	1:F1:898:C:H5'	2.23	0.68
1:F1:941:G:H5'	1:F1:942:A:OP1	1.93	0.68
19:FX:16:MET:CE	19:FX:121:ILE:HD12	2.24	0.68
45:GX:42:ASN:HD22	45:GX:45:ARG:N	1.86	0.68
1:H1:1051:C:H2'	1:H1:1052:A:C8	2.29	0.68
28:GG:81:UNK:CG	1:H1:1308:U:C2'	2.70	0.68
1:H1:1334:G:C2	1:H1:1335:A:C2	2.82	0.68
7:AG:11:GLN:CD	1:H1:2249:U:O3'	2.32	0.68
1:H1:2343:A:H3'	1:H1:2344:U:H5''	1.75	0.68
1:H1:2344:U:C6	1:H1:2344:U:H5'	2.28	0.68
1:H1:243:G:H5'	1:H1:243:G:H8	1.58	0.68
1:H1:25:C:H1'	1:H1:327:U:H1'	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2890:A:OP2	50:H1:4280:HOH:O	2.10	0.68
1:H1:282:G:N2	1:H1:304:U:O4'	2.26	0.68
1:H1:3112:A:H2'	1:H1:3113:G:H5'	1.75	0.68
1:H1:519:A:H5''	14:HO:89:ARG:HH11	1.59	0.68
1:H1:605:C:H1'	19:HX:6:ALA:HB2	1.75	0.68
1:H1:621:G:H21	1:H1:634:G:H5''	1.58	0.68
8:HH:15:TRP:NE1	8:HH:105:ARG:HG2	2.08	0.68
19:HX:176:LYS:HE2	19:HX:177:TYR:CZ	2.29	0.68
1:A1:1234:G:OP1	10:AK:119:ASN:ND2	2.25	0.68
1:A1:1446:C:H6	1:A1:1446:C:C5'	2.07	0.68
1:A1:2149:U:H2'	1:A1:2150:U:C5'	2.24	0.68
1:A1:2581:G:H4'	1:A1:2583:C:C2	2.29	0.68
1:A1:3162:A:H61	30:BI:113:ARG:NH1	1.92	0.68
6:AF:3:PHE:HD1	19:AX:164:PRO:HB3	1.56	0.68
16:AQ:9:ILE:CD1	18:AU:187:ASN:HB3	2.19	0.68
30:BI:109:THR:HG23	30:BI:110:PRO:HD3	1.75	0.68
33:BL:26:ARG:HB3	33:BL:30:TYR:CE1	2.25	0.68
24:CC:125:LYS:O	24:CC:129:VAL:HG23	1.94	0.68
24:CC:163:VAL:CG2	24:CC:175:PHE:HE2	2.06	0.68
31:CJ:90:ARG:HB2	31:CJ:96:PHE:CE2	2.29	0.68
34:CM:163:LEU:HD21	34:CM:175:HIS:CB	2.23	0.68
1:D1:1566:U:H2'	1:D1:1567:A:C8	2.28	0.68
1:D1:2180:G:O2'	50:D1:4289:HOH:O	2.12	0.68
1:D1:438:A:O3'	1:D1:439:A:H8	1.77	0.68
3:DB:3:ALA:O	3:DB:5:LYS:HE2	1.93	0.68
22:EA:128:SER:O	22:EA:128:SER:OG	2.12	0.68
23:EB:58:ARG:NH1	23:EB:281:TYR:OH	2.27	0.68
29:EH:38:ARG:HD3	29:EH:41:ALA:HB2	1.75	0.68
34:EM:181:PRO:HD2	34:EM:200:HIS:CE1	2.28	0.68
43:EV:98:ARG:CD	1:F1:1010:G:H2'	2.24	0.68
1:F1:2275:A:OP1	50:F1:4341:HOH:O	2.11	0.68
1:F1:257:G:C2'	1:F1:258:A:H5'	2.24	0.68
1:F1:2961:G:C3'	1:F1:2962:U:H5''	2.24	0.68
1:F1:978:G:C8	1:F1:1144:G:C8	2.82	0.68
9:FJ:63:THR:HG22	9:FJ:72:VAL:HA	1.75	0.68
15:FP:31:VAL:HG22	15:FP:44:LEU:CD2	2.24	0.68
23:GB:119:TYR:CE2	23:GB:122:TRP:HZ3	2.11	0.68
26:GE:88:PHE:CD1	26:GE:182:LYS:HA	2.28	0.68
26:GE:45:ILE:HA	26:GE:55:LEU:HD23	1.75	0.68
27:GF:122:PRO:CG	1:H1:119:A:H2	2.06	0.68
27:GF:132:ILE:O	27:GF:136:ILE:HG13	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:GF:75:LYS:O	27:GF:172:PHE:HB2	1.94	0.68
34:GM:210:ASP:HA	34:GM:213:MET:HG3	1.74	0.68
1:H1:1027:G:O2'	1:H1:1028:A:P	2.51	0.68
26:GE:171:ARG:NH2	1:H1:2886:G:OP1	2.27	0.68
1:H1:528:C:H6	1:H1:528:C:H5'	1.57	0.68
1:H1:579:G:H1'	19:HX:158:ASN:CA	2.23	0.68
1:H1:625:C:O2'	1:H1:626:C:H5'	1.94	0.68
1:H1:810:G:H3'	1:H1:811:A:C8	2.29	0.68
10:HK:99:CYS:O	10:HK:100:TYR:HB2	1.93	0.68
1:A1:111:C:OP1	33:BL:147:ARG:NH2	2.27	0.68
1:A1:1600:U:C4	1:A1:1601:U:C4	2.81	0.68
1:A1:2101:G:C5	50:A1:4513:HOH:O	2.42	0.68
1:A1:2719:A:H2'	1:A1:2720:G:H8	1.58	0.68
1:A1:2871:U:O2'	23:BB:259:ARG:NH1	2.27	0.68
1:A1:546:A:H2'	1:A1:547:U:C6	2.29	0.68
20:B2:88:G:O2'	20:B2:89:A:O5'	2.12	0.68
22:BA:253:GLU:OE2	22:GA:252:LYS:HG3	1.94	0.68
1:A1:1185:A:H5''	43:BV:88:GLY:HA3	1.75	0.68
45:BX:98:ILE:H	45:BX:123:ASN:HD21	1.42	0.68
20:C2:137:G:OP2	50:C2:308:HOH:O	2.12	0.68
23:CB:93:ILE:HD11	23:CB:102:LEU:HD22	1.76	0.68
38:CQ:131:THR:HG23	1:D1:1533:G:N2	2.08	0.68
1:D1:1597:U:H2'	1:D1:1598:C:H6	1.56	0.68
1:D1:1655:A:C2	1:D1:1669:G:C6	2.82	0.68
1:D1:2251:A:C2'	1:D1:2252:C:OP2	2.42	0.68
1:D1:2330:G:P	50:D1:4596:HOH:O	2.51	0.68
1:D1:2718:U:O5'	50:D1:4779:HOH:O	2.10	0.68
1:D1:279:U:C2	1:D1:281:G:OP2	2.47	0.68
1:D1:31:G:OP2	50:D1:3730:HOH:O	2.12	0.68
1:D1:751:C:H5'	1:D1:751:C:H6	1.59	0.68
1:D1:775:C:O2	1:D1:775:C:H2'	1.92	0.68
1:D1:795:G:O2'	1:D1:796:A:H8	1.77	0.68
1:D1:832:A:C2	1:D1:2406:U:O2'	2.47	0.68
6:DF:2:VAL:HG12	6:DF:3:PHE:H	1.57	0.68
9:DJ:140:THR:HG22	9:DJ:141:THR:N	2.08	0.68
10:DK:99:CYS:O	10:DK:100:TYR:HB2	1.94	0.68
12:DM:66:ASN:HD21	12:DM:68:GLN:HE21	1.42	0.68
21:E3:81:A:H2'	21:E3:82:G:C5'	2.24	0.68
22:EA:254:LYS:O	22:EA:258:LYS:HG3	1.93	0.68
23:EB:162:THR:CG2	23:EB:175:HIS:HD2	2.06	0.68
34:EM:166:ALA:CB	34:EM:173:ILE:HD11	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:163:LEU:HD12	34:EM:173:ILE:HG21	1.76	0.68
46:EY:26:VAL:HG12	46:EY:30:GLU:HG3	1.76	0.68
1:F1:1090:A:H4'	1:F1:1091:G:O5'	1.94	0.68
1:F1:2177:A:H2'	1:F1:2178:A:H5''	1.75	0.68
1:F1:1252:A:C2	1:F1:3105:G:N7	2.61	0.68
1:F1:373:A:H4'	1:F1:374:A:OP1	1.93	0.68
1:F1:46:A:H4'	1:F1:47:G:O5'	1.94	0.68
1:F1:633:C:H2'	1:F1:634:G:OP1	1.93	0.68
1:F1:74:G:H4'	1:F1:75:A:OP1	1.93	0.68
3:FB:3:ALA:O	3:FB:5:LYS:HE2	1.94	0.68
2:FA:14:LYS:HZ2	3:FB:52:TYR:HE1	1.40	0.68
11:FL:41:TYR:HA	11:FL:58:GLN:HG2	1.76	0.68
11:FL:98:GLU:OE1	11:FL:101:LYS:HD2	1.94	0.68
26:GE:7:GLU:CD	26:GE:54:LYS:HE2	2.14	0.68
27:GF:131:HIS:CE1	1:H1:117:G:C4	2.82	0.68
27:GF:71:HIS:CE1	27:GF:226:GLY:HA3	2.28	0.68
34:GM:250:VAL:O	34:GM:254:ILE:HG13	1.94	0.68
41:GT:35:THR:HG22	41:GT:37:LYS:N	2.08	0.68
37:GP:116:LYS:NZ	1:H1:1124:G:C8	2.62	0.68
1:H1:1191:G:H2'	1:H1:1192:A:H8	1.59	0.68
1:H1:1361:U:H6	1:H1:1361:U:C5'	2.07	0.68
23:GB:2:SER:HB2	1:H1:2931:G:OP2	1.93	0.68
1:H1:2961:G:C2'	1:H1:2962:U:H5''	2.24	0.68
24:GC:107:PHE:CE2	1:H1:686:U:H1'	2.29	0.68
4:HC:70:PHE:CE2	4:HC:81:ILE:HD12	2.29	0.68
37:GP:146:ASN:HB3	19:HX:39:LEU:HD23	1.76	0.68
1:A1:1114:C:C2'	1:A1:1115:U:H5'	2.22	0.67
1:A1:11:A:H2'	1:A1:12:A:C8	2.29	0.67
1:A1:3011:G:N2	1:A1:3020:G:C4	2.62	0.67
1:A1:1235:U:H2'	10:AK:109:ASN:ND2	2.09	0.67
11:AL:41:TYR:HA	11:AL:58:GLN:HG2	1.76	0.67
14:AO:75:THR:HG23	24:BC:150:SER:O	1.93	0.67
21:B3:47:C:O2'	34:BM:227:GLN:NE2	2.26	0.67
27:BF:171:ALA:HB2	27:BF:211:PHE:CE1	2.28	0.67
40:BS:86:LYS:HG3	40:BS:96:ILE:HD11	1.76	0.67
24:CC:107:PHE:HE1	1:D1:827:C:O2'	1.76	0.67
34:CM:180:PHE:CD1	34:CM:200:HIS:CE1	2.82	0.67
1:D1:3185:G:C4	1:D1:3237:C:N3	2.62	0.67
1:D1:3275:A:C2'	1:D1:3276:C:OP2	2.42	0.67
1:D1:3331:C:H4'	1:D1:3332:A:H5''	1.75	0.67
1:D1:643:A:O2'	5:DE:131:LYS:HE2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DE:41:LEU:HD13	5:DE:45:ILE:HG21	1.76	0.67
45:CX:77:LEU:H	14:DO:19:ASN:HD21	1.41	0.67
26:EE:132:ILE:HG12	26:EE:144:LEU:HD22	1.76	0.67
29:EH:48:TYR:CE1	29:EH:178:ARG:CZ	2.76	0.67
46:EY:45:VAL:CG2	46:EY:45:VAL:O	2.42	0.67
1:F1:1026:C:H4'	1:F1:1027:G:O5'	1.92	0.67
1:F1:1185:A:HO2'	1:F1:1357:A:H2	1.42	0.67
1:F1:1926:G:OP1	50:F1:4330:HOH:O	2.12	0.67
1:F1:2256:G:H3'	1:F1:2257:A:H5'	1.75	0.67
1:F1:2703:G:H2'	1:F1:2740:G:H21	1.59	0.67
32:EK:59:GLY:HA2	1:F1:2775:G:O3'	1.93	0.67
1:F1:2932:U:OP2	50:F1:4030:HOH:O	2.12	0.67
23:EB:20:ARG:HB2	1:F1:2979:A:OP1	1.95	0.67
21:E3:93:G:H4'	19:FX:96:GLN:NE2	2.09	0.67
21:G3:53:U:H4'	21:G3:54:A:O5'	1.92	0.67
35:GN:92:ARG:CZ	1:H1:810:G:N7	2.57	0.67
34:GM:41:LYS:NZ	37:GP:30:TYR:O	2.24	0.67
1:H1:1052:A:C2	1:H1:1053:A:C5	2.82	0.67
1:H1:113:A:C2'	1:H1:114:A:OP1	2.41	0.67
1:H1:1758:U:C4'	1:H1:1759:C:OP2	2.42	0.67
22:GA:2:GLY:HA2	1:H1:2597:G:OP1	1.94	0.67
1:H1:2839:A:OP1	50:H1:3990:HOH:O	2.10	0.67
35:GN:141:ARG:HD3	1:H1:768:A:H1'	1.77	0.67
11:HL:41:TYR:HA	11:HL:58:GLN:HG2	1.74	0.67
13:HN:10:VAL:O	13:HN:83:THR:HB	1.94	0.67
1:A1:1107:A:C8	34:BM:142:PHE:CD1	2.83	0.67
1:A1:1478:A:H5'	1:A1:1479:A:OP1	1.94	0.67
1:A1:2324:A:H5''	1:A1:2324:A:H8	1.58	0.67
3:AB:32:ASP:N	3:AB:32:ASP:OD1	2.26	0.67
22:BA:195:LYS:HG3	22:BA:195:LYS:O	1.93	0.67
29:BH:41:ALA:HB3	29:BH:139:ARG:NH2	2.09	0.67
32:BK:81:TRP:HZ2	32:BK:123:VAL:HG22	1.57	0.67
34:BM:179:ARG:HE	34:BM:185:ARG:NH2	1.91	0.67
34:BM:31:TYR:O	34:BM:35:ARG:HG2	1.94	0.67
38:BQ:62:PHE:CE1	38:BQ:84:ARG:HB2	2.29	0.67
43:BV:86:ILE:HG22	43:BV:214:LYS:HE3	1.74	0.67
21:C3:8:G:P	34:CM:33:ARG:NH1	2.61	0.67
23:CB:62:ARG:CG	23:CB:62:ARG:HH11	2.08	0.67
31:CJ:87:ARG:HD2	31:CJ:88:PRO:HD2	1.76	0.67
34:CM:181:PRO:HD2	34:CM:200:HIS:CE1	2.28	0.67
1:D1:1361:U:H6	1:D1:1361:U:H5'	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2371:G:O2'	1:D1:2372:G:H8	1.77	0.67
1:D1:2574:U:C4'	1:D1:2575:G:OP1	2.42	0.67
1:D1:3227:A:C5'	5:DE:57:ARG:NH1	2.50	0.67
1:D1:790:C:C4'	1:D1:791:C:OP1	2.41	0.67
5:DE:80:TYR:CD2	5:DE:86:PRO:HB3	2.29	0.67
5:DE:88:LYS:HG2	5:DE:90:VAL:HG23	1.76	0.67
9:DJ:35:TYR:O	9:DJ:39:GLU:HG3	1.94	0.67
14:DO:62:LEU:HD11	14:DO:97:ARG:HG2	1.75	0.67
19:DX:176:LYS:HE2	19:DX:177:TYR:CZ	2.28	0.67
22:EA:115:CYS:HB2	22:EA:166:THR:HB	1.75	0.67
23:EB:382:ARG:O	23:EB:386:VAL:HG23	1.94	0.67
32:EK:104:VAL:CG1	32:EK:109:PHE:HB2	2.24	0.67
1:F1:2347:A:N7	50:F1:4400:HOH:O	2.27	0.67
34:EM:23:ARG:NH1	1:F1:2692:A:OP2	2.27	0.67
1:F1:282:G:H22	1:F1:304:U:H5'	1.58	0.67
1:F1:362:G:C3'	1:F1:363:G:H5''	2.24	0.67
5:FE:41:LEU:HD13	5:FE:45:ILE:HG21	1.76	0.67
5:FE:80:TYR:CD2	5:FE:86:PRO:HB3	2.29	0.67
8:FH:84:ASN:O	8:FH:86:VAL:HG23	1.94	0.67
19:FX:16:MET:CE	19:FX:18:VAL:HG22	2.24	0.67
20:G2:114:G:H3'	20:G2:114:G:H8	1.59	0.67
21:G3:4:G:H4'	21:G3:26:C:C4'	2.23	0.67
23:GB:114:THR:HB	23:GB:161:HIS:CD2	2.29	0.67
29:GH:92:HIS:HD2	1:H1:1070:U:H1'	1.59	0.67
45:GX:78:ILE:HB	45:GX:98:ILE:HA	1.77	0.67
1:H1:1655:A:C2	1:H1:1669:G:C6	2.83	0.67
40:GS:46:SER:HB3	1:H1:225:C:H5''	1.76	0.67
1:H1:861:A:H1'	1:H1:883:A:C2	2.29	0.67
1:H1:1235:U:H2'	10:HK:109:ASN:ND2	2.10	0.67
1:H1:73:G:OP1	18:HU:56:VAL:HG11	1.94	0.67
19:HX:167:LYS:HG2	19:HX:188:THR:HG21	1.75	0.67
1:A1:1035:A:H5'	1:A1:1035:A:H8	1.59	0.67
1:A1:1090:A:H4'	1:A1:1091:G:O5'	1.95	0.67
1:A1:1373:G:H2'	1:A1:1374:C:H6	1.58	0.67
1:A1:3109:C:H3'	10:AK:111:ARG:HH11	1.53	0.67
1:A1:820:G:H2'	1:A1:821:U:H5'	1.76	0.67
5:AE:80:TYR:CD2	5:AE:86:PRO:HB3	2.29	0.67
9:AJ:63:THR:HG22	9:AJ:72:VAL:HA	1.76	0.67
14:AO:49:ALA:HB3	14:AO:61:SER:HB2	1.76	0.67
6:AF:45:ARG:NH1	19:AX:84:ASN:HB3	2.09	0.67
23:BB:377:PHE:HD2	23:BB:378:PHE:CE1	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:131:SER:OG	22:CA:175:ARG:NH1	2.26	0.67
22:CA:180:ILE:O	1:D1:2145:A:H4'	1.95	0.67
22:CA:35:PHE:CD1	1:D1:2520:G:H2'	2.29	0.67
23:CB:120:LYS:HD2	1:D1:3257:U:OP1	1.94	0.67
23:CB:20:ARG:HB2	1:D1:2979:A:OP1	1.93	0.67
24:CC:65:MET:HE3	24:CC:105:ARG:CD	2.22	0.67
24:CC:157:TYR:HD1	24:CC:159:PHE:CE1	2.12	0.67
27:CF:171:ALA:HB2	27:CF:211:PHE:CE1	2.29	0.67
28:CG:109:UNK:HG3	28:CG:111:UNK:HG3	1.76	0.67
29:CH:48:TYR:CE1	29:CH:178:ARG:CZ	2.77	0.67
30:CI:57:LEU:HA	30:CI:71:HIS:ND1	2.10	0.67
31:CJ:83:ILE:HD11	31:CJ:105:VAL:HG23	1.77	0.67
32:CK:148:THR:HG22	32:CK:149:ALA:N	2.08	0.67
33:CL:30:TYR:CD2	33:CL:63:ARG:HD3	2.29	0.67
44:CW:19:CYS:HA	44:CW:22:ILE:HD12	1.74	0.67
1:D1:1132:U:H6	1:D1:1132:U:O5'	1.77	0.67
43:CV:91:GLN:HG2	1:D1:1167:G:H5'	1.76	0.67
1:D1:1376:A:H5''	1:D1:1377:A:C4'	2.25	0.67
23:CB:238:LYS:HE3	1:D1:2332:C:OP2	1.95	0.67
1:D1:2380:U:H2'	1:D1:2380:U:O2	1.94	0.67
1:D1:3307:A:H61	1:D1:3312:C:H42	1.41	0.67
1:D1:842:A:H8	2:DA:15:THR:HG23	1.59	0.67
13:DN:11:VAL:HG12	13:DN:82:PRO:HA	1.75	0.67
20:E2:107:C:H4'	20:E2:108:G:O5'	1.94	0.67
30:EI:158:LYS:HD3	30:EI:158:LYS:C	2.15	0.67
34:EM:277:PHE:O	34:EM:279:PRO:HD3	1.94	0.67
35:EN:92:ARG:CZ	1:F1:810:G:C8	2.77	0.67
41:ET:14:ARG:NH1	9:HJ:44:PRO:HB3	2.10	0.67
1:F1:2416:U:H2'	1:F1:2417:C:O4'	1.93	0.67
1:F1:2786:C:H5''	1:F1:2787:A:OP1	1.95	0.67
1:F1:2952:G:N2	1:F1:2955:A:OP2	2.27	0.67
1:F1:3151:G:OP1	8:FH:64:LYS:HG3	1.93	0.67
1:F1:852:A:H5''	11:FL:14:ASN:O	1.94	0.67
4:FC:26:TYR:CB	4:FC:67:ALA:HB3	2.24	0.67
23:GB:384:LYS:O	23:GB:387:GLU:HG2	1.95	0.67
25:GD:78:ASP:O	25:GD:81:THR:HB	1.94	0.67
2:HA:14:LYS:HZ2	3:HB:52:TYR:HE1	1.42	0.67
9:HJ:99:GLU:HG3	9:HJ:101:LEU:H	1.60	0.67
9:HJ:145:ASN:HD22	9:HJ:146:VAL:N	1.90	0.67
9:HJ:71:LEU:HD13	9:HJ:97:ILE:HD11	1.76	0.67
1:A1:2356:A:H2'	1:A1:2357:C:O5'	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:331:C:H2'	1:A1:332:G:H5''	1.74	0.67
1:A1:709:G:OP1	18:AU:37:ARG:NH2	2.28	0.67
1:A1:810:G:H3'	1:A1:811:A:C8	2.28	0.67
19:AX:138:ILE:HD13	37:BP:152:VAL:HG22	1.76	0.67
21:B3:83:G:OP1	50:B3:306:HOH:O	2.12	0.67
23:BB:162:THR:HB	23:BB:175:HIS:HB2	1.76	0.67
23:BB:292:ALA:HB3	23:BB:301:LYS:HB3	1.76	0.67
24:BC:276:THR:CG2	24:BC:277:GLY:N	2.58	0.67
24:BC:89:THR:CG2	24:BC:91:ARG:H	2.05	0.67
1:A1:2677:U:O2	34:BM:17:GLN:HB3	1.95	0.67
34:BM:243:VAL:HG12	34:BM:247:PHE:HD2	1.59	0.67
39:BR:84:MET:HE2	39:BR:144:ALA:HB2	1.77	0.67
41:BT:35:THR:HG22	41:BT:37:LYS:N	2.04	0.67
44:BW:72:VAL:CG1	44:BW:92:VAL:HG13	2.25	0.67
21:C3:63:A:N7	29:CH:209:LEU:HD11	2.08	0.67
23:CB:113:ASN:CB	23:CB:174:ASN:HD21	2.06	0.67
33:CL:154:SER:O	33:CL:157:LYS:HG3	1.93	0.67
43:CV:118:LYS:O	43:CV:122:ASN:HB2	1.93	0.67
45:CX:9:LYS:HD2	1:D1:621:G:OP1	1.93	0.67
1:D1:213:A:N6	1:D1:227:G:O2'	2.24	0.67
1:D1:257:G:C2'	1:D1:258:A:H5'	2.24	0.67
1:D1:2884:A:N6	50:D1:4735:HOH:O	2.23	0.67
1:D1:1252:A:C2	1:D1:3105:G:N7	2.62	0.67
1:D1:514:U:H2'	1:D1:515:A:H8	1.59	0.67
8:DH:58:TYR:HA	8:DH:104:LEU:HD22	1.75	0.67
9:DJ:99:GLU:HG3	9:DJ:101:LEU:H	1.59	0.67
9:DJ:70:LEU:HB3	9:DJ:94:VAL:HG22	1.77	0.67
32:CK:51:HIS:HE1	18:DU:6:GLN:HA	1.60	0.67
20:E2:38:C:H4'	2:FA:71:ILE:HD13	1.75	0.67
20:E2:74:A:H61	20:E2:88:G:H1'	1.59	0.67
23:EB:22:THR:HG23	1:F1:3128:G:OP1	1.93	0.67
25:ED:124:GLY:HA3	1:F1:2663:A:C4	2.29	0.67
28:EG:109:UNK:HG3	28:EG:111:UNK:HG3	1.77	0.67
31:EJ:85:GLN:HA	31:EJ:102:ASN:HD22	1.59	0.67
38:EQ:131:THR:HG23	1:F1:1533:G:N2	2.10	0.67
45:EX:69:LEU:HB3	45:EX:70:PRO:HD2	1.76	0.67
1:F1:2356:A:H2'	1:F1:2357:C:O5'	1.95	0.67
1:F1:752:C:H5'	1:F1:1002:A:C2	2.29	0.67
19:FX:7:GLN:HE22	19:FX:80:GLU:HB3	1.60	0.67
24:GC:32:PRO:CG	24:GC:286:GLN:HB3	2.24	0.67
24:GC:89:THR:CG2	24:GC:91:ARG:H	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:GH:140:VAL:CG1	29:GH:144:HIS:HB2	2.25	0.67
33:GL:183:SER:HA	33:GL:191:ASN:HD22	1.57	0.67
37:GP:68:ASN:HB3	37:GP:69:PRO:HD2	1.76	0.67
1:H1:2101:G:H8	1:H1:2101:G:H5'	1.59	0.67
1:H1:2149:U:H2'	1:H1:2150:U:C5'	2.23	0.67
1:H1:2181:U:H2'	1:H1:2182:G:O4'	1.94	0.67
1:H1:313:U:H2'	1:H1:314:C:C6	2.29	0.67
9:HJ:192:VAL:O	9:HJ:192:VAL:HG12	1.94	0.67
14:HO:52:GLY:HA3	14:HO:118:ASN:HD21	1.59	0.67
14:HO:24:PHE:HA	14:HO:34:ARG:HA	1.75	0.67
1:A1:1861:C:OP1	50:A1:4366:HOH:O	2.12	0.67
1:A1:2961:G:C3'	1:A1:2962:U:H5''	2.24	0.67
1:A1:438:A:C4	5:AE:130:PHE:CE1	2.83	0.67
1:A1:65:A:OP2	50:A1:3737:HOH:O	2.12	0.67
1:A1:660:C:H2'	45:BX:43:ARG:NH2	2.10	0.67
1:A1:846:C:C2'	1:A1:847:G:H5''	2.23	0.67
8:AH:84:ASN:O	8:AH:86:VAL:HG23	1.94	0.67
23:BB:162:THR:O	23:BB:174:ASN:CB	2.41	0.67
23:BB:192:PHE:O	23:BB:195:SER:OG	2.10	0.67
35:BN:31:ILE:HG22	35:BN:35:LYS:HE3	1.76	0.67
43:BV:80:VAL:HG22	43:BV:188:VAL:HG23	1.76	0.67
1:A1:1010:G:H2'	43:BV:98:ARG:CD	2.23	0.67
21:C3:13:A:OP1	21:C3:109:U:O2'	2.12	0.67
22:CA:113:VAL:HG13	22:CA:134:TYR:HB2	1.76	0.67
1:D1:111:C:H2'	1:D1:111:C:O2	1.95	0.67
1:D1:2719:A:H2'	1:D1:2720:G:H8	1.60	0.67
1:D1:2741:U:H4'	1:D1:2742:G:OP2	1.95	0.67
1:D1:3284:G:N7	50:D1:4569:HOH:O	2.26	0.67
1:D1:619:G:C4'	1:D1:620:A:C2	2.76	0.67
1:D1:805:A:C4'	1:D1:806:G:OP2	2.43	0.67
1:D1:897:A:O2'	1:D1:898:C:H5'	1.95	0.67
18:DU:56:VAL:CG1	18:DU:57:ARG:H	2.07	0.67
20:E2:147:G:N2	27:EF:54:GLN:HE22	1.91	0.67
23:EB:114:THR:HB	23:EB:161:HIS:CD2	2.27	0.67
23:EB:267:GLN:NE2	1:F1:3266:G:OP1	2.27	0.67
27:EF:122:PRO:HG2	1:F1:119:A:C2	2.29	0.67
35:EN:34:TYR:O	35:EN:38:VAL:HG23	1.94	0.67
36:EO:114:LYS:HB3	36:EO:146:LYS:NZ	2.10	0.67
38:EQ:62:PHE:CE1	38:EQ:84:ARG:HB2	2.29	0.67
1:F1:1334:G:C2	1:F1:1335:A:C2	2.83	0.67
1:F1:2264:U:O2	1:F1:2264:U:H2'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3227:A:C1'	5:FE:86:PRO:HG3	2.24	0.67
1:F1:704:G:H2'	1:F1:705:A:O4'	1.95	0.67
1:F1:821:U:H6	1:F1:821:U:H5'	1.59	0.67
13:FN:11:VAL:HB	13:FN:80:ILE:CG2	2.25	0.67
14:FO:24:PHE:HA	14:FO:34:ARG:HA	1.77	0.67
14:FO:75:THR:HG21	14:FO:77:GLU:CD	2.15	0.67
21:G3:36:C:O2	21:G3:45:U:H1'	1.94	0.67
35:GN:31:ILE:HG22	35:GN:35:LYS:HE3	1.76	0.67
1:H1:1090:A:H4'	1:H1:1091:G:O5'	1.94	0.67
1:H1:2385:A:H2'	1:H1:2386:G:O5'	1.94	0.67
1:H1:3263:G:O2'	1:H1:3265:A:N6	2.26	0.67
1:H1:376:A:N6	1:H1:398:G:H2'	2.10	0.67
1:H1:784:G:H1'	1:H1:796:A:N6	2.09	0.67
1:H1:795:G:O5'	1:H1:795:G:H8	1.78	0.67
13:HN:11:VAL:HB	13:HN:80:ILE:CG2	2.25	0.67
18:HU:124:PHE:HE2	18:HU:142:THR:HA	1.59	0.67
1:A1:10:A:H2'	1:A1:11:A:C8	2.30	0.67
1:A1:1168:C:OP1	50:A1:3940:HOH:O	2.12	0.67
1:A1:1227:A:H4'	1:A1:1228:C:O5'	1.95	0.67
1:A1:1361:U:H5'	1:A1:1361:U:H6	1.59	0.67
14:AO:62:LEU:HD11	14:AO:97:ARG:HG2	1.76	0.67
21:B3:21:G:H4'	34:BM:277:PHE:HD2	1.58	0.67
23:BB:54:THR:CG2	23:BB:55:HIS:N	2.57	0.67
24:BC:164:GLU:OE2	24:BC:259:THR:HG21	1.93	0.67
27:BF:176:LYS:HB2	27:BF:187:THR:CG2	2.18	0.67
27:BF:196:VAL:CG1	27:BF:200:ASP:HB2	2.24	0.67
30:BI:175:ASP:O	30:BI:178:LYS:HG2	1.94	0.67
1:A1:696:A:H5''	35:BN:21:LYS:O	1.95	0.67
1:A1:697:A:OP1	35:BN:22:SER:HB3	1.94	0.67
36:BO:174:ASN:O	36:BO:178:GLN:HG2	1.94	0.67
20:C2:137:G:N2	33:CL:112:GLU:HG2	2.10	0.67
28:CG:23:UNK:HB2	28:CG:92:UNK:HB2	1.77	0.67
29:CH:38:ARG:HD3	29:CH:41:ALA:HB2	1.77	0.67
33:CL:13:LYS:NZ	16:DQ:46:ARG:HA	2.10	0.67
45:CX:121:LEU:HB2	45:CX:124:ALA:HB2	1.75	0.67
1:D1:1047:G:H2'	1:D1:1048:U:C5'	2.23	0.67
1:D1:1096:G:H2'	1:D1:1097:G:C5'	2.23	0.67
1:D1:1434:G:H2'	1:D1:1435:C:H5'	1.74	0.67
1:D1:2324:A:H8	1:D1:2324:A:H5''	1.58	0.67
22:CA:14:ASN:HB3	1:D1:930:U:H5'	1.75	0.67
13:DN:13:LEU:HD22	13:DN:75:VAL:HG21	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CK:100:PRO:HB3	18:DU:164:LYS:HZ1	1.59	0.67
18:DU:58:LYS:HB2	18:DU:63:TYR:HB3	1.77	0.67
22:EA:218:GLN:C	50:EA:302:HOH:O	2.29	0.67
27:EF:171:ALA:HB2	27:EF:211:PHE:CE1	2.30	0.67
35:EN:21:LYS:O	1:F1:696:A:C5'	2.43	0.67
1:F1:10:A:H2'	1:F1:11:A:C8	2.30	0.67
1:F1:1130:A:C5'	1:F1:1131:G:OP2	2.43	0.67
1:F1:1655:A:C2	1:F1:1669:G:C6	2.82	0.67
1:F1:1845:U:H4'	1:F1:1846:C:OP2	1.92	0.67
1:F1:2902:G:OP2	50:F1:4428:HOH:O	2.13	0.67
24:EC:373:SER:HA	1:F1:564:A:O2'	1.95	0.67
1:F1:861:A:N6	1:F1:882:G:H1'	2.08	0.67
13:FN:41:VAL:HG23	13:FN:77:LEU:HD23	1.75	0.67
21:G3:27:A:H2'	21:G3:28:C:C6	2.29	0.67
21:G3:81:A:H2'	21:G3:82:G:C5'	2.25	0.67
23:GB:162:THR:CG2	23:GB:175:HIS:HD2	2.05	0.67
23:GB:54:THR:CG2	23:GB:55:HIS:N	2.56	0.67
27:GF:68:PRO:HD3	27:GF:225:TRP:HE1	1.59	0.67
30:GI:37:THR:OG1	30:GI:104:PHE:O	2.12	0.67
34:GM:163:LEU:HD21	34:GM:175:HIS:CB	2.24	0.67
35:GN:141:ARG:O	1:H1:768:A:H5'	1.95	0.67
1:H1:363:G:H8	1:H1:363:G:H5'	1.58	0.67
1:H1:579:G:O2'	19:HX:159:ALA:N	2.28	0.67
1:H1:745:A:H4'	17:HT:58:ASN:ND2	2.09	0.67
1:H1:3098:A:OP1	10:HK:93:LYS:NZ	2.28	0.67
13:HN:24:VAL:O	13:HN:43:VAL:HG13	1.94	0.67
1:A1:1173:A:H2'	1:A1:1174:G:C8	2.30	0.67
1:A1:1752:G:H5'	1:A1:1754:G:C5'	2.25	0.67
1:A1:3177:G:C4'	1:A1:3178:U:OP2	2.39	0.67
1:A1:3332:A:H3'	1:A1:3333:G:C5'	2.25	0.67
1:A1:487:G:OP2	18:AU:161:LYS:NZ	2.27	0.67
1:A1:726:G:H2'	1:A1:727:C:C6	2.29	0.67
2:AA:15:THR:OG1	2:AA:16:HIS:CD2	2.48	0.67
6:AF:8:GLN:HE21	6:AF:11:ARG:NH1	1.91	0.67
23:BB:116:LYS:HD3	23:BB:173:LYS:HB2	1.77	0.67
23:BB:36:ASP:OD1	23:BB:38:SER:N	2.24	0.67
33:BL:30:TYR:CD2	33:BL:63:ARG:HD3	2.30	0.67
34:BM:283:THR:HG22	34:BM:285:ALA:H	1.59	0.67
23:CB:157:ARG:HD2	23:CB:178:GLU:OE1	1.95	0.67
24:CC:272:THR:HG22	24:CC:273:TYR:H	1.60	0.67
47:CO:154:UNK:O	47:CO:158:UNK:HG2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2150:U:H5'	1:D1:2150:U:H6	1.60	0.67
1:D1:3011:G:N2	1:D1:3020:G:C4	2.63	0.67
1:D1:362:G:H3'	1:D1:363:G:H5''	1.74	0.67
24:CC:319:ARG:NE	1:D1:634:G:N7	2.43	0.67
11:DL:41:TYR:HA	11:DL:58:GLN:HG2	1.77	0.67
19:DX:94:LYS:HA	19:DX:102:HIS:O	1.95	0.67
24:EC:230:ILE:O	24:EC:233:VAL:HG22	1.94	0.67
34:EM:52:VAL:CG2	34:EM:63:GLN:HB2	2.25	0.67
35:EN:16:VAL:HG12	35:EN:17:VAL:H	1.59	0.67
40:ES:6:GLU:N	40:ES:6:GLU:OE1	2.27	0.67
42:EU:32:LEU:O	42:EU:35:ALA:HB3	1.95	0.67
1:F1:1319:C:H2'	1:F1:1320:U:H6	1.60	0.67
1:F1:1895:U:C5'	50:F1:4010:HOH:O	2.43	0.67
1:F1:2906:G:C2'	1:F1:2907:A:H5''	2.24	0.67
1:F1:3114:U:H2'	1:F1:3115:C:H5''	1.77	0.67
1:F1:399:A:H4'	1:F1:400:C:OP1	1.95	0.67
1:F1:1737:A:N6	7:FG:28:LYS:HD2	2.09	0.67
7:FG:57:GLU:HA	7:FG:67:ILE:CD1	2.25	0.67
24:GC:213:LEU:O	24:GC:256:ILE:HA	1.95	0.67
30:GI:101:LEU:HD12	30:GI:102:LYS:N	2.10	0.67
44:GW:71:ARG:HD3	44:GW:103:LEU:HD13	1.75	0.67
1:H1:1600:U:C4	1:H1:1601:U:C4	2.82	0.67
1:H1:1926:G:OP1	50:H1:4197:HOH:O	2.12	0.67
1:H1:210:A:O2'	1:H1:229:A:O2'	2.12	0.67
1:H1:2731:C:C4'	4:HC:18:HIS:HD2	2.08	0.67
1:H1:2930:C:OP2	50:H1:3938:HOH:O	2.13	0.67
1:H1:462:G:H2'	1:H1:463:U:C6	2.29	0.67
1:H1:526:U:O2'	1:H1:527:A:H8	1.76	0.67
1:H1:911:C:O2'	1:H1:912:G:H5'	1.94	0.67
9:AJ:126:GLU:OE1	9:HJ:123:ARG:CZ	2.43	0.67
13:HN:16:GLY:N	13:HN:19:ALA:HB2	2.09	0.67
1:H1:71:U:H5	18:HU:64:ASN:HB3	1.60	0.67
1:A1:1130:A:C5'	1:A1:1131:G:OP2	2.43	0.67
1:A1:978:G:C8	1:A1:1144:G:C8	2.83	0.67
1:A1:2543:C:N4	7:AG:54:SER:HB3	2.09	0.67
1:A1:454:A:H61	1:A1:524:G:H1'	1.60	0.67
1:A1:563:G:H5'	1:A1:564:A:OP1	1.95	0.67
1:A1:641:U:H2'	1:A1:642:C:H6	1.58	0.67
1:A1:741:G:N3	32:BK:136:ARG:NH1	2.42	0.67
1:A1:2705:U:O2'	4:AC:79:ARG:NH2	2.27	0.67
7:AG:57:GLU:HA	7:AG:67:ILE:CD1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:77:TYR:HE1	12:AM:81:LEU:HD21	1.58	0.67
16:AQ:77:ALA:HB1	16:AQ:87:ALA:HA	1.75	0.67
23:BB:141:ALA:HA	23:BB:144:LEU:HD12	1.75	0.67
26:BE:2:ARG:HH12	30:BI:129:ARG:NH2	1.92	0.67
27:BF:20:PRO:HB2	27:BF:22:PHE:CD2	2.29	0.67
36:BO:133:LYS:HG3	36:BO:134:ASN:H	1.58	0.67
37:BP:14:LYS:O	50:BP:304:HOH:O	2.11	0.67
20:C2:74:A:H61	20:C2:88:G:H1'	1.59	0.67
21:C3:49:A:O2'	34:CM:230:LYS:NZ	2.19	0.67
23:CB:162:THR:CG2	23:CB:175:HIS:HD2	2.07	0.67
24:CC:99:ASN:HD22	24:CC:100:GLN:HE21	1.40	0.67
24:CC:240:ARG:HG2	24:CC:240:ARG:O	1.95	0.67
29:CH:140:VAL:CG1	29:CH:144:HIS:HB2	2.24	0.67
29:CH:34:TYR:CZ	29:CH:92:HIS:ND1	2.62	0.67
30:CI:101:LEU:HD12	30:CI:102:LYS:N	2.09	0.67
35:CN:158:GLN:CA	50:D1:4779:HOH:O	2.43	0.67
1:D1:1425:U:H4'	1:D1:1426:G:OP1	1.95	0.67
1:D1:2961:G:C2'	1:D1:2962:U:H5''	2.25	0.67
1:D1:3168:A:N7	19:DX:166:VAL:HG11	2.09	0.67
1:D1:358:C:H4'	1:D1:842:A:N6	2.10	0.67
7:DG:10:ILE:HA	7:DG:13:LYS:HD3	0.82	0.67
32:CK:99:VAL:O	18:DU:164:LYS:HB3	1.95	0.67
24:EC:185:VAL:O	24:EC:188:VAL:HG22	1.95	0.67
25:ED:133:ARG:CB	25:ED:134:PRO:HD2	2.18	0.67
26:EE:1:MET:CG	26:EE:2:ARG:N	2.42	0.67
30:EI:86:MET:HE2	1:F1:1202:C:H1'	1.77	0.67
31:EJ:83:ILE:HD11	31:EJ:105:VAL:HG23	1.76	0.67
35:EN:141:ARG:O	1:F1:768:A:H5'	1.95	0.67
38:EQ:120:GLN:HB3	38:EQ:149:GLU:CG	2.24	0.67
1:F1:1096:G:H2'	1:F1:1097:G:C5'	2.24	0.67
1:F1:1700:A:OP2	12:FM:74:SER:HB2	1.95	0.67
1:F1:2411:U:H2'	1:F1:2412:U:C6	2.28	0.67
1:F1:2678:A:H1'	1:F1:2691:A:H62	1.60	0.67
1:F1:3291:G:HO2'	1:F1:3292:U:P	2.18	0.67
1:F1:513:G:O2'	1:F1:514:U:H5'	1.95	0.67
9:FJ:142:ILE:HD13	9:FJ:152:CYS:HB3	1.75	0.67
13:FN:10:VAL:HG12	13:FN:85:TYR:O	1.94	0.67
32:EK:100:PRO:HB3	18:FU:164:LYS:NZ	2.09	0.67
19:FX:7:GLN:NE2	19:FX:80:GLU:HB3	2.09	0.67
20:G2:107:C:H4'	20:G2:108:G:O5'	1.94	0.67
20:G2:137:G:H21	33:GL:112:GLU:HG2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:131:SER:OG	22:GA:175:ARG:NH1	2.28	0.67
24:GC:95:ALA:HB1	24:GC:101:CYS:SG	2.35	0.67
24:GC:230:ILE:O	24:GC:233:VAL:HG22	1.95	0.67
1:H1:1227:A:H4'	1:H1:1228:C:O5'	1.94	0.67
1:H1:1430:G:N7	50:H1:3731:HOH:O	2.27	0.67
1:H1:1662:A:H4'	11:HL:76:ARG:HH22	1.58	0.67
1:H1:2540:G:H5''	1:H1:2541:U:OP2	1.94	0.67
1:H1:2581:G:H4'	1:H1:2583:C:C2	2.29	0.67
1:H1:511:U:H2'	1:H1:512:G:H8	1.60	0.67
6:HF:49:PRO:HG2	6:HF:52:ARG:HG3	1.75	0.67
1:A1:1141:U:O4	1:A1:1142:G:N2	2.28	0.67
1:A1:1370:A:C2	1:A1:1389:G:C2	2.82	0.67
1:A1:1490:G:N7	50:A1:4362:HOH:O	2.26	0.67
1:A1:1667:A:O2'	1:A1:1668:A:P	2.52	0.67
1:A1:304:U:HO2'	1:A1:305:A:P	2.11	0.67
1:A1:419:A:C2	1:A1:2358:A:H4'	2.30	0.67
1:A1:718:A:O2'	24:BC:242:ASN:ND2	2.27	0.67
1:A1:959:G:O3'	50:A1:3758:HOH:O	2.13	0.67
1:A1:972:U:H2'	1:A1:973:C:C6	2.30	0.67
13:AN:100:ASP:OD1	1:H1:1053:A:H2	1.68	0.67
13:AN:22:LYS:NZ	13:AN:140:SER:HB3	2.10	0.67
19:AX:113:LEU:CD2	19:AX:140:THR:HG21	2.25	0.67
20:B2:107:C:H4'	20:B2:108:G:O5'	1.95	0.67
21:B3:36:C:O2	21:B3:45:U:H1'	1.94	0.67
23:BB:384:LYS:O	23:BB:387:GLU:HG2	1.95	0.67
27:CF:176:LYS:CB	27:CF:187:THR:HG23	2.14	0.67
34:CM:52:VAL:CG2	34:CM:63:GLN:HB2	2.25	0.67
35:CN:158:GLN:NE2	50:CN:306:HOH:O	2.28	0.67
42:CU:51:VAL:O	42:CU:55:ILE:HG13	1.94	0.67
44:CW:42:THR:HG22	44:CW:43:MET:CE	2.20	0.67
1:D1:10:A:H2'	1:D1:11:A:C8	2.29	0.67
1:D1:1198:G:N7	50:D1:4426:HOH:O	2.27	0.67
1:D1:1618:A:H2'	1:D1:1619:A:C8	2.29	0.67
1:D1:2364:G:H2'	1:D1:2365:G:C8	2.29	0.67
1:D1:524:G:O2'	1:D1:525:C:OP2	2.12	0.67
11:DL:73:THR:HG22	11:DL:74:VAL:H	1.59	0.67
13:DN:11:VAL:HB	13:DN:80:ILE:CG2	2.25	0.67
1:D1:1380:C:N3	14:DO:32:THR:HG21	2.09	0.67
33:CL:16:SER:HB3	16:DQ:49:THR:HG23	1.77	0.67
18:DU:146:ALA:HB1	18:DU:148:ASN:ND2	2.10	0.67
18:DU:52:LEU:HD23	18:DU:93:ILE:HG23	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DX:16:MET:HE1	19:DX:121:ILE:HD12	1.77	0.67
21:E3:30:G:O2'	21:E3:31:G:H5'	1.94	0.67
28:EG:23:UNK:HB2	28:EG:92:UNK:HB2	1.77	0.67
37:EP:57:TYR:HA	37:EP:60:ARG:HG3	1.77	0.67
45:EX:34:TRP:CZ2	45:EX:54:MET:HB2	2.29	0.67
1:F1:1507:A:OP2	1:F1:1507:A:O4'	2.12	0.67
1:F1:2364:G:H2'	1:F1:2365:G:C8	2.30	0.67
1:F1:467:A:C6	1:F1:468:A:C5	2.83	0.67
1:F1:1753:A:OP2	7:FG:26:GLY:HA2	1.95	0.67
19:FX:94:LYS:HA	19:FX:102:HIS:O	1.95	0.67
23:GB:116:LYS:HD3	23:GB:173:LYS:HB2	1.75	0.67
23:GB:62:ARG:HH11	23:GB:62:ARG:CG	2.05	0.67
34:GM:32:ALA:HB2	50:GM:401:HOH:O	1.95	0.67
37:GP:41:ASP:HB3	37:GP:97:ARG:NH1	2.10	0.67
38:GQ:10:PRO:CB	38:GQ:153:GLN:HE22	2.07	0.67
42:GU:82:LEU:HA	42:GU:85:ARG:HG3	1.76	0.67
1:H1:1004:U:H6	1:H1:1004:U:C5'	2.05	0.67
1:H1:102:G:N7	50:H1:3651:HOH:O	2.28	0.67
1:H1:1127:U:H2'	1:H1:1128:G:C8	2.30	0.67
1:H1:1919:A:H5'	1:H1:1919:A:H8	1.60	0.67
1:H1:2253:U:H2'	1:H1:2254:A:C8	2.30	0.67
1:H1:2500:C:H2'	1:H1:2501:A:C8	2.30	0.67
1:H1:454:A:H61	1:H1:524:G:H1'	1.60	0.67
2:HA:14:LYS:NZ	3:HB:52:TYR:HE1	1.93	0.67
1:H1:838:G:H1'	2:HA:50:TRP:CZ2	2.29	0.67
1:A1:1868:C:OP2	50:A1:4391:HOH:O	2.13	0.67
1:A1:3114:U:H2'	1:A1:3115:C:H5''	1.77	0.67
1:A1:514:U:H2'	1:A1:515:A:H8	1.58	0.67
7:AG:8:ASP:HA	7:AG:11:GLN:NE2	2.10	0.67
13:AN:11:VAL:HB	13:AN:80:ILE:CG2	2.25	0.67
1:A1:2562:U:OP2	13:AN:58:GLY:N	2.28	0.67
13:AN:76:ASN:HB3	13:AN:79:HIS:CD2	2.30	0.67
14:AO:24:PHE:HA	14:AO:34:ARG:HA	1.77	0.67
1:A1:3168:A:N7	19:AX:166:VAL:HG11	2.09	0.67
19:AX:7:GLN:NE2	19:AX:80:GLU:HB3	2.09	0.67
22:BA:49:ILE:HD12	46:BY:63:ILE:HG22	1.77	0.67
22:BA:58:PRO:HD2	22:BA:171:ALA:HB3	1.75	0.67
1:A1:3168:A:C4	26:BE:42:SER:O	2.48	0.67
33:BL:120:TRP:CE2	33:BL:122:GLY:HA2	2.30	0.67
23:CB:119:TYR:CE2	23:CB:122:TRP:HZ3	2.13	0.67
23:CB:162:THR:HB	23:CB:175:HIS:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CF:183:VAL:CG1	27:CF:185:LYS:HE3	2.25	0.67
32:CK:84:VAL:HG21	32:CK:102:ILE:HG12	1.75	0.67
1:D1:1776:G:OP1	50:D1:4875:HOH:O	2.12	0.67
1:D1:2238:A:H4'	50:D1:4286:HOH:O	1.95	0.67
1:D1:2267:G:H4'	1:D1:2268:G:OP1	1.94	0.67
34:CM:38:ILE:HD11	1:D1:2738:G:O3'	1.95	0.67
2:DA:17:THR:HA	3:DB:52:TYR:HB2	1.77	0.67
3:DB:9:MET:HB3	3:DB:13:PHE:HE2	1.60	0.67
5:DE:19:TYR:OH	14:DO:109:LYS:HG2	1.95	0.67
30:CI:196:PHE:CZ	6:DF:110:ARG:HD2	2.29	0.67
10:DK:105:PRO:O	10:DK:106:LYS:HG2	1.94	0.67
1:D1:1235:U:H2'	10:DK:109:ASN:ND2	2.10	0.67
18:DU:54:PRO:HD3	18:DU:73:PHE:CE2	2.30	0.67
23:EB:117:ARG:HA	23:EB:173:LYS:HE3	1.76	0.67
25:ED:78:ASP:O	25:ED:81:THR:HB	1.95	0.67
21:E3:59:C:O2'	34:EM:279:PRO:HD2	1.95	0.67
1:F1:1540:U:H5	1:F1:1865:A:HO2'	1.42	0.67
1:F1:2249:U:H2'	1:F1:2250:A:C8	2.29	0.67
1:F1:784:G:H1'	1:F1:796:A:N6	2.09	0.67
5:FE:49:THR:HG22	5:FE:50:VAL:N	2.09	0.67
15:FP:4:GLU:OE1	15:FP:54:LYS:HE2	1.95	0.67
15:FP:60:ILE:O	15:FP:64:ILE:HG13	1.95	0.67
42:EU:120:PHE:CE2	18:FU:90:SER:O	2.48	0.67
30:GI:61:MET:HE3	30:GI:68:GLY:HA3	1.77	0.67
43:GV:164:THR:O	43:GV:168:LYS:HG3	1.95	0.67
1:H1:114:A:C5	1:H1:264:A:C6	2.83	0.67
1:H1:2187:C:O2'	1:H1:2188:U:H5'	1.95	0.67
1:H1:2962:U:H5'	1:H1:2962:U:H6	1.58	0.67
1:H1:3214:A:H5''	1:H1:3215:C:C6	2.30	0.67
1:H1:3263:G:H4'	1:H1:3264:U:O5'	1.94	0.67
1:H1:790:C:C4'	1:H1:791:C:OP1	2.42	0.67
4:HC:26:TYR:CB	4:HC:67:ALA:HB3	2.24	0.67
13:HN:13:LEU:HD22	13:HN:75:VAL:HG21	1.77	0.67
1:A1:1107:A:N7	34:BM:142:PHE:CE1	2.63	0.66
1:A1:2518:A:H3'	39:BR:35:VAL:CG1	2.24	0.66
1:A1:257:G:C2'	1:A1:258:A:H5'	2.25	0.66
1:A1:284:U:H5	1:A1:305:A:C5'	2.03	0.66
1:A1:3128:G:C5'	1:A1:3128:G:H8	2.07	0.66
1:A1:524:G:O2'	1:A1:525:C:OP2	2.11	0.66
1:A1:605:C:H1'	19:AX:6:ALA:HB2	1.77	0.66
2:AA:20:ARG:NH1	20:B2:111:A:N1	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:B2:27:G:H8	20:B2:27:G:H5'	1.60	0.66
22:BA:113:VAL:HG13	22:BA:134:TYR:HB2	1.77	0.66
20:B2:137:G:H21	33:BL:112:GLU:CG	2.08	0.66
35:BN:52:ARG:HB2	35:BN:84:THR:CG2	2.05	0.66
22:CA:38:ARG:O	22:CA:93:LEU:HG	1.95	0.66
23:CB:123:ALA:HB1	1:D1:3276:C:OP1	1.96	0.66
23:CB:81:CYS:CB	23:CB:203:VAL:HG21	2.25	0.66
24:CC:205:ARG:HH21	40:CS:11:ARG:NH1	1.92	0.66
1:D1:1181:A:C4'	1:D1:1182:C:OP2	2.42	0.66
1:D1:1191:G:H2'	1:D1:1192:A:H8	1.60	0.66
1:D1:1227:A:H4'	1:D1:1228:C:O5'	1.95	0.66
1:D1:1563:A:O2'	1:D1:1564:C:H5'	1.95	0.66
47:CO:97:ARG:HH21	1:D1:1805:C:H5'	1.60	0.66
1:D1:3165:A:H2'	1:D1:3166:A:C8	2.30	0.66
8:DH:54:LYS:HD3	8:DH:110:PRO:HG2	1.76	0.66
20:E2:75:A:OP2	40:ES:51:LYS:HB3	1.96	0.66
26:EE:144:LEU:HD13	26:EE:155:THR:HG22	1.77	0.66
36:EO:120:TYR:HE2	1:F1:1744:A:OP2	1.78	0.66
37:EP:40:VAL:CG1	37:EP:96:VAL:HG13	2.25	0.66
20:E2:27:G:OP2	40:ES:12:ARG:HD3	1.94	0.66
1:F1:1446:C:H5'	1:F1:1446:C:C6	2.29	0.66
1:F1:2678:A:H1'	1:F1:2691:A:N6	2.10	0.66
1:F1:2859:G:N7	50:F1:4201:HOH:O	2.29	0.66
1:F1:2944:A:P	50:F1:4069:HOH:O	2.46	0.66
1:F1:3128:G:C5'	1:F1:3128:G:H8	2.07	0.66
1:F1:3168:A:C5	19:FX:166:VAL:HG11	2.30	0.66
1:F1:419:A:C2	1:F1:2358:A:H4'	2.30	0.66
13:FN:22:LYS:NZ	13:FN:140:SER:HB3	2.10	0.66
18:FU:58:LYS:HB2	18:FU:63:TYR:HB3	1.77	0.66
20:G2:58:U:N3	20:G2:65:C:H5	1.91	0.66
34:GM:66:TYR:OH	34:GM:73:ARG:HD2	1.94	0.66
44:GW:59:TRP:CZ3	44:GW:63:ILE:HG12	2.30	0.66
1:H1:1404:G:H5'	1:H1:1434:G:O2'	1.95	0.66
1:H1:1446:C:H6	1:H1:1446:C:C5'	2.07	0.66
1:H1:1845:U:H4'	1:H1:1846:C:OP2	1.93	0.66
1:H1:2343:A:C3'	1:H1:2344:U:H5''	2.25	0.66
1:H1:2703:G:H2'	1:H1:2740:G:H21	1.58	0.66
38:GQ:64:ARG:NH1	1:H1:409:G:OP1	2.28	0.66
5:HE:18:TRP:HB2	14:HO:95:ARG:HH21	1.58	0.66
18:HU:22:THR:HG23	18:HU:24:PHE:CD1	2.29	0.66
1:A1:3332:A:O2'	1:A1:3333:G:OP1	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:607:U:O2'	1:A1:608:C:H5'	1.95	0.66
1:A1:73:G:OP1	18:AU:56:VAL:HG11	1.96	0.66
1:A1:754:A:OP1	35:BN:44:LYS:HD3	1.95	0.66
2:AA:8:PHE:O	2:AA:11:ARG:HG3	1.95	0.66
6:AF:45:ARG:NH2	6:AF:67:GLN:O	2.27	0.66
14:AO:100:SER:OG	14:AO:103:LEU:HG	1.95	0.66
2:AA:68:MET:HG3	20:B2:44:A:H5'	1.76	0.66
21:B3:111:U:O4	34:BM:21:ARG:NH1	2.28	0.66
1:A1:2158:C:C5'	22:BA:239:ARG:NH1	2.50	0.66
22:BA:5:ILE:HG22	22:BA:6:ARG:H	1.60	0.66
1:A1:1410:G:O2'	24:BC:251:HIS:HD2	1.77	0.66
29:BH:77:ILE:HG13	29:BH:78:LYS:N	2.10	0.66
44:BW:42:THR:HG22	44:BW:43:MET:CE	2.21	0.66
1:A1:1395:U:OP1	45:BX:36:ARG:NH2	2.28	0.66
21:C3:36:C:O2	21:C3:45:U:H1'	1.95	0.66
22:CA:160:PRO:HG2	22:CA:163:CYS:HG	1.60	0.66
1:D1:1052:A:C2	1:D1:1053:A:C5	2.83	0.66
1:D1:131:G:N1	1:D1:133:C:H1'	2.10	0.66
1:D1:1567:A:H61	1:D1:1578:U:H3	1.43	0.66
1:D1:2875:A:OP2	50:D1:4401:HOH:O	2.13	0.66
1:D1:563:G:H5'	1:D1:564:A:OP1	1.95	0.66
4:DC:7:THR:HB	4:DC:94:ILE:HD11	1.77	0.66
6:DF:12:VAL:HB	6:DF:58:PHE:HB2	1.76	0.66
22:EA:113:VAL:HG13	22:EA:134:TYR:HB2	1.77	0.66
22:EA:192:ARG:NH1	1:F1:1821:U:OP2	2.28	0.66
22:EA:58:PRO:HD2	22:EA:171:ALA:HB3	1.76	0.66
34:EM:163:LEU:HD21	34:EM:175:HIS:CB	2.25	0.66
1:F1:1027:G:O2'	1:F1:1028:A:OP1	2.12	0.66
1:F1:1566:U:H2'	1:F1:1567:A:C8	2.28	0.66
1:F1:1667:A:O2'	1:F1:1668:A:P	2.52	0.66
1:F1:1864:U:H5'	50:F1:4043:HOH:O	1.93	0.66
1:F1:2181:U:H2'	1:F1:2182:G:O4'	1.95	0.66
1:F1:2994:G:O2'	1:F1:2995:A:H8	1.79	0.66
1:F1:338:C:H5''	1:F1:338:C:H6	1.58	0.66
1:F1:548:G:H22	1:F1:619:G:H21	1.43	0.66
1:F1:964:U:OP1	50:F1:3827:HOH:O	2.13	0.66
23:GB:162:THR:O	23:GB:174:ASN:CB	2.42	0.66
24:GC:240:ARG:O	24:GC:240:ARG:HG2	1.93	0.66
24:GC:295:ILE:HD11	35:GN:29:LEU:HB3	1.75	0.66
29:GH:42:THR:HG23	29:GH:192:THR:HG21	1.76	0.66
32:GK:111:LYS:HG3	32:GK:129:TYR:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:GN:16:VAL:HG12	35:GN:17:VAL:H	1.58	0.66
1:H1:1020:G:OP2	50:H1:4003:HOH:O	2.13	0.66
1:H1:1132:U:O5'	1:H1:1132:U:H6	1.78	0.66
1:H1:1179:G:O2'	1:H1:1180:A:OP1	2.12	0.66
1:H1:1425:U:H4'	1:H1:1426:G:OP1	1.94	0.66
1:H1:2906:G:C2'	1:H1:2907:A:H5''	2.22	0.66
19:HX:7:GLN:HE22	19:HX:80:GLU:HB3	1.59	0.66
1:A1:1640:C:H2'	1:A1:1641:U:H6	1.57	0.66
1:A1:2348:G:N7	50:A1:4566:HOH:O	2.28	0.66
1:A1:62:G:OP2	33:BL:169:ARG:NH2	2.28	0.66
1:A1:641:U:H2'	1:A1:642:C:C6	2.30	0.66
1:A1:511:U:H5''	14:AO:70:VAL:CG2	2.25	0.66
21:B3:11:A:O2'	21:B3:12:U:H3'	1.94	0.66
23:BB:113:ASN:CB	23:BB:174:ASN:HD21	2.08	0.66
24:BC:287:ARG:HD2	35:BN:111:ARG:NH1	2.10	0.66
24:BC:82:PRO:O	24:BC:96:ALA:N	2.25	0.66
28:BG:109:UNK:HG3	28:BG:111:UNK:HG3	1.76	0.66
35:BN:34:TYR:O	35:BN:38:VAL:HG23	1.95	0.66
20:B2:73:G:H5'	40:BS:117:LEU:HD11	1.77	0.66
23:CB:56:ILE:HG21	23:CB:354:LEU:HD22	1.76	0.66
30:CI:69:VAL:CG2	1:D1:2377:G:O2'	2.44	0.66
38:CQ:8:ARG:HH22	38:CQ:117:GLN:HE21	1.43	0.66
39:CR:84:MET:HE2	39:CR:144:ALA:HB2	1.76	0.66
43:CV:98:ARG:HH11	43:CV:98:ARG:HG3	1.59	0.66
1:D1:1334:G:C2	1:D1:1335:A:C2	2.84	0.66
1:D1:2727:A:O2'	1:D1:2728:A:OP2	2.12	0.66
1:D1:625:C:O2'	1:D1:626:C:H5'	1.95	0.66
6:DF:30:ILE:HG21	19:DX:163:PHE:HE2	1.59	0.66
20:E2:26:A:H3'	20:E2:27:G:H5''	1.78	0.66
25:ED:19:ILE:HG21	25:ED:125:MET:HE1	1.78	0.66
32:EK:27:LYS:HB2	1:F1:961:A:H5''	1.76	0.66
35:EN:82:VAL:CG2	35:EN:127:LEU:HD11	2.25	0.66
41:ET:35:THR:HG22	41:ET:37:LYS:N	2.07	0.66
46:EY:6:GLN:N	1:F1:1951:G:OP2	2.24	0.66
1:F1:2920:U:C2	1:F1:2923:U:C5	2.84	0.66
1:F1:726:G:H2'	1:F1:727:C:C6	2.29	0.66
2:FA:8:PHE:O	2:FA:11:ARG:HG3	1.95	0.66
7:FG:95:ALA:CB	7:FG:101:LEU:HD11	2.24	0.66
9:FJ:43:VAL:HG12	9:FJ:44:PRO:CD	2.25	0.66
1:F1:1618:A:H5''	11:FL:62:ALA:HB2	1.77	0.66
14:FO:49:ALA:HB3	14:FO:61:SER:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:160:PRO:HG2	22:GA:163:CYS:SG	2.35	0.66
27:GF:127:TYR:C	27:GF:127:TYR:CD1	2.68	0.66
27:GF:131:HIS:O	27:GF:135:LEU:HG	1.95	0.66
27:GF:123:ILE:HD12	27:GF:197:ARG:HD3	1.76	0.66
33:GL:15:GLN:NE2	1:H1:294:A:OP1	2.28	0.66
40:GS:34:LEU:HD12	40:GS:44:VAL:O	1.95	0.66
1:H1:1506:G:O2'	1:H1:1895:U:O4	2.11	0.66
1:H1:2919:C:N3	1:H1:2923:U:C5	2.64	0.66
1:H1:384:A:H2'	1:H1:385:A:C8	2.31	0.66
1:H1:805:A:C4'	1:H1:806:G:OP2	2.43	0.66
1:H1:904:U:O2'	1:H1:905:G:OP2	2.12	0.66
1:H1:964:U:OP1	50:H1:3770:HOH:O	2.13	0.66
1:A1:1027:G:C8	1:A1:1068:U:OP2	2.49	0.66
1:A1:1097:G:N2	1:A1:1117:U:H1'	2.10	0.66
1:A1:1375:A:H4'	1:A1:1376:A:OP1	1.95	0.66
1:A1:2180:G:O2'	50:A1:4200:HOH:O	2.13	0.66
1:A1:2380:U:H2'	1:A1:2380:U:O2	1.95	0.66
1:A1:2624:A:OP2	29:BH:15:LYS:NZ	2.26	0.66
1:A1:376:A:N6	1:A1:398:G:H2'	2.10	0.66
1:A1:70:C:N4	1:A1:72:A:C5	2.63	0.66
1:A1:795:G:O5'	1:A1:795:G:H8	1.78	0.66
24:BC:382:LYS:HG3	24:BC:383:ALA:N	2.10	0.66
1:A1:1309:G:H5'	28:BG:59:UNK:HB2	1.77	0.66
34:BM:250:VAL:O	34:BM:254:ILE:HG13	1.96	0.66
43:BV:117:ASN:O	43:BV:121:LEU:HB2	1.95	0.66
23:CB:58:ARG:HH21	23:CB:60:VAL:CG1	2.08	0.66
24:CC:276:THR:CG2	24:CC:277:GLY:N	2.58	0.66
24:CC:89:THR:CG2	24:CC:91:ARG:H	2.08	0.66
26:CE:88:PHE:CD1	26:CE:182:LYS:HA	2.31	0.66
27:CF:176:LYS:HD2	27:CF:187:THR:HG21	1.76	0.66
33:CL:38:LYS:HB2	33:CL:62:TRP:CE2	2.28	0.66
34:CM:37:ILE:HD11	37:CP:31:LEU:HD21	1.78	0.66
46:CY:45:VAL:O	46:CY:45:VAL:CG2	2.43	0.66
1:D1:1580:G:H3'	50:D1:4138:HOH:O	1.95	0.66
1:D1:331:C:OP1	50:D1:3869:HOH:O	2.14	0.66
24:CC:275:THR:OG1	1:D1:498:A:H5''	1.94	0.66
35:CN:146:ARG:HA	1:D1:812:G:OP2	1.94	0.66
5:DE:42:ARG:NH2	5:DE:92:GLN:O	2.28	0.66
7:DG:102:LYS:O	7:DG:103:THR:OG1	2.11	0.66
20:E2:27:G:OP2	40:ES:12:ARG:NH1	2.28	0.66
21:E3:116:A:H4'	34:EM:260:ARG:HH22	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EH:139:ARG:HD3	29:EH:173:PHE:CE1	2.30	0.66
34:EM:250:VAL:O	34:EM:254:ILE:HG13	1.94	0.66
1:F1:1132:U:O5'	1:F1:1132:U:H6	1.77	0.66
1:F1:131:G:N1	1:F1:133:C:H1'	2.11	0.66
1:F1:146:U:O2	1:F1:148:G:C2	2.48	0.66
39:ER:43:LEU:HD12	1:F1:1599:G:OP1	1.95	0.66
1:F1:514:U:H2'	1:F1:515:A:H8	1.60	0.66
3:FB:28:ARG:NE	3:FB:36:ARG:O	2.29	0.66
24:GC:159:PHE:HZ	24:GC:179:VAL:HG13	1.60	0.66
29:GH:48:TYR:CE1	29:GH:178:ARG:CZ	2.78	0.66
32:GK:88:THR:CG2	18:HU:164:LYS:HZ1	2.08	0.66
1:H1:1215:U:H3	1:H1:1344:A:N6	1.93	0.66
1:H1:1380:C:C2'	1:H1:1381:G:OP1	2.42	0.66
1:H1:1597:U:H2'	1:H1:1598:C:H6	1.57	0.66
1:H1:467:A:C6	1:H1:468:A:C5	2.84	0.66
1:H1:499:U:H3'	1:H1:500:G:C8	2.30	0.66
15:HP:60:ILE:O	15:HP:64:ILE:HG13	1.95	0.66
18:HU:72:GLY:HA3	18:HU:96:ASP:HB2	1.77	0.66
1:A1:1376:A:O3'	43:BV:12:LYS:NZ	2.23	0.66
1:A1:2310:G:OP1	50:A1:4188:HOH:O	2.13	0.66
1:A1:861:A:H2'	1:A1:861:A:N3	2.11	0.66
7:AG:13:LYS:HD2	7:AG:100:ILE:HD13	1.78	0.66
11:AL:99:GLU:OE1	11:AL:99:GLU:HA	1.94	0.66
18:AU:22:THR:HG23	18:AU:24:PHE:CD1	2.30	0.66
1:A1:2239:A:C4'	22:BA:244:THR:HG21	2.25	0.66
24:BC:215:VAL:CG1	24:BC:238:VAL:HG22	2.20	0.66
30:BI:37:THR:OG1	30:BI:104:PHE:O	2.13	0.66
37:BP:8:ARG:O	37:BP:11:THR:OG1	2.13	0.66
1:A1:3269:G:H1'	38:BQ:71:ARG:HD3	1.76	0.66
45:BX:34:TRP:CZ2	45:BX:54:MET:HB2	2.30	0.66
20:C2:105:A:H5''	20:C2:106:A:H8	1.60	0.66
23:CB:54:THR:CG2	23:CB:55:HIS:H	2.09	0.66
24:CC:50:LYS:HD2	24:CC:116:VAL:HG11	1.77	0.66
33:CL:15:GLN:OE1	16:DQ:52:ALA:CB	2.44	0.66
34:CM:119:TYR:CD1	34:CM:132:VAL:CG1	2.77	0.66
43:CV:211:PHE:HB3	43:CV:223:ASP:OD2	1.95	0.66
1:D1:1956:A:H2'	1:D1:1957:A:H5'	1.77	0.66
1:D1:2343:A:C3'	1:D1:2344:U:H5''	2.24	0.66
1:D1:2414:A:H2'	1:D1:2415:C:C6	2.31	0.66
1:D1:2920:U:C2	1:D1:2923:U:C5	2.83	0.66
1:D1:3114:U:H2'	1:D1:3115:C:H5''	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:636:U:O2'	1:D1:637:U:H5'	1.96	0.66
2:DA:26:THR:HG22	2:DA:35:ALA:HB3	1.76	0.66
7:DG:62:LEU:HB3	13:DN:4:PHE:CE2	2.30	0.66
24:EC:298:ILE:O	24:EC:304:VAL:HG21	1.96	0.66
29:EH:140:VAL:CG1	29:EH:144:HIS:HB2	2.25	0.66
34:EM:122:GLN:NE2	34:EM:126:ASP:OD2	2.28	0.66
44:EW:72:VAL:CG1	44:EW:92:VAL:HG13	2.26	0.66
1:F1:1776:G:O2'	1:F1:1777:A:H5'	1.96	0.66
1:F1:2975:A:H2'	1:F1:2976:C:C6	2.30	0.66
1:F1:331:C:H2'	1:F1:332:G:H5''	1.76	0.66
1:F1:625:C:O2'	1:F1:626:C:H5'	1.96	0.66
1:D1:1047:G:P	13:FN:3:LYS:HZ3	2.11	0.66
14:FO:100:SER:OG	14:FO:103:LEU:HG	1.96	0.66
21:G3:116:A:H4'	34:GM:260:ARG:HH22	1.61	0.66
24:GC:216:TYR:O	24:GC:238:VAL:HG23	1.96	0.66
32:GK:78:ASP:OD1	32:GK:78:ASP:N	2.29	0.66
20:G2:74:A:H5'	40:GS:50:ARG:HG3	1.78	0.66
1:H1:1185:A:HO2'	1:H1:1357:A:H2	1.42	0.66
1:H1:1375:A:H4'	1:H1:1376:A:OP1	1.95	0.66
1:H1:1446:C:H6	1:H1:1446:C:H5'	1.61	0.66
1:H1:1481:U:O2	1:H1:1481:U:H2'	1.94	0.66
1:H1:1618:A:H2'	1:H1:1619:A:C8	2.31	0.66
1:H1:1720:A:H2'	1:H1:1721:A:C8	2.31	0.66
1:H1:2931:G:OP1	50:H1:3940:HOH:O	2.14	0.66
1:H1:3227:A:N3	5:HE:80:TYR:CE2	2.63	0.66
1:A1:1167:G:H4'	43:BV:91:GLN:HE21	1.60	0.66
1:A1:131:G:N1	1:A1:133:C:H1'	2.11	0.66
1:A1:3036:U:O2'	23:BB:325:CYS:HB2	1.95	0.66
9:AJ:39:GLU:HB3	9:AJ:43:VAL:HG23	1.78	0.66
20:B2:114:G:H3'	20:B2:114:G:H8	1.61	0.66
22:BA:128:SER:O	22:BA:128:SER:OG	2.09	0.66
23:BB:382:ARG:O	23:BB:386:VAL:HG23	1.95	0.66
1:A1:692:A:H4'	35:BN:166:TYR:CE1	2.31	0.66
36:BO:65:ALA:O	36:BO:68:GLU:HB3	1.96	0.66
37:BP:57:TYR:HA	37:BP:60:ARG:HG3	1.77	0.66
22:CA:160:PRO:HG2	22:CA:163:CYS:SG	2.35	0.66
24:CC:49:ARG:NH2	1:D1:713:G:H21	1.94	0.66
30:CI:175:ASP:O	30:CI:178:LYS:HG2	1.95	0.66
34:CM:166:ALA:CB	34:CM:173:ILE:HD11	2.26	0.66
35:CN:28:LYS:HE3	35:CN:32:LYS:HE2	1.75	0.66
47:CO:172:UNK:HG2	47:CO:173:UNK:N	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:117:ASN:O	43:CV:121:LEU:HB2	1.95	0.66
1:D1:1114:C:C2'	1:D1:1115:U:H5'	2.25	0.66
1:D1:1210:C:O2'	19:DX:13:THR:HG21	1.94	0.66
1:D1:1927:U:OP2	50:D1:4618:HOH:O	2.12	0.66
1:D1:2540:G:H5''	1:D1:2541:U:OP2	1.95	0.66
1:D1:3114:U:C2'	1:D1:3115:C:H5''	2.26	0.66
1:D1:625:C:H2'	1:D1:626:C:H5'	1.77	0.66
4:DC:26:TYR:CB	4:DC:67:ALA:HB3	2.26	0.66
1:D1:3170:A:N7	6:DF:2:VAL:N	2.44	0.66
9:DJ:192:VAL:O	9:DJ:192:VAL:HG12	1.95	0.66
14:DO:16:LEU:CD1	14:DO:35:ASN:HD22	2.09	0.66
23:EB:103:THR:HG22	23:EB:104:THR:N	2.10	0.66
21:E3:43:A:OP1	25:ED:137:ARG:HD2	1.94	0.66
1:F1:1598:C:H2'	1:F1:1599:G:H5'	1.78	0.66
1:F1:2930:C:OP2	50:F1:4027:HOH:O	2.14	0.66
1:F1:3198:A:H2'	1:F1:3199:G:O4'	1.95	0.66
1:F1:511:U:H2'	1:F1:512:G:H8	1.60	0.66
1:F1:568:A:C2	1:F1:602:A:C2	2.84	0.66
1:F1:619:G:C4'	1:F1:620:A:C2	2.79	0.66
1:F1:795:G:H8	1:F1:795:G:O5'	1.79	0.66
2:FA:26:THR:HG22	2:FA:35:ALA:HB3	1.78	0.66
9:FJ:162:HIS:HD2	9:FJ:164:LEU:H	1.41	0.66
19:FX:16:MET:HE3	19:FX:121:ILE:HD12	1.76	0.66
21:G3:21:G:H4'	34:GM:277:PHE:HD1	1.59	0.66
27:GF:155:LEU:HD13	1:H1:147:U:H1'	1.77	0.66
28:GG:109:UNK:HG3	28:GG:111:UNK:HG3	1.76	0.66
30:GI:144:VAL:HG12	30:GI:144:VAL:O	1.96	0.66
32:GK:145:CYS:HB2	18:HU:177:VAL:HG21	1.78	0.66
20:G2:41:U:C2	42:GU:93:ARG:NH2	2.63	0.66
1:H1:118:A:H4'	1:H1:119:A:C5'	2.24	0.66
1:H1:639:U:O2'	1:H1:640:G:H5'	1.94	0.66
1:A1:1481:U:O2	1:A1:1481:U:H2'	1.94	0.66
1:A1:532:G:H2'	1:A1:533:G:H8	1.59	0.66
5:AE:170:LEU:HA	6:AF:106:PHE:HE1	1.61	0.66
5:AE:52:ILE:HB	5:AE:96:LEU:HB2	1.77	0.66
14:AO:94:ILE:HD12	14:AO:111:LEU:HD12	1.77	0.66
21:B3:83:G:N2	21:B3:93:G:N2	2.43	0.66
21:C3:33:U:C2	34:CM:212:TYR:CD1	2.83	0.66
23:CB:116:LYS:HD3	23:CB:173:LYS:HB2	1.76	0.66
23:CB:382:ARG:O	23:CB:386:VAL:HG23	1.96	0.66
20:C2:73:G:H5'	40:CS:117:LEU:HD11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:157:LYS:NZ	1:D1:2154:A:OP2	2.26	0.66
23:CB:264:ARG:NH2	1:D1:2387:C:HO2'	1.89	0.66
1:D1:2415:C:H2'	1:D1:2416:U:C5'	2.26	0.66
1:D1:250:U:H5'	1:D1:251:A:OP2	1.95	0.66
1:D1:820:G:H2'	1:D1:821:U:H5'	1.76	0.66
1:D1:88:U:C2'	1:D1:89:G:H5'	2.26	0.66
2:DA:17:THR:CG2	2:DA:18:LEU:H	2.07	0.66
13:DN:15:GLN:HE21	13:DN:79:HIS:CE1	2.14	0.66
18:DU:72:GLY:HA3	18:DU:96:ASP:HB2	1.78	0.66
21:E3:59:C:H2'	21:E3:60:C:C6	2.31	0.66
23:EB:141:ALA:HA	23:EB:144:LEU:HD12	1.76	0.66
24:EC:65:MET:HE3	24:EC:105:ARG:HH11	1.61	0.66
24:EC:77:ALA:HA	1:F1:2397:A:OP2	1.96	0.66
1:F1:1376:A:H5''	1:F1:1377:A:C4'	2.25	0.66
1:F1:2100:A:H2'	1:F1:2101:G:C5'	2.20	0.66
1:F1:2187:C:O2'	1:F1:2188:U:H5'	1.95	0.66
1:F1:2275:A:HO2'	1:F1:2276:A:P	2.19	0.66
1:F1:24:A:N3	1:F1:327:U:O2'	2.24	0.66
22:EA:41:TYR:CE1	1:F1:2541:U:C4	2.84	0.66
1:F1:3165:A:H2'	1:F1:3166:A:C8	2.30	0.66
24:EC:275:THR:OG1	1:F1:498:A:H5''	1.95	0.66
9:FJ:70:LEU:HB3	9:FJ:94:VAL:HG22	1.78	0.66
13:FN:96:LEU:HD22	13:FN:113:THR:HG21	1.78	0.66
23:GB:26:ARG:NH1	23:GB:176:ILE:O	2.22	0.66
32:GK:21:ARG:HH12	45:GX:40:ILE:HG22	1.61	0.66
34:GM:179:ARG:HE	34:GM:185:ARG:NH2	1.92	0.66
43:GV:96:VAL:HG22	43:GV:126:ARG:HG3	1.76	0.66
46:GY:26:VAL:HG12	46:GY:30:GLU:HG3	1.77	0.66
1:H1:2216:G:O6	16:HQ:75:LYS:NZ	2.28	0.66
1:H1:3198:A:H2'	1:H1:3199:G:O4'	1.95	0.66
1:H1:62:G:O6	50:H1:3627:HOH:O	2.12	0.66
1:H1:3232:A:H4'	5:HE:55:ALA:CB	2.26	0.66
9:HJ:39:GLU:HB3	9:HJ:43:VAL:CG2	2.26	0.66
9:HJ:70:LEU:HB3	9:HJ:94:VAL:HG22	1.77	0.66
13:HN:41:VAL:HG12	13:HN:43:VAL:CG2	2.26	0.66
14:HO:13:ASN:OD1	14:HO:15:PHE:N	2.27	0.66
1:A1:2966:U:O2'	1:A1:2967:U:H5'	1.96	0.66
1:A1:363:G:H5'	1:A1:363:G:H8	1.58	0.66
1:A1:388:A:OP2	50:A1:4772:HOH:O	2.13	0.66
1:A1:682:G:C8	50:A1:3843:HOH:O	2.49	0.66
1:A1:861:A:O2'	46:BY:12:ARG:HB3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:58:ARG:HH21	23:BB:60:VAL:CG1	2.09	0.66
35:BN:16:VAL:CG1	35:BN:17:VAL:H	2.08	0.66
35:BN:16:VAL:HG12	35:BN:17:VAL:H	1.61	0.66
35:BN:93:LEU:O	35:BN:113:ARG:NH2	2.16	0.66
1:A1:1389:G:H1'	43:BV:156:GLN:OE1	1.96	0.66
20:C2:114:G:H3'	20:C2:114:G:H8	1.61	0.66
23:CB:119:TYR:CD2	23:CB:122:TRP:HZ3	2.13	0.66
24:CC:105:ARG:HG2	24:CC:105:ARG:NH1	2.03	0.66
32:CK:21:ARG:HG3	1:D1:1396:A:H4'	1.78	0.66
35:CN:16:VAL:CG1	35:CN:17:VAL:H	2.07	0.66
35:CN:21:LYS:O	1:D1:696:A:H5''	1.96	0.66
35:CN:89:ASN:OD1	35:CN:90:ASP:N	2.28	0.66
1:D1:1146:C:H42	17:DT:10:LYS:NZ	1.93	0.66
1:D1:132:U:HO2'	1:D1:133:C:P	2.19	0.66
1:D1:2944:A:OP2	50:D1:4282:HOH:O	2.14	0.66
1:D1:568:A:C2	1:D1:602:A:C2	2.84	0.66
1:D1:842:A:N7	2:DA:15:THR:HG23	2.09	0.66
11:DL:5:ILE:CG2	11:DL:6:THR:H	2.08	0.66
11:DL:5:ILE:CG2	11:DL:6:THR:N	2.59	0.66
18:DU:124:PHE:HE2	18:DU:142:THR:HA	1.59	0.66
22:EA:102:VAL:C	22:EA:103:LEU:HD23	2.17	0.66
23:EB:120:LYS:HD2	1:F1:3257:U:OP1	1.96	0.66
23:EB:330:LYS:O	23:EB:331:LYS:HB2	1.96	0.66
29:EH:41:ALA:HB3	29:EH:139:ARG:NH2	2.11	0.66
30:EI:79:PHE:HD2	30:EI:103:ILE:HD13	1.61	0.66
34:EM:250:VAL:HG12	34:EM:254:ILE:HD11	1.78	0.66
42:EU:36:LYS:HZ3	42:EU:45:LEU:HD22	1.59	0.66
43:EV:63:LYS:HG2	43:EV:64:ARG:N	2.10	0.66
24:EC:200:LYS:NZ	1:F1:1445:G:H5''	2.11	0.66
1:F1:2394:A:N7	50:F1:4139:HOH:O	2.28	0.66
1:F1:563:G:H5'	1:F1:564:A:OP1	1.95	0.66
33:EL:169:ARG:NH2	1:F1:62:G:OP2	2.28	0.66
1:F1:861:A:H62	1:F1:882:G:H1'	1.61	0.66
5:FE:113:GLU:HG3	5:FE:114:ASP:H	1.60	0.66
8:FH:15:TRP:CD1	8:FH:105:ARG:HG2	2.31	0.66
18:FU:56:VAL:CG1	18:FU:57:ARG:H	2.09	0.66
18:FU:59:GLN:HG2	18:FU:59:GLN:O	1.95	0.66
23:GB:81:CYS:CB	23:GB:203:VAL:HG21	2.25	0.66
38:GQ:71:ARG:HG2	38:GQ:81:THR:HG22	1.77	0.66
42:GU:21:GLU:HG2	42:GU:58:TYR:CZ	2.31	0.66
1:H1:1127:U:H2'	1:H1:1128:G:H8	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:10:LYS:HD2	1:H1:2178:A:OP1	1.95	0.66
23:GB:264:ARG:NH2	1:H1:2387:C:HO2'	1.93	0.66
1:H1:2399:A:H2'	1:H1:2399:A:N3	2.11	0.66
1:H1:2718:U:O5'	50:H1:4319:HOH:O	2.13	0.66
23:GB:123:ALA:HB1	1:H1:3276:C:OP1	1.96	0.66
1:H1:820:G:H2'	1:H1:821:U:H5'	1.76	0.66
1:H1:532:G:OP1	5:HE:127:LYS:NZ	2.29	0.66
5:HE:179:THR:HG22	5:HE:180:LEU:O	1.96	0.66
5:HE:190:LYS:HD2	6:HF:101:ALA:O	1.95	0.66
1:A1:2264:U:O2	1:A1:2264:U:H2'	1.94	0.66
1:A1:2416:U:H2'	1:A1:2417:C:O4'	1.96	0.66
1:A1:2544:U:H4'	7:AG:50:THR:OG1	1.95	0.66
1:A1:2552:A:H1'	27:BF:25:LYS:HB2	1.78	0.66
2:AA:20:ARG:NH2	20:B2:111:A:C5	2.64	0.66
19:AX:16:MET:CE	19:AX:18:VAL:HG22	2.26	0.66
20:B2:27:G:OP2	40:BS:12:ARG:NH1	2.26	0.66
2:AA:71:ILE:HD13	20:B2:38:C:H4'	1.77	0.66
28:BG:23:UNK:HB2	28:BG:92:UNK:HB2	1.78	0.66
33:BL:183:SER:HA	33:BL:191:ASN:HD22	1.59	0.66
21:B3:13:A:O2'	34:BM:24:ARG:NH2	2.29	0.66
37:BP:68:ASN:HB3	37:BP:69:PRO:HD2	1.77	0.66
46:BY:57:CYS:SG	46:BY:59:PRO:HD2	2.36	0.66
20:C2:58:U:N3	20:C2:65:C:H5	1.92	0.66
32:CK:76:ASN:CG	32:CK:115:LYS:HB2	2.15	0.66
46:CY:26:VAL:HG12	46:CY:30:GLU:HG3	1.77	0.66
1:D1:1051:C:H2'	1:D1:1052:A:C8	2.30	0.66
1:D1:282:G:H22	1:D1:304:U:H5'	1.61	0.66
1:D1:454:A:H61	1:D1:524:G:H1'	1.60	0.66
1:D1:467:A:C6	1:D1:468:A:C5	2.84	0.66
1:D1:548:G:H1	1:D1:619:G:H22	1.44	0.66
19:DX:113:LEU:HD11	19:DX:140:THR:HG21	1.76	0.66
28:EG:14:UNK:O	28:EG:18:UNK:HG2	1.96	0.66
31:EJ:86:ARG:H	31:EJ:102:ASN:HD21	1.43	0.66
33:EL:120:TRP:CH2	33:EL:122:GLY:HA2	2.30	0.66
33:EL:183:SER:HA	33:EL:191:ASN:HD21	1.54	0.66
37:EP:68:ASN:HB3	37:EP:69:PRO:HD2	1.78	0.66
37:EP:40:VAL:HG11	37:EP:96:VAL:HG13	1.78	0.66
43:EV:178:VAL:O	43:EV:182:ILE:HG13	1.96	0.66
43:EV:8:ASN:HB3	1:F1:1376:A:H2'	1.77	0.66
41:ET:57:ARG:NH1	1:F1:3321:U:OP1	2.29	0.66
1:F1:634:G:H5'	5:FE:30:ARG:HH22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FH:15:TRP:NE1	8:FH:105:ARG:HG2	2.11	0.66
9:FJ:145:ASN:HD22	9:FJ:146:VAL:N	1.94	0.66
20:G2:114:G:H3'	20:G2:114:G:C8	2.31	0.66
20:G2:74:A:H5''	40:GS:50:ARG:HE	1.60	0.66
22:GA:244:THR:HG21	1:H1:2239:A:C4'	2.26	0.66
34:GM:33:ARG:NH2	34:GM:72:ASP:OD2	2.29	0.66
1:H1:1090:A:O2'	1:H1:1091:G:OP1	2.08	0.66
42:GU:76:GLY:HA2	1:H1:133:C:C2'	2.25	0.66
45:GX:80:ASN:HB3	1:H1:1413:G:O2'	1.96	0.66
1:H1:257:G:C2'	1:H1:258:A:H5'	2.25	0.66
1:H1:2975:A:H2'	1:H1:2976:C:C6	2.31	0.66
1:H1:3332:A:O2'	1:H1:3333:G:OP1	2.11	0.66
1:H1:548:G:H22	1:H1:619:G:H21	1.44	0.66
1:A1:1376:A:C5'	1:A1:1377:A:H5'	2.26	0.66
1:A1:1425:U:H4'	1:A1:1426:G:OP1	1.94	0.66
1:A1:1897:U:OP1	36:BO:56:VAL:HG23	1.96	0.66
1:A1:2862:G:OP2	50:A1:4264:HOH:O	2.13	0.66
1:A1:3044:A:H2'	1:A1:3074:G:N1	2.11	0.66
2:AA:21:ARG:CD	2:AA:44:MET:HE1	2.26	0.66
14:AO:16:LEU:CD1	14:AO:35:ASN:HD22	2.09	0.66
18:AU:54:PRO:HD3	18:AU:73:PHE:CE2	2.30	0.66
21:B3:105:C:H6	21:B3:105:C:C5'	2.09	0.66
22:BA:205:MET:HE2	22:BA:209:ASP:HB3	1.76	0.66
27:BF:75:LYS:O	27:BF:172:PHE:HB2	1.96	0.66
21:B3:2:U:H4'	34:BM:278:TYR:CZ	2.31	0.66
34:BM:34:LYS:O	34:BM:38:ILE:HG23	1.96	0.66
34:BM:66:TYR:OH	34:BM:73:ARG:HD2	1.96	0.66
36:BO:115:ILE:HG22	36:BO:119:GLN:CB	2.26	0.66
20:C2:105:A:C8	20:C2:106:A:C8	2.84	0.66
32:CK:100:PRO:HA	18:DU:164:LYS:CD	2.26	0.66
34:CM:122:GLN:NE2	34:CM:126:ASP:OD2	2.28	0.66
35:CN:73:ASN:H	35:CN:76:ASN:CB	2.09	0.66
42:CU:21:GLU:HG2	42:CU:58:TYR:CZ	2.31	0.66
1:D1:1130:A:C5'	1:D1:1131:G:OP2	2.44	0.66
1:D1:1598:C:H2'	1:D1:1599:G:H5'	1.78	0.66
1:D1:2181:U:H2'	1:D1:2182:G:O4'	1.96	0.66
1:D1:2356:A:C2'	1:D1:2357:C:O5'	2.44	0.66
1:D1:169:A:OP2	1:D1:249:G:N2	2.29	0.66
1:D1:2686:A:H2'	1:D1:2687:G:C8	2.31	0.66
1:D1:3263:G:H4'	1:D1:3264:U:O5'	1.94	0.66
1:D1:453:A:H2'	1:D1:454:A:H8	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DE:49:THR:HG22	5:DE:50:VAL:N	2.10	0.66
11:DL:37:LYS:HB2	11:DL:60:ARG:NH2	2.11	0.66
23:EB:371:VAL:HG13	23:EB:382:ARG:CZ	2.26	0.66
35:EN:45:PHE:HE1	35:EN:139:LEU:HB2	1.59	0.66
35:EN:92:ARG:CZ	1:F1:810:G:N7	2.59	0.66
1:F1:1035:A:H2'	1:F1:1036:G:C8	2.30	0.66
1:F1:1920:A:OP2	50:F1:4307:HOH:O	2.11	0.66
1:F1:2256:G:H3'	1:F1:2257:A:C5'	2.25	0.66
23:EB:238:LYS:HE3	1:F1:2332:C:OP2	1.95	0.66
1:F1:2744:C:OP2	50:F1:4482:HOH:O	2.14	0.66
1:F1:3157:C:H4'	1:F1:3158:G:C5'	2.25	0.66
1:F1:3185:G:C4	1:F1:3237:C:N3	2.64	0.66
1:F1:713:G:O6	1:F1:716:A:OP1	2.13	0.66
8:FH:15:TRP:CH2	8:FH:105:ARG:CZ	2.79	0.66
18:FU:177:VAL:O	18:FU:181:ILE:HG13	1.96	0.66
22:GA:33:TYR:HA	22:GA:164:ARG:NH2	2.11	0.66
23:GB:371:VAL:HG13	23:GB:382:ARG:CZ	2.26	0.66
24:GC:65:MET:HE3	24:GC:105:ARG:CD	2.25	0.66
24:GC:115:ARG:O	24:GC:115:ARG:HG2	1.96	0.66
24:GC:272:THR:HG22	24:GC:273:TYR:H	1.60	0.66
36:GO:114:LYS:HB3	36:GO:146:LYS:NZ	2.10	0.66
1:H1:1051:C:C2	1:H1:1052:A:C8	2.84	0.66
1:H1:1617:G:HO2'	1:H1:1618:A:P	2.19	0.66
1:H1:2875:A:N3	1:H1:2875:A:H2'	2.11	0.66
1:H1:2930:C:H3'	50:H1:3940:HOH:O	1.95	0.66
1:H1:3168:A:C8	1:H1:3168:A:OP1	2.46	0.66
1:H1:592:A:H2'	1:H1:593:U:C6	2.32	0.66
1:H1:607:U:O2'	1:H1:608:C:H5'	1.94	0.66
1:H1:2641:U:H5'	4:HC:63:THR:HG21	1.77	0.66
5:HE:42:ARG:NH2	5:HE:92:GLN:O	2.28	0.66
12:HM:35:PHE:HE1	12:HM:39:LEU:HD11	1.61	0.66
18:HU:146:ALA:HB1	18:HU:148:ASN:ND2	2.11	0.66
1:A1:752:C:H5'	1:A1:1002:A:C2	2.31	0.65
1:A1:2208:A:H3'	50:A1:4561:HOH:O	1.95	0.65
1:A1:3198:A:H2'	1:A1:3199:G:O4'	1.96	0.65
1:A1:449:G:H2'	1:A1:450:C:H6	1.61	0.65
9:AJ:43:VAL:HG12	9:AJ:44:PRO:CD	2.25	0.65
1:A1:2761:U:O2	18:AU:190:TRP:HZ2	1.78	0.65
19:AX:94:LYS:HA	19:AX:102:HIS:O	1.95	0.65
21:B3:81:A:H2'	21:B3:82:G:C5'	2.26	0.65
34:BM:163:LEU:HD12	34:BM:173:ILE:HG21	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B3:1:G:H4'	34:BM:275:LYS:HZ3	1.61	0.65
37:BP:91:VAL:HG12	37:BP:92:LYS:O	1.94	0.65
22:CA:244:THR:HG21	1:D1:2239:A:C4'	2.26	0.65
25:CD:124:GLY:HA3	1:D1:2663:A:C6	2.30	0.65
30:CI:37:THR:O	30:CI:40:ILE:HG13	1.97	0.65
32:CK:91:LYS:HE2	32:CK:92:TYR:CZ	2.31	0.65
45:CX:79:ARG:NH1	1:D1:1448:G:C4'	2.59	0.65
46:CY:71:LEU:HD12	46:CY:71:LEU:O	1.96	0.65
1:D1:1926:G:OP1	50:D1:4615:HOH:O	2.13	0.65
1:D1:2251:A:H2'	1:D1:2252:C:OP2	1.96	0.65
21:E3:9:C:H5''	21:E3:10:C:OP2	1.96	0.65
26:EE:88:PHE:CD1	26:EE:182:LYS:HA	2.30	0.65
30:EI:69:VAL:CG2	1:F1:2377:G:O2'	2.43	0.65
35:EN:31:ILE:HG22	35:EN:35:LYS:HE3	1.78	0.65
1:F1:1047:G:O2'	1:F1:1048:U:H5'	1.97	0.65
1:F1:1078:U:C5	1:F1:1079:A:C8	2.83	0.65
36:EO:96:MET:HG2	1:F1:1746:U:H1'	1.78	0.65
1:F1:1921:G:C2'	1:F1:1922:G:H5'	2.27	0.65
1:F1:2209:A:OP2	50:F1:4394:HOH:O	2.14	0.65
20:G2:3:A:C2	1:H1:3243:A:O4'	2.49	0.65
21:G3:83:G:H22	21:G3:93:G:H21	1.44	0.65
29:GH:38:ARG:HD3	29:GH:41:ALA:HB2	1.77	0.65
40:GS:121:LYS:HE2	1:H1:186:U:OP1	1.97	0.65
42:GU:74:PHE:HB3	42:GU:80:LYS:HE3	1.77	0.65
30:GI:86:MET:CE	1:H1:1201:G:N2	2.58	0.65
1:H1:2309:U:H4'	50:H1:3960:HOH:O	1.95	0.65
1:H1:2349:C:N4	50:H1:4257:HOH:O	2.03	0.65
37:GP:5:TYR:O	1:H1:2619:C:OP1	2.13	0.65
1:H1:485:A:C4'	1:H1:486:C:OP1	2.40	0.65
1:H1:985:U:H5''	50:H1:4324:HOH:O	1.95	0.65
13:HN:22:LYS:NZ	13:HN:140:SER:HB3	2.11	0.65
18:HU:100:LYS:HE2	18:HU:102:ARG:HH21	1.60	0.65
1:A1:1181:A:C4'	1:A1:1182:C:OP2	2.44	0.65
1:A1:838:G:H1'	2:AA:50:TRP:HZ2	1.62	0.65
5:AE:179:THR:HG22	5:AE:180:LEU:O	1.96	0.65
1:A1:71:U:C5	18:AU:64:ASN:HB3	2.30	0.65
27:BF:92:TYR:HE2	27:BF:123:ILE:HG21	1.61	0.65
40:BS:34:LEU:HD12	40:BS:44:VAL:O	1.96	0.65
41:BT:5:THR:CG2	41:BT:14:ARG:HG3	2.24	0.65
21:C3:93:G:O5'	21:C3:93:G:H8	1.79	0.65
26:CE:38:PHE:CD2	26:CE:71:ILE:HG23	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CK:75:VAL:CG2	32:CK:109:PHE:CG	2.79	0.65
32:CK:119:PRO:HG3	35:CN:94:LEU:CD1	2.27	0.65
1:D1:419:A:C2	1:D1:2358:A:H4'	2.31	0.65
1:D1:732:C:O2	1:D1:778:G:O2'	2.13	0.65
6:DF:112:MET:O	6:DF:116:LYS:HG3	1.95	0.65
18:DU:22:THR:HG23	18:DU:24:PHE:HD1	1.60	0.65
24:EC:215:VAL:CG1	24:EC:238:VAL:HG22	2.22	0.65
34:EM:184:VAL:HB	34:EM:194:LYS:HB2	1.77	0.65
36:EO:115:ILE:HG22	36:EO:119:GLN:CB	2.26	0.65
41:ET:41:LEU:HD13	41:ET:51:ILE:HD13	1.77	0.65
42:EU:21:GLU:HG2	42:EU:58:TYR:CZ	2.31	0.65
43:EV:118:LYS:O	43:EV:122:ASN:HB2	1.97	0.65
43:EV:88:GLY:HA3	1:F1:1185:A:H5''	1.78	0.65
43:EV:96:VAL:HG22	43:EV:126:ARG:HG3	1.79	0.65
1:F1:1215:U:H3	1:F1:1344:A:N6	1.94	0.65
1:F1:25:C:H1'	1:F1:327:U:H1'	1.78	0.65
1:F1:579:G:O2'	19:FX:159:ALA:N	2.29	0.65
1:F1:756:C:H2'	1:F1:757:C:H5''	1.76	0.65
32:EK:61:ARG:NH2	1:F1:88:U:OP1	2.27	0.65
1:F1:970:C:H2'	1:F1:971:C:H6	1.61	0.65
4:FC:26:TYR:HB3	4:FC:67:ALA:HB3	1.78	0.65
16:FQ:58:ILE:O	16:FQ:62:ILE:HG13	1.96	0.65
24:GC:170:LYS:HE3	1:H1:209:A:OP2	1.96	0.65
24:GC:175:PHE:CE1	24:GC:179:VAL:HG21	2.30	0.65
24:GC:185:VAL:O	24:GC:188:VAL:HG22	1.96	0.65
32:GK:119:PRO:HG3	35:GN:94:LEU:CD1	2.25	0.65
33:GL:30:TYR:CD2	33:GL:63:ARG:HD3	2.30	0.65
39:GR:120:THR:O	39:GR:121:LEU:HD23	1.96	0.65
45:GX:87:LEU:O	45:GX:91:ASN:N	2.29	0.65
46:GY:45:VAL:O	46:GY:45:VAL:CG2	2.43	0.65
1:H1:1598:C:H2'	1:H1:1599:G:H5'	1.78	0.65
1:H1:2253:U:O2'	1:H1:2254:A:H5'	1.95	0.65
1:H1:2741:U:H4'	1:H1:2742:G:OP2	1.96	0.65
1:H1:357:G:OP2	50:H1:3691:HOH:O	2.15	0.65
20:G2:37:A:C2	2:HA:72:ALA:HA	2.31	0.65
5:HE:113:GLU:HG3	5:HE:114:ASP:H	1.59	0.65
7:HG:102:LYS:O	7:HG:103:THR:OG1	2.12	0.65
8:HH:23:PHE:CD2	8:HH:32:SER:HA	2.30	0.65
14:HO:90:VAL:CG1	14:HO:111:LEU:HD11	2.26	0.65
16:HQ:15:THR:CG2	18:HU:103:CYS:SG	2.84	0.65
18:HU:54:PRO:HD3	18:HU:73:PHE:CD2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1153:G:O2'	29:BH:118:ALA:HB3	1.95	0.65
1:A1:1773:G:OP1	15:AP:43:LYS:NZ	2.22	0.65
1:A1:2330:G:N7	50:A1:4466:HOH:O	2.28	0.65
1:A1:243:G:H5'	1:A1:243:G:C8	2.30	0.65
1:A1:2678:A:H1'	1:A1:2691:A:H62	1.61	0.65
1:A1:2761:U:H4'	1:A1:2762:U:OP1	1.96	0.65
1:A1:2952:G:N2	1:A1:2955:A:OP2	2.28	0.65
1:A1:3214:A:H5''	1:A1:3215:C:C6	2.30	0.65
1:A1:711:U:H3	1:A1:718:A:N6	1.92	0.65
1:A1:784:G:H1'	1:A1:796:A:N6	2.11	0.65
1:A1:3228:U:O2	5:AE:142:GLU:HG3	1.97	0.65
11:AL:41:TYR:HB3	11:AL:58:GLN:HE21	1.58	0.65
18:AU:52:LEU:HD23	18:AU:93:ILE:HG23	1.78	0.65
20:B2:86:G:N1	40:BS:111:ASP:OD2	2.29	0.65
22:BA:254:LYS:O	22:BA:258:LYS:HG3	1.97	0.65
24:BC:81:ILE:HD13	24:BC:101:CYS:SG	2.36	0.65
32:BK:14:HIS:O	32:BK:15:VAL:HG22	1.96	0.65
43:BV:194:GLU:OE1	43:BV:194:GLU:N	2.28	0.65
45:BX:87:LEU:O	45:BX:91:ASN:N	2.30	0.65
20:C2:124:U:O2'	20:C2:126:A:N7	2.27	0.65
21:C3:60:C:H5''	34:CM:281:LYS:HG2	1.76	0.65
22:CA:20:HIS:HD2	22:CA:193:LYS:O	1.78	0.65
24:CC:195:ARG:HD3	24:CC:199:GLY:HA3	1.78	0.65
24:CC:32:PRO:CG	24:CC:286:GLN:HB3	2.26	0.65
25:CD:101:ASN:HD21	25:CD:130:VAL:HG13	1.60	0.65
27:CF:71:HIS:CE1	27:CF:226:GLY:HA3	2.30	0.65
30:CI:16:GLY:O	30:CI:19:ALA:HB3	1.96	0.65
47:CO:65:ALA:O	47:CO:68:GLU:HB3	1.96	0.65
1:D1:1134:C:C2'	1:D1:1135:U:H5''	2.26	0.65
27:CF:130:ASN:HB2	1:D1:148:G:O6	1.95	0.65
1:D1:2574:U:H5'	1:D1:2575:G:OP1	1.96	0.65
1:D1:2860:A:H5'	1:D1:2860:A:N3	2.11	0.65
1:D1:2994:G:O2'	1:D1:2995:A:H8	1.80	0.65
1:D1:3168:A:C5	19:DX:166:VAL:HG11	2.31	0.65
1:D1:3167:U:C4'	1:D1:3168:A:O5'	2.42	0.65
30:CI:196:PHE:CD1	6:DF:111:VAL:HG22	2.31	0.65
9:DJ:39:GLU:HB3	9:DJ:43:VAL:CG2	2.26	0.65
14:DO:110:LYS:O	14:DO:114:PHE:HB2	1.96	0.65
17:DT:55:LYS:HB3	17:DT:59:LEU:HD23	1.78	0.65
24:EC:299:ILE:HD12	1:F1:1375:A:C2	2.31	0.65
24:EC:42:PHE:CZ	24:EC:46:ASN:ND2	2.64	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:EN:2:ALA:HB2	1:F1:1186:A:H3'	1.79	0.65
45:EX:87:LEU:O	45:EX:91:ASN:N	2.29	0.65
27:EF:127:TYR:CZ	1:F1:117:G:N2	2.65	0.65
1:F1:1181:A:C4'	1:F1:1182:C:OP2	2.45	0.65
1:F1:1600:U:C4	1:F1:1601:U:C4	2.85	0.65
1:F1:1918:U:HO2'	1:F1:1919:A:H5''	1.62	0.65
1:F1:2640:G:O2'	1:F1:2784:G:C6	2.49	0.65
1:F1:2997:A:O2'	1:F1:2998:G:H5'	1.97	0.65
22:EA:14:ASN:HB3	1:F1:930:U:H5'	1.79	0.65
3:FB:33:THR:CG2	3:FB:35:ILE:H	2.03	0.65
5:FE:19:TYR:OH	14:FO:109:LYS:HG2	1.96	0.65
14:FO:62:LEU:HD11	14:FO:97:ARG:CD	2.27	0.65
20:G2:33:C:H2'	20:G2:34:G:H5'	1.79	0.65
23:GB:281:TYR:CE2	23:GB:323:LYS:HB2	2.31	0.65
23:GB:375:ASP:HB3	23:GB:380:ARG:O	1.97	0.65
26:GE:167:GLU:C	26:GE:168:LYS:HG2	2.16	0.65
37:GP:41:ASP:OD1	37:GP:61:THR:OG1	2.07	0.65
38:GQ:34:VAL:HG22	38:GQ:60:ILE:CD1	2.27	0.65
45:GX:60:ALA:HA	1:H1:1431:U:H5'	1.78	0.65
1:H1:2574:U:C4'	1:H1:2575:G:OP1	2.44	0.65
1:H1:1252:A:C2	1:H1:3105:G:N7	2.64	0.65
1:H1:368:A:H5'	1:H1:369:U:OP1	1.97	0.65
1:H1:792:G:H5'	18:HU:190:TRP:CE2	2.31	0.65
5:HE:63:VAL:HG11	5:HE:76:VAL:HG13	1.79	0.65
1:A1:1758:U:C4'	1:A1:1759:C:OP2	2.42	0.65
1:A1:2343:A:H3'	1:A1:2344:U:C5'	2.25	0.65
1:A1:2875:A:N3	1:A1:2875:A:H2'	2.10	0.65
1:A1:2884:A:N6	50:A1:4593:HOH:O	2.16	0.65
1:A1:3011:G:H4'	1:A1:3012:U:O5'	1.96	0.65
1:A1:633:C:H3'	5:AE:30:ARG:HH22	1.61	0.65
1:A1:1700:A:OP2	12:AM:74:SER:HB2	1.96	0.65
21:B3:62:U:O2'	21:B3:63:A:OP2	2.13	0.65
22:BA:12:ARG:HH21	22:BA:14:ASN:HD22	1.43	0.65
23:BB:194:LYS:HA	23:BB:197:LEU:CD1	2.26	0.65
1:A1:686:U:C1'	24:BC:107:PHE:HE2	2.07	0.65
24:BC:272:THR:HG22	24:BC:273:TYR:H	1.61	0.65
30:BI:144:VAL:O	30:BI:144:VAL:HG12	1.96	0.65
43:BV:212:ARG:O	50:BV:305:HOH:O	2.14	0.65
46:BY:7:LYS:O	46:BY:27:LYS:NZ	2.26	0.65
24:CC:251:HIS:CD2	1:D1:1410:G:O2'	2.50	0.65
26:CE:167:GLU:C	26:CE:168:LYS:HG2	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CK:111:LYS:HG3	32:CK:129:TYR:HB2	1.78	0.65
21:C3:116:A:O3'	34:CM:260:ARG:NH2	2.28	0.65
47:CO:170:UNK:HA	47:CO:174:UNK:CG	2.26	0.65
38:CQ:62:PHE:CE1	38:CQ:84:ARG:HB2	2.31	0.65
1:D1:121:A:N6	1:D1:150:A:N6	2.45	0.65
1:D1:2100:A:H2'	1:D1:2101:G:C5'	2.19	0.65
1:D1:3011:G:H4'	1:D1:3012:U:O5'	1.96	0.65
1:D1:526:U:O2'	1:D1:527:A:H8	1.75	0.65
1:D1:842:A:OP2	50:D1:4088:HOH:O	2.13	0.65
1:D1:978:G:C8	1:D1:1144:G:C8	2.84	0.65
12:DM:55:ASN:HD22	12:DM:71:ILE:HD11	1.60	0.65
1:D1:157:A:O5'	16:DQ:25:HIS:HE1	1.78	0.65
1:D1:709:G:OP1	18:DU:37:ARG:NH2	2.28	0.65
23:EB:162:THR:HB	23:EB:175:HIS:HB2	1.77	0.65
23:EB:54:THR:CG2	23:EB:55:HIS:H	2.09	0.65
21:E3:54:A:H5'	25:ED:7:ASN:ND2	2.11	0.65
35:EN:36:PHE:CE2	1:F1:1375:A:H2'	2.31	0.65
33:EL:147:ARG:HE	42:EU:105:LEU:HD21	1.61	0.65
43:EV:117:ASN:O	43:EV:121:LEU:HB2	1.97	0.65
1:F1:1004:U:C5'	1:F1:1004:U:H6	2.06	0.65
43:EV:91:GLN:HE21	1:F1:1167:G:H4'	1.62	0.65
1:F1:1361:U:C5'	1:F1:1361:U:H6	2.10	0.65
1:F1:2276:A:H1'	1:F1:2962:U:O2'	1.95	0.65
1:F1:526:U:O2'	1:F1:527:A:H8	1.77	0.65
1:F1:548:G:H1	1:F1:619:G:H22	1.45	0.65
23:GB:382:ARG:O	23:GB:386:VAL:HG23	1.96	0.65
24:GC:42:PHE:CZ	24:GC:46:ASN:ND2	2.65	0.65
32:GK:106:LYS:HD3	18:HU:160:SER:CB	2.27	0.65
34:GM:243:VAL:HG12	34:GM:247:PHE:HD2	1.59	0.65
35:GN:45:PHE:CE1	35:GN:139:LEU:HD22	2.32	0.65
36:GO:65:ALA:O	36:GO:68:GLU:HB3	1.96	0.65
1:H1:1563:A:OP2	50:H1:3846:HOH:O	2.14	0.65
40:GS:59:ARG:NH1	1:H1:200:C:OP2	2.29	0.65
23:GB:238:LYS:HE3	1:H1:2332:C:OP2	1.97	0.65
9:HJ:63:THR:HG22	9:HJ:72:VAL:HA	1.78	0.65
11:HL:41:TYR:HB3	11:HL:58:GLN:HE21	1.61	0.65
11:HL:73:THR:HG22	11:HL:74:VAL:H	1.60	0.65
1:H1:527:A:HO2'	14:HO:88:GLN:HE21	1.42	0.65
1:A1:1027:G:N3	1:A1:1027:G:H2'	2.11	0.65
1:A1:1567:A:H61	1:A1:1578:U:H3	1.44	0.65
1:A1:3115:C:H1'	26:BE:154:GLN:NE2	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:5:CYS:SG	9:AJ:13:ILE:HD13	2.37	0.65
5:AE:18:TRP:CB	14:AO:95:ARG:HH21	2.10	0.65
17:AT:30:ILE:HG22	37:BP:88:ARG:HH22	1.61	0.65
1:A1:1210:C:H5''	19:AX:171:ARG:HH21	1.60	0.65
21:B3:9:C:H5''	21:B3:10:C:OP2	1.96	0.65
23:BB:119:TYR:CD2	23:BB:122:TRP:CZ3	2.85	0.65
1:A1:2931:G:C8	23:BB:2:SER:HB3	2.31	0.65
1:A1:816:A:OP1	24:BC:115:ARG:NH2	2.29	0.65
43:BV:63:LYS:HG2	43:BV:64:ARG:N	2.10	0.65
1:A1:1187:C:C2	45:BX:47:ARG:NH1	2.64	0.65
27:CF:92:TYR:HE2	27:CF:123:ILE:HG21	1.62	0.65
27:CF:159:LEU:HB2	27:CF:160:PRO:HD3	1.77	0.65
29:CH:42:THR:HG23	29:CH:192:THR:HG21	1.77	0.65
30:CI:158:LYS:C	30:CI:158:LYS:HD3	2.17	0.65
21:C3:110:G:O6	34:CM:21:ARG:HD2	1.97	0.65
1:D1:1193:G:H2'	1:D1:1194:A:C8	2.31	0.65
1:D1:1700:A:OP2	12:DM:74:SER:HB2	1.97	0.65
1:D1:2633:C:H5''	1:D1:2634:G:OP2	1.96	0.65
1:D1:2659:G:H2'	1:D1:2660:A:C8	2.32	0.65
1:D1:511:U:H2'	1:D1:512:G:H8	1.61	0.65
1:D1:548:G:H22	1:D1:619:G:H21	1.40	0.65
24:CC:99:ASN:ND2	1:D1:828:C:O2'	2.28	0.65
18:DU:59:GLN:O	18:DU:59:GLN:HG2	1.97	0.65
22:EA:239:ARG:NH1	1:F1:2158:C:C5'	2.50	0.65
23:EB:119:TYR:CD2	23:EB:122:TRP:CZ3	2.84	0.65
34:EM:31:TYR:O	34:EM:35:ARG:HG2	1.96	0.65
39:ER:96:ASN:HA	39:ER:128:LYS:HG3	1.78	0.65
42:EU:74:PHE:HB3	42:EU:80:LYS:HE3	1.78	0.65
1:F1:1090:A:O2'	1:F1:1091:G:OP1	2.13	0.65
1:F1:1193:G:H2'	1:F1:1194:A:C8	2.31	0.65
39:ER:43:LEU:HD11	1:F1:1599:G:H5''	1.79	0.65
1:F1:2961:G:H2'	1:F1:2962:U:H5''	1.77	0.65
1:F1:3167:U:C4'	1:F1:3168:A:O5'	2.42	0.65
24:EC:55:VAL:HG13	1:F1:345:C:OP1	1.97	0.65
1:F1:625:C:H2'	1:F1:626:C:H5'	1.76	0.65
1:F1:897:A:O2'	1:F1:898:C:H5'	1.96	0.65
1:F1:1658:G:N7	13:FN:17:ARG:NH1	2.44	0.65
19:FX:16:MET:HG2	19:FX:17:LYS:N	2.12	0.65
19:FX:83:LEU:HD22	19:FX:111:VAL:HG12	1.78	0.65
24:GC:167:GLU:N	24:GC:171:GLN:NE2	2.42	0.65
24:GC:69:ALA:HB3	24:GC:97:PHE:CZ	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:GK:145:CYS:CB	18:HU:177:VAL:HG21	2.26	0.65
1:H1:1141:U:O4	1:H1:1142:G:N2	2.30	0.65
1:H1:1373:G:H2'	1:H1:1374:C:H6	1.61	0.65
1:H1:1376:A:C5'	1:H1:1377:A:H5'	2.26	0.65
1:H1:1770:A:H2'	1:H1:1771:U:C6	2.31	0.65
46:GY:19:GLY:HA2	1:H1:1949:U:O2	1.95	0.65
1:H1:2133:U:H5	1:H1:2138:A:N7	1.94	0.65
1:H1:243:G:H5'	1:H1:243:G:C8	2.32	0.65
1:H1:2640:G:O2'	1:H1:2784:G:C6	2.46	0.65
1:H1:2794:U:O4	50:H1:3648:HOH:O	2.13	0.65
1:H1:3189:G:H5''	50:H1:4361:HOH:O	1.97	0.65
13:HN:41:VAL:HG23	13:HN:77:LEU:HD23	1.78	0.65
1:A1:1041:C:H3'	1:A1:1042:U:H5''	1.79	0.65
1:A1:1191:G:H2'	1:A1:1192:A:H8	1.62	0.65
1:A1:213:A:N6	1:A1:227:G:O2'	2.25	0.65
1:A1:3044:A:H4'	1:A1:3045:A:OP2	1.97	0.65
1:A1:313:U:H2'	1:A1:314:C:C6	2.32	0.65
1:A1:686:U:H1'	24:BC:107:PHE:CE2	2.28	0.65
7:AG:95:ALA:CB	7:AG:101:LEU:HD11	2.22	0.65
12:AM:35:PHE:HE1	12:AM:39:LEU:HD11	1.61	0.65
20:B2:3:A:C4'	20:B2:4:A:OP2	2.45	0.65
24:BC:238:VAL:HG21	24:BC:262:ALA:CA	2.26	0.65
1:A1:3115:C:H1'	26:BE:154:GLN:HE22	1.62	0.65
29:BH:140:VAL:CG1	29:BH:144:HIS:HB2	2.27	0.65
32:BK:75:VAL:CG2	32:BK:109:PHE:CG	2.80	0.65
34:CM:33:ARG:NH2	34:CM:72:ASP:OD2	2.29	0.65
35:CN:56:SER:HB3	1:D1:695:U:OP1	1.97	0.65
22:CA:2:GLY:HA2	1:D1:2597:G:OP1	1.97	0.65
1:D1:362:G:C3'	1:D1:363:G:H5''	2.27	0.65
3:DB:28:ARG:NE	3:DB:36:ARG:O	2.29	0.65
6:DF:49:PRO:HG2	6:DF:52:ARG:HG3	1.77	0.65
13:DN:22:LYS:NZ	13:DN:140:SER:HB3	2.11	0.65
32:CK:143:GLY:N	18:DU:173:ARG:HH21	1.94	0.65
18:DU:176:LYS:O	18:DU:180:ILE:HG13	1.96	0.65
1:D1:71:U:C5	18:DU:64:ASN:HB3	2.32	0.65
6:DF:45:ARG:NH1	19:DX:84:ASN:HB3	2.12	0.65
21:E3:111:U:O4	34:EM:21:ARG:NH1	2.30	0.65
23:EB:337:ARG:NH2	23:EB:340:ILE:HG23	2.12	0.65
24:EC:238:VAL:HG21	24:EC:262:ALA:CA	2.25	0.65
25:ED:101:ASN:HD21	25:ED:130:VAL:HG13	1.62	0.65
27:EF:176:LYS:CB	27:EF:187:THR:HG23	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EH:77:ILE:HG13	29:EH:78:LYS:N	2.12	0.65
32:EK:14:HIS:ND1	50:EK:205:HOH:O	2.28	0.65
34:EM:34:LYS:O	34:EM:38:ILE:HG23	1.97	0.65
35:EN:110:ALA:O	35:EN:114:ILE:HG23	1.96	0.65
35:EN:18:ARG:NH1	35:EN:56:SER:HA	2.12	0.65
39:ER:73:THR:HG23	42:EU:37:ILE:CD1	2.26	0.65
1:F1:1191:G:H2'	1:F1:1192:A:H8	1.61	0.65
39:ER:79:LYS:NZ	1:F1:1548:U:OP1	2.26	0.65
1:F1:232:C:O2'	1:F1:233:G:OP1	2.15	0.65
1:F1:2613:G:H21	1:F1:2615:A:H2	1.45	0.65
1:F1:2633:C:H5''	1:F1:2634:G:OP2	1.96	0.65
1:F1:2671:C:C2'	1:F1:2672:U:H5'	2.26	0.65
38:EQ:71:ARG:HD2	1:F1:3268:C:O2	1.96	0.65
1:F1:3291:G:O2'	1:F1:3292:U:C6	2.49	0.65
24:EC:87:SER:HB2	1:F1:356:U:O2'	1.97	0.65
1:F1:563:G:H2'	1:F1:566:U:H1'	1.77	0.65
1:F1:628:A:H4'	1:F1:629:A:OP2	1.95	0.65
8:FH:13:ARG:HG2	8:FH:15:TRP:CZ3	2.30	0.65
16:FQ:77:ALA:HB1	16:FQ:87:ALA:HA	1.79	0.65
18:FU:146:ALA:HB1	18:FU:148:ASN:ND2	2.10	0.65
19:FX:167:LYS:HG2	19:FX:188:THR:HG21	1.79	0.65
19:FX:16:MET:HE2	19:FX:18:VAL:CG2	2.27	0.65
24:GC:77:ALA:HA	1:H1:2397:A:OP2	1.95	0.65
27:GF:159:LEU:HB2	27:GF:160:PRO:HD3	1.79	0.65
27:GF:29:PHE:HD2	27:GF:37:PRO:HD3	1.62	0.65
29:GH:116:ARG:O	1:H1:2633:C:O2'	2.14	0.65
32:GK:128:LYS:HB3	32:GK:129:TYR:CE1	2.31	0.65
34:GM:249:LYS:O	34:GM:253:GLU:HG2	1.97	0.65
34:GM:83:LEU:HB3	34:GM:88:VAL:HG21	1.78	0.65
38:GQ:33:GLU:OE2	38:GQ:64:ARG:N	2.29	0.65
38:GQ:8:ARG:HH22	38:GQ:117:GLN:HE21	1.42	0.65
40:GS:51:LYS:O	40:GS:69:VAL:O	2.14	0.65
24:GC:333:LEU:HA	43:GV:163:ASN:HD21	1.61	0.65
1:H1:1097:G:N2	1:H1:1117:U:H1'	2.12	0.65
1:H1:1667:A:HO2'	1:H1:1668:A:P	2.18	0.65
1:H1:2344:U:C5'	1:H1:2344:U:H6	2.10	0.65
1:H1:871:A:H2'	1:H1:872:A:C8	2.32	0.65
14:HO:16:LEU:CD1	14:HO:35:ASN:HD22	2.08	0.65
16:HQ:58:ILE:O	16:HQ:62:ILE:HG13	1.96	0.65
1:A1:1050:C:H2'	1:A1:1051:C:C1'	2.27	0.65
1:A1:1073:A:O2'	1:A1:1074:A:O5'	2.13	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1171:U:OP2	45:BX:45:ARG:NH2	2.30	0.65
1:A1:155:A:H4'	1:A1:156:A:OP1	1.96	0.65
1:A1:2540:G:H5''	1:A1:2541:U:OP2	1.96	0.65
1:A1:3081:C:H5	31:BJ:16:LYS:NZ	1.95	0.65
1:A1:625:C:H2'	1:A1:626:C:H5'	1.78	0.65
1:A1:625:C:O2'	1:A1:626:C:H5'	1.96	0.65
1:A1:930:U:H5'	22:BA:14:ASN:HB3	1.78	0.65
13:AN:13:LEU:HD22	13:AN:75:VAL:HG21	1.77	0.65
13:AN:15:GLN:HE21	13:AN:79:HIS:CE1	2.15	0.65
18:AU:153:SER:OG	42:BU:124:ALA:HB2	1.96	0.65
18:AU:74:THR:HG23	18:AU:99:ARG:O	1.95	0.65
27:BF:29:PHE:HD2	27:BF:37:PRO:HD3	1.61	0.65
37:BP:19:TYR:HE1	37:BP:20:LYS:HE3	1.60	0.65
21:C3:33:U:C5	34:CM:212:TYR:CE1	2.83	0.65
22:CA:128:SER:O	22:CA:128:SER:OG	2.14	0.65
23:CB:332:ARG:HG3	23:CB:332:ARG:NH1	2.11	0.65
26:CE:2:ARG:HH12	30:CI:129:ARG:NH2	1.95	0.65
28:CG:14:UNK:O	28:CG:18:UNK:HG2	1.96	0.65
21:C3:33:U:C5	34:CM:212:TYR:HE1	2.14	0.65
34:CM:31:TYR:O	34:CM:35:ARG:HG2	1.97	0.65
38:CQ:34:VAL:HG22	38:CQ:60:ILE:CD1	2.26	0.65
1:D1:1448:G:OP1	50:D1:4447:HOH:O	2.14	0.65
1:D1:1856:C:O2'	1:D1:1857:G:H5'	1.96	0.65
1:D1:2178:A:H8	1:D1:2178:A:H5'	1.62	0.65
1:D1:2187:C:O2'	1:D1:2188:U:H5'	1.97	0.65
1:D1:2581:G:H4'	1:D1:2583:C:C2	2.31	0.65
6:DF:84:LYS:O	6:DF:87:GLU:HG2	1.97	0.65
7:DG:27:TYR:CD2	7:DG:52:ARG:HD3	2.31	0.65
12:DM:21:CYS:SG	12:DM:30:ILE:HD13	2.36	0.65
20:E2:147:G:H21	27:EF:54:GLN:NE2	1.93	0.65
24:EC:115:ARG:NH2	1:F1:816:A:OP1	2.29	0.65
24:EC:382:LYS:HG3	24:EC:383:ALA:N	2.12	0.65
29:EH:33:ILE:HB	29:EH:69:ARG:HH22	1.61	0.65
30:EI:113:ARG:NH1	1:F1:3162:A:N6	2.45	0.65
32:EK:58:LEU:HD13	1:F1:734:A:H5'	1.78	0.65
46:EY:10:ILE:HD11	46:EY:30:GLU:CB	2.27	0.65
1:F1:111:C:O2	1:F1:111:C:H2'	1.97	0.65
1:F1:1127:U:H2'	1:F1:1128:G:C8	2.31	0.65
1:F1:11:A:H2'	1:F1:12:A:C8	2.31	0.65
1:F1:1361:U:H5'	1:F1:1361:U:C6	2.31	0.65
1:F1:1446:C:H5'	1:F1:1446:C:H6	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1856:C:O2'	1:F1:1857:G:H5'	1.97	0.65
1:F1:2439:C:H2'	1:F1:2440:A:H8	1.62	0.65
1:F1:3263:G:H4'	1:F1:3264:U:O5'	1.95	0.65
1:F1:3331:C:H4'	1:F1:3332:A:H5''	1.77	0.65
1:F1:592:A:H2'	1:F1:593:U:C6	2.32	0.65
1:F1:972:U:H2'	1:F1:973:C:H6	1.60	0.65
1:F1:2416:U:OP1	4:FC:57:ARG:NH2	2.29	0.65
5:FE:170:LEU:HA	6:FF:106:PHE:HE1	1.61	0.65
7:FG:17:VAL:HG13	7:FG:95:ALA:HB2	1.78	0.65
13:FN:114:LEU:HD22	13:FN:118:PHE:HE1	1.62	0.65
14:FO:16:LEU:CD1	14:FO:35:ASN:HD22	2.09	0.65
18:FU:22:THR:HG23	18:FU:24:PHE:HD1	1.61	0.65
21:G3:110:G:O6	34:GM:21:ARG:HD2	1.97	0.65
22:GA:210:HIS:CD2	22:GA:211:PRO:HD2	2.32	0.65
23:GB:292:ALA:HB3	23:GB:301:LYS:HB3	1.78	0.65
30:GI:69:VAL:CG2	1:H1:2377:G:O2'	2.44	0.65
32:GK:100:PRO:HA	18:HU:164:LYS:CD	2.27	0.65
34:GM:181:PRO:HD2	34:GM:200:HIS:CE1	2.31	0.65
35:GN:37:LEU:O	35:GN:41:THR:HB	1.96	0.65
46:GY:12:ARG:NH1	1:H1:1951:G:O3'	2.30	0.65
46:GY:25:VAL:O	46:GY:28:LYS:HB3	1.97	0.65
1:H1:1049:U:H2'	1:H1:1050:C:O4'	1.96	0.65
1:H1:114:A:C4'	16:HQ:37:ARG:HH22	2.09	0.65
1:H1:126:A:C2	1:H1:141:C:N4	2.65	0.65
1:H1:2574:U:H5'	1:H1:2575:G:OP1	1.97	0.65
1:A1:1051:C:O5'	1:A1:1051:C:H6	1.80	0.65
1:A1:1062:A:C5	1:A1:1063:C:C5	2.84	0.65
1:A1:1096:G:H2'	1:A1:1097:G:C5'	2.25	0.65
1:A1:111:C:H2'	1:A1:111:C:O2	1.95	0.65
1:A1:118:A:H4'	1:A1:119:A:C5'	2.26	0.65
1:A1:1410:G:O2'	24:BC:251:HIS:CD2	2.49	0.65
1:A1:2545:A:N7	46:BY:62:LYS:NZ	2.44	0.65
1:A1:3096:U:C5'	10:AK:112:LYS:HZ3	2.09	0.65
1:A1:3334:C:H4'	23:BB:311:HIS:CD2	2.31	0.65
5:AE:41:LEU:HD13	5:AE:45:ILE:HG21	1.78	0.65
14:AO:118:ASN:O	14:AO:122:GLN:HG2	1.97	0.65
14:AO:75:THR:HG21	14:AO:77:GLU:OE1	1.97	0.65
23:BB:281:TYR:HB2	23:BB:321:MET:HE3	1.79	0.65
25:BD:19:ILE:HG21	25:BD:125:MET:HE1	1.78	0.65
25:BD:82:ARG:O	25:BD:86:VAL:HG23	1.95	0.65
30:BI:158:LYS:HD3	30:BI:158:LYS:C	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:52:VAL:CG2	34:BM:63:GLN:HB2	2.26	0.65
1:A1:1063:C:O2'	34:BM:5:LYS:CA	2.45	0.65
1:A1:2717:G:H5'	37:BP:83:ARG:HH22	1.60	0.65
23:CB:47:THR:OG1	23:CB:177:LEU:HD11	1.97	0.65
23:CB:25:HIS:HD2	23:CB:270:TYR:OH	1.79	0.65
27:CF:25:LYS:HB2	1:D1:2552:A:H1'	1.78	0.65
34:CM:243:VAL:HG12	34:CM:247:PHE:HD2	1.61	0.65
35:CN:158:GLN:CB	50:CN:307:HOH:O	2.45	0.65
38:CQ:32:TYR:CD2	38:CQ:33:GLU:HG2	2.32	0.65
42:CU:123:LYS:HZ3	18:DU:144:SER:HB2	1.60	0.65
44:CW:65:ASN:OD1	1:D1:3047:U:C5	2.43	0.65
1:D1:1004:U:C5'	1:D1:1004:U:H6	2.06	0.65
1:D1:127:A:OP2	50:D1:3820:HOH:O	2.13	0.65
1:D1:1667:A:O2'	1:D1:1668:A:P	2.54	0.65
22:CA:208:VAL:HG22	1:D1:2410:C:H5'	1.77	0.65
26:CE:23:ARG:HG3	1:D1:3169:A:OP1	1.96	0.65
1:D1:607:U:O2'	1:D1:608:C:H5'	1.97	0.65
35:CN:44:LYS:HD3	1:D1:754:A:OP1	1.97	0.65
45:CX:57:ILE:CG1	1:D1:972:U:H5''	2.24	0.65
2:DA:8:PHE:O	2:DA:11:ARG:HG3	1.96	0.65
5:DE:52:ILE:HB	5:DE:96:LEU:HB2	1.78	0.65
22:EA:30:TYR:HB3	22:EA:164:ARG:NH1	2.12	0.65
30:EI:107:ILE:HG13	30:EI:159:ARG:NH1	2.10	0.65
35:EN:89:ASN:OD1	35:EN:90:ASP:N	2.30	0.65
38:EQ:8:ARG:HH22	38:EQ:117:GLN:HE21	1.43	0.65
44:EW:42:THR:HG22	44:EW:43:MET:CE	2.26	0.65
1:F1:1919:A:H5'	1:F1:1919:A:H8	1.60	0.65
1:F1:2738:G:O2'	1:F1:2739:C:H5'	1.96	0.65
1:F1:2761:U:H4'	1:F1:2762:U:OP1	1.97	0.65
1:F1:3055:U:O4	50:F1:4015:HOH:O	2.14	0.65
1:F1:485:A:C4'	1:F1:486:C:OP1	2.39	0.65
24:EC:107:PHE:HE2	1:F1:686:U:C1'	2.09	0.65
6:FF:112:MET:O	6:FF:116:LYS:HG3	1.97	0.65
23:GB:113:ASN:CB	23:GB:174:ASN:HD21	2.08	0.65
23:GB:54:THR:CG2	23:GB:55:HIS:H	2.09	0.65
27:GF:100:LYS:NZ	1:H1:120:A:OP1	2.29	0.65
32:GK:143:GLY:N	18:HU:173:ARG:HH21	1.93	0.65
1:H1:1538:U:OP2	50:H1:4443:HOH:O	2.13	0.65
1:H1:2703:G:H4'	1:H1:2704:A:H5'	1.79	0.65
1:H1:3331:C:H4'	1:H1:3332:A:H5''	1.78	0.65
1:H1:373:A:H4'	1:H1:374:A:OP1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1737:A:H62	7:HG:28:LYS:HD2	1.61	0.65
19:HX:113:LEU:CD2	19:HX:140:THR:HG21	2.27	0.65
1:A1:1173:A:H2'	1:A1:1174:G:H8	1.59	0.65
1:A1:1215:U:H3	1:A1:1344:A:N6	1.94	0.65
1:A1:2439:C:H2'	1:A1:2440:A:H8	1.61	0.65
1:A1:3093:U:OP2	50:A1:4618:HOH:O	2.14	0.65
1:A1:3114:U:C2'	1:A1:3115:C:H5''	2.27	0.65
1:A1:527:A:O2'	14:AO:88:GLN:NE2	2.25	0.65
1:A1:846:C:P	50:A1:4023:HOH:O	2.50	0.65
5:AE:57:ARG:O	5:AE:57:ARG:HG2	1.96	0.65
8:AH:107:MET:SD	8:AH:109:TYR:HE2	2.20	0.65
1:A1:2182:G:O6	22:BA:201:ARG:HD2	1.97	0.65
24:BC:213:LEU:O	24:BC:256:ILE:HA	1.97	0.65
24:BC:69:ALA:HB3	24:BC:97:PHE:CZ	2.32	0.65
34:BM:125:VAL:O	34:BM:201:LYS:HD2	1.97	0.65
18:AU:90:SER:O	42:BU:120:PHE:CE2	2.49	0.65
42:BU:21:GLU:HG2	42:BU:58:TYR:CZ	2.32	0.65
43:BV:63:LYS:O	43:BV:67:ARG:HG3	1.96	0.65
23:CB:113:ASN:CB	23:CB:174:ASN:ND2	2.60	0.65
25:CD:53:THR:HA	25:CD:59:ILE:O	1.97	0.65
34:CM:277:PHE:O	34:CM:279:PRO:HD3	1.96	0.65
35:CN:158:GLN:CB	50:D1:4779:HOH:O	2.36	0.65
35:CN:168:ARG:HH11	18:DU:9:VAL:CG2	2.10	0.65
35:CN:18:ARG:HD3	35:CN:54:SER:O	1.97	0.65
42:CU:82:LEU:HA	42:CU:85:ARG:HG3	1.77	0.65
1:D1:1090:A:H4'	1:D1:1091:G:O5'	1.97	0.65
1:D1:118:A:H4'	1:D1:119:A:C5'	2.26	0.65
1:D1:1921:G:H2'	1:D1:1922:G:H5'	1.78	0.65
40:CS:61:LYS:HE2	1:D1:218:G:H1	1.62	0.65
1:D1:2256:G:H1'	1:D1:2257:A:OP1	1.97	0.65
1:D1:2411:U:H2'	1:D1:2412:U:C6	2.31	0.65
1:D1:2720:G:H2'	1:D1:2721:G:H5'	1.78	0.65
23:CB:22:THR:HG23	1:D1:3128:G:OP1	1.96	0.65
1:D1:449:G:H2'	1:D1:450:C:H6	1.61	0.65
23:BB:376:LYS:HE2	9:DJ:45:HIS:NE2	2.11	0.65
11:DL:88:ARG:HG3	13:DN:14:LEU:HD13	1.78	0.65
1:F1:1580:G:H8	1:F1:1580:G:O5'	1.80	0.65
1:F1:1599:G:C5	1:F1:1600:U:C5	2.85	0.65
1:F1:2249:U:H2'	1:F1:2250:A:H8	1.62	0.65
1:F1:2343:A:H3'	1:F1:2344:U:C5'	2.26	0.65
8:FH:58:TYR:HA	8:FH:104:LEU:CD2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:FK:105:PRO:O	10:FK:106:LYS:HG2	1.97	0.65
19:FX:16:MET:HE2	19:FX:18:VAL:HG22	1.78	0.65
19:FX:42:ARG:HE	19:FX:44:PHE:HE1	1.45	0.65
22:GA:113:VAL:HG13	22:GA:134:TYR:HB2	1.79	0.65
24:GC:82:PRO:CB	24:GC:96:ALA:HB3	2.24	0.65
25:GD:19:ILE:HG21	25:GD:125:MET:HE1	1.77	0.65
30:GI:57:LEU:HA	30:GI:71:HIS:ND1	2.12	0.65
43:GV:80:VAL:HG22	43:GV:188:VAL:HG23	1.78	0.65
44:GW:42:THR:HG22	44:GW:43:MET:CE	2.24	0.65
45:GX:99:ALA:HB1	45:GX:101:ASN:OD1	1.96	0.65
1:H1:111:C:H2'	1:H1:111:C:O2	1.95	0.65
1:H1:1775:A:O5'	15:HP:34:LYS:NZ	2.29	0.65
1:H1:1921:G:C2'	1:H1:1922:G:H5'	2.27	0.65
1:H1:2952:G:N2	1:H1:2955:A:OP2	2.30	0.65
1:H1:3114:U:C2'	1:H1:3115:C:H5''	2.27	0.65
1:H1:546:A:H2'	1:H1:547:U:H6	1.60	0.65
1:H1:625:C:H2'	1:H1:626:C:H5'	1.78	0.65
1:H1:2632:A:H5'	17:HT:6:ASN:OD1	1.96	0.65
19:HX:94:LYS:HA	19:HX:102:HIS:O	1.96	0.65
1:A1:1054:G:C6	1:A1:1055:A:C6	2.85	0.65
1:A1:117:G:H4'	1:A1:118:A:O5'	1.97	0.65
1:A1:1884:G:C2'	1:A1:1885:G:H5'	2.27	0.65
1:A1:2126:G:C2	50:A1:4102:HOH:O	2.48	0.65
1:A1:2353:C:N3	50:A1:4346:HOH:O	2.29	0.65
1:A1:2365:G:N7	50:A1:3924:HOH:O	2.29	0.65
1:A1:2412:U:H2'	1:A1:2413:G:H5''	1.78	0.65
1:A1:2961:G:C2'	1:A1:2962:U:H5''	2.27	0.65
1:A1:2994:G:O2'	1:A1:2995:A:P	2.54	0.65
1:A1:3263:G:O2'	1:A1:3265:A:N6	2.28	0.65
3:AB:3:ALA:O	3:AB:5:LYS:HE2	1.97	0.65
6:AF:106:PHE:CD2	6:AF:110:ARG:NE	2.63	0.65
6:AF:2:VAL:HG12	6:AF:3:PHE:H	1.62	0.65
21:B3:47:C:H2'	21:B3:48:G:O4'	1.97	0.65
22:BA:68:TYR:O	22:BA:69:ARG:HG2	1.97	0.65
23:BB:85:THR:HB	23:BB:161:HIS:HB3	1.79	0.65
1:A1:118:A:N7	27:BF:121:LYS:HD3	2.12	0.65
29:BH:80:ILE:CD1	29:BH:144:HIS:HB3	2.26	0.65
43:BV:48:TYR:CE1	43:BV:183:HIS:CG	2.84	0.65
21:C3:27:A:H2'	21:C3:28:C:C6	2.32	0.65
31:CJ:74:ARG:O	31:CJ:75:LYS:HB2	1.97	0.65
34:CM:34:LYS:O	34:CM:38:ILE:HG23	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CO:56:VAL:HG23	1:D1:1897:U:OP1	1.97	0.65
45:CX:59:PHE:CE1	1:D1:1189:U:H4'	2.32	0.65
1:D1:1375:A:H4'	1:D1:1376:A:OP1	1.96	0.65
1:D1:184:C:H2'	1:D1:185:A:C8	2.32	0.65
1:D1:2251:A:C1'	46:EY:74:PRO:HG2	2.27	0.65
1:D1:2678:A:H1'	1:D1:2691:A:H62	1.62	0.65
1:D1:2743:G:H3'	1:D1:2744:C:H5'	1.77	0.65
30:CI:113:ARG:NH1	1:D1:3162:A:H61	1.95	0.65
1:D1:25:C:H1'	1:D1:327:U:H1'	1.79	0.65
27:EF:103:ARG:NH2	1:F1:119:A:N7	2.45	0.65
29:EH:80:ILE:CD1	29:EH:144:HIS:HB3	2.27	0.65
34:EM:66:TYR:OH	34:EM:73:ARG:HD2	1.96	0.65
1:F1:124:U:O2'	1:F1:125:G:H5'	1.97	0.65
1:F1:1478:A:N7	50:F1:4031:HOH:O	2.29	0.65
1:F1:1926:G:OP1	50:F1:4327:HOH:O	2.14	0.65
1:F1:2245:G:H2'	1:F1:2246:G:C8	2.31	0.65
1:F1:2932:U:P	50:F1:4026:HOH:O	2.42	0.65
1:F1:3011:G:H4'	1:F1:3012:U:O5'	1.97	0.65
5:FE:52:ILE:HB	5:FE:96:LEU:HB2	1.78	0.65
6:FF:106:PHE:CD2	6:FF:110:ARG:NE	2.60	0.65
13:FN:22:LYS:HZ2	13:FN:140:SER:HB3	1.61	0.65
1:F1:488:U:H5	18:FU:161:LYS:HE2	1.60	0.65
24:GC:107:PHE:CD1	1:H1:684:A:H4'	2.31	0.65
24:GC:29:PHE:HD2	24:GC:137:ALA:HB2	1.62	0.65
24:GC:335:PRO:HB2	43:GV:42:ILE:HG12	1.79	0.65
27:GF:176:LYS:HE3	1:H1:6:C:O2'	1.97	0.65
33:GL:14:LYS:HZ1	1:H1:268:G:C5'	2.10	0.65
35:GN:110:ALA:O	35:GN:114:ILE:HG23	1.97	0.65
41:GT:41:LEU:HD13	41:GT:51:ILE:HD13	1.79	0.65
1:H1:1024:A:C2'	1:H1:1025:G:H5'	2.27	0.65
1:H1:1537:U:H5'	1:H1:1538:U:H5	1.60	0.65
1:H1:2717:G:P	50:H1:4321:HOH:O	2.39	0.65
1:H1:2727:A:O2'	1:H1:2728:A:OP2	2.15	0.65
34:GM:38:ILE:HD11	1:H1:2738:G:O3'	1.97	0.65
1:H1:2994:G:O2'	1:H1:2995:A:P	2.54	0.65
1:H1:338:C:H5''	1:H1:338:C:H6	1.61	0.65
1:H1:362:G:H2'	1:H1:363:G:H5''	1.79	0.65
14:HO:110:LYS:O	14:HO:114:PHE:HB2	1.97	0.65
1:A1:111:C:H2'	1:A1:112:A:H5'	1.79	0.64
1:A1:1775:A:O5'	15:AP:34:LYS:NZ	2.30	0.64
1:A1:250:U:H5'	1:A1:251:A:OP2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2743:G:H3'	1:A1:2744:C:H5'	1.75	0.64
1:A1:3165:A:H2'	1:A1:3166:A:C8	2.32	0.64
5:AE:113:GLU:HG3	5:AE:114:ASP:H	1.61	0.64
24:BC:125:LYS:O	24:BC:129:VAL:HG23	1.96	0.64
24:BC:321:LYS:O	24:BC:323:PRO:HD3	1.96	0.64
1:A1:695:U:OP1	35:BN:56:SER:HB3	1.97	0.64
1:A1:697:A:OP2	35:BN:57:ARG:NH1	2.30	0.64
1:A1:810:G:C8	35:BN:92:ARG:CZ	2.80	0.64
46:BY:10:ILE:HD11	46:BY:30:GLU:CB	2.24	0.64
21:C3:81:A:H2'	21:C3:82:G:H5''	1.78	0.64
22:CA:30:TYR:HB3	22:CA:164:ARG:NH1	2.11	0.64
24:CC:186:LEU:HD22	24:CC:190:GLU:OE2	1.97	0.64
37:CP:41:ASP:OD1	37:CP:61:THR:OG1	2.09	0.64
38:CQ:8:ARG:HH12	38:CQ:117:GLN:HG3	1.62	0.64
1:D1:1024:A:O2'	1:D1:1025:G:H5'	1.97	0.64
1:D1:126:A:H2	1:D1:141:C:N4	1.95	0.64
1:D1:1319:C:H2'	1:D1:1320:U:H6	1.61	0.64
1:D1:1361:U:H6	1:D1:1361:U:C5'	2.10	0.64
1:D1:684:A:C2	1:D1:1461:A:C2	2.84	0.64
1:D1:146:U:O2	1:D1:148:G:C2	2.50	0.64
1:D1:1578:U:H5''	1:D1:1579:U:OP2	1.97	0.64
1:D1:1858:U:OP1	3:DB:5:LYS:HE3	1.97	0.64
1:D1:2308:A:OP2	50:D1:4663:HOH:O	2.15	0.64
1:D1:290:C:N4	50:D1:3858:HOH:O	2.29	0.64
1:D1:3096:U:C5'	10:DK:112:LYS:HZ3	2.10	0.64
1:D1:620:A:C8	1:D1:634:G:C6	2.85	0.64
1:D1:871:A:H2'	1:D1:872:A:C8	2.32	0.64
35:CN:173:LYS:NZ	1:D1:87:A:OP2	2.28	0.64
1:D1:358:C:O2'	2:DA:16:HIS:HD2	1.79	0.64
13:DN:10:VAL:HG12	13:DN:85:TYR:O	1.97	0.64
24:EC:49:ARG:NH2	1:F1:713:G:H21	1.95	0.64
27:EF:132:ILE:O	27:EF:136:ILE:HG13	1.97	0.64
29:EH:204:GLY:HA3	29:EH:208:ARG:NH2	2.12	0.64
32:EK:142:GLY:C	18:FU:173:ARG:HH21	2.01	0.64
32:EK:21:ARG:HG3	1:F1:1396:A:H4'	1.79	0.64
40:ES:59:ARG:NH1	1:F1:200:C:OP2	2.30	0.64
43:EV:98:ARG:HG3	43:EV:98:ARG:HH11	1.61	0.64
45:EX:25:GLU:OE2	45:EX:52:ARG:NH2	2.18	0.64
1:F1:1049:U:H2'	1:F1:1050:C:O4'	1.96	0.64
1:F1:1095:C:H4'	1:F1:1096:G:OP2	1.97	0.64
1:F1:116:U:O2	1:F1:119:A:H5''	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1481:U:O2	1:F1:1481:U:H2'	1.96	0.64
1:F1:2581:G:H4'	1:F1:2583:C:C2	2.32	0.64
1:F1:636:U:O2'	1:F1:637:U:H5'	1.97	0.64
30:EI:196:PHE:CZ	6:FF:110:ARG:HD2	2.32	0.64
9:FJ:99:GLU:HG3	9:FJ:101:LEU:H	1.61	0.64
9:FJ:192:VAL:HG12	9:FJ:192:VAL:O	1.96	0.64
22:GA:66:ASP:OD1	22:GA:68:TYR:N	2.30	0.64
22:GA:70:TYR:OH	1:H1:2548:G:OP1	2.15	0.64
23:GB:22:THR:HG22	23:GB:24:HIS:N	2.12	0.64
24:GC:238:VAL:HG21	24:GC:262:ALA:CA	2.26	0.64
26:GE:132:ILE:HG12	26:GE:144:LEU:HD22	1.79	0.64
28:GG:23:UNK:HB2	28:GG:92:UNK:HB2	1.78	0.64
30:GI:48:ARG:NH2	1:H1:1220:A:OP2	2.30	0.64
1:H1:2902:G:OP2	50:H1:4273:HOH:O	2.13	0.64
1:H1:2994:G:O2'	1:H1:2995:A:O5'	2.14	0.64
1:H1:3011:G:N2	1:H1:3020:G:C4	2.65	0.64
1:H1:3114:U:H2'	1:H1:3115:C:H5''	1.78	0.64
24:GC:115:ARG:NH2	1:H1:816:A:OP1	2.30	0.64
5:HE:42:ARG:HH12	8:HH:111:ASN:ND2	1.96	0.64
1:A1:1540:U:H5	1:A1:1865:A:HO2'	1.44	0.64
1:A1:2627:C:O2	37:BP:60:ARG:NH2	2.29	0.64
1:A1:155:A:C4	1:A1:265:A:C2	2.85	0.64
1:A1:2704:A:H4'	1:A1:2705:U:OP2	1.96	0.64
1:A1:28:G:OP1	33:BL:172:ARG:HD3	1.98	0.64
1:A1:467:A:C6	1:A1:468:A:C5	2.85	0.64
1:A1:499:U:H3'	1:A1:500:G:C8	2.32	0.64
1:A1:967:U:O4	32:BK:24:LYS:HD3	1.97	0.64
4:AC:66:VAL:CG2	4:AC:83:ILE:HB	2.27	0.64
4:AC:70:PHE:CE2	4:AC:81:ILE:HD12	2.31	0.64
18:AU:6:GLN:HA	32:BK:51:HIS:HE1	1.62	0.64
21:B3:27:A:H2'	21:B3:28:C:C6	2.31	0.64
23:BB:54:THR:CG2	23:BB:55:HIS:H	2.10	0.64
24:BC:65:MET:CE	24:BC:105:ARG:HH11	2.10	0.64
25:BD:53:THR:HA	25:BD:59:ILE:O	1.96	0.64
32:BK:111:LYS:HG3	32:BK:129:TYR:HB2	1.78	0.64
36:BO:119:GLN:HE21	36:BO:150:ILE:CD1	2.07	0.64
38:BQ:8:ARG:HH22	38:BQ:117:GLN:HE21	1.43	0.64
42:BU:82:LEU:HA	42:BU:85:ARG:HG3	1.78	0.64
20:C2:7:U:OP1	38:CQ:64:ARG:CG	2.45	0.64
23:CB:371:VAL:HG13	23:CB:382:ARG:CZ	2.26	0.64
21:C3:42:A:C8	25:CD:72:ARG:NH1	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CF:125:LEU:HD11	27:CF:191:VAL:CG1	2.28	0.64
33:CL:9:GLU:HB2	16:DQ:45:ILE:HD13	1.79	0.64
46:CY:12:ARG:NH1	1:D1:1951:G:O2'	2.29	0.64
1:D1:2105:U:O4	50:D1:4667:HOH:O	2.12	0.64
1:D1:155:A:C4	1:D1:265:A:C2	2.85	0.64
1:D1:2678:A:H1'	1:D1:2691:A:N6	2.12	0.64
1:D1:2704:A:H4'	1:D1:2705:U:OP2	1.97	0.64
23:CB:272:HIS:HD2	1:D1:3127:U:OP1	1.79	0.64
1:D1:3128:G:C5'	1:D1:3128:G:H8	2.11	0.64
7:DG:17:VAL:HG13	7:DG:95:ALA:HB2	1.77	0.64
9:DJ:145:ASN:HD22	9:DJ:146:VAL:N	1.94	0.64
10:DK:103:LEU:HD13	10:DK:110:CYS:HA	1.79	0.64
22:EA:244:THR:HG21	1:F1:2239:A:C4'	2.26	0.64
24:EC:167:GLU:N	24:EC:171:GLN:NE2	2.45	0.64
21:E3:48:G:OP2	34:EM:94:SER:HB3	1.97	0.64
38:EQ:133:ARG:NH2	1:F1:2351:A:N3	2.44	0.64
1:F1:1036:G:C2'	1:F1:1037:A:H5'	2.27	0.64
1:F1:1772:G:H2'	1:F1:1773:G:H5'	1.79	0.64
1:F1:2719:A:H2'	1:F1:2720:G:H8	1.63	0.64
1:F1:3011:G:N2	1:F1:3020:G:C4	2.64	0.64
1:F1:304:U:HO2'	1:F1:305:A:P	2.10	0.64
1:F1:449:G:H2'	1:F1:450:C:H6	1.62	0.64
5:FE:41:LEU:HD13	5:FE:45:ILE:CD1	2.19	0.64
5:FE:63:VAL:HG11	5:FE:76:VAL:HG13	1.79	0.64
24:GC:251:HIS:ND1	14:HO:12:ASN:OD1	2.31	0.64
33:GL:26:ARG:O	33:GL:30:TYR:HD1	1.80	0.64
39:GR:96:ASN:HA	39:GR:128:LYS:HG3	1.80	0.64
1:H1:111:C:H2'	1:H1:112:A:H5'	1.79	0.64
22:GA:180:ILE:O	1:H1:2145:A:H4'	1.96	0.64
1:H1:2356:A:C2'	1:H1:2357:C:O5'	2.45	0.64
1:H1:3237:C:N4	8:HH:9:VAL:O	2.30	0.64
1:H1:636:U:O2'	1:H1:637:U:H5'	1.97	0.64
1:H1:970:C:H2'	1:H1:971:C:H6	1.60	0.64
2:HA:15:THR:OG1	2:HA:16:HIS:CD2	2.50	0.64
15:HP:8:ILE:O	15:HP:12:MET:HG3	1.97	0.64
1:A1:132:U:HO2'	1:A1:133:C:P	2.19	0.64
1:A1:2703:G:H4'	1:A1:2704:A:H5'	1.78	0.64
1:A1:324:A:H5''	1:A1:325:U:OP2	1.96	0.64
1:A1:619:G:C4'	1:A1:620:A:C2	2.79	0.64
1:A1:842:A:H8	2:AA:15:THR:HG23	1.61	0.64
5:AE:49:THR:HG22	5:AE:50:VAL:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BC:216:TYR:O	24:BC:238:VAL:HG23	1.96	0.64
25:BD:28:ASP:O	25:BD:32:LYS:HG3	1.98	0.64
1:A1:1036:G:H21	29:BH:193:ASP:HB2	1.62	0.64
21:B3:8:G:OP1	37:BP:27:ILE:HD12	1.97	0.64
40:BS:56:LEU:HD12	40:BS:65:ASN:O	1.98	0.64
41:BT:41:LEU:HD13	41:BT:51:ILE:HD13	1.79	0.64
44:BW:22:ILE:CD1	44:BW:30:ARG:HG2	2.25	0.64
20:C2:26:A:H3'	20:C2:27:G:H5''	1.78	0.64
21:C3:63:A:O5'	29:CH:206:LEU:HG	1.98	0.64
21:C3:9:C:H5''	21:C3:10:C:OP2	1.97	0.64
23:CB:192:PHE:O	23:CB:195:SER:OG	2.11	0.64
23:CB:384:LYS:O	23:CB:387:GLU:HG2	1.97	0.64
24:CC:216:TYR:O	24:CC:238:VAL:HG23	1.98	0.64
33:CL:183:SER:HA	33:CL:191:ASN:HD21	1.58	0.64
47:CO:123:PHE:HD2	47:CO:138:LEU:HD11	1.61	0.64
1:D1:1038:G:H2'	1:D1:1039:G:O4'	1.96	0.64
1:D1:1051:C:H6	1:D1:1051:C:O5'	1.80	0.64
1:D1:1350:G:O3'	19:DX:16:MET:HG3	1.97	0.64
1:D1:1517:G:P	50:D1:4529:HOH:O	2.55	0.64
1:D1:1884:G:C2'	1:D1:1885:G:H5'	2.27	0.64
40:CS:46:SER:HB3	1:D1:225:C:H5''	1.78	0.64
1:D1:338:C:H6	1:D1:338:C:H5''	1.61	0.64
1:D1:949:G:O2'	50:D1:4296:HOH:O	2.14	0.64
5:DE:80:TYR:HD2	5:DE:86:PRO:HB3	1.63	0.64
5:DE:86:PRO:O	5:DE:87:LEU:HD23	1.98	0.64
18:DU:74:THR:HG23	18:DU:99:ARG:O	1.98	0.64
20:E2:114:G:H3'	20:E2:114:G:C8	2.31	0.64
21:E3:8:G:P	34:EM:33:ARG:NH1	2.64	0.64
21:E3:83:G:N2	21:E3:93:G:N2	2.44	0.64
27:EF:159:LEU:HB2	27:EF:160:PRO:HD3	1.78	0.64
29:EH:140:VAL:HG12	29:EH:141:LYS:N	2.13	0.64
24:EC:311:ALA:H	35:EN:40:ARG:NH2	1.95	0.64
43:EV:100:LEU:CD2	43:EV:127:VAL:HG11	2.25	0.64
43:EV:194:GLU:OE1	43:EV:194:GLU:N	2.27	0.64
1:F1:1016:U:C3'	1:F1:1017:U:H5''	2.28	0.64
1:F1:2371:G:O2'	1:F1:2372:G:H8	1.77	0.64
1:F1:3109:C:H3'	10:FK:111:ARG:HH11	1.57	0.64
11:FL:41:TYR:HB3	11:FL:58:GLN:HE21	1.61	0.64
1:F1:3168:A:N7	19:FX:166:VAL:HG11	2.12	0.64
21:E3:76:U:OP1	19:FX:61:LYS:NZ	2.30	0.64
24:GC:227:LEU:O	24:GC:233:VAL:HG21	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:GF:183:VAL:HG12	27:GF:183:VAL:O	1.97	0.64
32:GK:142:GLY:CA	18:HU:173:ARG:HH21	2.11	0.64
34:GM:52:VAL:CG2	34:GM:63:GLN:HB2	2.27	0.64
45:GX:6:VAL:CG1	45:GX:7:ALA:H	2.10	0.64
1:H1:1051:C:H2'	1:H1:1052:A:H8	1.60	0.64
1:H1:1513:A:O2'	11:HL:6:THR:HG23	1.98	0.64
1:H1:1932:A:OP2	50:H1:3907:HOH:O	2.14	0.64
1:H1:2187:C:C2'	1:H1:2188:U:H5'	2.27	0.64
1:H1:314:C:H2'	1:H1:315:U:C6	2.33	0.64
1:H1:3332:A:H3'	1:H1:3333:G:C5'	2.27	0.64
46:GY:10:ILE:HG22	1:H1:862:A:C4'	2.28	0.64
4:HC:36:GLN:OE1	4:HC:36:GLN:HA	1.97	0.64
6:HF:84:LYS:O	6:HF:87:GLU:HG2	1.97	0.64
7:HG:40:LYS:O	7:HG:65:ILE:HG23	1.97	0.64
8:HH:36:LEU:HD22	8:HH:81:HIS:CD2	2.32	0.64
1:H1:1618:A:H5''	11:HL:62:ALA:HB2	1.79	0.64
13:HN:96:LEU:HD22	13:HN:113:THR:HG21	1.80	0.64
15:HP:12:MET:HG2	15:HP:15:TRP:HE1	1.63	0.64
1:A1:1370:A:H2'	1:A1:1371:G:C5'	2.21	0.64
1:A1:1720:A:H2'	1:A1:1721:A:C8	2.32	0.64
1:A1:2350:G:H4'	38:BQ:141:TYR:CE1	2.32	0.64
1:A1:2732:G:H2'	1:A1:2733:C:C6	2.32	0.64
1:A1:2738:G:O2'	1:A1:2739:C:H5'	1.97	0.64
1:A1:3157:C:H1'	8:AH:9:VAL:HG13	1.78	0.64
1:A1:339:C:OP1	50:A1:3853:HOH:O	2.14	0.64
3:AB:28:ARG:NE	3:AB:36:ARG:O	2.30	0.64
1:A1:1101:U:H1'	17:AT:46:ALA:HB2	1.78	0.64
24:BC:186:LEU:HD22	24:BC:190:GLU:OE2	1.97	0.64
27:BF:176:LYS:HD2	27:BF:187:THR:HG21	1.79	0.64
31:BJ:46:ILE:CD1	31:BJ:54:PRO:HB3	2.27	0.64
46:BY:56:LYS:HG2	46:BY:63:ILE:HG12	1.78	0.64
22:CA:205:MET:HE2	22:CA:209:ASP:HB3	1.80	0.64
25:CD:9:MET:O	25:CD:134:PRO:HG3	1.97	0.64
29:CH:80:ILE:CD1	29:CH:144:HIS:HB3	2.26	0.64
29:CH:77:ILE:HG13	29:CH:78:LYS:N	2.12	0.64
1:D1:111:C:H2'	1:D1:112:A:H5'	1.79	0.64
1:D1:1166:G:O6	17:DT:10:LYS:NZ	2.22	0.64
1:D1:1434:G:C2'	1:D1:1435:C:C5'	2.72	0.64
22:CA:70:TYR:CE1	1:D1:2549:U:C6	2.85	0.64
1:D1:2975:A:H2'	1:D1:2976:C:C6	2.32	0.64
1:D1:3168:A:C8	1:D1:3168:A:OP1	2.48	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3198:A:H2'	1:D1:3199:G:O4'	1.97	0.64
16:DQ:58:ILE:O	16:DQ:62:ILE:HG13	1.97	0.64
19:DX:11:ASP:OD1	19:DX:13:THR:HB	1.98	0.64
23:EB:332:ARG:NH1	23:EB:332:ARG:HG3	2.11	0.64
24:EC:186:LEU:HD22	24:EC:190:GLU:OE2	1.96	0.64
24:EC:283:TYR:CE1	24:EC:285:LEU:HA	2.32	0.64
33:EL:15:GLN:NE2	1:F1:294:A:OP1	2.31	0.64
42:EU:74:PHE:HB3	42:EU:80:LYS:HG2	1.79	0.64
45:EX:78:ILE:HB	45:EX:98:ILE:HA	1.79	0.64
1:F1:1379:G:OP2	14:FO:102:GLY:N	2.28	0.64
1:F1:1752:G:H5'	1:F1:1754:G:C5'	2.25	0.64
1:F1:2178:A:H5'	1:F1:2178:A:H8	1.63	0.64
23:EB:264:ARG:NH2	1:F1:2387:C:HO2'	1.94	0.64
1:F1:269:U:H2'	1:F1:270:C:H6	1.62	0.64
1:F1:3114:U:C2'	1:F1:3115:C:H5''	2.27	0.64
5:FE:179:THR:HG22	5:FE:180:LEU:O	1.98	0.64
22:GA:30:TYR:HB3	22:GA:164:ARG:NH1	2.13	0.64
23:GB:119:TYR:CD2	23:GB:122:TRP:CZ3	2.86	0.64
33:GL:45:PRO:O	33:GL:49:ARG:HG3	1.98	0.64
33:GL:93:LYS:HG3	1:H1:288:A:C2	2.33	0.64
37:GP:40:VAL:CG1	37:GP:96:VAL:HG13	2.26	0.64
43:GV:63:LYS:HG2	43:GV:64:ARG:N	2.12	0.64
29:GH:15:LYS:HE3	1:H1:1152:U:OP1	1.98	0.64
1:H1:2243:C:O2'	1:H1:2268:G:C8	2.51	0.64
1:H1:2255:U:H2'	1:H1:2256:G:O4'	1.97	0.64
24:GC:77:ALA:CA	1:H1:2397:A:OP2	2.46	0.64
22:GA:208:VAL:HG22	1:H1:2410:C:H5'	1.79	0.64
1:H1:3291:G:O2'	1:H1:3292:U:C6	2.48	0.64
1:H1:64:A:N6	1:H1:66:C:O2	2.30	0.64
1:H1:718:A:H2'	1:H1:719:C:C6	2.32	0.64
6:HF:13:VAL:HG11	6:HF:53:VAL:HG22	1.75	0.64
19:HX:29:PRO:O	19:HX:30:ILE:HG22	1.98	0.64
19:HX:94:LYS:HG2	19:HX:136:GLN:HB3	1.78	0.64
1:A1:1618:A:H2'	1:A1:1619:A:C8	2.32	0.64
1:A1:2275:A:HO2'	1:A1:2276:A:P	2.20	0.64
1:A1:2678:A:H1'	1:A1:2691:A:N6	2.12	0.64
1:A1:2975:A:H2'	1:A1:2976:C:C6	2.32	0.64
1:A1:939:A:N3	22:BA:205:MET:HG2	2.13	0.64
10:AK:105:PRO:O	10:AK:106:LYS:HG2	1.97	0.64
14:AO:110:LYS:O	14:AO:114:PHE:HB2	1.98	0.64
19:AX:148:ILE:O	19:AX:154:LEU:HD21	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2549:U:C6	22:BA:70:TYR:CE1	2.85	0.64
30:BI:107:ILE:HG13	30:BI:159:ARG:NH1	2.13	0.64
32:BK:117:ARG:HD3	32:BK:137:ARG:HH11	1.60	0.64
32:BK:78:ASP:N	32:BK:78:ASP:OD1	2.25	0.64
34:BM:250:VAL:HG12	34:BM:254:ILE:HD11	1.77	0.64
38:BQ:10:PRO:CB	38:BQ:153:GLN:HE22	2.10	0.64
1:A1:1448:G:C4'	45:BX:79:ARG:NH1	2.61	0.64
20:C2:147:G:H21	27:CF:54:GLN:NE2	1.95	0.64
22:CA:20:HIS:HE1	1:D1:847:G:O2'	1.81	0.64
23:CB:377:PHE:HD2	23:CB:378:PHE:CE1	2.15	0.64
34:CM:36:LEU:HD23	1:D1:2737:A:H1'	1.80	0.64
35:CN:16:VAL:HG12	35:CN:17:VAL:H	1.60	0.64
47:CO:114:LYS:O	47:CO:146:LYS:HE2	1.96	0.64
1:D1:1161:G:N7	50:D1:4305:HOH:O	2.29	0.64
1:D1:1249:G:O2'	1:D1:1250:A:O5'	2.15	0.64
1:D1:1395:U:O2'	1:D1:1396:A:H5'	1.98	0.64
27:CF:155:LEU:CD1	1:D1:147:U:H1'	2.28	0.64
1:D1:1758:U:C4'	1:D1:1759:C:OP2	2.44	0.64
1:D1:2308:A:P	50:D1:4663:HOH:O	2.55	0.64
4:DC:36:GLN:OE1	4:DC:36:GLN:HA	1.97	0.64
14:DO:75:THR:HG21	14:DO:77:GLU:OE1	1.97	0.64
21:E3:105:C:H6	21:E3:105:C:C5'	2.11	0.64
21:E3:36:C:O2	21:E3:45:U:H1'	1.98	0.64
23:EB:303:ILE:HD11	23:EB:319:PHE:CE1	2.32	0.64
23:EB:55:HIS:CD2	23:EB:55:HIS:H	2.15	0.64
24:EC:200:LYS:HZ3	1:F1:1445:G:H5''	1.62	0.64
46:EY:12:ARG:HD2	46:EY:12:ARG:O	1.98	0.64
1:F1:1249:G:O2'	1:F1:1250:A:O5'	2.15	0.64
1:F1:165:C:H5''	18:FU:132:LYS:NZ	2.13	0.64
22:EA:70:TYR:CE1	1:F1:2549:U:C6	2.85	0.64
27:EF:22:PHE:O	1:F1:2553:G:H5''	1.98	0.64
34:EM:19:LYS:HE3	1:F1:2677:U:O4	1.98	0.64
1:F1:2875:A:N3	1:F1:2875:A:H2'	2.11	0.64
1:F1:3179:U:H2'	1:F1:3180:C:C6	2.33	0.64
1:F1:629:A:H1'	1:F1:630:G:N7	2.13	0.64
18:FU:72:GLY:HA3	18:FU:96:ASP:HB2	1.79	0.64
19:FX:18:VAL:HG11	19:FX:117:VAL:HG11	1.80	0.64
22:GA:20:HIS:HD2	22:GA:193:LYS:O	1.79	0.64
24:GC:308:VAL:HG12	35:GN:40:ARG:HH11	1.62	0.64
29:GH:80:ILE:HD13	29:GH:144:HIS:HB3	1.80	0.64
32:GK:14:HIS:O	32:GK:15:VAL:HG22	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:GL:120:TRP:CH2	33:GL:122:GLY:HA2	2.32	0.64
33:GL:172:ARG:HD3	1:H1:28:G:OP1	1.98	0.64
35:GN:82:VAL:HA	35:GN:102:CYS:O	1.97	0.64
35:GN:28:LYS:HE3	35:GN:32:LYS:HE2	1.80	0.64
1:H1:124:U:O2'	1:H1:125:G:H5'	1.97	0.64
1:H1:1319:C:H2'	1:H1:1320:U:H6	1.62	0.64
1:H1:1434:G:C2'	1:H1:1435:C:C5'	2.73	0.64
1:H1:1471:U:H5''	1:H1:1472:A:OP2	1.97	0.64
1:H1:1563:A:O2'	1:H1:1564:C:H5'	1.97	0.64
1:H1:1566:U:H2'	1:H1:1567:A:C8	2.32	0.64
1:H1:3237:C:N4	8:HH:10:ALA:HA	2.12	0.64
1:H1:563:G:H2'	1:H1:566:U:H1'	1.80	0.64
1:H1:827:C:OP2	50:H1:3786:HOH:O	2.15	0.64
5:HE:122:ALA:HB2	5:HE:134:LEU:HD23	1.79	0.64
18:HU:56:VAL:CG1	18:HU:57:ARG:H	2.10	0.64
1:A1:1127:U:H2'	1:A1:1128:G:C8	2.33	0.64
1:A1:1249:G:O2'	1:A1:1250:A:O5'	2.16	0.64
1:A1:1533:G:H4'	1:A1:1534:C:OP2	1.96	0.64
1:A1:169:A:OP2	1:A1:249:G:N2	2.31	0.64
1:A1:1869:G:O2'	2:AA:5:THR:HG22	1.98	0.64
1:A1:2177:A:C2'	1:A1:2178:A:H5''	2.28	0.64
1:A1:2508:U:H2'	1:A1:2581:G:H1	1.61	0.64
1:A1:548:G:N2	1:A1:619:G:N2	2.39	0.64
1:A1:74:G:H4'	1:A1:75:A:OP1	1.95	0.64
1:A1:751:C:H5'	1:A1:751:C:H6	1.62	0.64
9:AJ:142:ILE:CD1	9:AJ:152:CYS:HB3	2.28	0.64
15:AP:12:MET:HG2	15:AP:15:TRP:HE1	1.61	0.64
19:AX:138:ILE:HA	37:BP:150:PRO:HG2	1.79	0.64
21:B3:59:C:H2'	21:B3:60:C:C6	2.33	0.64
22:BA:5:ILE:HG22	22:BA:6:ARG:N	2.13	0.64
1:A1:2989:G:N2	23:BB:118:PHE:HE2	1.96	0.64
23:BB:211:GLU:O	23:BB:280:VAL:HG23	1.98	0.64
24:BC:50:LYS:HD2	24:BC:116:VAL:HG11	1.80	0.64
26:BE:167:GLU:C	26:BE:168:LYS:HG2	2.17	0.64
29:BH:139:ARG:HD3	29:BH:173:PHE:CE1	2.33	0.64
1:A1:2377:G:O2'	30:BI:69:VAL:CG2	2.46	0.64
32:BK:128:LYS:HB3	32:BK:129:TYR:CE1	2.32	0.64
1:A1:1971:G:H5''	36:BO:134:ASN:ND2	2.13	0.64
1:A1:1951:G:O2'	46:BY:12:ARG:NH1	2.29	0.64
21:C3:59:C:H2'	21:C3:60:C:C6	2.33	0.64
21:C3:81:A:H2'	21:C3:82:G:C5'	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:167:GLU:N	24:CC:171:GLN:NE2	2.43	0.64
24:CC:33:ILE:HG22	24:CC:33:ILE:O	1.98	0.64
29:CH:33:ILE:HB	29:CH:69:ARG:HH22	1.62	0.64
33:CL:18:LEU:O	33:CL:22:ILE:HG13	1.98	0.64
35:CN:52:ARG:HB2	35:CN:84:THR:CG2	2.06	0.64
35:CN:18:ARG:NH1	35:CN:56:SER:HA	2.12	0.64
37:CP:40:VAL:CG1	37:CP:96:VAL:HG13	2.27	0.64
42:CU:97:THR:HG22	42:CU:98:LYS:N	2.13	0.64
46:CY:12:ARG:O	46:CY:12:ARG:HD2	1.98	0.64
1:D1:1599:G:C5	1:D1:1600:U:C5	2.86	0.64
1:D1:2876:U:OP2	50:D1:4403:HOH:O	2.15	0.64
1:D1:3071:C:O2'	1:D1:3072:G:H5'	1.98	0.64
1:D1:3096:U:OP1	10:DK:112:LYS:HD3	1.96	0.64
1:D1:358:C:O2'	2:DA:16:HIS:CD2	2.50	0.64
14:DO:100:SER:OG	14:DO:103:LEU:HG	1.97	0.64
21:E3:13:A:OP1	21:E3:109:U:O2'	2.14	0.64
23:EB:32:PHE:CD2	23:EB:180:GLN:HB3	2.32	0.64
24:EC:115:ARG:O	24:EC:115:ARG:HG2	1.98	0.64
25:ED:17:LEU:HD13	25:ED:129:VAL:HG22	1.79	0.64
27:EF:75:LYS:O	27:EF:172:PHE:HB2	1.97	0.64
36:EO:106:LEU:HB3	36:EO:120:TYR:CE1	2.33	0.64
36:EO:98:ARG:NH1	36:EO:130:ASN:OD1	2.30	0.64
38:EQ:71:ARG:HG2	38:EQ:81:THR:HG22	1.80	0.64
39:ER:56:ARG:HB3	39:ER:61:VAL:HG21	1.79	0.64
39:ER:81:MET:O	39:ER:85:GLU:HG3	1.98	0.64
45:EX:45:ARG:HA	45:EX:54:MET:HE3	1.80	0.64
1:F1:1446:C:C5'	1:F1:1446:C:H6	2.10	0.64
1:F1:2324:A:H5''	1:F1:2324:A:H8	1.63	0.64
1:F1:2412:U:H2'	1:F1:2413:G:H5''	1.79	0.64
1:F1:2508:U:H2'	1:F1:2581:G:H1	1.63	0.64
1:F1:250:U:H5'	1:F1:251:A:OP2	1.98	0.64
1:F1:269:U:O2'	1:F1:317:A:H1'	1.96	0.64
1:F1:438:A:O3'	1:F1:439:A:H8	1.80	0.64
1:F1:607:U:O2'	1:F1:608:C:H5'	1.97	0.64
24:GC:405:ILE:HD12	29:GH:183:ARG:CG	2.26	0.64
25:GD:104:PHE:HE1	25:GD:106:ILE:HD11	1.62	0.64
30:GI:10:ALA:HB1	30:GI:40:ILE:HG12	1.80	0.64
30:GI:175:ASP:O	30:GI:178:LYS:HG2	1.98	0.64
46:GY:57:CYS:SG	46:GY:59:PRO:HG2	2.37	0.64
1:H1:123:C:H2'	1:H1:124:U:H6	1.62	0.64
1:H1:146:U:O2	1:H1:148:G:C2	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1595:A:H1'	1:H1:1599:G:N1	2.13	0.64
1:H1:2177:A:C2'	1:H1:2178:A:H5''	2.28	0.64
1:H1:2251:A:C2'	1:H1:2253:U:OP2	2.45	0.64
1:H1:524:G:O2'	1:H1:525:C:OP2	2.14	0.64
1:A1:1039:G:N2	1:A1:1064:C:C2	2.66	0.64
1:A1:1308:U:H5''	28:BG:58:UNK:CG	2.25	0.64
1:A1:1526:G:O2'	1:A1:1527:A:H5'	1.98	0.64
1:A1:2640:G:O2'	1:A1:2784:G:C6	2.50	0.64
1:A1:3121:C:OP1	50:A1:4434:HOH:O	2.15	0.64
1:A1:384:A:H2'	1:A1:385:A:C8	2.33	0.64
1:A1:516:C:H3'	1:A1:517:A:C8	2.33	0.64
1:A1:729:A:HO2'	1:A1:810:G:N2	1.95	0.64
1:A1:1711:U:H1'	12:AM:77:TYR:CD2	2.33	0.64
25:BD:78:ASP:O	25:BD:81:THR:HB	1.97	0.64
31:BJ:74:ARG:O	31:BJ:75:LYS:HB2	1.97	0.64
34:BM:166:ALA:HB3	34:BM:173:ILE:HD11	1.80	0.64
37:BP:63:LYS:H	37:BP:63:LYS:HD2	1.63	0.64
1:A1:1949:U:O2	46:BY:19:GLY:HA2	1.97	0.64
22:CA:30:TYR:HB3	22:CA:164:ARG:HH11	1.63	0.64
24:CC:159:PHE:HZ	24:CC:179:VAL:HG13	1.62	0.64
25:CD:78:ASP:O	25:CD:81:THR:HB	1.97	0.64
27:CF:68:PRO:HD3	27:CF:225:TRP:NE1	2.13	0.64
28:CG:85:UNK:HG3	28:CG:85:UNK:O	1.97	0.64
47:CO:95:TRP:CZ3	1:D1:880:U:H4'	2.33	0.64
37:CP:35:LYS:NZ	1:D1:1112:A:OP1	2.30	0.64
1:D1:1051:C:H2'	1:D1:1052:A:H8	1.63	0.64
1:D1:1095:C:H4'	1:D1:1096:G:OP2	1.98	0.64
1:D1:1097:G:N2	1:D1:1117:U:H1'	2.13	0.64
1:D1:1772:G:H2'	1:D1:1773:G:H5'	1.80	0.64
1:D1:88:U:O4'	1:D1:280:G:O2'	2.16	0.64
1:D1:745:A:H4'	17:DT:58:ASN:ND2	2.12	0.64
22:EA:105:ILE:HG21	22:EA:147:THR:HG21	1.80	0.64
22:EA:160:PRO:HG2	22:EA:163:CYS:HG	1.63	0.64
23:EB:58:ARG:HH21	23:EB:60:VAL:CG1	2.11	0.64
24:EC:125:LYS:O	24:EC:129:VAL:HG23	1.98	0.64
27:EF:29:PHE:HD2	27:EF:37:PRO:HD3	1.62	0.64
30:EI:175:ASP:O	30:EI:178:LYS:HG2	1.97	0.64
33:EL:30:TYR:CD2	33:EL:63:ARG:HD3	2.32	0.64
34:EM:41:LYS:NZ	37:EP:30:TYR:O	2.27	0.64
45:EX:98:ILE:CA	45:EX:123:ASN:HD21	2.10	0.64
1:F1:111:C:H2'	1:F1:112:A:H5'	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2380:U:O2	1:F1:2380:U:H2'	1.98	0.64
1:F1:2399:A:H2'	1:F1:2399:A:N3	2.11	0.64
1:F1:2961:G:C2'	1:F1:2962:U:H5''	2.28	0.64
19:FX:148:ILE:O	19:FX:154:LEU:HD21	1.98	0.64
20:G2:107:C:C4	20:G2:135:A:C6	2.86	0.64
7:AG:20:SER:HB2	29:GH:28:ASP:OD2	1.97	0.64
33:GL:196:GLN:HB3	18:HU:19:ARG:HH11	1.63	0.64
35:GN:4:ASP:OD1	43:GV:106:ARG:HD3	1.97	0.64
1:H1:1193:G:H2'	1:H1:1194:A:C8	2.31	0.64
1:H1:1413:G:C2'	1:H1:1414:C:H5'	2.27	0.64
1:H1:1652:U:H4'	1:H1:1655:A:C5'	2.28	0.64
1:A1:1350:G:O3'	19:AX:16:MET:HG3	1.98	0.64
1:A1:1923:G:OP1	31:BJ:25:ALA:HA	1.98	0.64
1:A1:732:C:O2	1:A1:778:G:O2'	2.15	0.64
8:AH:54:LYS:HD2	8:AH:108:LEU:HA	1.78	0.64
18:AU:133:LYS:C	18:AU:135:LEU:N	2.52	0.64
22:BA:29:GLN:OE1	22:BA:124:ARG:NH2	2.30	0.64
23:BB:162:THR:CG2	23:BB:175:HIS:HD2	2.08	0.64
31:BJ:85:GLN:HA	31:BJ:102:ASN:HD22	1.62	0.64
35:BN:52:ARG:NH1	35:BN:141:ARG:NE	2.42	0.64
20:C2:107:C:H4'	20:C2:108:G:O5'	1.98	0.64
20:C2:27:G:H8	20:C2:27:G:H5'	1.62	0.64
24:CC:287:ARG:HD2	35:CN:111:ARG:HH12	1.63	0.64
34:CM:210:ASP:HA	34:CM:213:MET:HG3	1.78	0.64
34:CM:250:VAL:O	34:CM:254:ILE:HG13	1.97	0.64
1:D1:116:U:O2	1:D1:119:A:H5''	1.97	0.64
30:CI:48:ARG:NH2	1:D1:1220:A:OP2	2.31	0.64
1:D1:47:G:OP2	50:D1:3725:HOH:O	2.15	0.64
1:D1:516:C:H3'	1:D1:517:A:C8	2.32	0.64
8:DH:59:ILE:O	8:DH:59:ILE:HG13	1.97	0.64
42:CU:118:ARG:HD2	18:DU:123:LEU:HD11	1.79	0.64
19:DX:148:ILE:O	19:DX:154:LEU:HD21	1.96	0.64
19:DX:16:MET:HG2	19:DX:17:LYS:N	2.13	0.64
20:E2:137:G:H21	33:EL:112:GLU:HG2	1.63	0.64
21:E3:90:A:H2	29:EH:162:ARG:NH2	1.95	0.64
24:EC:32:PRO:CG	24:EC:286:GLN:HB3	2.28	0.64
25:ED:82:ARG:HB3	25:ED:112:LEU:CD2	2.26	0.64
32:EK:128:LYS:HB3	32:EK:129:TYR:CE1	2.33	0.64
33:EL:183:SER:HA	33:EL:191:ASN:HD22	1.57	0.64
35:EN:82:VAL:HA	35:EN:102:CYS:O	1.98	0.64
43:EV:128:LEU:N	43:EV:129:PRO:HD2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:121:A:N6	1:F1:150:A:N6	2.46	0.64
1:F1:132:U:HO2'	1:F1:133:C:P	2.20	0.64
1:F1:1662:A:OP2	13:FN:16:GLY:HA2	1.98	0.64
1:F1:2405:U:O5'	50:F1:3672:HOH:O	2.14	0.64
1:F1:155:A:C4	1:F1:265:A:C2	2.85	0.64
1:F1:2907:A:H8	1:F1:2907:A:C5'	2.11	0.64
1:F1:282:G:N2	1:F1:304:U:O4'	2.31	0.64
1:F1:41:A:O2'	1:F1:42:U:H5'	1.98	0.64
5:FE:80:TYR:HD2	5:FE:86:PRO:HB3	1.62	0.64
14:FO:75:THR:CG2	14:FO:77:GLU:HG2	2.28	0.64
1:F1:1210:C:O3'	19:FX:171:ARG:NH2	2.30	0.64
21:G3:47:C:H2'	21:G3:48:G:O4'	1.97	0.64
32:GK:75:VAL:HG22	32:GK:109:PHE:CD2	2.33	0.64
1:H1:1101:U:H1'	17:HT:46:ALA:HB2	1.80	0.64
1:H1:116:U:O2	1:H1:119:A:H5''	1.96	0.64
1:H1:1376:A:H5''	1:H1:1377:A:C4'	2.27	0.64
24:GC:200:LYS:NZ	1:H1:1445:G:H5''	2.12	0.64
27:GF:155:LEU:CD1	1:H1:147:U:H1'	2.28	0.64
22:GA:70:TYR:HD2	1:H1:1674:C:H4'	1.61	0.64
1:H1:1937:G:O2'	1:H1:2116:A:O2'	2.16	0.64
23:GB:250:ILE:HG12	1:H1:2388:G:H4'	1.80	0.64
1:H1:2946:A:N6	50:H1:3966:HOH:O	2.30	0.64
1:H1:534:U:H2'	1:H1:535:C:C6	2.33	0.64
1:H1:568:A:C2	1:H1:602:A:C2	2.86	0.64
1:H1:548:G:H1	1:H1:619:G:H22	1.44	0.64
1:H1:77:A:C2	1:H1:324:A:C2	2.86	0.64
6:HF:15:ILE:HD12	6:HF:43:ILE:HD13	1.79	0.64
1:A1:1376:A:H5''	1:A1:1377:A:C4'	2.28	0.64
1:A1:1702:G:N7	12:AM:76:ARG:NH2	2.46	0.64
1:A1:211:A:C3'	24:BC:229:ASN:HD21	2.11	0.64
1:A1:2673:C:O2'	25:BD:99:THR:CG2	2.46	0.64
1:A1:3079:U:O2'	1:A1:3080:A:O5'	2.15	0.64
1:A1:527:A:H5'	5:AE:13:SER:OG	1.97	0.64
1:A1:832:A:H2	1:A1:2406:U:O2'	1.79	0.64
9:AJ:32:GLU:OE1	9:AJ:32:GLU:HA	1.98	0.64
20:B2:26:A:H3'	20:B2:27:G:H5''	1.79	0.64
23:BB:22:THR:HG22	23:BB:24:HIS:N	2.12	0.64
23:BB:281:TYR:CE2	23:BB:323:LYS:HB2	2.33	0.64
23:BB:55:HIS:CD2	23:BB:55:HIS:H	2.16	0.64
1:A1:2663:A:C6	25:BD:124:GLY:HA3	2.33	0.64
28:BG:23:UNK:O	28:BG:86:UNK:HA	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:166:ALA:HB1	34:BM:171:ILE:HD12	1.79	0.64
24:BC:395:ASP:CG	37:BP:154:ARG:HH22	2.01	0.64
23:CB:118:PHE:HE2	1:D1:2989:G:N2	1.96	0.64
23:CB:32:PHE:CD2	23:CB:180:GLN:HB3	2.32	0.64
24:CC:166:TYR:O	24:CC:222:THR:HB	1.98	0.64
24:CC:259:THR:CG2	24:CC:260:GLU:N	2.61	0.64
24:CC:321:LYS:O	24:CC:323:PRO:HD3	1.97	0.64
27:CF:75:LYS:O	27:CF:172:PHE:HB2	1.97	0.64
29:CH:80:ILE:HD13	29:CH:144:HIS:HB3	1.78	0.64
32:CK:75:VAL:HG22	32:CK:109:PHE:CD2	2.32	0.64
20:C2:137:G:H21	33:CL:112:GLU:CG	2.11	0.64
34:CM:66:TYR:OH	34:CM:73:ARG:HD2	1.97	0.64
37:CP:142:GLN:OE1	43:CV:71:ALA:HB2	1.97	0.64
1:D1:1595:A:H1'	1:D1:1599:G:N1	2.13	0.64
1:D1:1714:C:C2'	1:D1:1715:U:H5'	2.28	0.64
1:D1:210:A:HO2'	1:D1:229:A:HO2'	1.46	0.64
1:D1:2366:G:H5''	1:D1:2367:A:OP2	1.98	0.64
1:D1:3214:A:H5''	1:D1:3215:C:C6	2.33	0.64
1:D1:467:A:N6	1:D1:512:G:C6	2.66	0.64
1:D1:3232:A:H4'	5:DE:55:ALA:HB1	1.80	0.64
7:DG:47:ASN:HD21	7:DG:73:SER:HB3	1.58	0.64
14:DO:32:THR:HG22	14:DO:34:ARG:H	1.62	0.64
19:DX:13:THR:HG22	19:DX:14:LEU:HD23	1.79	0.64
38:EQ:73:ALA:O	38:EQ:76:HIS:CD2	2.51	0.64
1:F1:1578:U:H5''	1:F1:1579:U:OP2	1.98	0.64
1:F1:2542:U:H5''	1:F1:2542:U:C6	2.30	0.64
1:F1:2659:G:H2'	1:F1:2660:A:C8	2.32	0.64
1:F1:2876:U:C4	1:F1:2899:C:C5	2.86	0.64
1:F1:3157:C:H1'	8:FH:9:VAL:HG13	1.79	0.64
1:F1:499:U:H3'	1:F1:500:G:C8	2.31	0.64
5:FE:124:LYS:HG2	5:FE:132:ALA:HB2	1.80	0.64
12:FM:66:ASN:HD21	12:FM:68:GLN:HE21	1.44	0.64
14:FO:118:ASN:O	14:FO:122:GLN:HG2	1.97	0.64
32:EK:99:VAL:HB	18:FU:169:ILE:HD13	1.79	0.64
6:FF:45:ARG:NH1	19:FX:84:ASN:HB3	2.13	0.64
24:GC:321:LYS:O	24:GC:323:PRO:HD3	1.98	0.64
34:GM:206:GLY:HA2	34:GM:208:HIS:CE1	2.33	0.64
38:GQ:8:ARG:HH11	38:GQ:118:HIS:CB	2.07	0.64
43:GV:63:LYS:NZ	1:H1:562:G:O3'	2.31	0.64
1:H1:117:G:H4'	1:H1:118:A:O5'	1.97	0.64
28:GG:31:UNK:O	1:H1:1257:G:H4'	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1884:G:C2'	1:H1:1885:G:H5'	2.27	0.64
1:H1:2671:C:C2'	1:H1:2672:U:H5'	2.28	0.64
1:H1:3165:A:H2'	1:H1:3166:A:C8	2.33	0.64
1:H1:3179:U:H2'	1:H1:3180:C:C6	2.33	0.64
1:H1:836:U:H2'	1:H1:837:G:C8	2.33	0.64
1:H1:897:A:C2'	1:H1:898:C:H5'	2.28	0.64
3:HB:32:ASP:N	3:HB:32:ASP:OD1	2.31	0.64
4:HC:26:TYR:HB3	4:HC:67:ALA:HB3	1.80	0.64
6:HF:34:ASN:O	6:HF:49:PRO:HA	1.98	0.64
1:H1:1660:U:H5''	13:HN:73:LYS:NZ	2.13	0.64
1:A1:114:A:H2'	1:A1:115:G:C8	2.33	0.64
1:A1:1361:U:H5'	1:A1:1361:U:C6	2.32	0.64
1:A1:1520:U:C4	39:BR:124:ILE:HD13	2.33	0.64
1:A1:2178:A:H5'	1:A1:2178:A:H8	1.62	0.64
1:A1:718:A:H2'	1:A1:719:C:C6	2.33	0.64
23:BB:113:ASN:CB	23:BB:174:ASN:ND2	2.61	0.64
26:BE:132:ILE:HG12	26:BE:144:LEU:HD22	1.80	0.64
34:BM:184:VAL:HB	34:BM:194:LYS:HB2	1.78	0.64
34:BM:277:PHE:O	34:BM:279:PRO:HD3	1.98	0.64
45:BX:6:VAL:CG1	45:BX:7:ALA:H	2.06	0.64
24:CC:82:PRO:CB	24:CC:96:ALA:HB3	2.27	0.64
30:CI:53:PHE:CD2	30:CI:144:VAL:HG21	2.33	0.64
47:CO:156:UNK:C	47:CO:159:UNK:HG3	2.26	0.64
46:CY:4:ARG:HH12	1:D1:881:G:N2	1.96	0.64
1:D1:1413:G:C2'	1:D1:1414:C:H5'	2.28	0.64
1:D1:3123:A:OP2	50:D1:4814:HOH:O	2.15	0.64
1:D1:399:A:H4'	1:D1:400:C:OP1	1.96	0.64
1:D1:563:G:H2'	1:D1:566:U:H1'	1.78	0.64
1:D1:846:C:OP1	50:D1:4108:HOH:O	2.15	0.64
5:DE:57:ARG:O	5:DE:57:ARG:HG2	1.96	0.64
31:CJ:139:SER:HB3	9:DJ:102:SER:H	1.63	0.64
19:DX:167:LYS:HG2	19:DX:188:THR:HG21	1.79	0.64
23:EB:81:CYS:CB	23:EB:203:VAL:HG21	2.26	0.64
24:EC:227:LEU:O	24:EC:233:VAL:HG21	1.98	0.64
27:EF:124:VAL:HG12	27:EF:125:LEU:O	1.98	0.64
32:EK:117:ARG:HD3	32:EK:137:ARG:HH11	1.62	0.64
33:EL:148:ILE:O	33:EL:151:ILE:HG22	1.98	0.64
35:EN:5:LEU:HD23	43:EV:106:ARG:HD2	1.78	0.64
1:F1:1056:A:H2'	1:F1:1057:U:H5'	1.80	0.64
37:EP:19:TYR:CE2	1:F1:1077:U:H4'	2.33	0.64
1:F1:2906:G:H5''	1:F1:2906:G:H8	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:453:A:H2'	1:F1:454:A:H8	1.63	0.64
24:EC:105:ARG:NH2	1:F1:829:C:OP1	2.31	0.64
6:FF:34:ASN:O	6:FF:49:PRO:HA	1.98	0.64
13:FN:13:LEU:HD22	13:FN:75:VAL:HG21	1.79	0.64
14:FO:75:THR:HG21	14:FO:77:GLU:OE1	1.98	0.64
15:FP:8:ILE:O	15:FP:12:MET:HG3	1.97	0.64
19:FX:175:LYS:HZ2	19:FX:178:ARG:NH1	1.90	0.64
23:GB:298:VAL:O	23:GB:298:VAL:HG12	1.98	0.64
24:GC:65:MET:CE	24:GC:105:ARG:HG2	2.28	0.64
29:GH:33:ILE:HB	29:GH:69:ARG:HH22	1.61	0.64
32:GK:137:ARG:HH21	1:H1:741:G:H4'	1.63	0.64
32:GK:75:VAL:CG2	32:GK:109:PHE:CG	2.81	0.64
40:GS:56:LEU:HD12	40:GS:65:ASN:O	1.97	0.64
43:GV:82:PHE:CZ	43:GV:111:GLY:HA3	2.33	0.64
28:GG:81:UNK:HG2	1:H1:1309:G:C1'	2.27	0.64
1:H1:1662:A:H5'	11:HL:76:ARG:HH21	1.55	0.64
1:H1:41:A:O2'	1:H1:42:U:H5'	1.98	0.64
1:H1:927:G:H2'	1:H1:928:U:H6	1.63	0.64
3:HB:9:MET:HB3	3:HB:13:PHE:HE2	1.62	0.64
7:HG:95:ALA:CB	7:HG:101:LEU:HD11	2.28	0.64
9:HJ:32:GLU:HA	9:HJ:32:GLU:OE1	1.98	0.64
1:A1:2254:A:C5	1:A1:2255:U:C4	2.86	0.63
1:A1:2387:C:HO2'	23:BB:264:ARG:NH2	1.94	0.63
1:A1:3073:U:OP2	50:A1:4469:HOH:O	2.15	0.63
1:A1:418:G:C3'	1:A1:418:G:C8	2.80	0.63
1:A1:513:G:O2'	1:A1:514:U:H5'	1.98	0.63
1:A1:636:U:O2'	1:A1:637:U:H5'	1.97	0.63
7:AG:17:VAL:HG13	7:AG:95:ALA:HB2	1.78	0.63
18:AU:146:ALA:HB1	18:AU:148:ASN:ND2	2.13	0.63
18:AU:177:VAL:O	18:AU:181:ILE:HG13	1.98	0.63
20:B2:74:A:H61	20:B2:88:G:H1'	1.62	0.63
22:BA:102:VAL:C	22:BA:103:LEU:HD23	2.18	0.63
23:BB:27:GLY:HA2	23:BB:272:HIS:HE1	1.64	0.63
24:BC:283:TYR:CE1	24:BC:285:LEU:HA	2.33	0.63
27:BF:65:LYS:HE2	27:BF:225:TRP:HE3	1.63	0.63
29:BH:204:GLY:HA3	29:BH:208:ARG:NH2	2.13	0.63
34:BM:250:VAL:HG12	34:BM:254:ILE:CD1	2.27	0.63
35:BN:37:LEU:O	35:BN:41:THR:HB	1.98	0.63
27:CF:230:LEU:HD12	27:CF:235:GLN:OE1	1.98	0.63
30:CI:86:MET:HE1	1:D1:1201:G:N2	2.04	0.63
35:CN:37:LEU:O	35:CN:41:THR:HB	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2369:C:H3'	50:D1:4019:HOH:O	1.98	0.63
1:D1:2416:U:H2'	1:D1:2417:C:O4'	1.98	0.63
1:D1:2856:U:O4	50:D1:4354:HOH:O	2.12	0.63
26:CE:166:LYS:NZ	1:D1:2882:U:OP1	2.25	0.63
1:D1:3291:G:HO2'	1:D1:3292:U:P	2.20	0.63
1:D1:499:U:H3'	1:D1:500:G:C8	2.32	0.63
1:D1:866:A:H5''	1:D1:866:A:H8	1.64	0.63
9:DJ:119:PRO:HG2	9:DJ:146:VAL:HG12	1.80	0.63
14:DO:94:ILE:HD12	14:DO:111:LEU:HD12	1.79	0.63
18:DU:133:LYS:C	18:DU:135:LEU:N	2.52	0.63
21:E3:120:U:H4'	34:EM:265:LYS:NZ	2.12	0.63
21:E3:47:C:H2'	21:E3:48:G:O4'	1.97	0.63
24:EC:157:TYR:CD1	24:EC:159:PHE:HE1	2.15	0.63
24:EC:272:THR:HG22	24:EC:273:TYR:H	1.63	0.63
33:EL:26:ARG:O	33:EL:30:TYR:HD1	1.81	0.63
41:ET:22:ARG:NE	41:ET:32:PHE:HD2	1.95	0.63
1:F1:2252:C:C4	1:F1:2253:U:C4	2.85	0.63
1:F1:3168:A:OP1	1:F1:3168:A:C8	2.50	0.63
1:F1:3263:G:O2'	1:F1:3265:A:N6	2.27	0.63
1:F1:368:A:H5'	1:F1:369:U:OP1	1.96	0.63
38:EQ:64:ARG:NH1	1:F1:409:G:OP1	2.31	0.63
1:F1:454:A:H61	1:F1:524:G:H1'	1.61	0.63
5:FE:57:ARG:HG2	5:FE:57:ARG:O	1.98	0.63
6:FF:49:PRO:HG2	6:FF:52:ARG:HG3	1.79	0.63
9:FJ:129:ILE:HG23	9:FJ:133:LEU:HD12	1.80	0.63
19:FX:16:MET:HG2	19:FX:17:LYS:H	1.61	0.63
21:G3:93:G:O5'	21:G3:93:G:H8	1.80	0.63
22:GA:195:LYS:HG3	22:GA:195:LYS:O	1.98	0.63
23:GB:257:ARG:NH2	1:H1:2361:U:O3'	2.30	0.63
27:GF:125:LEU:HD11	27:GF:191:VAL:CG1	2.29	0.63
34:GM:119:TYR:CD1	34:GM:132:VAL:CG1	2.80	0.63
35:GN:73:ASN:H	35:GN:76:ASN:CB	2.10	0.63
36:GO:115:ILE:HG22	36:GO:119:GLN:CB	2.28	0.63
24:GC:383:ALA:HB1	37:GP:147:PHE:CG	2.33	0.63
43:GV:226:ASN:OD1	43:GV:226:ASN:O	2.16	0.63
1:H1:1107:A:H5''	1:H1:1108:A:OP2	1.99	0.63
1:H1:1361:U:H5'	1:H1:1361:U:C6	2.31	0.63
1:H1:1906:G:O2'	1:H1:1907:A:H5'	1.99	0.63
1:H1:2133:U:C5	1:H1:2138:A:N7	2.66	0.63
1:H1:2178:A:H5'	1:H1:2178:A:H8	1.62	0.63
1:H1:2613:G:H21	1:H1:2615:A:H2	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3071:C:O2'	1:H1:3072:G:H5'	1.98	0.63
1:H1:433:C:C5'	1:H1:434:A:OP2	2.46	0.63
1:H1:620:A:C8	1:H1:634:G:C6	2.85	0.63
6:HF:45:ARG:NH1	19:HX:84:ASN:HB3	2.13	0.63
1:A1:1184:U:H6	1:A1:1184:U:C5'	2.11	0.63
1:A1:1252:A:N3	1:A1:3105:G:N7	2.46	0.63
1:A1:1366:C:H2'	1:A1:1367:A:H8	1.59	0.63
1:A1:1598:C:H2'	1:A1:1599:G:H5'	1.78	0.63
1:A1:511:U:H2'	1:A1:512:G:H8	1.61	0.63
1:A1:534:U:H2'	1:A1:535:C:C6	2.34	0.63
1:A1:1381:G:H5'	14:AO:37:GLN:HG3	1.79	0.63
21:B3:33:U:C4	34:BM:212:TYR:CE1	2.85	0.63
23:BB:47:THR:OG1	23:BB:177:LEU:HD11	1.98	0.63
23:BB:81:CYS:CB	23:BB:203:VAL:HG21	2.28	0.63
23:CB:55:HIS:H	23:CB:55:HIS:CD2	2.14	0.63
27:CF:29:PHE:HD2	27:CF:37:PRO:HD3	1.60	0.63
28:CG:4:UNK:CG	28:CG:6:UNK:HG2	2.23	0.63
35:CN:31:ILE:HG22	35:CN:35:LYS:HE3	1.80	0.63
35:CN:92:ARG:CZ	1:D1:810:G:C8	2.80	0.63
47:CO:15:LEU:HD21	47:CO:45:ILE:HD13	1.80	0.63
45:CX:42:ASN:HD22	45:CX:45:ARG:N	1.87	0.63
45:CX:6:VAL:CG1	45:CX:7:ALA:H	2.06	0.63
29:CH:194:GLY:HA3	1:D1:1036:G:O2'	1.98	0.63
1:D1:1752:G:C5'	1:D1:1754:G:H5''	2.23	0.63
1:D1:2576:C:C6	1:D1:2576:C:C5'	2.79	0.63
1:D1:2671:C:C2'	1:D1:2672:U:H5'	2.27	0.63
1:D1:2875:A:N3	1:D1:2875:A:H2'	2.11	0.63
1:D1:313:U:H2'	1:D1:314:C:C6	2.33	0.63
1:D1:449:G:H2'	1:D1:450:C:C6	2.34	0.63
1:D1:504:A:O2'	1:D1:505:A:H8	1.79	0.63
1:D1:532:G:H2'	1:D1:533:G:H8	1.58	0.63
1:D1:645:A:C1'	1:D1:646:A:OP2	2.46	0.63
1:D1:3235:U:O4	8:DH:13:ARG:HA	1.99	0.63
19:DX:16:MET:CE	19:DX:18:VAL:HG22	2.28	0.63
21:E3:16:A:H2'	21:E3:17:A:C8	2.33	0.63
22:EA:38:ARG:O	22:EA:93:LEU:HG	1.98	0.63
24:EC:157:TYR:HD1	24:EC:159:PHE:CE1	2.16	0.63
24:EC:309:LYS:O	35:EN:40:ARG:NH1	2.30	0.63
27:EF:131:HIS:O	27:EF:135:LEU:HG	1.98	0.63
29:EH:80:ILE:HD13	29:EH:144:HIS:HB3	1.80	0.63
33:EL:196:GLN:HB3	18:FU:19:ARG:HH11	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:250:VAL:HG12	34:EM:254:ILE:CD1	2.28	0.63
35:EN:18:ARG:HD3	35:EN:54:SER:O	1.97	0.63
35:EN:73:ASN:H	35:EN:76:ASN:CB	2.10	0.63
43:EV:80:VAL:HG22	43:EV:188:VAL:HG23	1.79	0.63
1:F1:123:C:H2'	1:F1:124:U:H6	1.63	0.63
1:F1:126:A:H2	1:F1:141:C:N4	1.96	0.63
1:F1:1435:C:H6	1:F1:1435:C:H5'	1.63	0.63
1:F1:1752:G:C5'	1:F1:1754:G:H5''	2.25	0.63
1:F1:2275:A:P	50:F1:4339:HOH:O	2.52	0.63
1:F1:2602:U:O4	50:F1:3667:HOH:O	2.11	0.63
1:F1:313:U:H2'	1:F1:314:C:C6	2.33	0.63
1:F1:3177:G:C4'	1:F1:3178:U:OP2	2.40	0.63
1:F1:3235:U:O4	8:FH:13:ARG:HA	1.98	0.63
1:F1:623:G:N2	1:F1:633:C:C2	2.67	0.63
35:EN:56:SER:HB3	1:F1:695:U:OP1	1.97	0.63
5:FE:15:ILE:HA	5:FE:18:TRP:NE1	2.13	0.63
7:FG:8:ASP:OD1	7:FG:9:ASN:N	2.32	0.63
1:F1:3237:C:C2	8:FH:7:SER:OG	2.51	0.63
12:FM:35:PHE:HE1	12:FM:39:LEU:HD11	1.63	0.63
33:EL:16:SER:HB3	16:FQ:49:THR:HG23	1.81	0.63
19:FX:113:LEU:CD2	19:FX:140:THR:HG21	2.28	0.63
1:F1:1350:G:O3'	19:FX:16:MET:HG3	1.98	0.63
21:G3:59:C:H2'	21:G3:60:C:C6	2.33	0.63
23:GB:56:ILE:HG21	23:GB:354:LEU:HD22	1.81	0.63
24:GC:382:LYS:HG3	24:GC:383:ALA:N	2.12	0.63
29:GH:80:ILE:CD1	29:GH:144:HIS:HB3	2.28	0.63
33:GL:165:THR:O	33:GL:169:ARG:HG3	1.97	0.63
34:GM:250:VAL:HG12	34:GM:254:ILE:HD11	1.80	0.63
44:GW:33:ARG:NH2	1:H1:1906:G:H5''	2.11	0.63
1:H1:2277:U:O2'	1:H1:2278:G:P	2.56	0.63
1:H1:2508:U:H2'	1:H1:2581:G:H1	1.63	0.63
1:H1:2720:G:H2'	1:H1:2721:G:H5'	1.79	0.63
1:H1:396:A:C4'	1:H1:397:A:OP2	2.35	0.63
1:H1:978:G:OP2	17:HT:15:LYS:NZ	2.26	0.63
1:H1:1858:U:OP1	3:HB:5:LYS:HE3	1.98	0.63
14:HO:16:LEU:HD13	14:HO:35:ASN:ND2	2.12	0.63
1:A1:1037:A:H2'	1:A1:1038:G:H8	1.62	0.63
1:A1:2671:C:C2'	1:A1:2672:U:H5'	2.27	0.63
1:A1:282:G:N2	1:A1:304:U:O4'	2.31	0.63
1:A1:563:G:C5'	1:A1:564:A:OP1	2.46	0.63
1:A1:707:A:OP2	50:A1:4634:HOH:O	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:742:U:O4	17:AT:61:LYS:CB	2.46	0.63
12:AM:110:PHE:O	12:AM:111:ASN:HB2	1.98	0.63
20:B2:1:A:H4'	20:B2:2:G:OP1	1.98	0.63
25:BD:106:ILE:HD12	25:BD:127:PHE:CE1	2.34	0.63
27:BF:124:VAL:HG12	27:BF:125:LEU:O	1.99	0.63
27:BF:230:LEU:HD12	27:BF:235:GLN:OE1	1.99	0.63
29:BH:80:ILE:HD13	29:BH:144:HIS:HB3	1.79	0.63
36:BO:114:LYS:HB3	36:BO:146:LYS:NZ	2.13	0.63
22:CA:102:VAL:C	22:CA:103:LEU:HD23	2.18	0.63
23:CB:22:THR:HG22	23:CB:24:HIS:N	2.13	0.63
24:CC:65:MET:HE3	24:CC:105:ARG:HH11	1.63	0.63
25:CD:37:LEU:HD13	25:CD:69:VAL:HG23	1.80	0.63
26:CE:132:ILE:HG23	26:CE:144:LEU:CD2	2.28	0.63
27:CF:196:VAL:CG1	27:CF:200:ASP:HB2	2.26	0.63
20:C2:147:G:N2	27:CF:54:GLN:HE22	1.93	0.63
29:CH:116:ARG:O	1:D1:2633:C:O2'	2.16	0.63
31:CJ:25:ALA:HA	1:D1:1923:G:OP1	1.98	0.63
33:CL:183:SER:HA	33:CL:191:ASN:HD22	1.60	0.63
34:CM:119:TYR:HD1	34:CM:132:VAL:HG11	1.57	0.63
38:CQ:120:GLN:HB3	38:CQ:149:GLU:CG	2.28	0.63
1:D1:1533:G:H4'	1:D1:1534:C:OP2	1.98	0.63
1:D1:155:A:H4'	1:D1:156:A:OP1	1.98	0.63
32:CK:44:ARG:NH2	1:D1:2788:G:N7	2.46	0.63
1:D1:3100:U:C2'	1:D1:3101:G:H5'	2.28	0.63
1:D1:513:G:O2'	1:D1:514:U:H5'	1.98	0.63
1:D1:592:A:H2'	1:D1:593:U:C6	2.33	0.63
5:DE:15:ILE:HA	5:DE:18:TRP:NE1	2.14	0.63
8:DH:54:LYS:HD2	8:DH:108:LEU:HA	1.80	0.63
9:DJ:43:VAL:HG12	9:DJ:44:PRO:CD	2.28	0.63
16:DQ:77:ALA:HB1	16:DQ:87:ALA:HA	1.80	0.63
23:EB:116:LYS:HD3	23:EB:173:LYS:HB2	1.79	0.63
23:EB:27:GLY:HA2	23:EB:272:HIS:HE1	1.63	0.63
32:EK:119:PRO:HG3	35:EN:94:LEU:CD1	2.29	0.63
32:EK:88:THR:HG23	18:FU:164:LYS:HZ1	1.61	0.63
1:F1:1652:U:H4'	1:F1:1655:A:C5'	2.28	0.63
1:F1:1957:A:OP2	50:F1:4371:HOH:O	2.15	0.63
1:F1:2256:G:C2'	1:F1:2257:A:H5''	2.28	0.63
1:F1:243:G:C8	1:F1:243:G:H5'	2.33	0.63
1:F1:2574:U:H5'	1:F1:2575:G:OP1	1.98	0.63
1:F1:1252:A:N3	1:F1:3105:G:N7	2.46	0.63
1:F1:418:G:C3'	1:F1:418:G:C8	2.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:832:A:H2	1:F1:2406:U:O2'	1.77	0.63
9:FJ:32:GLU:HA	9:FJ:32:GLU:OE1	1.98	0.63
9:FJ:39:GLU:HB3	9:FJ:43:VAL:CG2	2.28	0.63
27:GF:20:PRO:HB2	27:GF:22:PHE:CD2	2.34	0.63
28:GG:81:UNK:HG3	1:H1:1308:U:H2'	1.80	0.63
29:GH:41:ALA:HB3	29:GH:139:ARG:NH2	2.14	0.63
33:GL:120:TRP:CE2	33:GL:122:GLY:HA2	2.32	0.63
46:GY:62:LYS:NZ	1:H1:2545:A:N7	2.46	0.63
1:H1:1578:U:H5''	1:H1:1579:U:OP2	1.98	0.63
1:H1:1599:G:H2'	1:H1:1600:U:H5'	1.81	0.63
1:H1:169:A:OP2	1:H1:249:G:N2	2.31	0.63
1:H1:296:G:H5''	1:H1:297:U:OP1	1.99	0.63
1:H1:690:U:H2'	1:H1:691:C:C6	2.34	0.63
2:HA:17:THR:CG2	2:HA:18:LEU:H	2.11	0.63
1:A1:1020:G:OP1	37:BP:14:LYS:HE3	1.98	0.63
1:A1:2399:A:H2'	1:A1:2399:A:N3	2.12	0.63
1:A1:2860:A:H5'	1:A1:2860:A:N3	2.13	0.63
1:A1:741:G:H4'	32:BK:137:ARG:HH21	1.64	0.63
5:AE:63:VAL:HG11	5:AE:76:VAL:HG13	1.80	0.63
1:A1:3155:A:N6	8:AH:98:GLN:O	2.27	0.63
1:A1:3109:C:C3'	10:AK:111:ARG:NH1	2.46	0.63
23:BB:332:ARG:HG3	23:BB:332:ARG:NH1	2.08	0.63
23:BB:49:PHE:CE2	23:BB:333:VAL:HG12	2.33	0.63
24:BC:115:ARG:O	24:BC:115:ARG:HG2	1.98	0.63
27:BF:96:LYS:HB3	27:BF:97:PRO:HD2	1.79	0.63
31:BJ:10:GLN:CG	31:BJ:129:ILE:HG23	2.24	0.63
32:BK:75:VAL:HG22	32:BK:109:PHE:CD2	2.33	0.63
35:BN:28:LYS:HE3	35:BN:32:LYS:HE2	1.79	0.63
36:BO:15:LEU:HD13	36:BO:52:LYS:HB2	1.81	0.63
20:C2:37:A:O3'	50:C2:312:HOH:O	2.16	0.63
29:CH:204:GLY:HA3	29:CH:208:ARG:NH2	2.13	0.63
34:CM:184:VAL:HB	34:CM:194:LYS:HB2	1.80	0.63
38:CQ:72:THR:HG21	38:CQ:74:GLN:HG3	1.80	0.63
45:CX:78:ILE:HB	45:CX:98:ILE:HA	1.81	0.63
1:D1:1025:G:C6	1:D1:1026:C:N4	2.66	0.63
1:D1:2508:U:H2'	1:D1:2581:G:H1	1.62	0.63
1:D1:2651:A:H2'	1:D1:2652:G:C8	2.33	0.63
1:D1:2913:C:H2'	1:D1:2914:A:H5'	1.81	0.63
1:D1:2962:U:H6	1:D1:2962:U:H5'	1.63	0.63
1:D1:534:U:H2'	1:D1:535:C:C6	2.34	0.63
1:D1:842:A:C8	2:DA:15:THR:CG2	2.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DE:113:GLU:HG3	5:DE:114:ASP:H	1.62	0.63
7:DG:57:GLU:HA	7:DG:67:ILE:CD1	2.27	0.63
8:DH:23:PHE:CD2	8:DH:32:SER:HA	2.34	0.63
11:DL:9:ARG:HG3	11:DL:34:TYR:CE2	2.34	0.63
12:DM:110:PHE:O	12:DM:111:ASN:HB2	1.99	0.63
23:EB:113:ASN:CB	23:EB:174:ASN:ND2	2.61	0.63
23:EB:253:TRP:CD2	1:F1:2929:A:C8	2.86	0.63
23:EB:97:ARG:HH21	1:F1:3206:A:H5'	1.63	0.63
21:E3:54:A:C2'	25:ED:152:GLN:HE21	2.11	0.63
25:ED:37:LEU:HD13	25:ED:69:VAL:HG23	1.80	0.63
26:EE:12:ILE:HD11	26:EE:53:VAL:HG23	1.81	0.63
31:EJ:32:ASN:HD21	31:EJ:116:SER:H	1.46	0.63
33:EL:120:TRP:CE2	33:EL:122:GLY:HA2	2.33	0.63
1:F1:1375:A:H4'	1:F1:1376:A:OP1	1.98	0.63
1:F1:1714:C:C2'	1:F1:1715:U:H5'	2.28	0.63
1:F1:184:C:H2'	1:F1:185:A:C8	2.33	0.63
1:F1:729:A:HO2'	1:F1:810:G:N2	1.97	0.63
1:F1:842:A:N7	2:FA:15:THR:HG23	2.12	0.63
1:F1:876:C:H2'	1:F1:877:U:H6	1.63	0.63
11:FL:49:CYS:SG	11:FL:51:VAL:HG23	2.39	0.63
16:FQ:49:THR:HG22	16:FQ:50:GLY:O	1.99	0.63
22:GA:209:ASP:O	22:GA:210:HIS:HB2	1.98	0.63
23:GB:113:ASN:CB	23:GB:174:ASN:ND2	2.61	0.63
33:GL:88:GLY:C	33:GL:89:ILE:HG12	2.17	0.63
46:GY:8:VAL:HG13	46:GY:11:THR:HB	1.79	0.63
1:H1:1096:G:H2'	1:H1:1097:G:C5'	2.26	0.63
1:H1:2380:U:O2	1:H1:2380:U:H2'	1.98	0.63
1:H1:2569:A:HO2'	1:H1:2570:U:P	2.20	0.63
1:H1:155:A:C4	1:H1:265:A:C2	2.86	0.63
1:H1:564:A:H5'	1:H1:565:G:OP2	1.98	0.63
1:H1:726:G:H2'	1:H1:727:C:C6	2.34	0.63
5:HE:86:PRO:HB2	5:HE:153:GLN:NE2	2.01	0.63
19:HX:16:MET:CE	19:HX:121:ILE:HD12	2.29	0.63
21:G3:93:G:H4'	19:HX:96:GLN:NE2	2.14	0.63
1:A1:1068:U:O5'	1:A1:1068:U:H6	1.82	0.63
1:A1:1319:C:H2'	1:A1:1320:U:H6	1.62	0.63
1:A1:1660:U:H1'	13:AN:38:PHE:CZ	2.34	0.63
1:A1:2507:C:O2'	1:A1:2508:U:H5'	1.99	0.63
1:A1:2906:G:H8	1:A1:2906:G:H5''	1.62	0.63
1:A1:3331:C:H4'	1:A1:3332:A:H5''	1.81	0.63
1:A1:568:A:C2	1:A1:602:A:C2	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:103:LEU:HD22	6:AF:107:ASP:HB3	1.80	0.63
9:AJ:119:PRO:HG2	9:AJ:146:VAL:HG12	1.80	0.63
12:AM:66:ASN:ND2	12:AM:68:GLN:HE21	1.96	0.63
13:AN:96:LEU:HD22	13:AN:113:THR:HG21	1.80	0.63
24:BC:32:PRO:CG	24:BC:286:GLN:HB3	2.29	0.63
1:A1:118:A:N7	27:BF:122:PRO:HD3	2.14	0.63
27:BF:159:LEU:HB2	27:BF:160:PRO:HD3	1.81	0.63
34:BM:206:GLY:HA2	34:BM:208:HIS:CE1	2.33	0.63
36:BO:151:LYS:O	36:BO:153:ASP:N	2.31	0.63
1:A1:1195:U:OP1	43:BV:208:ARG:O	2.17	0.63
44:BW:20:HIS:CD2	44:BW:21:LYS:HB2	2.34	0.63
29:CH:139:ARG:HD3	29:CH:173:PHE:CE1	2.33	0.63
38:CQ:8:ARG:NH1	38:CQ:117:GLN:HG3	2.13	0.63
1:D1:1343:G:O6	19:DX:167:LYS:HD2	1.97	0.63
1:D1:2109:G:C2'	1:D1:2110:C:H5'	2.28	0.63
1:D1:2177:A:C2'	1:D1:2178:A:H5''	2.28	0.63
1:D1:2276:A:H1'	1:D1:2962:U:O2'	1.98	0.63
1:D1:604:A:H8	1:D1:604:A:O5'	1.80	0.63
1:D1:726:G:H2'	1:D1:727:C:C6	2.34	0.63
1:D1:837:G:N7	50:D1:4094:HOH:O	2.31	0.63
1:D1:846:C:C2'	1:D1:847:G:H5''	2.25	0.63
1:D1:972:U:H2'	1:D1:973:C:C6	2.33	0.63
20:E2:18:G:H1'	1:F1:406:A:H61	1.63	0.63
20:E2:50:C:H1'	20:E2:64:A:H2'	1.81	0.63
20:E2:88:G:O2'	20:E2:89:A:O5'	2.16	0.63
24:EC:159:PHE:HZ	24:EC:179:VAL:HG13	1.62	0.63
25:ED:53:THR:HA	25:ED:59:ILE:O	1.99	0.63
28:EG:23:UNK:O	28:EG:86:UNK:HA	1.99	0.63
30:EI:86:MET:CE	1:F1:1201:G:N2	2.60	0.63
34:EM:119:TYR:HD1	34:EM:132:VAL:HG11	1.58	0.63
38:EQ:32:TYR:CD2	38:EQ:33:GLU:HG2	2.32	0.63
1:F1:1127:U:H2'	1:F1:1128:G:H8	1.62	0.63
1:F1:2732:G:H2'	1:F1:2733:C:C6	2.33	0.63
22:GA:58:PRO:HD2	22:GA:171:ALA:HB3	1.79	0.63
30:GI:177:ARG:HD3	30:GI:180:GLU:OE2	1.99	0.63
30:GI:86:MET:CE	1:H1:1202:C:H1'	2.27	0.63
31:GJ:85:GLN:HA	31:GJ:102:ASN:HD22	1.63	0.63
39:GR:56:ARG:HB3	39:GR:61:VAL:HG21	1.79	0.63
40:GS:6:GLU:OE1	40:GS:6:GLU:N	2.31	0.63
41:GT:5:THR:CG2	41:GT:14:ARG:HG3	2.24	0.63
43:GV:128:LEU:N	43:GV:129:PRO:HD2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:GV:98:ARG:CD	1:H1:1010:G:H2'	2.28	0.63
1:H1:925:G:H1'	1:H1:1614:A:N6	2.12	0.63
1:H1:1700:A:OP2	12:HM:74:SER:HB2	1.98	0.63
24:GC:229:ASN:ND2	1:H1:211:A:H3'	2.10	0.63
1:H1:2738:G:O2'	1:H1:2739:C:H5'	1.99	0.63
1:H1:438:A:O3'	1:H1:439:A:H8	1.81	0.63
1:H1:979:U:C1'	17:HT:12:GLN:HE21	2.08	0.63
1:H1:787:U:C2'	18:HU:179:ARG:HH22	2.11	0.63
19:HX:16:MET:CE	19:HX:18:VAL:HG22	2.28	0.63
1:H1:1210:C:H5''	19:HX:171:ARG:HH21	1.62	0.63
1:A1:1168:C:OP1	50:A1:3935:HOH:O	2.16	0.63
1:A1:1361:U:C5'	1:A1:1361:U:H6	2.11	0.63
1:A1:1714:C:C2'	1:A1:1715:U:H5'	2.29	0.63
1:A1:2574:U:H5'	1:A1:2575:G:OP1	1.99	0.63
1:A1:3129:G:O6	23:BB:28:ARG:NH2	2.29	0.63
1:A1:453:A:H2'	1:A1:454:A:H8	1.64	0.63
1:A1:564:A:H5'	1:A1:565:G:OP2	1.98	0.63
1:A1:972:U:H5''	45:BX:57:ILE:CG1	2.27	0.63
6:AF:110:ARG:HD2	30:BI:196:PHE:CZ	2.33	0.63
7:AG:40:LYS:O	7:AG:65:ILE:HG23	1.99	0.63
9:AJ:39:GLU:HB3	9:AJ:43:VAL:CG2	2.29	0.63
20:B2:58:U:N3	20:B2:65:C:H5	1.93	0.63
23:BB:303:ILE:HD11	23:BB:319:PHE:CE1	2.34	0.63
24:BC:167:GLU:N	24:BC:171:GLN:NE2	2.46	0.63
24:BC:33:ILE:HG22	24:BC:33:ILE:O	1.99	0.63
23:CB:183:GLY:O	23:CB:189:LYS:HE2	1.98	0.63
24:CC:287:ARG:HD2	35:CN:111:ARG:NH1	2.13	0.63
1:D1:1361:U:H5'	1:D1:1361:U:C6	2.34	0.63
1:D1:1595:A:O2'	1:D1:1598:C:N4	2.32	0.63
1:D1:1662:A:OP2	13:DN:16:GLY:HA2	1.99	0.63
1:D1:269:U:O2'	1:D1:317:A:H1'	1.97	0.63
1:D1:2703:G:N2	50:D1:4717:HOH:O	2.31	0.63
1:D1:2761:U:H4'	1:D1:2762:U:OP1	1.97	0.63
1:D1:718:A:O2'	1:D1:719:C:H5'	1.99	0.63
6:DF:103:LEU:HD22	6:DF:107:ASP:HB3	1.81	0.63
11:DL:37:LYS:HB2	11:DL:60:ARG:HH21	1.62	0.63
23:EB:384:LYS:O	23:EB:387:GLU:HG2	1.99	0.63
26:EE:4:LEU:HD11	19:FX:163:PHE:CD1	2.32	0.63
41:ET:5:THR:CG2	41:ET:14:ARG:HG3	2.27	0.63
43:EV:144:LEU:HD23	43:EV:239:LEU:HD21	1.79	0.63
1:F1:1061:G:H2'	1:F1:1062:A:H8	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1107:A:H5''	1:F1:1108:A:OP2	1.99	0.63
1:F1:1184:U:P	50:F1:3814:HOH:O	2.54	0.63
1:F1:118:A:H4'	1:F1:119:A:C5'	2.27	0.63
1:F1:1758:U:C4'	1:F1:1759:C:OP2	2.44	0.63
22:EA:180:ILE:O	1:F1:2145:A:O3'	2.17	0.63
1:F1:2889:G:OP1	50:F1:4433:HOH:O	2.15	0.63
1:F1:579:G:H1	6:FF:29:ASN:HD21	1.47	0.63
7:FG:10:ILE:HA	7:FG:13:LYS:HD3	0.82	0.63
8:FH:36:LEU:HD22	8:FH:81:HIS:CD2	2.33	0.63
1:F1:792:G:H5'	18:FU:190:TRP:CD2	2.34	0.63
26:GE:131:LYS:HE2	26:GE:145:GLN:HG2	1.80	0.63
27:GF:149:ASP:OD1	27:GF:176:LYS:HD3	1.99	0.63
29:GH:204:GLY:HA3	29:GH:208:ARG:NH2	2.14	0.63
29:GH:34:TYR:CZ	29:GH:92:HIS:ND1	2.67	0.63
30:GI:158:LYS:HD3	30:GI:158:LYS:C	2.19	0.63
30:GI:81:ARG:HH22	1:H1:2378:A:P	2.21	0.63
21:G3:11:A:C8	34:GM:18:THR:HB	2.34	0.63
36:GO:15:LEU:HD13	36:GO:52:LYS:HB2	1.79	0.63
43:GV:164:THR:HG22	43:GV:168:LYS:HE3	1.81	0.63
43:GV:178:VAL:O	43:GV:182:ILE:HG13	1.98	0.63
43:GV:144:LEU:HD23	43:GV:239:LEU:HD21	1.81	0.63
1:H1:2264:U:H2'	1:H1:2264:U:O2	1.98	0.63
1:H1:2602:U:O4	50:H1:3646:HOH:O	2.11	0.63
1:H1:281:G:C4'	1:H1:282:G:C8	2.81	0.63
1:H1:2862:G:HO2'	1:H1:2863:U:H6	1.44	0.63
1:H1:3096:U:C5'	10:HK:112:LYS:HZ3	2.10	0.63
1:H1:3177:G:C4'	1:H1:3178:U:OP2	2.45	0.63
1:H1:3185:G:C4	1:H1:3237:C:N3	2.66	0.63
5:HE:124:LYS:HG2	5:HE:132:ALA:HB2	1.80	0.63
1:H1:3155:A:N6	8:HH:98:GLN:O	2.26	0.63
1:A1:132:U:O2'	1:A1:133:C:OP2	2.17	0.63
1:A1:2344:U:C6	1:A1:2344:U:H5'	2.32	0.63
1:A1:2414:A:H2'	1:A1:2415:C:H6	1.63	0.63
1:A1:801:U:O2	1:A1:2708:U:O2	2.16	0.63
1:A1:2899:C:C5'	1:A1:2900:G:OP1	2.46	0.63
1:A1:592:A:H2'	1:A1:593:U:C6	2.33	0.63
5:AE:173:TYR:CG	6:AF:106:PHE:HD1	2.17	0.63
5:AE:42:ARG:NH2	5:AE:92:GLN:O	2.32	0.63
6:AF:34:ASN:O	6:AF:49:PRO:HA	1.97	0.63
5:AE:93:ALA:HA	8:AH:111:ASN:O	1.97	0.63
9:AJ:23:TYR:HA	9:AJ:46:ILE:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:38:PHE:CE2	13:AN:76:ASN:HB2	2.33	0.63
23:BB:371:VAL:HG13	23:BB:382:ARG:CZ	2.28	0.63
24:BC:309:LYS:O	35:BN:40:ARG:NH1	2.31	0.63
34:BM:153:THR:HG22	34:BM:179:ARG:HH11	1.62	0.63
1:A1:388:A:C2'	38:BQ:103:ASN:HD21	2.10	0.63
21:C3:40:C:H2'	21:C3:40:C:O2	1.98	0.63
21:C3:83:G:N2	21:C3:93:G:N2	2.46	0.63
30:CI:61:MET:HE3	30:CI:68:GLY:HA3	1.81	0.63
31:CJ:10:GLN:CG	31:CJ:129:ILE:HG23	2.24	0.63
33:CL:165:THR:O	33:CL:169:ARG:HG3	1.99	0.63
34:CM:153:THR:HG22	34:CM:179:ARG:HH11	1.64	0.63
40:CS:86:LYS:HG3	40:CS:96:ILE:HD11	1.80	0.63
45:CX:98:ILE:CA	45:CX:123:ASN:HD21	2.10	0.63
1:D1:2640:G:O2'	1:D1:2784:G:C6	2.49	0.63
1:D1:2994:G:O2'	1:D1:2995:A:P	2.56	0.63
23:CB:364:GLY:HA3	1:D1:3288:A:H4'	1.81	0.63
1:D1:548:G:N2	1:D1:619:G:N2	2.44	0.63
9:DJ:22:ALA:HB2	9:DJ:67:LYS:HB2	1.81	0.63
20:E2:13:A:H2'	20:E2:14:C:C6	2.34	0.63
22:EA:160:PRO:HG2	22:EA:163:CYS:SG	2.38	0.63
20:E2:25:U:OP2	24:EC:201:LEU:HD22	1.99	0.63
26:EE:167:GLU:C	26:EE:168:LYS:HG2	2.17	0.63
33:EL:18:LEU:O	33:EL:22:ILE:HG13	1.99	0.63
36:EO:123:PHE:HD2	36:EO:138:LEU:HD11	1.62	0.63
43:EV:215:ARG:NH2	1:F1:1197:A:O3'	2.31	0.63
45:EX:9:LYS:HD2	1:F1:621:G:OP1	1.98	0.63
1:F1:1056:A:C2'	1:F1:1057:U:H5'	2.29	0.63
1:F1:2962:U:H6	1:F1:2962:U:H5'	1.64	0.63
1:F1:516:C:H3'	1:F1:517:A:C8	2.34	0.63
1:F1:3227:A:H5'	5:FE:57:ARG:HH12	1.56	0.63
13:FN:23:ALA:HB2	13:FN:45:GLY:HA3	1.81	0.63
28:GG:14:UNK:O	28:GG:18:UNK:HG2	1.98	0.63
1:H1:1667:A:O2'	1:H1:1668:A:P	2.57	0.63
44:GW:23:SER:HB3	1:H1:2340:A:OP1	1.98	0.63
1:H1:3011:G:H4'	1:H1:3012:U:O5'	1.98	0.63
1:H1:558:U:H2'	1:H1:559:G:H8	1.62	0.63
1:H1:619:G:C4'	1:H1:620:A:C2	2.82	0.63
1:H1:751:C:H6	1:H1:751:C:H5'	1.63	0.63
9:HJ:119:PRO:HG2	9:HJ:146:VAL:HG12	1.81	0.63
13:HN:22:LYS:HZ2	13:HN:140:SER:HB3	1.64	0.63
1:A1:1004:U:C5'	1:A1:1004:U:H6	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1016:U:C3'	1:A1:1017:U:H5''	2.28	0.63
1:A1:1127:U:H2'	1:A1:1128:G:H8	1.64	0.63
1:A1:1134:C:C2'	1:A1:1135:U:H5''	2.28	0.63
1:A1:1227:A:N3	1:A1:1227:A:H2'	2.12	0.63
1:A1:1375:A:C4'	1:A1:1376:A:OP1	2.47	0.63
1:A1:1434:G:H2'	1:A1:1435:C:H5'	1.78	0.63
1:A1:3023:C:H2'	1:A1:3024:A:H8	1.64	0.63
1:A1:563:G:H2'	1:A1:566:U:H1'	1.79	0.63
3:AB:10:LYS:NZ	39:BR:122:ASN:O	2.31	0.63
4:AC:36:GLN:HA	4:AC:36:GLN:OE1	1.98	0.63
5:AE:122:ALA:HB2	5:AE:134:LEU:HD23	1.80	0.63
19:AX:11:ASP:OD1	19:AX:13:THR:HB	1.98	0.63
20:B2:7:U:OP1	38:BQ:64:ARG:CG	2.47	0.63
1:A1:847:G:O2'	22:BA:20:HIS:HE1	1.81	0.63
1:A1:3325:G:N2	23:BB:378:PHE:HA	2.14	0.63
27:BF:125:LEU:HD11	27:BF:191:VAL:CG1	2.29	0.63
1:A1:2518:A:H2'	27:BF:46:ARG:HG3	1.80	0.63
27:BF:65:LYS:HE2	27:BF:225:TRP:CE3	2.34	0.63
30:BI:177:ARG:HD3	30:BI:180:GLU:OE2	1.99	0.63
38:BQ:120:GLN:HB3	38:BQ:149:GLU:CG	2.27	0.63
24:CC:227:LEU:O	24:CC:233:VAL:HG21	1.98	0.63
24:CC:382:LYS:HG3	24:CC:383:ALA:N	2.12	0.63
26:CE:132:ILE:HG12	26:CE:144:LEU:HD22	1.80	0.63
27:CF:176:LYS:HE3	1:D1:6:C:O2'	1.98	0.63
28:CG:23:UNK:O	28:CG:86:UNK:HA	1.99	0.63
30:CI:80:TRP:CH2	30:CI:84:ARG:NH1	2.67	0.63
35:CN:19:GLN:OE1	35:CN:19:GLN:HA	1.97	0.63
35:CN:92:ARG:CZ	1:D1:810:G:N7	2.62	0.63
45:CX:87:LEU:O	45:CX:91:ASN:N	2.31	0.63
1:D1:1599:G:O2'	1:D1:1600:U:H5'	1.99	0.63
1:D1:1776:G:O2'	1:D1:1777:A:H5'	1.98	0.63
1:D1:2275:A:HO2'	1:D1:2276:A:P	2.22	0.63
1:D1:2899:C:C5'	1:D1:2900:G:OP1	2.45	0.63
1:D1:3044:A:H4'	1:D1:3045:A:OP2	1.98	0.63
1:D1:558:U:H2'	1:D1:559:G:H8	1.63	0.63
1:D1:615:G:H21	8:DH:79:LYS:HE2	1.64	0.63
1:D1:842:A:H8	2:DA:15:THR:CG2	2.09	0.63
13:DN:24:VAL:HG23	13:DN:138:PHE:HE1	1.60	0.63
14:DO:24:PHE:HA	14:DO:34:ARG:HA	1.81	0.63
5:DE:18:TRP:HB2	14:DO:95:ARG:HH21	1.64	0.63
30:EI:57:LEU:HA	30:EI:71:HIS:ND1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:119:TYR:CD1	34:EM:132:VAL:CG1	2.79	0.63
21:E3:26:C:P	34:EM:56:THR:HG21	2.39	0.63
35:EN:63:LEU:HD21	35:EN:140:LEU:HD23	1.81	0.63
36:EO:114:LYS:O	36:EO:146:LYS:HE2	1.99	0.63
37:EP:8:ARG:O	37:EP:11:THR:OG1	2.16	0.63
34:EM:5:LYS:CD	1:F1:1064:C:H5'	2.24	0.63
32:EK:9:ARG:NH2	1:F1:1457:G:OP2	2.27	0.63
1:F1:213:A:N6	1:F1:227:G:O2'	2.26	0.63
1:F1:3044:A:H4'	1:F1:3045:A:OP2	1.98	0.63
1:F1:563:G:C5'	1:F1:564:A:OP1	2.46	0.63
24:EC:107:PHE:CE2	1:F1:686:U:H1'	2.28	0.63
24:EC:126:ARG:HH21	1:F1:720:C:H5''	1.63	0.63
1:F1:751:C:H5'	1:F1:751:C:H6	1.63	0.63
11:FL:5:ILE:CG2	11:FL:6:THR:H	2.12	0.63
1:D1:1047:G:P	13:FN:3:LYS:HZ1	2.13	0.63
21:G3:83:G:P	50:G3:303:HOH:O	2.56	0.63
26:GE:144:LEU:HD13	26:GE:155:THR:HG22	1.81	0.63
29:GH:140:VAL:HG12	29:GH:141:LYS:N	2.14	0.63
33:GL:47:LYS:NZ	1:H1:267:A:H5''	2.14	0.63
35:GN:92:ARG:CZ	1:H1:810:G:C8	2.82	0.63
39:GR:81:MET:O	39:GR:85:GLU:HG3	1.98	0.63
45:GX:98:ILE:H	45:GX:123:ASN:ND2	1.96	0.63
43:GV:98:ARG:HD3	1:H1:1010:G:H2'	1.80	0.63
1:H1:1016:U:C3'	1:H1:1017:U:H5''	2.29	0.63
1:H1:2412:U:H2'	1:H1:2413:G:H5''	1.81	0.63
1:H1:513:G:O2'	1:H1:514:U:H5'	1.99	0.63
1:H1:516:C:H3'	1:H1:517:A:C8	2.34	0.63
35:GN:173:LYS:NZ	1:H1:87:A:OP2	2.32	0.63
1:H1:3226:A:C2	5:HE:83:ASN:O	2.52	0.63
1:A1:124:U:O2'	1:A1:125:G:H5'	1.98	0.63
1:A1:126:A:C2	1:A1:141:C:N4	2.66	0.63
1:A1:1578:U:H5''	1:A1:1579:U:OP2	1.99	0.63
1:A1:2651:A:C5	50:A1:4832:HOH:O	2.46	0.63
1:A1:2865:G:H2'	1:A1:2866:G:C8	2.34	0.63
1:A1:3175:A:H62	6:AF:16:ASN:HD21	1.44	0.63
7:AG:13:LYS:HG2	7:AG:14:LEU:N	2.14	0.63
11:AL:5:ILE:CG2	11:AL:6:THR:H	2.10	0.63
13:AN:11:VAL:HB	13:AN:80:ILE:HG23	1.81	0.63
20:B2:114:G:H3'	20:B2:114:G:C8	2.34	0.63
1:A1:3162:A:N6	30:BI:113:ARG:NH1	2.47	0.63
35:BN:73:ASN:H	35:BN:76:ASN:CB	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:25:VAL:O	37:BP:26:ARG:HB2	1.99	0.63
20:C2:88:G:O2'	20:C2:89:A:O5'	2.17	0.63
23:CB:55:HIS:HD2	23:CB:55:HIS:H	1.46	0.63
32:CK:75:VAL:HG23	32:CK:109:PHE:HB3	1.79	0.63
45:CX:99:ALA:HB1	45:CX:101:ASN:OD1	1.99	0.63
1:D1:1050:C:C4	1:D1:1051:C:N3	2.66	0.63
1:D1:132:U:O2'	1:D1:133:C:P	2.57	0.63
1:D1:198:A:N3	1:D1:218:G:O2'	2.31	0.63
1:D1:3179:U:H2'	1:D1:3180:C:C6	2.33	0.63
23:CB:97:ARG:HH21	1:D1:3206:A:H5'	1.63	0.63
1:D1:567:C:N4	1:D1:603:A:N1	2.46	0.63
1:D1:784:G:H1'	1:D1:796:A:N6	2.13	0.63
32:CK:27:LYS:HB2	1:D1:961:A:H5''	1.80	0.63
6:DF:3:PHE:HD1	19:DX:164:PRO:HB3	1.61	0.63
6:DF:34:ASN:O	6:DF:49:PRO:HA	1.99	0.63
7:DG:8:ASP:OD1	7:DG:9:ASN:N	2.32	0.63
1:D1:1615:G:OP1	11:DL:15:THR:HG21	1.98	0.63
35:CN:25:VAL:HG13	14:DO:7:GLU:HB3	1.81	0.63
33:CL:6:TYR:CD1	16:DQ:41:VAL:HG13	2.34	0.63
19:DX:16:MET:HE3	19:DX:18:VAL:HG22	1.80	0.63
20:E2:33:C:H2'	20:E2:34:G:H5'	1.79	0.63
24:EC:213:LEU:O	24:EC:256:ILE:HA	1.98	0.63
24:EC:380:PHE:CE1	19:FX:78:ILE:HD11	2.33	0.63
33:EL:38:LYS:HB2	33:EL:62:TRP:CE2	2.34	0.63
24:EC:287:ARG:HD2	35:EN:111:ARG:NH1	2.14	0.63
35:EN:85:SER:OG	35:EN:86:THR:N	2.32	0.63
1:F1:1179:G:O2'	1:F1:1180:A:OP1	2.13	0.63
1:F1:1470:G:O6	50:F1:3838:HOH:O	2.14	0.63
1:F1:1506:G:O2'	1:F1:1895:U:O4	2.15	0.63
1:F1:2540:G:C4'	1:F1:2541:U:OP2	2.47	0.63
23:EB:123:ALA:HB1	1:F1:3276:C:OP1	1.99	0.63
3:FB:4:ASN:ND2	3:FB:4:ASN:H	1.97	0.63
22:GA:105:ILE:HG21	22:GA:147:THR:HG21	1.80	0.63
22:GA:254:LYS:O	22:GA:258:LYS:HG3	1.99	0.63
24:GC:405:ILE:HD11	29:GH:183:ARG:HE	1.62	0.63
27:GF:169:PRO:HB2	27:GF:211:PHE:HB2	1.81	0.63
27:GF:176:LYS:HD2	27:GF:187:THR:HG21	1.81	0.63
32:GK:46:LEU:HD12	18:HU:1:MET:HG2	1.81	0.63
1:H1:1049:U:C5	1:H1:1050:C:C4	2.87	0.63
1:H1:1856:C:O2'	1:H1:1857:G:H5'	1.99	0.63
6:HF:2:VAL:HG12	6:HF:3:PHE:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HH:64:LYS:CG	8:HH:69:ASN:HD21	2.01	0.63
16:HQ:77:ALA:HB1	16:HQ:87:ALA:HA	1.80	0.63
18:HU:133:LYS:C	18:HU:135:LEU:N	2.53	0.63
19:HX:42:ARG:HE	19:HX:44:PHE:HE1	1.45	0.63
1:A1:1195:U:O4'	43:BV:206:THR:HG21	1.99	0.62
1:A1:1409:C:P	24:BC:195:ARG:HH22	2.22	0.62
1:A1:1599:G:H2'	1:A1:1600:U:H5'	1.81	0.62
1:A1:288:A:C2	33:BL:93:LYS:HG3	2.34	0.62
1:A1:3175:A:H2'	1:A1:3177:G:C8	2.34	0.62
1:A1:582:A:H2'	1:A1:583:G:H5'	1.81	0.62
26:BE:12:ILE:HD11	26:BE:53:VAL:HG23	1.79	0.62
26:BE:141:THR:HG22	26:BE:142:LEU:N	2.13	0.62
43:BV:178:VAL:O	43:BV:182:ILE:HG13	1.97	0.62
23:CB:311:HIS:CD2	1:D1:3334:C:H4'	2.33	0.62
23:CB:330:LYS:O	23:CB:331:LYS:HB2	1.99	0.62
23:CB:378:PHE:HA	1:D1:3325:G:N2	2.14	0.62
26:CE:131:LYS:HE2	26:CE:145:GLN:HG2	1.80	0.62
34:CM:250:VAL:HG12	34:CM:254:ILE:HD11	1.80	0.62
35:CN:63:LEU:HD21	35:CN:140:LEU:HD23	1.80	0.62
47:CO:114:LYS:HB3	47:CO:146:LYS:NZ	2.14	0.62
33:CL:5:LYS:HB2	1:D1:114:A:OP2	1.99	0.62
1:D1:1435:C:H6	1:D1:1435:C:H5'	1.64	0.62
1:D1:155:A:O2'	16:DQ:28:VAL:HG22	1.98	0.62
1:D1:2997:A:O2'	1:D1:2998:G:H5'	1.99	0.62
1:D1:3177:G:H8	1:D1:3177:G:H5''	1.65	0.62
1:D1:3332:A:H3'	1:D1:3333:G:C5'	2.29	0.62
1:D1:384:A:H2'	1:D1:385:A:C8	2.34	0.62
24:CC:126:ARG:HH21	1:D1:720:C:H5''	1.64	0.62
5:DE:55:ALA:HB2	8:DH:109:TYR:CE1	2.26	0.62
6:DF:2:VAL:HG12	6:DF:3:PHE:N	2.14	0.62
1:D1:3157:C:H1'	8:DH:9:VAL:HG13	1.81	0.62
21:E3:33:U:C5	34:EM:212:TYR:HE1	2.17	0.62
21:E3:39:U:C2	25:ED:46:VAL:HG21	2.34	0.62
21:E3:81:A:H2'	21:E3:82:G:H5''	1.81	0.62
23:EB:377:PHE:HD2	23:EB:378:PHE:CE1	2.17	0.62
23:EB:49:PHE:CE2	23:EB:333:VAL:HG12	2.34	0.62
27:EF:95:GLU:OE1	27:EF:100:LYS:HG2	1.99	0.62
27:EF:96:LYS:HB3	27:EF:97:PRO:HD2	1.81	0.62
29:EH:119:PHE:CE2	1:F1:2635:C:H4'	2.33	0.62
33:EL:13:LYS:HD3	16:FQ:49:THR:HG21	1.80	0.62
35:EN:28:LYS:HE3	35:EN:32:LYS:HE2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:EQ:10:PRO:CB	38:EQ:153:GLN:HE22	2.12	0.62
40:ES:51:LYS:O	40:ES:69:VAL:O	2.16	0.62
39:ER:73:THR:HG23	42:EU:37:ILE:HD13	1.79	0.62
46:EY:57:CYS:SG	46:EY:59:PRO:HG2	2.39	0.62
1:F1:1104:C:C2	17:FT:42:ASN:ND2	2.67	0.62
1:F1:1533:G:H4'	1:F1:1534:C:OP2	1.99	0.62
1:F1:1567:A:H61	1:F1:1578:U:H3	1.45	0.62
5:FE:173:TYR:CG	6:FF:106:PHE:CD1	2.87	0.62
10:FK:103:LEU:HD13	10:FK:110:CYS:HA	1.81	0.62
1:F1:528:C:O2'	14:FO:115:HIS:HE1	1.82	0.62
23:GB:157:ARG:HD2	23:GB:178:GLU:OE1	1.98	0.62
23:GB:55:HIS:H	23:GB:55:HIS:CD2	2.17	0.62
24:GC:276:THR:CG2	24:GC:277:GLY:N	2.62	0.62
24:GC:283:TYR:CE1	24:GC:285:LEU:HA	2.33	0.62
25:GD:133:ARG:CB	25:GD:134:PRO:HD2	2.21	0.62
27:GF:131:HIS:CE1	1:H1:117:G:H2'	2.34	0.62
28:GG:23:UNK:O	28:GG:86:UNK:HA	1.98	0.62
29:GH:77:ILE:HG13	29:GH:78:LYS:N	2.13	0.62
30:GI:129:ARG:NH2	1:H1:1343:G:N2	2.47	0.62
34:GM:68:THR:HB	34:GM:71:CYS:O	1.98	0.62
34:GM:3:PHE:CZ	1:H1:1041:C:N3	2.67	0.62
37:GP:61:THR:HB	1:H1:1086:U:O4'	1.99	0.62
1:H1:1095:C:H4'	1:H1:1096:G:OP2	1.98	0.62
1:H1:1684:C:O2'	1:H1:1685:A:H5'	1.98	0.62
46:GY:8:VAL:HG23	1:H1:1951:G:OP1	1.99	0.62
1:H1:2540:G:C4'	1:H1:2541:U:OP2	2.47	0.62
1:H1:2966:U:O2'	1:H1:2967:U:H5'	1.98	0.62
7:HG:57:GLU:HA	7:HG:67:ILE:HD11	1.80	0.62
9:HJ:113:TYR:O	9:HJ:135:VAL:HG13	1.98	0.62
1:H1:1663:C:N4	11:HL:75:SER:OG	2.30	0.62
12:HM:66:ASN:HD21	12:HM:68:GLN:HE21	1.46	0.62
1:H1:1701:A:H5''	12:HM:99:SER:CB	2.29	0.62
18:HU:52:LEU:O	18:HU:94:LYS:HB2	1.98	0.62
18:HU:76:GLN:OE1	18:HU:101:ASN:HB2	1.99	0.62
19:HX:148:ILE:O	19:HX:154:LEU:HD21	1.99	0.62
1:A1:1025:G:C6	1:A1:1026:C:N4	2.67	0.62
1:A1:1112:A:H4'	34:BM:44:TYR:CE1	2.34	0.62
1:A1:2181:U:H2'	1:A1:2182:G:O4'	1.99	0.62
1:A1:2309:U:H4'	1:A1:2310:G:OP2	1.98	0.62
1:A1:2593:G:N1	50:A1:3708:HOH:O	2.32	0.62
1:A1:296:G:H5''	1:A1:297:U:OP1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:91:CYS:SG	26:BE:171:ARG:HB3	2.39	0.62
13:AN:114:LEU:HD22	13:AN:118:PHE:HE1	1.62	0.62
21:B3:2:U:H3	21:B3:117:G:H1	1.47	0.62
33:BL:182:LYS:HG2	33:BL:183:SER:H	1.63	0.62
27:BF:154:GLU:OE2	33:BL:26:ARG:NH2	2.33	0.62
24:CC:215:VAL:CG1	24:CC:238:VAL:HG22	2.21	0.62
27:CF:124:VAL:HG12	27:CF:125:LEU:O	1.99	0.62
38:CQ:10:PRO:CB	38:CQ:153:GLN:HE22	2.12	0.62
41:CT:46:VAL:HG11	41:CT:51:ILE:HD11	1.81	0.62
1:D1:1074:A:OP1	1:D1:1075:C:H5'	1.99	0.62
1:D1:1652:U:H4'	1:D1:1655:A:C5'	2.29	0.62
1:D1:169:A:N7	1:D1:250:U:O4	2.32	0.62
1:D1:2738:G:O2'	1:D1:2739:C:H5'	1.99	0.62
1:D1:2855:C:O2'	1:D1:2856:U:H5'	1.99	0.62
1:D1:911:C:O2'	1:D1:912:G:H5'	1.98	0.62
1:D1:970:C:H2'	1:D1:971:C:H6	1.63	0.62
4:DC:26:TYR:HB3	4:DC:67:ALA:HB3	1.80	0.62
1:D1:3237:C:H41	8:DH:10:ALA:CA	2.12	0.62
12:DM:35:PHE:HE1	12:DM:39:LEU:HD11	1.64	0.62
13:DN:114:LEU:O	13:DN:118:PHE:HD1	1.82	0.62
13:DN:96:LEU:HD22	13:DN:113:THR:HG21	1.79	0.62
19:DX:89:TYR:CD2	19:DX:113:LEU:HD13	2.34	0.62
23:EB:211:GLU:O	23:EB:280:VAL:HG23	1.99	0.62
45:EX:80:ASN:HB3	1:F1:1413:G:O2'	1.99	0.62
1:F1:1956:A:H2'	1:F1:1957:A:H5'	1.80	0.62
1:F1:2252:C:C5	1:F1:2253:U:H5	2.05	0.62
27:EF:46:ARG:HG3	1:F1:2518:A:H2'	1.81	0.62
1:F1:3214:A:H5''	1:F1:3215:C:C6	2.33	0.62
1:F1:711:U:H3	1:F1:718:A:N6	1.95	0.62
20:G2:26:A:H3'	20:G2:27:G:C5'	2.29	0.62
26:GE:135:LYS:H	26:GE:138:GLU:CG	2.12	0.62
32:GK:136:ARG:NH1	1:H1:741:G:N3	2.44	0.62
37:GP:6:GLY:H	37:GP:9:ARG:HD2	1.64	0.62
41:GT:11:CYS:HG	41:GT:13:TYR:HD2	1.47	0.62
1:H1:1227:A:H2'	1:H1:1227:A:N3	2.12	0.62
1:H1:1714:C:C2'	1:H1:1715:U:H5'	2.29	0.62
1:H1:2659:G:H2'	1:H1:2660:A:C8	2.35	0.62
1:H1:312:U:H2'	1:H1:313:U:C6	2.34	0.62
1:H1:25:C:O2'	1:H1:326:A:N3	2.30	0.62
7:HG:17:VAL:HG13	7:HG:95:ALA:HB2	1.81	0.62
9:HJ:43:VAL:HG12	9:HJ:44:PRO:CD	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:HN:114:LEU:O	13:HN:118:PHE:HD1	1.82	0.62
1:A1:1034:U:C3'	1:A1:1035:A:H5''	2.29	0.62
1:A1:1059:U:C2'	1:A1:1060:C:H5''	2.29	0.62
1:A1:1919:A:H8	1:A1:1919:A:H5'	1.64	0.62
1:A1:604:A:H8	1:A1:604:A:O5'	1.81	0.62
1:A1:718:A:O2'	1:A1:719:C:H5'	1.99	0.62
1:A1:1662:A:C5'	11:AL:76:ARG:NH2	2.53	0.62
17:AT:35:VAL:HA	37:BP:66:ASN:ND2	2.14	0.62
18:AU:54:PRO:HD3	18:AU:73:PHE:CD2	2.34	0.62
27:BF:95:GLU:OE1	27:BF:100:LYS:HG2	1.99	0.62
21:B3:26:C:P	34:BM:56:THR:HG21	2.39	0.62
46:BY:26:VAL:HG12	46:BY:30:GLU:HG3	1.81	0.62
30:CI:86:MET:HE2	1:D1:1202:C:H1'	1.81	0.62
33:CL:120:TRP:CE2	33:CL:122:GLY:HA2	2.34	0.62
21:C3:33:U:C6	34:CM:212:TYR:HE1	2.17	0.62
34:CM:39:GLN:HG2	34:CM:40:ASP:H	1.64	0.62
35:CN:82:VAL:HG21	35:CN:127:LEU:HD11	1.82	0.62
47:CO:106:LEU:CD2	47:CO:138:LEU:HD21	2.28	0.62
37:CP:40:VAL:HG11	37:CP:96:VAL:HG13	1.80	0.62
37:CP:63:LYS:HD2	37:CP:63:LYS:H	1.64	0.62
20:C2:27:G:OP2	40:CS:12:ARG:HD3	1.98	0.62
45:CX:34:TRP:CZ2	45:CX:54:MET:HB2	2.33	0.62
1:D1:1049:U:H2'	1:D1:1050:C:O4'	1.99	0.62
32:CK:9:ARG:NH2	1:D1:1457:G:OP2	2.27	0.62
1:D1:2343:A:H3'	1:D1:2344:U:C5'	2.28	0.62
1:D1:563:G:C5'	1:D1:564:A:OP1	2.47	0.62
1:D1:697:A:H8	1:D1:697:A:H5'	1.65	0.62
4:DC:66:VAL:CG2	4:DC:83:ILE:HB	2.30	0.62
12:DM:45:VAL:CB	12:DM:51:ASN:HD21	2.11	0.62
23:EB:281:TYR:CE2	23:EB:323:LYS:HB2	2.34	0.62
21:E3:54:A:O2'	25:ED:152:GLN:NE2	2.32	0.62
29:EH:34:TYR:CZ	29:EH:92:HIS:ND1	2.66	0.62
30:EI:177:ARG:HD3	30:EI:180:GLU:OE2	1.99	0.62
34:EM:140:LYS:O	1:F1:1107:A:H4'	1.98	0.62
35:EN:82:VAL:HG21	35:EN:127:LEU:HD11	1.81	0.62
42:EU:32:LEU:HD21	42:EU:47:ARG:HD3	1.81	0.62
46:EY:12:ARG:HG2	1:F1:861:A:C4'	2.29	0.62
1:F1:1146:C:H42	17:FT:10:LYS:HZ1	1.46	0.62
1:F1:114:A:H2'	1:F1:115:G:C8	2.35	0.62
1:F1:1599:G:H2'	1:F1:1600:U:H5'	1.81	0.62
1:F1:1770:A:H2'	1:F1:1771:U:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2344:U:C5'	1:F1:2344:U:H6	2.12	0.62
23:EB:2:SER:HB2	1:F1:2931:G:OP2	1.98	0.62
1:F1:3100:U:C2'	1:F1:3101:G:H5'	2.30	0.62
1:F1:3108:U:H2'	1:F1:3109:C:H5'	1.82	0.62
23:EB:30:ARG:NH2	1:F1:3127:U:C5	2.66	0.62
1:F1:47:G:O6	50:F1:3630:HOH:O	2.13	0.62
1:F1:534:U:H2'	1:F1:535:C:C6	2.34	0.62
1:F1:70:C:C2'	1:F1:70:C:O2	2.46	0.62
1:F1:766:G:O6	50:F1:3862:HOH:O	2.16	0.62
9:FJ:22:ALA:HB2	9:FJ:67:LYS:HB2	1.79	0.62
21:G3:2:U:H3	21:G3:117:G:H1	1.46	0.62
23:GB:117:ARG:NH1	23:GB:174:ASN:O	2.30	0.62
24:GC:105:ARG:NH1	24:GC:105:ARG:HG2	2.13	0.62
24:GC:33:ILE:HG22	24:GC:33:ILE:O	1.98	0.62
27:GF:69:GLN:O	27:GF:72:GLN:HG2	1.99	0.62
37:GP:40:VAL:HG11	37:GP:96:VAL:HG13	1.82	0.62
1:H1:1184:U:C5'	1:H1:1184:U:H6	2.12	0.62
1:H1:1205:A:H8	1:H1:1205:A:H5'	1.64	0.62
1:H1:1328:A:H4'	1:H1:1329:A:O5'	1.99	0.62
1:H1:133:C:H2'	1:H1:133:C:O2	1.99	0.62
38:GQ:131:THR:OG1	1:H1:1533:G:N2	2.32	0.62
1:H1:1599:G:C5	1:H1:1600:U:C5	2.87	0.62
22:GA:157:LYS:NZ	1:H1:2154:A:OP2	2.29	0.62
1:H1:2414:A:H2'	1:H1:2415:C:C6	2.34	0.62
22:GA:231:SER:OG	1:H1:2419:A:N1	2.31	0.62
1:H1:718:A:O2'	1:H1:719:C:H5'	1.98	0.62
5:HE:54:LEU:HB2	5:HE:94:TYR:O	1.98	0.62
1:A1:1112:A:OP1	37:BP:35:LYS:NZ	2.31	0.62
1:A1:1395:U:O2'	1:A1:1396:A:H5'	1.99	0.62
1:A1:121:A:N6	1:A1:150:A:N6	2.47	0.62
1:A1:1772:G:H2'	1:A1:1773:G:H5'	1.80	0.62
1:A1:2109:G:C2'	1:A1:2110:C:H5'	2.30	0.62
1:A1:2277:U:O2'	1:A1:2278:G:P	2.58	0.62
1:A1:2411:U:H2'	1:A1:2412:U:C6	2.34	0.62
1:A1:2550:U:H4'	1:A1:2551:A:OP2	1.99	0.62
1:A1:2576:C:H2'	1:A1:2577:G:C5'	2.26	0.62
1:A1:3106:C:C2'	1:A1:3107:C:H5'	2.28	0.62
1:A1:362:G:H2'	1:A1:363:G:H5''	1.81	0.62
1:A1:558:U:H2'	1:A1:559:G:H8	1.64	0.62
1:A1:88:U:C2'	1:A1:89:G:H5'	2.29	0.62
9:AJ:192:VAL:O	9:AJ:192:VAL:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BA:33:TYR:HA	22:BA:164:ARG:NH2	2.14	0.62
29:BH:33:ILE:HB	29:BH:69:ARG:HH22	1.64	0.62
18:AU:9:VAL:CG2	35:BN:168:ARG:HH11	2.12	0.62
1:A1:880:U:H4'	36:BO:95:TRP:CZ3	2.34	0.62
32:CK:106:LYS:HD3	18:DU:160:SER:CB	2.28	0.62
34:CM:142:PHE:HE1	1:D1:1107:A:N7	1.96	0.62
47:CO:174:UNK:HG2	47:CO:174:UNK:O	1.97	0.62
43:CV:129:PRO:HG2	43:CV:130:PHE:CE2	2.33	0.62
43:CV:63:LYS:HG2	43:CV:64:ARG:N	2.13	0.62
43:CV:80:VAL:HG22	43:CV:188:VAL:HG23	1.81	0.62
45:CX:112:LYS:NZ	14:DO:128:GLU:OE2	2.32	0.62
46:CY:10:ILE:HD11	46:CY:30:GLU:CB	2.28	0.62
1:D1:1481:U:O2	1:D1:1481:U:H2'	1.99	0.62
1:D1:1594:C:C5	1:D1:1595:A:N7	2.67	0.62
1:D1:1594:C:C4	1:D1:1595:A:C8	2.87	0.62
1:D1:1662:A:H4'	11:DL:76:ARG:HH22	1.63	0.62
1:D1:2344:U:H5'	1:D1:2344:U:C6	2.32	0.62
1:D1:2613:G:H21	1:D1:2615:A:H2	1.46	0.62
1:D1:269:U:H2'	1:D1:270:C:H6	1.64	0.62
1:D1:2859:G:O6	50:D1:4451:HOH:O	2.11	0.62
1:D1:564:A:H5'	1:D1:565:G:OP2	1.99	0.62
1:D1:810:G:H3'	1:D1:811:A:C8	2.33	0.62
7:DG:60:ALA:HB3	7:DG:67:ILE:HD11	1.80	0.62
9:DJ:142:ILE:CD1	9:DJ:152:CYS:HB3	2.29	0.62
9:DJ:32:GLU:OE1	9:DJ:32:GLU:HA	1.99	0.62
15:DP:8:ILE:O	15:DP:12:MET:HG3	1.99	0.62
18:DU:52:LEU:O	18:DU:94:LYS:HB2	1.98	0.62
20:E2:1:A:H4'	20:E2:2:G:OP1	1.99	0.62
21:E3:2:U:H3	21:E3:117:G:H1	1.47	0.62
27:EF:176:LYS:HB2	27:EF:187:THR:CG2	2.17	0.62
34:EM:240:VAL:HG11	34:EM:245:LYS:HB2	1.81	0.62
34:EM:68:THR:HB	34:EM:71:CYS:O	1.98	0.62
37:EP:25:VAL:O	37:EP:26:ARG:HB2	1.98	0.62
1:F1:1606:U:O2'	1:F1:1607:U:H5'	1.99	0.62
1:F1:1839:A:H4'	1:F1:1840:U:O5'	2.00	0.62
1:F1:2388:G:O2'	1:F1:2389:G:OP2	2.17	0.62
1:F1:284:U:C5	1:F1:305:A:C5'	2.79	0.62
1:F1:3117:G:O6	50:F1:4457:HOH:O	2.13	0.62
1:F1:622:G:C4'	1:F1:623:G:OP2	2.45	0.62
46:EY:12:ARG:HG2	1:F1:861:A:H4'	1.81	0.62
1:F1:3230:G:C6	5:FE:119:ARG:HD2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1657:C:C5	13:FN:17:ARG:NH2	2.68	0.62
23:GB:183:GLY:O	23:GB:189:LYS:HE2	1.98	0.62
23:GB:27:GLY:HA2	23:GB:272:HIS:HE1	1.63	0.62
27:GF:96:LYS:HB3	27:GF:97:PRO:HD2	1.81	0.62
30:GI:86:MET:HE1	1:H1:1201:G:N2	2.00	0.62
35:GN:92:ARG:HH21	1:H1:809:A:H4'	1.65	0.62
34:GM:17:GLN:OE1	37:GP:20:LYS:HA	2.00	0.62
38:GQ:73:ALA:O	38:GQ:76:HIS:CD2	2.53	0.62
41:GT:22:ARG:NE	41:GT:32:PHE:HD2	1.97	0.62
45:GX:25:GLU:OE2	45:GX:52:ARG:NH2	2.21	0.62
45:GX:79:ARG:NH1	1:H1:1448:G:O4'	2.32	0.62
1:H1:1051:C:O5'	1:H1:1051:C:H6	1.81	0.62
1:H1:53:G:H5'	1:H1:1573:A:HO2'	1.64	0.62
1:H1:1580:G:O5'	1:H1:1580:G:H8	1.81	0.62
1:H1:376:A:H62	1:H1:398:G:H2'	1.64	0.62
24:GC:319:ARG:HH22	1:H1:620:A:H8	1.44	0.62
12:HM:45:VAL:CB	12:HM:51:ASN:HD21	2.09	0.62
1:H1:1146:C:H42	17:HT:10:LYS:HZ1	1.47	0.62
19:HX:18:VAL:HG11	19:HX:117:VAL:HG11	1.82	0.62
1:A1:232:C:O2'	1:A1:233:G:OP1	2.17	0.62
1:A1:3071:C:O2'	1:A1:3072:G:H5'	1.99	0.62
1:A1:795:G:O2'	1:A1:796:A:H8	1.75	0.62
6:AF:62:ASN:O	6:AF:75:LYS:NZ	2.27	0.62
14:AO:50:LEU:HD13	14:AO:111:LEU:HD21	1.80	0.62
1:A1:2727:A:C4'	17:AT:37:PRO:HD2	2.29	0.62
18:AU:72:GLY:HA3	18:AU:96:ASP:HB2	1.81	0.62
19:AX:16:MET:HE2	19:AX:18:VAL:CG2	2.29	0.62
23:BB:183:GLY:O	23:BB:189:LYS:HE2	1.99	0.62
24:BC:159:PHE:HZ	24:BC:179:VAL:HG13	1.65	0.62
24:BC:335:PRO:HB2	43:BV:42:ILE:HG12	1.79	0.62
25:BD:162:TRP:CZ3	25:BD:167:PHE:HE2	2.17	0.62
29:BH:75:ASN:HD22	29:BH:151:ALA:HA	1.65	0.62
33:BL:183:SER:C	33:BL:191:ASN:HD22	2.02	0.62
34:BM:240:VAL:HG11	34:BM:245:LYS:HB2	1.81	0.62
42:BU:74:PHE:HB3	42:BU:80:LYS:HE3	1.82	0.62
23:CB:26:ARG:HH12	23:CB:176:ILE:C	2.02	0.62
32:CK:117:ARG:HD3	32:CK:137:ARG:HH11	1.63	0.62
39:CR:43:LEU:CD1	1:D1:1599:G:H5''	2.29	0.62
43:CV:137:THR:O	43:CV:141:ILE:HG13	2.00	0.62
43:CV:144:LEU:HD23	43:CV:239:LEU:HD21	1.79	0.62
1:D1:117:G:H4'	1:D1:118:A:O5'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1248:G:H4'	1:D1:1249:G:OP2	2.00	0.62
1:D1:1839:A:H4'	1:D1:1840:U:O5'	2.00	0.62
1:D1:2132:U:H2'	1:D1:2138:A:H62	1.65	0.62
1:D1:2425:A:H2'	1:D1:2426:C:C6	2.34	0.62
1:D1:282:G:N3	1:D1:282:G:H2'	2.13	0.62
1:D1:2952:G:N2	1:D1:2955:A:OP2	2.33	0.62
1:D1:3023:C:H2'	1:D1:3024:A:H8	1.64	0.62
1:D1:348:A:H4'	1:D1:349:C:OP2	1.98	0.62
1:D1:801:U:O2	1:D1:2708:U:O2	2.17	0.62
5:DE:63:VAL:HG11	5:DE:76:VAL:HG13	1.75	0.62
12:DM:71:ILE:HG23	12:DM:72:PRO:HD2	1.80	0.62
13:DN:23:ALA:HB2	13:DN:45:GLY:HA3	1.81	0.62
20:E2:12:A:H2'	20:E2:13:A:H8	1.63	0.62
21:E3:8:G:OP1	37:EP:27:ILE:HD12	2.00	0.62
23:EB:103:THR:CG2	23:EB:104:THR:N	2.63	0.62
26:EE:7:GLU:CD	26:EE:54:LYS:HE2	2.20	0.62
30:EI:16:GLY:O	30:EI:19:ALA:HB3	1.98	0.62
30:EI:11:LYS:HD3	30:EI:36:ARG:HH12	1.64	0.62
30:EI:81:ARG:HH22	1:F1:2378:A:P	2.23	0.62
33:EL:183:SER:C	33:EL:191:ASN:HD22	2.03	0.62
34:EM:206:GLY:HA2	34:EM:208:HIS:CE1	2.34	0.62
35:EN:37:LEU:O	35:EN:41:THR:HB	1.99	0.62
35:EN:52:ARG:NH1	35:EN:141:ARG:NE	2.44	0.62
36:EO:42:ARG:NH2	1:F1:1626:U:P	2.72	0.62
46:EY:10:ILE:HG22	1:F1:862:A:C4'	2.29	0.62
1:F1:2127:A:N7	1:F1:2145:A:H2	1.98	0.62
1:F1:2217:C:C4'	1:F1:2218:A:OP2	2.46	0.62
1:F1:376:A:H62	1:F1:398:G:H2'	1.63	0.62
1:F1:397:A:HO2'	1:F1:400:C:HO2'	1.48	0.62
1:F1:564:A:H5'	1:F1:565:G:OP2	1.98	0.62
5:FE:124:LYS:HE2	5:FE:132:ALA:HB3	1.81	0.62
23:GB:303:ILE:HD11	23:GB:319:PHE:CE1	2.35	0.62
24:GC:157:TYR:HD1	24:GC:159:PHE:CE1	2.17	0.62
28:GG:85:UNK:O	28:GG:85:UNK:HG3	1.98	0.62
31:GJ:86:ARG:H	31:GJ:102:ASN:HD21	1.47	0.62
31:GJ:27:MET:HB2	31:GJ:102:ASN:O	1.99	0.62
34:GM:125:VAL:O	34:GM:201:LYS:HD2	2.00	0.62
20:G2:98:A:OP1	42:GU:67:ARG:NH1	2.31	0.62
1:H1:1656:G:C5	1:H1:1657:C:C5	2.88	0.62
1:H1:3175:A:H2'	1:H1:3177:G:C8	2.34	0.62
1:H1:563:G:H5'	1:H1:564:A:OP1	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:604:A:H8	1:H1:604:A:O5'	1.81	0.62
1:H1:925:G:H1'	1:H1:1614:A:H61	1.64	0.62
1:H1:978:G:H1'	1:H1:1142:G:H5''	1.80	0.62
5:HE:57:ARG:HG2	5:HE:57:ARG:O	1.98	0.62
19:HX:175:LYS:HZ2	19:HX:178:ARG:NH1	1.91	0.62
21:G3:76:U:OP1	19:HX:61:LYS:NZ	2.32	0.62
1:A1:1159:C:O2'	1:A1:1160:A:H5'	1.98	0.62
1:A1:1220:A:OP2	30:BI:48:ARG:NH2	2.33	0.62
1:A1:1306:C:H2'	1:A1:1307:C:C6	2.35	0.62
1:A1:1598:C:H3'	1:A1:1599:G:C8	2.31	0.62
1:A1:2150:U:H6	1:A1:2150:U:H5'	1.65	0.62
1:A1:2202:A:H2'	1:A1:2203:A:O4'	2.00	0.62
1:A1:2727:A:O4'	17:AT:37:PRO:HD2	2.00	0.62
1:A1:2882:U:OP1	26:BE:166:LYS:NZ	2.18	0.62
1:A1:449:G:H2'	1:A1:450:C:C6	2.34	0.62
1:A1:620:A:C8	1:A1:634:G:C6	2.88	0.62
3:AB:9:MET:HB3	3:AB:13:PHE:HE2	1.63	0.62
8:AH:48:VAL:CG2	8:AH:85:GLY:HA2	2.29	0.62
9:AJ:162:HIS:HD2	9:AJ:164:LEU:H	1.47	0.62
24:BC:259:THR:CG2	24:BC:260:GLU:N	2.62	0.62
26:BE:38:PHE:CD2	26:BE:71:ILE:HG23	2.34	0.62
1:A1:968:U:O5'	32:BK:13:GLY:HA2	2.00	0.62
33:BL:148:ILE:O	33:BL:151:ILE:HG22	1.99	0.62
38:BQ:66:THR:CG2	38:BQ:82:GLN:HE22	2.11	0.62
43:BV:137:THR:O	43:BV:141:ILE:HG13	1.99	0.62
20:C2:110:A:H2'	20:C2:111:A:C8	2.34	0.62
24:CC:283:TYR:CE1	24:CC:285:LEU:HA	2.35	0.62
30:CI:11:LYS:HD3	30:CI:36:ARG:NH1	2.15	0.62
31:CJ:85:GLN:HA	31:CJ:102:ASN:HD22	1.63	0.62
32:CK:128:LYS:HB3	32:CK:129:TYR:CE1	2.34	0.62
43:CV:100:LEU:CD2	43:CV:127:VAL:HG11	2.26	0.62
43:CV:178:VAL:O	43:CV:182:ILE:HG13	1.99	0.62
43:CV:48:TYR:CE1	43:CV:183:HIS:CG	2.87	0.62
1:D1:1714:C:H2'	1:D1:1715:U:H5'	1.82	0.62
1:D1:3079:U:O2'	1:D1:3080:A:O5'	2.17	0.62
1:D1:3109:C:H3'	10:DK:111:ARG:HH11	1.56	0.62
1:D1:3175:A:H2'	1:D1:3177:G:C8	2.35	0.62
1:D1:467:A:N6	1:D1:512:G:N1	2.48	0.62
7:DG:10:ILE:HG23	7:DG:13:LYS:CE	2.29	0.62
23:BB:376:LYS:HZ2	9:DJ:44:PRO:HD3	1.65	0.62
21:E3:54:A:H5'	25:ED:7:ASN:HD21	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:EF:20:PRO:HB2	27:EF:22:PHE:CD2	2.35	0.62
32:EK:81:TRP:CZ2	32:EK:123:VAL:CG2	2.82	0.62
41:ET:23:PHE:HE1	41:ET:25:ALA:HB2	1.64	0.62
43:EV:15:ARG:HG2	43:EV:16:ASP:N	2.14	0.62
1:F1:1134:C:C2'	1:F1:1135:U:H5''	2.29	0.62
1:F1:223:C:HO2'	1:F1:224:C:P	2.22	0.62
23:EB:250:ILE:HG12	1:F1:2388:G:H4'	1.81	0.62
1:F1:240:A:O2'	1:F1:243:G:H5''	2.00	0.62
1:F1:2859:G:C5	50:F1:4203:HOH:O	2.50	0.62
1:F1:446:G:H2'	1:F1:447:G:C8	2.34	0.62
32:EK:8:THR:HG21	1:F1:685:G:H5'	1.80	0.62
1:F1:3232:A:H4'	5:FE:55:ALA:HB1	1.81	0.62
18:FU:54:PRO:HD3	18:FU:73:PHE:CE2	2.33	0.62
20:G2:147:G:N2	27:GF:54:GLN:HE22	1.97	0.62
20:G2:35:U:O2	20:G2:37:A:N6	2.32	0.62
22:GA:128:SER:O	22:GA:128:SER:OG	2.16	0.62
23:GB:337:ARG:NH2	23:GB:340:ILE:HG23	2.15	0.62
27:GF:133:THR:O	27:GF:137:GLU:HG3	1.99	0.62
27:GF:230:LEU:HD12	27:GF:235:GLN:OE1	1.99	0.62
28:GG:33:UNK:HG3	28:GG:36:UNK:CG	2.28	0.62
34:GM:175:HIS:HD2	34:GM:180:PHE:HE2	1.47	0.62
38:GQ:72:THR:HG21	38:GQ:74:GLN:HG3	1.80	0.62
46:GY:60:CYS:SG	46:GY:62:LYS:HG2	2.39	0.62
1:H1:1767:U:H4'	1:H1:1768:G:OP2	1.99	0.62
1:H1:2181:U:OP1	50:H1:3959:HOH:O	2.16	0.62
1:H1:2255:U:H3'	1:H1:2256:G:C8	2.34	0.62
33:GL:188:ARG:HH21	1:H1:279:U:C4'	2.12	0.62
1:H1:633:C:H3'	5:HE:30:ARG:HH22	1.65	0.62
1:H1:842:A:H8	2:HA:15:THR:CG2	2.12	0.62
1:H1:88:U:C2'	1:H1:89:G:H5'	2.29	0.62
5:HE:52:ILE:HB	5:HE:96:LEU:HB2	1.80	0.62
6:HF:106:PHE:CD2	6:HF:110:ARG:NE	2.61	0.62
1:H1:2884:A:OP1	10:HK:102:ARG:HD3	2.00	0.62
1:A1:1051:C:H2'	1:A1:1052:A:C1'	2.29	0.62
1:A1:1052:A:H2	1:A1:1053:A:N7	1.98	0.62
1:A1:1594:C:C4	1:A1:1595:A:C8	2.88	0.62
1:A1:1580:G:O6	1:A1:1608:G:N7	2.32	0.62
1:A1:1626:U:P	36:BO:42:ARG:NH2	2.73	0.62
1:A1:2371:G:O2'	1:A1:2372:G:H8	1.78	0.62
1:A1:314:C:H2'	1:A1:315:U:C6	2.33	0.62
1:A1:645:A:C1'	1:A1:646:A:OP2	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:13:LYS:CD	7:AG:100:ILE:CD1	2.77	0.62
9:AJ:43:VAL:HG12	9:AJ:44:PRO:N	2.15	0.62
10:AK:120:SER:O	10:AK:121:LEU:HD23	1.99	0.62
12:AM:71:ILE:HG23	12:AM:72:PRO:HD2	1.80	0.62
21:B3:30:G:O2'	21:B3:31:G:H5'	2.00	0.62
26:BE:135:LYS:H	26:BE:138:GLU:CG	2.12	0.62
27:BF:169:PRO:HB2	27:BF:211:PHE:HB2	1.80	0.62
34:BM:166:ALA:HB3	34:BM:173:ILE:CD1	2.30	0.62
43:BV:164:THR:O	43:BV:168:LYS:HG3	1.99	0.62
32:BK:21:ARG:HH12	45:BX:40:ILE:HG22	1.65	0.62
46:BY:45:VAL:O	46:BY:45:VAL:CG2	2.46	0.62
23:CB:119:TYR:CD2	23:CB:122:TRP:CZ3	2.87	0.62
24:CC:42:PHE:CZ	24:CC:46:ASN:ND2	2.68	0.62
25:CD:12:VAL:HG21	25:CD:162:TRP:HD1	1.65	0.62
27:CF:69:GLN:HE22	16:DQ:48:VAL:C	1.98	0.62
27:CF:69:GLN:O	27:CF:72:GLN:HG2	2.00	0.62
33:CL:88:GLY:C	33:CL:89:ILE:HG12	2.19	0.62
21:C3:11:A:O5'	34:CM:18:THR:HG21	2.00	0.62
35:CN:45:PHE:CE2	35:CN:49:ILE:HD11	2.35	0.62
38:CQ:73:ALA:O	38:CQ:76:HIS:CD2	2.53	0.62
44:CW:22:ILE:CD1	44:CW:30:ARG:HG2	2.27	0.62
45:CX:45:ARG:NH2	1:D1:1171:U:OP2	2.33	0.62
46:CY:8:VAL:HG23	1:D1:1951:G:OP1	1.98	0.62
1:D1:2187:C:C2'	1:D1:2188:U:H5'	2.30	0.62
1:D1:3127:U:H2'	1:D1:3128:G:C5'	2.20	0.62
1:D1:433:C:C5'	1:D1:434:A:OP2	2.47	0.62
5:DE:122:ALA:HB2	5:DE:134:LEU:HD23	1.80	0.62
9:DJ:116:LEU:HD21	9:DJ:177:LEU:HD21	1.82	0.62
33:CL:16:SER:CB	16:DQ:49:THR:HG23	2.29	0.62
19:DX:18:VAL:HG11	19:DX:117:VAL:HG11	1.80	0.62
20:E2:3:A:N6	1:F1:3242:U:O2'	2.31	0.62
20:E2:6:A:N6	50:E2:330:HOH:O	2.32	0.62
24:EC:251:HIS:ND1	14:FO:12:ASN:OD1	2.32	0.62
24:EC:33:ILE:O	24:EC:33:ILE:HG22	2.00	0.62
28:EG:85:UNK:O	28:EG:85:UNK:HG3	1.98	0.62
35:EN:141:ARG:HD3	1:F1:768:A:H1'	1.80	0.62
46:EY:73:THR:C	46:EY:75:PRO:HD2	2.20	0.62
1:F1:117:G:H4'	1:F1:118:A:O5'	1.99	0.62
1:F1:1599:G:O2'	1:F1:1600:U:H5'	1.98	0.62
1:F1:2400:C:H5'	1:F1:2400:C:H6	1.64	0.62
1:F1:2865:G:H2'	1:F1:2866:G:C8	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:314:C:H2'	1:F1:315:U:C6	2.34	0.62
35:EN:141:ARG:HD3	1:F1:768:A:C1'	2.29	0.62
1:F1:3175:A:H62	6:FF:16:ASN:HD21	1.48	0.62
16:FQ:7:VAL:CG1	18:FU:185:LYS:HG3	2.29	0.62
24:GC:186:LEU:HD22	24:GC:190:GLU:OE2	1.99	0.62
26:GE:141:THR:HG22	26:GE:142:LEU:N	2.13	0.62
35:GN:19:GLN:HA	35:GN:19:GLN:OE1	1.99	0.62
20:G2:74:A:H5'	40:GS:50:ARG:HG2	1.80	0.62
1:H1:1168:C:OP1	50:H1:3750:HOH:O	2.16	0.62
44:GW:50:ILE:O	1:H1:1486:A:H5'	1.98	0.62
1:H1:1507:A:O2'	1:H1:1882:A:C2'	2.48	0.62
22:GA:180:ILE:O	1:H1:2145:A:O3'	2.16	0.62
1:H1:198:A:N3	1:H1:218:G:O2'	2.32	0.62
1:H1:2202:A:H2'	1:H1:2203:A:O4'	2.00	0.62
22:GA:41:TYR:CE1	1:H1:2541:U:C4	2.88	0.62
1:H1:3106:C:C2'	1:H1:3107:C:H5'	2.30	0.62
1:H1:449:G:H2'	1:H1:450:C:H6	1.63	0.62
1:H1:92:G:H2'	1:H1:93:A:C8	2.35	0.62
12:HM:110:PHE:O	12:HM:111:ASN:HB2	1.99	0.62
14:HO:50:LEU:HD13	14:HO:111:LEU:CD2	2.29	0.62
1:H1:297:U:O4	16:HQ:30:ARG:HA	1.99	0.62
18:HU:59:GLN:HG2	18:HU:59:GLN:O	1.99	0.62
19:HX:11:ASP:OD1	19:HX:13:THR:HB	1.98	0.62
1:A1:1210:C:O3'	19:AX:171:ARG:NH2	2.31	0.62
1:A1:1343:G:O6	19:AX:167:LYS:HD2	1.98	0.62
1:A1:2385:A:C2'	1:A1:2386:G:O5'	2.48	0.62
1:A1:2397:A:OP2	24:BC:77:ALA:HA	1.99	0.62
1:A1:2548:G:H4'	1:A1:2549:U:OP2	1.99	0.62
1:A1:47:G:C1'	1:A1:48:U:OP2	2.47	0.62
6:AF:51:ARG:HG2	19:AX:171:ARG:NH1	2.14	0.62
8:AH:44:THR:HB	8:AH:46:GLU:OE1	2.00	0.62
19:AX:5:ALA:O	19:AX:8:GLU:HG3	2.00	0.62
23:BB:103:THR:HG22	23:BB:104:THR:N	2.14	0.62
23:BB:25:HIS:HD2	23:BB:270:TYR:OH	1.83	0.62
24:BC:185:VAL:O	24:BC:188:VAL:HG22	2.00	0.62
32:BK:119:PRO:HG3	35:BN:94:LEU:HD13	1.81	0.62
1:A1:1064:C:P	34:BM:5:LYS:NZ	2.73	0.62
40:BS:84:ILE:HG22	40:BS:84:ILE:O	2.00	0.62
20:C2:146:A:O2'	20:C2:147:G:H5'	1.99	0.62
27:CF:20:PRO:HB2	27:CF:22:PHE:CD2	2.34	0.62
31:CJ:124:LYS:HG3	31:CJ:141:VAL:C	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CN:52:ARG:NH1	35:CN:141:ARG:NE	2.48	0.62
1:D1:1190:U:H3	1:D1:1363:A:H61	1.47	0.62
1:D1:2100:A:C2	1:D1:2101:G:C8	2.88	0.62
1:D1:2804:G:N7	1:D1:2858:C:H5'	2.14	0.62
1:D1:3106:C:C2'	1:D1:3107:C:H5'	2.29	0.62
1:D1:3232:A:OP1	5:DE:88:LYS:NZ	2.26	0.62
1:D1:3263:G:O2'	1:D1:3265:A:N6	2.30	0.62
6:DF:6:PHE:HB3	19:DX:162:LYS:HB3	1.80	0.62
21:E3:5:U:H2'	21:E3:6:C:C6	2.35	0.62
21:E3:93:G:O5'	21:E3:93:G:H8	1.82	0.62
22:EA:104:PRO:HG2	22:EA:107:ARG:HG3	1.82	0.62
24:EC:163:VAL:HA	24:EC:166:TYR:HE2	1.63	0.62
30:EI:144:VAL:O	30:EI:144:VAL:HG12	1.99	0.62
34:EM:125:VAL:O	34:EM:201:LYS:HD2	2.00	0.62
36:EO:65:ALA:O	36:EO:68:GLU:HB3	1.98	0.62
46:EY:19:GLY:HA2	1:F1:1949:U:O2	1.98	0.62
1:F1:132:U:O2'	1:F1:133:C:OP2	2.18	0.62
1:F1:2133:U:C5	1:F1:2138:A:N7	2.68	0.62
1:F1:2356:A:C2'	1:F1:2357:C:O5'	2.47	0.62
22:EA:231:SER:OG	1:F1:2419:A:N1	2.32	0.62
4:FC:66:VAL:CG2	4:FC:83:ILE:HB	2.29	0.62
14:FO:94:ILE:HD12	14:FO:111:LEU:HD12	1.82	0.62
19:FX:29:PRO:O	19:FX:30:ILE:HG22	1.99	0.62
20:G2:1:A:H4'	20:G2:2:G:OP1	1.99	0.62
22:GA:20:HIS:HE1	1:H1:847:G:O2'	1.82	0.62
23:GB:52:GLY:HA3	23:GB:309:PHE:CD1	2.34	0.62
23:GB:32:PHE:CD2	23:GB:180:GLN:HB3	2.35	0.62
29:GH:139:ARG:HD3	29:GH:173:PHE:CE1	2.33	0.62
33:GL:183:SER:C	33:GL:191:ASN:HD22	2.03	0.62
34:GM:129:TYR:CE1	34:GM:175:HIS:O	2.48	0.62
34:GM:184:VAL:HB	34:GM:194:LYS:HB2	1.80	0.62
21:G3:33:U:C5	34:GM:212:TYR:CE1	2.87	0.62
28:GG:60:UNK:HG1	1:H1:1249:G:C8	2.33	0.62
1:H1:1249:G:O2'	1:H1:1250:A:P	2.57	0.62
27:GF:46:ARG:CD	1:H1:2518:A:H5'	2.29	0.62
34:GM:176:SER:OG	1:H1:2735:A:H4'	1.99	0.62
1:H1:3127:U:H2'	1:H1:3128:G:C5'	2.21	0.62
1:H1:497:G:O2'	1:H1:498:A:H5'	2.00	0.62
1:H1:699:C:O2'	1:H1:703:U:OP1	2.18	0.62
1:H1:75:A:C8	18:HU:71:ARG:NH1	2.65	0.62
22:GA:205:MET:HG2	1:H1:939:A:N3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2702:U:H3'	4:HC:9:LYS:O	1.98	0.62
1:H1:1662:A:H5'	11:HL:76:ARG:CZ	2.26	0.62
13:HN:38:PHE:CE2	13:HN:76:ASN:HB2	2.34	0.62
1:A1:1413:G:C2'	1:A1:1414:C:H5'	2.29	0.62
1:A1:1599:G:C5	1:A1:1600:U:C5	2.87	0.62
1:A1:2133:U:H5	1:A1:2138:A:N7	1.98	0.62
1:A1:2254:A:C5	1:A1:2255:U:C5	2.88	0.62
1:A1:3325:G:N2	23:BB:378:PHE:CG	2.68	0.62
1:A1:368:A:H5'	1:A1:369:U:OP1	2.00	0.62
1:A1:467:A:N6	1:A1:512:G:C6	2.68	0.62
13:AN:27:LYS:NZ	1:H1:1046:G:P	2.73	0.62
14:AO:75:THR:HG21	14:AO:77:GLU:CD	2.19	0.62
19:AX:83:LEU:HD22	19:AX:111:VAL:HG12	1.82	0.62
22:BA:160:PRO:HG2	22:BA:163:CYS:SG	2.39	0.62
24:BC:105:ARG:CG	24:BC:105:ARG:NH1	2.63	0.62
31:BJ:83:ILE:HD11	31:BJ:105:VAL:HG23	1.80	0.62
33:BL:88:GLY:C	33:BL:89:ILE:HG12	2.21	0.62
35:BN:5:LEU:CD2	43:BV:106:ARG:HD2	2.30	0.62
1:A1:1744:A:OP2	36:BO:120:TYR:HE2	1.81	0.62
42:BU:51:VAL:O	42:BU:55:ILE:HG13	1.99	0.62
23:CB:194:LYS:HA	23:CB:197:LEU:CD1	2.29	0.62
34:CM:129:TYR:CE1	34:CM:175:HIS:O	2.50	0.62
45:CX:28:ALA:HB3	1:D1:679:C:H5''	1.82	0.62
45:CX:47:ARG:NH1	1:D1:1187:C:C2	2.68	0.62
1:D1:1127:U:H2'	1:D1:1128:G:C8	2.35	0.62
1:D1:1754:G:O6	7:DG:29:SER:HB2	2.00	0.62
1:D1:2309:U:C4'	1:D1:2310:G:OP2	2.47	0.62
1:D1:2412:U:H2'	1:D1:2413:G:H5''	1.81	0.62
1:D1:2536:A:H2'	1:D1:2537:C:C6	2.35	0.62
1:D1:2540:G:C4'	1:D1:2541:U:OP2	2.47	0.62
1:D1:2542:U:H5''	1:D1:2542:U:C6	2.32	0.62
32:CK:59:GLY:HA2	1:D1:2775:G:O3'	2.00	0.62
23:CB:28:ARG:NH2	1:D1:3129:G:O6	2.27	0.62
43:CV:64:ARG:HD3	1:D1:565:G:C5	2.35	0.62
1:D1:605:C:H1'	19:DX:6:ALA:HB2	1.81	0.62
1:D1:713:G:O6	1:D1:716:A:OP1	2.17	0.62
35:CN:162:HIS:O	1:D1:805:A:H5'	2.00	0.62
1:D1:851:G:O2'	1:D1:1614:A:H8	1.82	0.62
3:DB:32:ASP:OD1	3:DB:32:ASP:N	2.29	0.62
14:DO:49:ALA:HB3	14:DO:61:SER:HB2	1.82	0.62
1:D1:452:U:C4'	14:DO:56:GLN:HE22	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:E3:103:U:H4'	1:F1:1027:G:N1	2.15	0.62
22:EA:20:HIS:CE1	1:F1:847:G:O2'	2.53	0.62
27:EF:69:GLN:O	27:EF:72:GLN:HG2	2.00	0.62
29:EH:158:LYS:O	1:F1:2841:G:O2'	2.13	0.62
27:EF:69:GLN:OE1	33:EL:18:LEU:HD22	2.00	0.62
37:EP:11:THR:HG22	37:EP:11:THR:O	1.99	0.62
46:EY:60:CYS:SG	46:EY:62:LYS:HG2	2.39	0.62
1:F1:2133:U:H5	1:F1:2138:A:N7	1.98	0.62
1:F1:2187:C:C2'	1:F1:2188:U:H5'	2.30	0.62
1:F1:2251:A:P	1:F1:2254:A:N1	2.73	0.62
1:F1:2385:A:C2'	1:F1:2386:G:O5'	2.47	0.62
1:F1:169:A:OP2	1:F1:249:G:N2	2.33	0.62
1:F1:2717:G:P	50:F1:4475:HOH:O	2.51	0.62
1:F1:2884:A:O3'	10:FK:122:ARG:NH2	2.32	0.62
1:F1:348:A:H4'	1:F1:349:C:OP2	1.98	0.62
7:FG:102:LYS:O	7:FG:103:THR:OG1	2.10	0.62
7:FG:10:ILE:HG23	7:FG:13:LYS:CE	2.29	0.62
32:EK:98:LYS:HA	18:FU:166:VAL:CG2	2.30	0.62
23:GB:37:PRO:HA	23:GB:184:GLY:CA	2.27	0.62
23:GB:47:THR:OG1	23:GB:177:LEU:HD11	2.00	0.62
24:GC:311:ALA:HB2	35:GN:40:ARG:HH21	1.65	0.62
27:GF:196:VAL:CG1	27:GF:200:ASP:HB2	2.28	0.62
33:GL:179:HIS:O	33:GL:182:LYS:HD3	2.00	0.62
34:GM:122:GLN:NE2	34:GM:126:ASP:OD2	2.32	0.62
34:GM:240:VAL:HG11	34:GM:245:LYS:HB2	1.80	0.62
35:GN:81:ILE:O	35:GN:102:CYS:N	2.26	0.62
1:H1:1594:C:C4	1:H1:1595:A:C8	2.88	0.62
1:H1:2425:A:H2'	1:H1:2426:C:C6	2.35	0.62
1:H1:2720:G:O2'	1:H1:2721:G:H5'	2.00	0.62
1:H1:3100:U:C2'	1:H1:3101:G:H5'	2.30	0.62
1:H1:1252:A:N3	1:H1:3105:G:N7	2.48	0.62
1:H1:645:A:C1'	1:H1:646:A:OP2	2.48	0.62
1:H1:71:U:HO2'	1:H1:72:A:P	2.16	0.62
7:HG:13:LYS:CD	7:HG:100:ILE:CD1	2.75	0.62
1:H1:3109:C:C3'	10:HK:111:ARG:HH12	2.07	0.62
12:HM:75:LYS:HE2	12:HM:105:TYR:CE2	2.34	0.62
1:A1:1090:A:O2'	1:A1:1091:G:OP1	2.15	0.62
1:A1:1402:G:C2'	1:A1:1403:C:H5'	2.30	0.62
1:A1:1856:C:O2'	1:A1:1857:G:H5'	2.00	0.62
1:A1:2395:G:N7	50:A1:4263:HOH:O	2.31	0.62
1:A1:39:G:H2'	1:A1:40:C:H5'	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:B2:26:A:H3'	20:B2:27:G:C5'	2.29	0.62
24:BC:201:LEU:HD23	24:BC:201:LEU:N	2.15	0.62
25:BD:15:ALA:O	25:BD:72:ARG:HG2	2.00	0.62
27:BF:131:HIS:O	27:BF:135:LEU:HG	1.99	0.62
20:C2:33:C:H2'	20:C2:34:G:H5'	1.81	0.62
22:CA:105:ILE:HG21	22:CA:147:THR:HG21	1.82	0.62
23:CB:216:LEU:CD2	23:CB:274:THR:HA	2.30	0.62
24:CC:213:LEU:O	24:CC:256:ILE:HA	1.99	0.62
30:CI:144:VAL:HG12	30:CI:144:VAL:O	2.00	0.62
39:CR:56:ARG:HB3	39:CR:61:VAL:HG21	1.82	0.62
39:CR:94:VAL:HG11	39:CR:103:ILE:HD11	1.81	0.62
46:CY:7:LYS:CE	1:D1:1950:C:H2'	2.29	0.62
1:D1:1404:G:H5'	1:D1:1434:G:O2'	1.99	0.62
27:CF:155:LEU:HD13	1:D1:147:U:H1'	1.80	0.62
47:CO:42:ARG:NH2	1:D1:1626:U:P	2.73	0.62
1:D1:1742:G:C2	1:D1:1751:A:C2	2.88	0.62
1:D1:2140:A:C5	1:D1:2276:A:C2	2.88	0.62
1:D1:2270:A:H5''	1:D1:2271:G:OP2	1.99	0.62
1:D1:832:A:H2	1:D1:2406:U:O2'	1.82	0.62
5:DE:179:THR:OG1	8:DH:12:THR:HA	2.00	0.62
5:DE:42:ARG:H	5:DE:92:GLN:NE2	1.98	0.62
7:DG:13:LYS:CD	7:DG:100:ILE:CD1	2.75	0.62
8:DH:107:MET:SD	8:DH:109:TYR:HE2	2.23	0.62
20:E2:19:G:N2	1:F1:403:G:H1'	2.14	0.62
22:EA:35:PHE:CE1	1:F1:2520:G:C2'	2.81	0.62
23:EB:216:LEU:CD2	23:EB:274:THR:HA	2.30	0.62
47:CO:174:UNK:CG	29:EH:81:SER:HB2	2.29	0.62
35:EN:168:ARG:HH11	18:FU:9:VAL:CG2	2.12	0.62
43:EV:137:THR:O	43:EV:141:ILE:HG13	1.99	0.62
1:F1:132:U:O2'	1:F1:133:C:P	2.57	0.62
1:F1:1594:C:C4	1:F1:1595:A:C8	2.88	0.62
1:F1:1684:C:O2'	1:F1:1685:A:H5'	1.99	0.62
1:F1:3106:C:C2'	1:F1:3107:C:H5'	2.30	0.62
1:F1:532:G:H2'	1:F1:533:G:H8	1.59	0.62
1:F1:701:A:H4'	1:F1:702:G:O5'	2.00	0.62
5:FE:55:ALA:HB2	8:FH:109:TYR:CE1	2.32	0.62
8:FH:23:PHE:CD2	8:FH:32:SER:HA	2.35	0.62
9:FJ:5:CYS:SG	9:FJ:13:ILE:HD13	2.40	0.62
14:FO:90:VAL:CG1	14:FO:111:LEU:HD11	2.28	0.62
20:G2:146:A:O2'	20:G2:147:G:H5'	1.99	0.62
20:G2:40:A:C8	20:G2:42:G:C2	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:GB:194:LYS:HA	23:GB:197:LEU:CD1	2.30	0.62
28:GG:81:UNK:HG3	1:H1:1308:U:HO2'	1.62	0.62
1:H1:1640:C:H2'	1:H1:1641:U:H6	1.64	0.62
1:H1:1742:G:C2	1:H1:1751:A:C2	2.87	0.62
1:H1:2638:G:H4'	1:H1:2685:A:O4'	2.00	0.62
3:HB:3:ALA:O	3:HB:5:LYS:HE2	2.00	0.62
7:HG:8:ASP:OD1	7:HG:9:ASN:N	2.32	0.62
9:HJ:5:CYS:SG	9:HJ:13:ILE:HD13	2.40	0.62
9:HJ:22:ALA:HB2	9:HJ:67:LYS:HB2	1.81	0.62
11:HL:5:ILE:CG2	11:HL:6:THR:N	2.63	0.62
16:HQ:49:THR:HG22	16:HQ:50:GLY:O	2.00	0.62
1:A1:1595:A:O2'	1:A1:1598:C:N4	2.33	0.61
1:A1:1972:G:C2	1:A1:1973:A:C8	2.88	0.61
1:A1:2344:U:C5'	1:A1:2344:U:H6	2.13	0.61
1:A1:2356:A:C2'	1:A1:2357:C:O5'	2.47	0.61
1:A1:2727:A:O2'	1:A1:2728:A:OP2	2.17	0.61
1:A1:3179:U:H2'	1:A1:3180:C:C6	2.35	0.61
7:AG:10:ILE:HG23	7:AG:13:LYS:CE	2.30	0.61
13:AN:114:LEU:O	13:AN:118:PHE:HD1	1.83	0.61
14:AO:16:LEU:HD13	14:AO:35:ASN:ND2	2.15	0.61
16:AQ:49:THR:HG22	16:AQ:50:GLY:O	2.00	0.61
18:AU:173:ARG:HH21	32:BK:143:GLY:N	1.97	0.61
28:BG:14:UNK:O	28:BG:18:UNK:HG2	1.99	0.61
30:BI:57:LEU:HA	30:BI:71:HIS:ND1	2.14	0.61
34:BM:83:LEU:HB3	34:BM:88:VAL:HG21	1.81	0.61
24:BC:311:ALA:N	35:BN:40:ARG:NH2	2.47	0.61
40:BS:58:VAL:HG12	40:BS:59:ARG:HG2	1.82	0.61
20:C2:105:A:C5'	20:C2:106:A:H5''	2.21	0.61
20:C2:107:C:C4	20:C2:135:A:C6	2.88	0.61
20:C2:22:A:H2'	20:C2:23:U:C6	2.34	0.61
21:C3:10:C:C6	34:CM:20:TYR:HE1	2.18	0.61
21:C3:47:C:H2'	21:C3:48:G:O4'	1.99	0.61
25:CD:17:LEU:HD13	25:CD:129:VAL:HG22	1.82	0.61
47:CO:168:UNK:C	47:CO:171:UNK:HG3	2.30	0.61
38:CQ:8:ARG:HH11	38:CQ:118:HIS:CB	2.07	0.61
41:CT:11:CYS:SG	41:CT:13:TYR:CD2	2.92	0.61
42:CU:74:PHE:HB3	42:CU:80:LYS:HE3	1.82	0.61
43:CV:115:ARG:HH21	43:CV:192:PHE:HB3	1.65	0.61
46:CY:73:THR:C	46:CY:75:PRO:HD2	2.20	0.61
1:D1:1123:A:H4'	1:D1:1124:G:O5'	1.99	0.61
1:D1:1184:U:C5'	1:D1:1184:U:H6	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2245:G:O6	50:D1:4582:HOH:O	2.11	0.61
1:D1:2343:A:H3'	1:D1:2344:U:H5''	1.81	0.61
1:D1:3241:U:C4	1:D1:3242:U:C4	2.87	0.61
1:D1:376:A:N6	1:D1:398:G:H2'	2.14	0.61
1:D1:530:C:H2'	1:D1:531:C:H6	1.65	0.61
13:DN:11:VAL:HB	13:DN:80:ILE:HG23	1.82	0.61
1:D1:157:A:O5'	16:DQ:25:HIS:CE1	2.53	0.61
20:E2:74:A:H5'	40:ES:50:ARG:HG3	1.82	0.61
22:EA:29:GLN:OE1	22:EA:124:ARG:NH2	2.32	0.61
30:EI:11:LYS:HD3	30:EI:36:ARG:NH1	2.15	0.61
30:EI:49:ASN:ND2	30:EI:135:CYS:SG	2.67	0.61
36:EO:95:TRP:CZ3	1:F1:880:U:H4'	2.35	0.61
37:EP:142:GLN:O	19:FX:36:PRO:HD2	2.00	0.61
42:EU:98:LYS:HG2	1:F1:242:G:OP1	1.99	0.61
43:EV:226:ASN:O	43:EV:226:ASN:OD1	2.17	0.61
45:EX:56:LYS:O	1:F1:1431:U:H1'	1.99	0.61
1:F1:1593:A:C5	1:F1:1594:C:C4	2.88	0.61
1:F1:1902:C:H2'	1:F1:1903:A:O4'	2.00	0.61
1:F1:2704:A:H4'	1:F1:2705:U:OP2	2.00	0.61
1:F1:296:G:H5''	1:F1:297:U:OP1	2.00	0.61
1:F1:3079:U:O2'	1:F1:3080:A:O5'	2.17	0.61
1:F1:467:A:N6	1:F1:468:A:N1	2.48	0.61
12:FM:45:VAL:CB	12:FM:51:ASN:HD21	2.10	0.61
14:FO:110:LYS:O	14:FO:114:PHE:HB2	1.99	0.61
21:G3:69:G:H2'	21:G3:70:G:H8	1.66	0.61
23:GB:93:ILE:HD11	23:GB:102:LEU:HD22	1.82	0.61
27:GF:176:LYS:CB	27:GF:187:THR:HG23	2.15	0.61
33:GL:64:VAL:HG21	33:GL:106:VAL:CG2	2.30	0.61
38:GQ:97:LEU:O	38:GQ:100:LEU:HB2	2.00	0.61
1:H1:1038:G:H2'	1:H1:1039:G:O4'	1.99	0.61
1:H1:1662:A:H4'	11:HL:76:ARG:NH2	2.15	0.61
1:H1:1752:G:H2'	7:HG:85:HIS:CD2	2.35	0.61
1:H1:2309:U:H4'	1:H1:2310:G:OP2	2.00	0.61
1:H1:2731:C:H4'	4:HC:18:HIS:CD2	2.34	0.61
32:GK:59:GLY:HA2	1:H1:2775:G:O3'	2.00	0.61
1:H1:532:G:H2'	1:H1:533:G:H8	1.59	0.61
1:H1:846:C:C2'	1:H1:847:G:H5''	2.27	0.61
13:HN:11:VAL:HB	13:HN:80:ILE:HG23	1.82	0.61
14:HO:87:VAL:CG2	14:HO:115:HIS:CD2	2.83	0.61
18:HU:177:VAL:O	18:HU:181:ILE:HG13	2.00	0.61
1:A1:1038:G:H1	1:A1:1064:C:H42	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1549:U:H3	39:BR:83:LYS:NZ	1.98	0.61
1:A1:1595:A:H1'	1:A1:1599:G:N1	2.15	0.61
1:A1:3185:G:N7	8:AH:11:PRO:HD3	2.14	0.61
1:A1:398:G:N7	38:BQ:3:LYS:NZ	2.46	0.61
1:A1:433:C:C5'	1:A1:434:A:OP2	2.48	0.61
9:AJ:22:ALA:HB2	9:AJ:67:LYS:HB2	1.81	0.61
13:AN:10:VAL:HG12	13:AN:85:TYR:O	2.00	0.61
19:AX:110:ASP:OD1	19:AX:111:VAL:N	2.32	0.61
21:B3:10:C:C5	34:BM:20:TYR:HE1	2.18	0.61
22:BA:35:PHE:CZ	22:BA:39:GLN:OE1	2.53	0.61
23:BB:298:VAL:HG12	23:BB:298:VAL:O	1.99	0.61
23:BB:55:HIS:HD2	23:BB:55:HIS:H	1.47	0.61
26:BE:7:GLU:CD	26:BE:54:LYS:HE2	2.20	0.61
33:BL:26:ARG:O	33:BL:30:TYR:HD1	1.82	0.61
40:BS:51:LYS:O	40:BS:69:VAL:O	2.18	0.61
20:C2:50:C:H1'	20:C2:64:A:H2'	1.81	0.61
21:C3:105:C:C5'	21:C3:105:C:H6	2.13	0.61
24:CC:115:ARG:O	24:CC:115:ARG:HG2	1.99	0.61
30:CI:26:LEU:HD22	30:CI:100:ARG:HB2	1.82	0.61
32:CK:100:PRO:HA	18:DU:164:LYS:CE	2.30	0.61
47:CO:115:ILE:HG22	47:CO:119:GLN:CB	2.30	0.61
44:CW:20:HIS:CD2	44:CW:21:LYS:HB2	2.35	0.61
1:D1:1249:G:O2'	1:D1:1250:A:P	2.58	0.61
1:D1:240:A:O2'	1:D1:243:G:H5''	2.00	0.61
27:CF:22:PHE:O	1:D1:2553:G:H5''	2.00	0.61
1:D1:2862:G:HO2'	1:D1:2863:U:H6	1.44	0.61
32:CK:24:LYS:HD3	1:D1:967:U:O4	2.00	0.61
2:DA:16:HIS:HA	2:DA:27:TYR:O	2.00	0.61
1:D1:1737:A:H62	7:DG:28:LYS:HD2	1.65	0.61
7:DG:40:LYS:O	7:DG:65:ILE:HG23	2.00	0.61
9:DJ:145:ASN:ND2	9:DJ:146:VAL:H	1.98	0.61
24:EC:99:ASN:ND2	24:EC:100:GLN:HE21	1.97	0.61
24:EC:50:LYS:HD2	24:EC:116:VAL:HG11	1.81	0.61
32:EK:136:ARG:NH1	1:F1:741:G:N3	2.46	0.61
34:EM:140:LYS:HD3	1:F1:1108:A:OP2	2.00	0.61
37:EP:116:LYS:HE3	37:EP:128:THR:OG1	2.00	0.61
42:EU:109:GLN:OE1	42:EU:109:GLN:HA	1.99	0.61
1:F1:1884:G:C2'	1:F1:1885:G:H5'	2.30	0.61
1:F1:1921:G:H2'	1:F1:1922:G:H5'	1.81	0.61
1:F1:3091:G:O2'	1:F1:3092:A:H5'	2.00	0.61
1:F1:3241:U:C4	1:F1:3242:U:C4	2.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:534:U:H2'	1:F1:535:C:H6	1.66	0.61
1:F1:801:U:O2	1:F1:2708:U:O2	2.18	0.61
2:FA:14:LYS:NZ	3:FB:52:TYR:HE1	1.97	0.61
1:F1:838:G:H1'	2:FA:50:TRP:HZ2	1.64	0.61
33:EL:201:ARG:HG2	18:FU:23:PHE:CD2	2.35	0.61
20:G2:147:G:H21	27:GF:54:GLN:NE2	1.98	0.61
20:G2:44:A:OP1	2:HA:67:TYR:HB3	2.00	0.61
21:G3:84:U:OP2	43:GV:215:ARG:HD3	2.00	0.61
27:GF:20:PRO:HB2	27:GF:22:PHE:HD2	1.65	0.61
36:GO:120:TYR:HE2	1:H1:1744:A:OP2	1.82	0.61
45:GX:98:ILE:CA	45:GX:123:ASN:HD21	2.13	0.61
1:H1:2600:U:H2'	1:H1:2601:U:H6	1.65	0.61
1:H1:2737:A:H2'	1:H1:2738:G:H5'	1.80	0.61
41:GT:57:ARG:NH1	1:H1:3321:U:OP1	2.33	0.61
1:H1:637:U:O2'	1:H1:638:U:H5'	2.00	0.61
6:HF:112:MET:O	6:HF:116:LYS:HG3	1.99	0.61
9:HJ:12:ASP:O	9:HJ:14:GLY:N	2.34	0.61
24:GC:152:VAL:HG12	14:HO:76:ILE:HD11	1.80	0.61
1:A1:1035:A:H1'	29:BH:88:ARG:NH2	2.14	0.61
1:A1:132:U:O2'	1:A1:133:C:P	2.57	0.61
1:A1:1549:U:N3	39:BR:83:LYS:NZ	2.49	0.61
1:A1:1834:G:O6	50:A1:4421:HOH:O	2.16	0.61
1:A1:1921:G:C2'	1:A1:1922:G:H5'	2.29	0.61
1:A1:282:G:N3	1:A1:282:G:H2'	2.15	0.61
1:A1:3241:U:C4	1:A1:3242:U:C4	2.87	0.61
1:A1:810:G:N7	35:BN:92:ARG:CZ	2.63	0.61
2:AA:21:ARG:NH1	2:AA:39:TYR:HA	2.15	0.61
1:A1:1234:G:P	10:AK:119:ASN:HD21	2.22	0.61
13:AN:24:VAL:O	13:AN:43:VAL:HG13	1.99	0.61
21:B3:16:A:H2'	21:B3:17:A:C8	2.35	0.61
23:BB:52:GLY:HA3	23:BB:309:PHE:CD1	2.34	0.61
25:BD:133:ARG:HB3	25:BD:134:PRO:CD	2.23	0.61
1:A1:2677:U:C4	34:BM:16:PHE:CZ	2.89	0.61
43:BV:100:LEU:CD2	43:BV:127:VAL:HG11	2.30	0.61
46:CY:57:CYS:SG	46:CY:59:PRO:HG2	2.41	0.61
1:D1:1537:U:H5'	1:D1:1538:U:H5	1.66	0.61
1:D1:1752:G:H2'	7:DG:85:HIS:CD2	2.34	0.61
1:D1:1767:U:H4'	1:D1:1768:G:OP2	2.01	0.61
1:D1:2277:U:O2'	1:D1:2278:G:P	2.57	0.61
1:D1:232:C:O2'	1:D1:233:G:OP1	2.17	0.61
34:CM:23:ARG:NH1	1:D1:2692:A:OP2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3059:A:H2'	1:D1:3060:A:C8	2.35	0.61
1:D1:3291:G:O2'	1:D1:3292:U:C6	2.51	0.61
7:DG:58:TYR:OH	13:DN:84:ARG:HB3	1.98	0.61
18:DU:44:VAL:O	18:DU:47:ARG:HG3	2.01	0.61
20:E2:146:A:O2'	20:E2:147:G:H5'	2.00	0.61
23:EB:105:VAL:HG21	23:EB:146:LEU:HD23	1.82	0.61
25:ED:124:GLY:HA3	1:F1:2663:A:C5	2.35	0.61
27:EF:25:LYS:HB2	1:F1:2552:A:H1'	1.82	0.61
27:EF:68:PRO:HD3	27:EF:225:TRP:NE1	2.16	0.61
32:EK:75:VAL:CG2	32:EK:109:PHE:CG	2.83	0.61
32:EK:75:VAL:HG22	32:EK:109:PHE:CD2	2.36	0.61
33:EL:47:LYS:NZ	1:F1:267:A:H5''	2.16	0.61
38:EQ:103:ASN:HD21	1:F1:388:A:C2'	2.14	0.61
38:EQ:133:ARG:HA	50:EQ:301:HOH:O	1.99	0.61
38:EQ:18:LYS:HE3	1:F1:389:G:OP1	1.99	0.61
40:ES:56:LEU:HD12	40:ES:65:ASN:O	2.01	0.61
1:F1:1141:U:O4	1:F1:1142:G:N2	2.33	0.61
1:F1:1321:A:HO2'	1:F1:1322:G:C5'	2.09	0.61
35:EN:3:ILE:HD11	1:F1:1391:U:OP1	2.00	0.61
1:F1:2425:A:H2'	1:F1:2426:C:C6	2.34	0.61
27:EF:233:LYS:NZ	1:F1:2577:G:OP1	2.24	0.61
1:F1:548:G:N2	1:F1:619:G:N2	2.46	0.61
1:F1:673:A:OP2	1:F1:2856:U:O2'	2.16	0.61
36:EO:131:LEU:HD21	1:F1:866:A:O2'	2.00	0.61
6:FF:2:VAL:HG12	6:FF:3:PHE:N	2.15	0.61
7:FG:71:VAL:O	7:FG:71:VAL:HG12	2.01	0.61
9:FJ:43:VAL:HG12	9:FJ:44:PRO:N	2.14	0.61
15:FP:12:MET:HG2	15:FP:15:TRP:HE1	1.64	0.61
21:G3:33:U:C4	34:GM:212:TYR:CE1	2.87	0.61
26:GE:12:ILE:HD11	26:GE:53:VAL:HG23	1.81	0.61
31:GJ:32:ASN:HD21	31:GJ:116:SER:H	1.48	0.61
31:GJ:74:ARG:O	31:GJ:75:LYS:HB2	2.00	0.61
34:GM:120:ALA:O	34:GM:255:ARG:NH1	2.27	0.61
34:GM:277:PHE:O	34:GM:279:PRO:HD3	2.01	0.61
34:GM:56:THR:HG22	34:GM:58:THR:N	2.14	0.61
35:GN:63:LEU:HD21	35:GN:140:LEU:HD23	1.82	0.61
36:GO:134:ASN:ND2	1:H1:1971:G:H5''	2.15	0.61
42:GU:32:LEU:HD21	42:GU:47:ARG:HD3	1.83	0.61
43:GV:129:PRO:HG2	43:GV:130:PHE:CE2	2.35	0.61
1:H1:1367:A:H2'	1:H1:1368:U:C6	2.36	0.61
1:H1:1737:A:H2'	1:H1:1754:G:N2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2109:G:C2'	1:H1:2110:C:H5'	2.31	0.61
1:H1:2617:G:H5''	1:H1:2618:C:OP2	2.00	0.61
1:H1:3044:A:H2'	1:H1:3074:G:N1	2.13	0.61
9:HJ:23:TYR:HA	9:HJ:46:ILE:HG23	1.82	0.61
1:H1:1380:C:N3	14:HO:32:THR:HG21	2.15	0.61
18:HU:74:THR:HG23	18:HU:99:ARG:O	2.00	0.61
1:A1:2187:C:O2'	1:A1:2188:U:H5'	2.01	0.61
1:A1:2239:A:O5'	50:A1:4199:HOH:O	2.16	0.61
1:A1:2388:G:O2'	1:A1:2389:G:OP2	2.15	0.61
1:A1:3168:A:C5	19:AX:166:VAL:HG11	2.35	0.61
1:A1:3227:A:C2'	1:A1:3228:U:OP2	2.48	0.61
1:A1:3243:A:O4'	20:B2:3:A:C2	2.53	0.61
1:A1:3330:U:OP1	44:BW:16:HIS:CD2	2.52	0.61
5:AE:80:TYR:HD2	5:AE:86:PRO:HB3	1.64	0.61
13:AN:27:LYS:NZ	1:H1:1046:G:OP2	2.33	0.61
20:B2:111:A:C2'	20:B2:112:G:H5''	2.31	0.61
21:B3:13:A:OP1	21:B3:109:U:O2'	2.18	0.61
23:BB:56:ILE:HG21	23:BB:354:LEU:HD22	1.80	0.61
24:BC:157:TYR:CD1	24:BC:159:PHE:HE1	2.16	0.61
27:BF:176:LYS:CB	27:BF:187:THR:HG23	2.17	0.61
27:BF:36:GLN:NE2	27:BF:39:ARG:NH2	2.49	0.61
1:A1:1202:C:H1'	30:BI:86:MET:HE2	1.81	0.61
35:BN:89:ASN:OD1	35:BN:90:ASP:N	2.33	0.61
1:A1:409:G:OP1	38:BQ:64:ARG:NH1	2.32	0.61
21:C3:6:C:O2'	34:CM:50:ARG:NH2	2.32	0.61
22:CA:254:LYS:O	22:CA:258:LYS:HG3	2.00	0.61
22:CA:5:ILE:HG22	22:CA:6:ARG:N	2.15	0.61
23:CB:27:GLY:HA2	23:CB:272:HIS:HE1	1.64	0.61
27:CF:149:ASP:OD2	27:CF:176:LYS:HG2	2.01	0.61
31:CJ:32:ASN:ND2	31:CJ:117:GLN:H	1.97	0.61
34:CM:250:VAL:HG12	34:CM:254:ILE:CD1	2.31	0.61
35:CN:110:ALA:O	35:CN:114:ILE:HG23	2.00	0.61
45:CX:60:ALA:HA	1:D1:1431:U:H5'	1.82	0.61
1:D1:1526:G:O2'	1:D1:1527:A:H5'	1.99	0.61
1:D1:1906:G:O2'	1:D1:1907:A:H5'	2.00	0.61
27:CF:233:LYS:HG2	1:D1:2522:A:H1'	1.82	0.61
1:D1:282:G:N2	1:D1:304:U:O4'	2.34	0.61
1:D1:2994:G:O2'	1:D1:2995:A:O5'	2.17	0.61
1:D1:3044:A:C4'	1:D1:3045:A:OP2	2.49	0.61
12:DM:75:LYS:HE2	12:DM:105:TYR:CE2	2.35	0.61
14:DO:16:LEU:HD13	14:DO:35:ASN:ND2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:EA:20:HIS:HD2	22:EA:193:LYS:O	1.83	0.61
31:EJ:83:ILE:HD11	31:EJ:105:VAL:CG2	2.30	0.61
33:EL:183:SER:CA	33:EL:191:ASN:ND2	2.59	0.61
43:EV:63:LYS:O	43:EV:67:ARG:HG3	2.01	0.61
1:F1:1537:U:H5'	1:F1:1538:U:H5	1.63	0.61
1:F1:169:A:N7	1:F1:250:U:O4	2.33	0.61
1:F1:316:A:C2	1:F1:317:A:C4	2.89	0.61
1:F1:3332:A:H3'	1:F1:3333:G:C5'	2.29	0.61
1:F1:432:G:H4'	1:F1:433:C:OP1	2.01	0.61
1:F1:605:C:H1'	19:FX:6:ALA:HB2	1.83	0.61
1:F1:972:U:H2'	1:F1:973:C:C6	2.36	0.61
1:F1:2641:U:H5'	4:FC:63:THR:HG21	1.82	0.61
7:FG:13:LYS:CD	7:FG:100:ILE:CD1	2.75	0.61
10:FK:99:CYS:O	10:FK:100:TYR:HB2	1.99	0.61
27:GF:121:LYS:HD3	1:H1:118:A:C5	2.35	0.61
31:GJ:83:ILE:HD11	31:GJ:105:VAL:CG2	2.30	0.61
34:GM:166:ALA:CB	34:GM:173:ILE:HD11	2.29	0.61
35:GN:25:VAL:CG1	14:HO:7:GLU:CB	2.78	0.61
43:GV:15:ARG:HG2	43:GV:16:ASP:N	2.14	0.61
34:GM:3:PHE:CZ	1:H1:1041:C:C2	2.84	0.61
1:H1:1167:G:H2'	1:H1:1168:C:H6	1.65	0.61
1:H1:1839:A:H4'	1:H1:1840:U:O5'	2.01	0.61
1:H1:666:U:H5	50:H1:3747:HOH:O	1.83	0.61
2:HA:21:ARG:CZ	2:HA:44:MET:HE1	2.30	0.61
6:HF:8:GLN:NE2	6:HF:11:ARG:HH11	1.97	0.61
14:HO:94:ILE:HD12	14:HO:111:LEU:HD12	1.82	0.61
15:HP:32:TYR:CE2	15:HP:75:ILE:HD12	2.36	0.61
1:A1:2244:G:H2'	1:A1:2245:G:H8	1.65	0.61
1:A1:2597:G:O2'	33:BL:79:ILE:HD12	1.99	0.61
1:A1:278:U:O2'	33:BL:188:ARG:NH2	2.34	0.61
1:A1:284:U:O2	1:A1:284:U:H2'	1.99	0.61
1:A1:3190:A:N6	1:A1:3191:G:N2	2.48	0.61
1:A1:637:U:O2'	1:A1:638:U:H5'	2.00	0.61
1:A1:705:A:O2'	1:A1:706:U:H5'	2.00	0.61
1:A1:3227:A:N1	5:AE:150:LYS:HD3	2.15	0.61
6:AF:12:VAL:HG11	6:AF:81:LEU:HD11	1.82	0.61
1:A1:3110:U:OP2	10:AK:111:ARG:NH1	2.32	0.61
21:B3:81:A:H2'	21:B3:82:G:H5''	1.80	0.61
22:BA:219:HIS:CA	50:BA:304:HOH:O	2.43	0.61
23:BB:377:PHE:HD2	23:BB:378:PHE:CD1	2.19	0.61
29:BH:139:ARG:CG	29:BH:173:PHE:HE1	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B3:10:C:C5	34:BM:20:TYR:CE1	2.89	0.61
43:BV:15:ARG:HG2	43:BV:16:ASP:N	2.14	0.61
46:BY:8:VAL:HG13	46:BY:11:THR:HB	1.82	0.61
20:C2:114:G:H3'	20:C2:114:G:C8	2.34	0.61
21:C3:69:G:H2'	21:C3:70:G:H8	1.64	0.61
23:CB:162:THR:O	23:CB:174:ASN:CB	2.46	0.61
24:CC:163:VAL:HA	24:CC:166:TYR:HE2	1.62	0.61
27:CF:170:PHE:O	27:CF:215:TYR:CD2	2.54	0.61
32:CK:75:VAL:HG23	32:CK:109:PHE:CB	2.30	0.61
1:D1:1159:C:O2'	1:D1:1160:A:H5'	2.01	0.61
1:D1:164:A:H2'	1:D1:165:C:H5'	1.83	0.61
1:D1:1737:A:H2'	1:D1:1754:G:N2	2.16	0.61
1:D1:1922:G:H2'	1:D1:1923:G:O5'	2.01	0.61
1:D1:2106:G:O6	50:D1:4669:HOH:O	2.14	0.61
1:D1:2202:A:H2'	1:D1:2203:A:O4'	2.01	0.61
1:D1:2720:G:O2'	1:D1:2721:G:H5'	2.00	0.61
1:D1:314:C:H2'	1:D1:315:U:C6	2.35	0.61
1:D1:39:G:H2'	1:D1:40:C:H5'	1.81	0.61
21:E3:69:G:H2'	21:E3:70:G:H8	1.66	0.61
22:EA:30:TYR:HB3	22:EA:164:ARG:HH11	1.66	0.61
23:EB:81:CYS:HB3	23:EB:203:VAL:CG2	2.29	0.61
28:EG:4:UNK:CG	28:EG:6:UNK:HG2	2.26	0.61
32:EK:75:VAL:HG23	32:EK:109:PHE:HB3	1.81	0.61
35:EN:45:PHE:CE2	35:EN:49:ILE:HD11	2.35	0.61
45:EX:99:ALA:HB1	45:EX:101:ASN:OD1	2.01	0.61
1:F1:1207:A:O2'	1:F1:1208:U:P	2.58	0.61
1:F1:1413:G:C2'	1:F1:1414:C:H5'	2.30	0.61
1:F1:155:A:H4'	1:F1:156:A:OP1	1.99	0.61
1:F1:1595:A:H1'	1:F1:1599:G:N1	2.15	0.61
1:F1:2245:G:N7	50:F1:4294:HOH:O	2.31	0.61
1:F1:2246:G:H2'	1:F1:2247:A:C8	2.34	0.61
1:F1:2344:U:C6	1:F1:2344:U:H5'	2.32	0.61
1:F1:3177:G:H8	1:F1:3177:G:H5''	1.65	0.61
7:FG:40:LYS:O	7:FG:65:ILE:HG23	2.00	0.61
19:FX:94:LYS:HG2	19:FX:136:GLN:HB3	1.82	0.61
22:GA:104:PRO:HG2	22:GA:107:ARG:HG3	1.81	0.61
23:GB:19:ARG:O	23:GB:271:HIS:CE1	2.52	0.61
24:GC:50:LYS:HD2	24:GC:116:VAL:HG11	1.83	0.61
24:GC:289:LEU:HD12	35:GN:24:ASN:HD22	1.65	0.61
25:GD:120:THR:HG22	25:GD:120:THR:O	2.00	0.61
36:GO:144:VAL:O	36:GO:147:ALA:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:GQ:36:ARG:NH1	38:GQ:64:ARG:HG3	2.15	0.61
38:GQ:72:THR:CG2	38:GQ:74:GLN:HG3	2.30	0.61
43:GV:211:PHE:HB3	43:GV:223:ASP:OD2	1.99	0.61
46:GY:10:ILE:HD11	46:GY:30:GLU:CB	2.29	0.61
1:H1:1397:G:OP2	50:H1:3996:HOH:O	2.16	0.61
39:GR:79:LYS:NZ	1:H1:1548:U:OP1	2.27	0.61
1:H1:1587:A:H4'	1:H1:1588:A:OP2	1.99	0.61
1:H1:1599:G:O2'	1:H1:1600:U:H5'	2.00	0.61
1:H1:2100:A:C2	1:H1:2101:G:C8	2.89	0.61
1:H1:2343:A:H3'	1:H1:2344:U:C5'	2.31	0.61
1:H1:2412:U:C2'	1:H1:2413:G:H5''	2.30	0.61
1:H1:2550:U:H4'	1:H1:2551:A:OP2	2.01	0.61
1:H1:3128:G:C5'	1:H1:3128:G:H8	2.11	0.61
1:H1:3228:U:C4'	1:H1:3229:C:C5'	2.76	0.61
24:GC:55:VAL:HG13	1:H1:345:C:OP1	2.00	0.61
20:G2:96:A:N1	2:HA:85:ALA:HA	2.15	0.61
6:HF:43:ILE:HG22	6:HF:44:VAL:O	2.01	0.61
45:GX:77:LEU:H	14:HO:19:ASN:HD21	1.49	0.61
1:A1:1776:G:O2'	1:A1:1777:A:H5'	2.01	0.61
1:A1:1839:A:H4'	1:A1:1840:U:O5'	2.00	0.61
1:A1:184:C:H2'	1:A1:185:A:C8	2.35	0.61
1:A1:2540:G:C4'	1:A1:2541:U:OP2	2.47	0.61
1:A1:312:U:H2'	1:A1:313:U:C6	2.36	0.61
1:A1:3227:A:C5'	5:AE:57:ARG:NH1	2.59	0.61
1:A1:970:C:O4'	1:A1:1433:A:H1'	2.01	0.61
4:AC:26:TYR:HB3	4:AC:67:ALA:HB3	1.81	0.61
5:AE:161:LEU:O	5:AE:165:LYS:HB2	2.00	0.61
7:AG:71:VAL:O	7:AG:71:VAL:HG12	2.00	0.61
8:AH:23:PHE:CD2	8:AH:32:SER:HA	2.35	0.61
18:AU:59:GLN:O	18:AU:59:GLN:HG2	1.98	0.61
18:AU:74:THR:HB	18:AU:101:ASN:HD21	1.66	0.61
19:AX:96:GLN:NE2	21:B3:93:G:H4'	2.16	0.61
20:B2:13:A:H2'	20:B2:14:C:C6	2.36	0.61
28:BG:4:UNK:CG	28:BG:6:UNK:HG2	2.22	0.61
32:BK:118:LEU:HB3	32:BK:141:VAL:HG21	1.83	0.61
1:A1:114:A:OP2	33:BL:5:LYS:HB2	2.01	0.61
35:BN:155:ALA:HB3	35:BN:158:GLN:CD	2.20	0.61
35:BN:18:ARG:NH1	35:BN:56:SER:HA	2.15	0.61
39:BR:94:VAL:HG11	39:BR:103:ILE:HD11	1.83	0.61
1:A1:1376:A:C3'	43:BV:12:LYS:CE	2.77	0.61
43:BV:115:ARG:HH21	43:BV:192:PHE:HB3	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1431:U:H5'	45:BX:60:ALA:HA	1.83	0.61
20:C2:26:A:H3'	20:C2:27:G:C5'	2.31	0.61
23:CB:117:ARG:NH1	23:CB:174:ASN:O	2.33	0.61
27:CF:95:GLU:OE1	27:CF:100:LYS:HG2	2.01	0.61
33:CL:26:ARG:O	33:CL:30:TYR:CD1	2.53	0.61
47:CO:166:UNK:O	47:CO:169:UNK:HG3	2.00	0.61
45:CX:36:ARG:NH2	1:D1:1395:U:OP1	2.33	0.61
46:CY:8:VAL:HG13	46:CY:11:THR:HB	1.81	0.61
1:D1:1132:U:H2'	1:D1:1133:G:H8	1.65	0.61
1:D1:1656:G:C5	1:D1:1657:C:C5	2.89	0.61
22:CA:70:TYR:HD2	1:D1:1674:C:C4'	2.12	0.61
1:D1:2244:G:H2'	1:D1:2245:G:H8	1.64	0.61
1:D1:2294:A:OP2	50:D1:4622:HOH:O	2.16	0.61
1:D1:296:G:H5''	1:D1:297:U:OP1	2.01	0.61
1:D1:3143:A:C2	1:D1:3250:A:C2	2.89	0.61
1:D1:633:C:H3'	5:DE:30:ARG:HH22	1.64	0.61
1:D1:926:A:H2'	1:D1:927:G:H8	1.64	0.61
7:DG:95:ALA:CB	7:DG:101:LEU:HD11	2.28	0.61
7:DG:71:VAL:HG12	7:DG:71:VAL:O	2.01	0.61
7:DG:8:ASP:HA	7:DG:11:GLN:NE2	2.16	0.61
21:E3:33:U:C2	34:EM:212:TYR:CD1	2.88	0.61
23:EB:55:HIS:HD2	23:EB:55:HIS:H	1.46	0.61
27:EF:92:TYR:HE2	27:EF:123:ILE:HG21	1.65	0.61
27:EF:149:ASP:OD1	27:EF:176:LYS:HD3	2.01	0.61
26:EE:2:ARG:HH12	30:EI:129:ARG:NH2	1.98	0.61
31:EJ:108:ASN:HD21	31:EJ:110:LYS:HB2	1.66	0.61
33:EL:45:PRO:O	33:EL:49:ARG:HG3	2.01	0.61
33:EL:88:GLY:C	33:EL:89:ILE:HG12	2.21	0.61
34:EM:35:ARG:HB2	1:F1:2737:A:C2	2.36	0.61
46:EY:71:LEU:HD12	46:EY:71:LEU:O	2.01	0.61
1:F1:1358:U:H4'	1:F1:1359:A:OP2	2.00	0.61
1:F1:1366:C:H2'	1:F1:1367:A:H8	1.63	0.61
1:F1:1595:A:O2'	1:F1:1598:C:N4	2.33	0.61
36:EO:128:LYS:NZ	1:F1:1745:U:O4	2.30	0.61
1:F1:2150:U:H5'	1:F1:2150:U:H6	1.65	0.61
1:F1:3044:A:H2'	1:F1:3074:G:N1	2.15	0.61
1:F1:446:G:H2'	1:F1:447:G:H8	1.66	0.61
1:F1:449:G:H2'	1:F1:450:C:C6	2.35	0.61
2:FA:15:THR:OG1	2:FA:16:HIS:CD2	2.54	0.61
5:FE:122:ALA:HB2	5:FE:134:LEU:HD23	1.82	0.61
16:FQ:15:THR:CG2	18:FU:103:CYS:SG	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:709:G:OP1	18:FU:37:ARG:NH2	2.33	0.61
20:G2:77:U:C4	40:GS:73:TYR:CE2	2.87	0.61
22:GA:105:ILE:CG2	22:GA:147:THR:HG21	2.30	0.61
22:GA:160:PRO:HG2	22:GA:163:CYS:HG	1.65	0.61
24:GC:166:TYR:O	24:GC:222:THR:HB	2.00	0.61
27:GF:124:VAL:HG12	27:GF:125:LEU:O	1.99	0.61
30:GI:61:MET:HE3	30:GI:67:ARG:O	2.00	0.61
37:GP:116:LYS:HE3	37:GP:128:THR:OG1	2.01	0.61
41:GT:23:PHE:HE1	41:GT:25:ALA:HB2	1.66	0.61
46:GY:12:ARG:HD2	46:GY:12:ARG:O	2.01	0.61
37:GP:13:LYS:CD	1:H1:1020:G:H3'	2.28	0.61
1:H1:1507:A:O4'	1:H1:1507:A:OP2	2.19	0.61
1:H1:1902:C:H2'	1:H1:1903:A:O4'	2.00	0.61
1:H1:1921:G:H2'	1:H1:1922:G:H5'	1.83	0.61
1:H1:1937:G:N3	1:H1:2116:A:H2'	2.16	0.61
1:H1:622:G:C4'	1:H1:623:G:OP2	2.47	0.61
6:HF:56:THR:HG22	6:HF:56:THR:O	2.00	0.61
9:HJ:145:ASN:ND2	9:HJ:146:VAL:H	1.97	0.61
14:HO:40:LEU:O	14:HO:44:HIS:CE1	2.53	0.61
16:HQ:44:VAL:O	16:HQ:48:VAL:HG23	2.01	0.61
42:GU:123:LYS:HZ1	18:HU:144:SER:HB2	1.66	0.61
19:HX:5:ALA:O	19:HX:8:GLU:HG3	2.01	0.61
1:A1:1132:U:H2'	1:A1:1133:G:H8	1.66	0.61
1:A1:2425:A:H2'	1:A1:2426:C:C6	2.34	0.61
1:A1:273:G:P	50:A1:3834:HOH:O	2.44	0.61
1:A1:25:C:H1'	1:A1:327:U:H1'	1.83	0.61
1:A1:376:A:H62	1:A1:398:G:H2'	1.66	0.61
1:A1:513:G:H2'	1:A1:514:U:H6	1.65	0.61
1:A1:869:G:H2'	1:A1:870:G:O4'	2.00	0.61
12:AM:45:VAL:CB	12:AM:51:ASN:HD21	2.10	0.61
20:B2:22:A:H2'	20:B2:23:U:C6	2.35	0.61
1:A1:2145:A:H4'	22:BA:180:ILE:O	2.00	0.61
25:BD:120:THR:HG22	25:BD:120:THR:O	2.01	0.61
25:BD:50:ALA:HB1	25:BD:59:ILE:HG23	1.83	0.61
27:BF:36:GLN:HG3	27:BF:37:PRO:CD	2.29	0.61
18:AU:164:LYS:CE	32:BK:100:PRO:HA	2.31	0.61
32:BK:75:VAL:HG23	32:BK:109:PHE:CB	2.30	0.61
34:BM:129:TYR:CE1	34:BM:175:HIS:O	2.49	0.61
35:BN:110:ALA:O	35:BN:114:ILE:HG23	2.00	0.61
35:BN:19:GLN:HA	35:BN:19:GLN:OE1	2.00	0.61
39:BR:81:MET:O	39:BR:85:GLU:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:253:GLU:OE1	22:CA:253:GLU:HA	2.00	0.61
26:CE:7:GLU:CD	26:CE:54:LYS:HE2	2.21	0.61
27:CF:20:PRO:HB2	27:CF:22:PHE:HD2	1.66	0.61
27:CF:96:LYS:HB3	27:CF:97:PRO:HD2	1.81	0.61
30:CI:81:ARG:HH22	1:D1:2378:A:P	2.23	0.61
31:CJ:32:ASN:HD21	31:CJ:116:SER:H	1.49	0.61
20:C2:74:A:H5'	40:CS:50:ARG:CG	2.31	0.61
41:CT:41:LEU:HD13	41:CT:51:ILE:HD13	1.81	0.61
1:D1:1049:U:C5	1:D1:1050:C:C4	2.89	0.61
1:D1:1227:A:H2'	1:D1:1227:A:N3	2.15	0.61
1:D1:132:U:O2'	1:D1:133:C:OP2	2.17	0.61
1:D1:1593:A:C5	1:D1:1594:C:C4	2.88	0.61
1:D1:2188:U:HO2'	1:D1:2189:G:P	2.23	0.61
1:D1:2558:U:H2'	1:D1:2559:U:O4'	2.01	0.61
1:D1:2865:G:H2'	1:D1:2866:G:C8	2.35	0.61
1:D1:453:A:H2'	1:D1:454:A:C8	2.35	0.61
1:D1:644:A:H2'	1:D1:645:A:H4'	1.83	0.61
5:DE:41:LEU:HD13	5:DE:45:ILE:CD1	2.20	0.61
6:DF:8:GLN:NE2	6:DF:11:ARG:NH1	2.49	0.61
8:DH:15:TRP:CH2	8:DH:105:ARG:CZ	2.83	0.61
15:DP:12:MET:HG2	15:DP:15:TRP:HE1	1.63	0.61
19:DX:16:MET:HG2	19:DX:17:LYS:H	1.65	0.61
24:EC:69:ALA:HB3	24:EC:97:PHE:CZ	2.35	0.61
25:ED:120:THR:HG22	25:ED:120:THR:O	2.01	0.61
25:ED:9:MET:O	25:ED:134:PRO:HG3	2.01	0.61
27:EF:230:LEU:HD12	27:EF:235:GLN:OE1	1.99	0.61
35:EN:19:GLN:HA	35:EN:19:GLN:OE1	2.00	0.61
1:F1:1061:G:N3	1:F1:1062:A:C8	2.69	0.61
1:F1:1184:U:H6	1:F1:1184:U:C5'	2.13	0.61
1:F1:133:C:O2	1:F1:133:C:H2'	2.00	0.61
1:F1:2177:A:C2'	1:F1:2178:A:H5''	2.31	0.61
1:F1:2330:G:P	50:F1:4308:HOH:O	2.59	0.61
1:F1:3106:C:C3'	1:F1:3107:C:H5'	2.31	0.61
1:F1:405:A:OP2	50:F1:3750:HOH:O	2.16	0.61
24:EC:49:ARG:NH2	1:F1:713:G:N2	2.47	0.61
1:F1:960:U:O2'	50:F1:3660:HOH:O	2.16	0.61
12:FM:110:PHE:O	12:FM:111:ASN:HB2	2.00	0.61
20:G2:144:U:H2'	20:G2:145:C:H5''	1.83	0.61
21:G3:5:U:H2'	21:G3:6:C:C6	2.36	0.61
22:GA:29:GLN:OE1	22:GA:124:ARG:NH2	2.34	0.61
22:GA:33:TYR:HA	22:GA:164:ARG:HH21	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:GB:24:HIS:CE1	23:GB:28:ARG:NH1	2.66	0.61
28:GG:81:UNK:N	1:H1:1309:G:H4'	2.16	0.61
1:H1:1548:U:H4'	1:H1:1549:U:OP2	2.00	0.61
1:H1:2860:A:N3	1:H1:2860:A:H5'	2.16	0.61
1:H1:467:A:N6	1:H1:468:A:N1	2.49	0.61
9:HJ:77:ASN:HB3	9:HJ:80:GLU:CG	2.30	0.61
42:GU:120:PHE:HE2	18:HU:90:SER:O	1.82	0.61
1:A1:1146:C:H42	17:AT:10:LYS:HZ3	1.48	0.61
1:A1:1404:G:H5'	1:A1:1434:G:O2'	1.98	0.61
1:A1:1599:G:O2'	1:A1:1600:U:H5'	1.99	0.61
1:A1:1956:A:H2'	1:A1:1957:A:H5'	1.82	0.61
1:A1:2649:G:OP1	1:A1:2739:C:O2'	2.18	0.61
1:A1:3108:U:H2'	1:A1:3109:C:H5'	1.83	0.61
1:A1:3168:A:OP1	1:A1:3168:A:C8	2.52	0.61
1:A1:497:G:O2'	1:A1:498:A:H5'	2.01	0.61
4:AC:44:LYS:CD	4:AC:52:THR:HG21	2.17	0.61
5:AE:69:LEU:HD11	5:AE:114:ASP:H	1.65	0.61
1:A1:3227:A:O2'	5:AE:86:PRO:HG3	2.01	0.61
5:AE:86:PRO:O	5:AE:87:LEU:HD23	2.00	0.61
14:AO:75:THR:CG2	14:AO:77:GLU:HG2	2.31	0.61
20:B2:74:A:H5'	40:BS:50:ARG:HG3	1.83	0.61
22:BA:105:ILE:HG21	22:BA:147:THR:HG21	1.82	0.61
22:BA:30:TYR:HB3	22:BA:164:ARG:NH1	2.16	0.61
1:A1:712:G:H4'	24:BC:240:ARG:NH2	2.16	0.61
24:BC:405:ILE:HD11	29:BH:183:ARG:HE	1.64	0.61
1:A1:713:G:H21	24:BC:49:ARG:NH2	1.98	0.61
25:BD:38:LYS:HG2	25:BD:45:PRO:HD3	1.80	0.61
33:BL:184:LEU:HD23	33:BL:188:ARG:HD2	1.82	0.61
36:BO:98:ARG:NH1	36:BO:130:ASN:OD1	2.34	0.61
45:BX:98:ILE:H	45:BX:123:ASN:ND2	1.98	0.61
20:C2:1:A:H4'	20:C2:2:G:OP1	2.00	0.61
23:CB:216:LEU:HD21	23:CB:274:THR:HG23	1.82	0.61
27:CF:132:ILE:O	27:CF:136:ILE:HG13	2.01	0.61
27:CF:149:ASP:OD1	27:CF:176:LYS:HD3	2.00	0.61
42:CU:74:PHE:HB3	42:CU:80:LYS:HG2	1.83	0.61
45:CX:11:ILE:HG13	45:CX:11:ILE:O	2.01	0.61
1:D1:1370:A:H2'	1:D1:1371:G:C5'	2.23	0.61
1:D1:1599:G:H2'	1:D1:1600:U:H5'	1.81	0.61
1:D1:1660:U:O2'	13:DN:79:HIS:CD2	2.52	0.61
1:D1:3106:C:C3'	1:D1:3107:C:H5'	2.30	0.61
1:D1:405:A:O2'	1:D1:406:A:H5'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:467:A:N6	1:D1:468:A:N1	2.48	0.61
35:CN:166:TYR:CE1	1:D1:692:A:H4'	2.36	0.61
1:D1:718:A:H2'	1:D1:719:C:C6	2.35	0.61
5:DE:124:LYS:HG2	5:DE:132:ALA:HB2	1.82	0.61
12:DM:66:ASN:ND2	12:DM:68:GLN:HE21	1.98	0.61
1:D1:114:A:O4'	16:DQ:37:ARG:NH1	2.34	0.61
18:DU:54:PRO:HD3	18:DU:73:PHE:CD2	2.35	0.61
22:EA:33:TYR:HA	22:EA:164:ARG:NH2	2.16	0.61
23:EB:25:HIS:HD2	23:EB:270:TYR:OH	1.84	0.61
26:EE:145:GLN:NE2	26:EE:186:MET:O	2.34	0.61
27:EF:176:LYS:HD2	27:EF:187:THR:HG21	1.81	0.61
43:EV:51:GLU:O	43:EV:54:ALA:HB3	2.00	0.61
1:F1:1942:C:C5'	1:F1:1942:C:H6	2.14	0.61
1:F1:2414:A:H2'	1:F1:2415:C:C6	2.36	0.61
1:F1:2743:G:H3'	1:F1:2744:C:H5'	1.80	0.61
1:F1:3190:A:N6	1:F1:3191:G:N2	2.49	0.61
1:F1:396:A:C2	1:F1:397:A:C4	2.89	0.61
5:FE:42:ARG:NH2	5:FE:92:GLN:O	2.33	0.61
9:FJ:117:ILE:HB	9:FJ:121:LEU:HD22	1.81	0.61
11:FL:5:ILE:CG2	11:FL:6:THR:N	2.61	0.61
12:FM:52:LEU:O	12:FM:56:ILE:HG22	2.00	0.61
22:GA:30:TYR:HB3	22:GA:164:ARG:HH11	1.65	0.61
25:GD:32:LYS:HD3	25:GD:119:SER:O	2.01	0.61
28:GG:4:UNK:CG	28:GG:6:UNK:HG2	2.25	0.61
29:GH:168:SER:OG	37:GP:157:PHE:O	2.18	0.61
35:GN:18:ARG:NH1	35:GN:56:SER:HA	2.15	0.61
36:GO:123:PHE:HD2	36:GO:138:LEU:HD11	1.64	0.61
43:GV:48:TYR:CE1	43:GV:183:HIS:CG	2.89	0.61
1:H1:1123:A:H4'	1:H1:1124:G:O5'	2.00	0.61
1:H1:1595:A:O2'	1:H1:1598:C:N4	2.32	0.61
1:H1:2804:G:N7	1:H1:2858:C:H5'	2.16	0.61
1:H1:3106:C:C3'	1:H1:3107:C:H5'	2.31	0.61
1:H1:399:A:H4'	1:H1:400:C:OP1	1.98	0.61
1:H1:534:U:H2'	1:H1:535:C:H6	1.65	0.61
14:HO:75:THR:CG2	14:HO:77:GLU:HG2	2.30	0.61
35:GN:29:LEU:HD21	14:HO:7:GLU:HG3	1.83	0.61
1:A1:1149:U:H2'	1:A1:1150:U:H5'	1.82	0.61
1:A1:1432:G:OP1	50:A1:3920:HOH:O	2.16	0.61
1:A1:1684:C:O2'	1:A1:1685:A:H5'	2.01	0.61
1:A1:1770:A:H2'	1:A1:1771:U:C6	2.35	0.61
1:A1:2597:G:OP1	22:BA:2:GLY:HA2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:281:G:O6	33:BL:182:LYS:HE2	2.01	0.61
1:A1:2876:U:C4	1:A1:2899:C:C5	2.89	0.61
1:A1:3106:C:C3'	1:A1:3107:C:H5'	2.31	0.61
1:A1:70:C:O2	1:A1:70:C:C2'	2.45	0.61
1:A1:882:G:HO2'	1:A1:883:A:P	2.24	0.61
1:A1:933:G:OP1	50:A1:4010:HOH:O	2.16	0.61
8:AH:36:LEU:HD22	8:AH:81:HIS:CD2	2.34	0.61
19:AX:16:MET:HG2	19:AX:17:LYS:N	2.16	0.61
1:A1:2979:A:OP1	23:BB:20:ARG:HB2	2.00	0.61
21:B3:10:C:N3	34:BM:20:TYR:HD1	1.98	0.61
34:BM:76:CYS:C	34:BM:105:LEU:HD11	2.21	0.61
35:BN:82:VAL:HA	35:BN:102:CYS:O	2.00	0.61
36:BO:106:LEU:HB3	36:BO:120:TYR:CE1	2.35	0.61
46:BY:57:CYS:SG	46:BY:59:PRO:HG2	2.40	0.61
20:C2:145:C:H2'	20:C2:146:A:H8	1.66	0.61
22:CA:104:PRO:HG2	22:CA:107:ARG:HG3	1.83	0.61
22:CA:5:ILE:HG22	22:CA:6:ARG:H	1.65	0.61
23:CB:375:ASP:HB3	23:CB:380:ARG:O	2.01	0.61
29:CH:43:VAL:HG11	29:CH:197:VAL:CG2	2.31	0.61
39:CR:77:THR:HG22	1:D1:1546:G:H5''	1.82	0.61
42:CU:109:GLN:HA	42:CU:109:GLN:OE1	2.01	0.61
44:CW:72:VAL:CG1	44:CW:92:VAL:HG13	2.31	0.61
46:CY:56:LYS:HG2	46:CY:63:ILE:HG12	1.83	0.61
1:D1:114:A:H2'	1:D1:115:G:C8	2.35	0.61
1:D1:1919:A:H8	1:D1:1919:A:H5'	1.66	0.61
1:D1:2600:U:H2'	1:D1:2601:U:H6	1.63	0.61
23:CB:270:TYR:HD2	1:D1:3265:A:H5'	1.65	0.61
1:D1:976:A:OP2	1:D1:1394:G:N2	2.33	0.61
11:DL:41:TYR:HB3	11:DL:58:GLN:HE21	1.60	0.61
1:D1:801:U:H5'	17:DT:37:PRO:CB	2.30	0.61
23:EB:37:PRO:HA	23:EB:184:GLY:CA	2.26	0.61
24:EC:295:ILE:HG23	35:EN:33:LEU:HD13	1.83	0.61
24:EC:405:ILE:HD11	29:EH:183:ARG:HE	1.65	0.61
33:EL:182:LYS:HG2	33:EL:183:SER:H	1.66	0.61
33:EL:187:SER:O	33:EL:190:GLY:N	2.34	0.61
37:EP:142:GLN:OE1	43:EV:71:ALA:HB2	2.01	0.61
44:EW:50:ILE:HG23	44:EW:54:LEU:HD23	1.83	0.61
1:F1:1737:A:H2'	1:F1:1754:G:N2	2.16	0.61
1:F1:3175:A:H2'	1:F1:3177:G:C8	2.35	0.61
1:F1:645:A:N3	1:F1:645:A:H2'	2.16	0.61
9:FJ:119:PRO:HG2	9:FJ:146:VAL:HG12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:71:LEU:HD13	9:FJ:97:ILE:HD11	1.83	0.61
14:FO:16:LEU:HD13	14:FO:35:ASN:ND2	2.14	0.61
20:G2:22:A:H2'	20:G2:23:U:C6	2.36	0.61
20:G2:50:C:H1'	20:G2:64:A:H2'	1.82	0.61
21:G3:105:C:H6	21:G3:105:C:C5'	2.14	0.61
23:GB:81:CYS:HB3	23:GB:203:VAL:CG2	2.30	0.61
30:GI:79:PHE:HD2	30:GI:103:ILE:HD13	1.65	0.61
33:GL:38:LYS:HB2	33:GL:62:TRP:CE2	2.36	0.61
36:GO:106:LEU:CD2	36:GO:138:LEU:HD21	2.29	0.61
1:H1:1248:G:H4'	1:H1:1249:G:OP2	2.00	0.61
1:H1:152:U:H5'	1:H1:153:C:OP2	2.01	0.61
22:GA:70:TYR:CE1	1:H1:2549:U:C6	2.87	0.61
1:H1:282:G:N2	1:H1:304:U:H5'	2.15	0.61
1:H1:582:A:H2'	1:H1:583:G:H5'	1.82	0.61
8:HH:15:TRP:CH2	8:HH:105:ARG:CZ	2.83	0.61
8:HH:59:ILE:HG13	8:HH:59:ILE:O	1.99	0.61
14:HO:75:THR:HG21	14:HO:77:GLU:CD	2.21	0.61
1:A1:1434:G:C2'	1:A1:1435:C:C5'	2.73	0.61
1:A1:2265:A:C8	1:A1:2265:A:H5''	2.35	0.61
1:A1:2419:A:N1	22:BA:231:SER:OG	2.34	0.61
1:A1:2737:A:H2'	1:A1:2738:G:H5'	1.83	0.61
1:A1:467:A:N6	1:A1:468:A:N1	2.48	0.61
1:A1:69:A:C6	1:A1:2766:A:O4'	2.54	0.61
6:AF:43:ILE:HG22	6:AF:44:VAL:O	2.01	0.61
9:AJ:117:ILE:HB	9:AJ:121:LEU:HD22	1.82	0.61
1:A1:2546:A:O2'	11:AL:90:ARG:HD3	2.00	0.61
12:AM:52:LEU:O	12:AM:56:ILE:HG22	2.01	0.61
15:AP:8:ILE:O	15:AP:12:MET:HG3	2.01	0.61
1:A1:3257:U:OP1	23:BB:120:LYS:HD2	2.01	0.61
24:BC:298:ILE:O	24:BC:304:VAL:HG21	2.01	0.61
24:BC:42:PHE:CZ	24:BC:46:ASN:ND2	2.69	0.61
33:BL:19:MET:HE2	33:BL:22:ILE:HD12	1.81	0.61
28:CG:33:UNK:HG3	28:CG:36:UNK:CG	2.31	0.61
31:CJ:86:ARG:H	31:CJ:102:ASN:HD21	1.48	0.61
35:CN:34:TYR:O	35:CN:38:VAL:HG23	2.00	0.61
37:CP:110:GLN:HG2	1:D1:1093:C:O2'	2.01	0.61
45:CX:36:ARG:O	45:CX:36:ARG:HG3	2.00	0.61
1:D1:1321:A:OP1	19:DX:99:THR:HG21	2.00	0.61
1:D1:1507:A:O2'	1:D1:1882:A:C2'	2.45	0.61
1:D1:1902:C:H2'	1:D1:1903:A:O4'	2.01	0.61
1:D1:210:A:O2'	1:D1:229:A:O2'	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2353:C:H2'	1:D1:2353:C:O2	2.00	0.61
6:DF:8:GLN:NE2	6:DF:11:ARG:HH11	1.96	0.61
7:DG:13:LYS:HG2	7:DG:14:LEU:N	2.16	0.61
15:DP:74:LYS:O	15:DP:74:LYS:HG3	2.00	0.61
19:DX:45:ALA:HB1	19:DX:50:HIS:CD2	2.36	0.61
22:EA:20:HIS:ND1	1:F1:848:C:H5'	2.16	0.61
23:EB:85:THR:HB	23:EB:161:HIS:HB3	1.83	0.61
26:EE:141:THR:HG22	26:EE:142:LEU:N	2.16	0.61
29:EH:139:ARG:CG	29:EH:173:PHE:HE1	2.14	0.61
41:ET:22:ARG:NE	41:ET:32:PHE:CD2	2.69	0.61
39:ER:147:ILE:CG2	42:EU:34:ILE:HD13	2.31	0.61
45:EX:42:ASN:HD22	45:EX:45:ARG:N	1.91	0.61
37:EP:116:LYS:NZ	1:F1:1124:G:C8	2.66	0.61
1:F1:1598:C:H3'	1:F1:1599:G:C8	2.33	0.61
1:F1:2545:A:O2'	1:F1:2546:A:OP1	2.19	0.61
1:F1:3127:U:H2'	1:F1:3128:G:C5'	2.21	0.61
1:F1:582:A:H2'	1:F1:583:G:H5'	1.82	0.61
1:F1:620:A:C8	1:F1:634:G:C6	2.89	0.61
1:F1:690:U:H2'	1:F1:691:C:C6	2.36	0.61
1:F1:842:A:H8	2:FA:15:THR:CG2	2.14	0.61
20:G2:110:A:C2	20:G2:115:G:C6	2.88	0.61
30:GI:16:GLY:O	30:GI:19:ALA:HB3	2.00	0.61
34:GM:109:LEU:HD21	34:GM:142:PHE:CE2	2.36	0.61
34:GM:81:TYR:O	34:GM:84:LYS:HB2	2.01	0.61
35:GN:82:VAL:O	35:GN:139:LEU:HD12	2.01	0.61
35:GN:151:HIS:ND1	35:GN:164:ALA:O	2.29	0.61
42:GU:81:PRO:HD2	42:GU:84:ILE:HD12	1.83	0.61
1:H1:1047:G:C2'	1:H1:1048:U:H5''	2.30	0.61
1:H1:1594:C:C5	1:H1:1595:A:N7	2.69	0.61
1:H1:2255:U:H2'	1:H1:2256:G:H8	1.66	0.61
1:H1:2276:A:H1'	1:H1:2962:U:O2'	2.00	0.61
1:H1:3135:A:H2'	1:H1:3136:A:H8	1.66	0.61
1:H1:629:A:H1'	1:H1:630:G:N7	2.15	0.61
6:HF:103:LEU:HD22	6:HF:107:ASP:HB3	1.83	0.61
6:HF:32:ASN:OD1	6:HF:33:GLN:N	2.33	0.61
1:A1:2133:U:C5	1:A1:2138:A:N7	2.69	0.60
1:A1:2255:U:HO2'	1:A1:2301:C:H5''	1.66	0.60
1:A1:2804:G:N7	1:A1:2858:C:H5'	2.16	0.60
1:A1:3112:A:C2'	1:A1:3113:G:H5'	2.31	0.60
1:A1:3177:G:H8	1:A1:3177:G:H5''	1.66	0.60
5:AE:15:ILE:HA	5:AE:18:TRP:NE1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:8:ASP:OD1	7:AG:9:ASN:N	2.33	0.60
1:A1:1104:C:N1	17:AT:42:ASN:ND2	2.49	0.60
18:AU:87:PHE:CE2	18:AU:91:ILE:HD11	2.35	0.60
20:B2:33:C:H2'	20:B2:34:G:H5'	1.81	0.60
20:B2:50:C:H1'	20:B2:64:A:H2'	1.82	0.60
1:A1:634:G:N7	24:BC:319:ARG:NE	2.48	0.60
33:BL:165:THR:O	33:BL:169:ARG:HG3	2.01	0.60
34:BM:249:LYS:O	34:BM:253:GLU:HG2	2.01	0.60
36:BO:165:LYS:HZ3	1:H1:2893:U:H1'	1.65	0.60
36:BO:24:LEU:CD2	36:BO:50:VAL:HG22	2.31	0.60
42:BU:109:GLN:HA	42:BU:109:GLN:OE1	2.00	0.60
23:CB:211:GLU:O	23:CB:280:VAL:HG23	2.01	0.60
23:CB:281:TYR:HB2	23:CB:321:MET:HE3	1.83	0.60
25:CD:120:THR:O	25:CD:120:THR:HG22	2.01	0.60
26:CE:29:GLY:N	26:CE:82:VAL:HG11	2.16	0.60
33:CL:58:GLY:O	33:CL:142:ILE:HD11	2.01	0.60
45:CX:98:ILE:N	45:CX:123:ASN:ND2	2.46	0.60
1:D1:126:A:C2	1:D1:141:C:N4	2.68	0.60
1:D1:1562:G:C8	50:D1:4137:HOH:O	2.49	0.60
1:D1:1684:C:O2'	1:D1:1685:A:H5'	2.01	0.60
1:D1:1918:U:C2'	1:D1:1919:A:C5'	2.66	0.60
1:D1:2550:U:H4'	1:D1:2551:A:OP2	1.98	0.60
1:D1:3227:A:C2'	1:D1:3228:U:OP2	2.48	0.60
5:DE:42:ARG:NH1	8:DH:111:ASN:ND2	2.49	0.60
17:DT:20:GLY:O	50:DT:103:HOH:O	2.16	0.60
23:EB:162:THR:O	23:EB:174:ASN:CB	2.45	0.60
23:EB:55:HIS:CE1	41:ET:18:GLY:HA3	2.36	0.60
27:EF:169:PRO:HB2	27:EF:211:PHE:HB2	1.83	0.60
32:EK:143:GLY:N	18:FU:173:ARG:HH21	1.99	0.60
24:EC:308:VAL:HG12	35:EN:40:ARG:HH11	1.62	0.60
42:EU:98:LYS:NZ	1:F1:242:G:H5'	2.15	0.60
45:EX:44:VAL:HG12	45:EX:54:MET:CE	2.31	0.60
24:EC:74:THR:CG2	1:F1:2397:A:H2'	2.22	0.60
1:F1:604:A:H8	1:F1:604:A:O5'	1.83	0.60
50:F1:4255:HOH:O	3:FB:48:LYS:HE3	1.99	0.60
6:FF:32:ASN:OD1	6:FF:33:GLN:N	2.34	0.60
6:FF:8:GLN:NE2	6:FF:11:ARG:HH11	1.98	0.60
24:GC:157:TYR:CD1	24:GC:159:PHE:HE1	2.16	0.60
24:GC:333:LEU:HD21	43:GV:161:THR:O	2.01	0.60
32:GK:14:HIS:CG	50:GK:202:HOH:O	2.52	0.60
34:GM:163:LEU:HD23	34:GM:180:PHE:CE2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:GO:98:ARG:NH1	36:GO:130:ASN:OD1	2.34	0.60
43:GV:72:PHE:CD1	43:GV:73:TYR:N	2.69	0.60
1:H1:114:A:H2'	1:H1:115:G:C8	2.36	0.60
1:H1:2120:U:O2'	1:H1:2121:A:H5'	2.01	0.60
1:H1:2275:A:HO2'	1:H1:2276:A:P	2.23	0.60
1:H1:2327:A:OP2	50:H1:4163:HOH:O	2.16	0.60
1:H1:672:C:N3	1:H1:2369:C:O2'	2.33	0.60
1:H1:2704:A:H4'	1:H1:2705:U:OP2	2.01	0.60
1:H1:2964:A:N6	50:H1:3969:HOH:O	2.33	0.60
1:H1:269:U:O2'	1:H1:317:A:H1'	2.01	0.60
1:H1:548:G:N2	1:H1:619:G:N2	2.47	0.60
1:H1:882:G:O2'	1:H1:883:A:O5'	2.18	0.60
32:GK:24:LYS:HD3	1:H1:967:U:O4	2.01	0.60
7:HG:8:ASP:HA	7:HG:11:GLN:NE2	2.15	0.60
8:HH:34:GLN:HB3	8:HH:88:VAL:HG13	1.83	0.60
12:HM:52:LEU:O	12:HM:56:ILE:HG22	2.01	0.60
1:A1:133:C:O2	1:A1:133:C:H2'	2.00	0.60
1:A1:1580:G:H8	1:A1:1580:G:O5'	1.84	0.60
1:A1:169:A:N7	1:A1:251:A:N6	2.49	0.60
1:A1:3096:U:OP1	10:AK:112:LYS:HD3	2.01	0.60
1:A1:3332:A:H3'	1:A1:3333:G:H5''	1.82	0.60
13:AN:23:ALA:HB2	13:AN:45:GLY:HA3	1.83	0.60
15:AP:32:TYR:CE2	15:AP:75:ILE:HD12	2.36	0.60
16:AQ:15:THR:CG2	18:AU:103:CYS:SG	2.88	0.60
24:BC:163:VAL:CG2	24:BC:175:PHE:HE2	2.13	0.60
25:BD:9:MET:O	25:BD:134:PRO:HG3	2.00	0.60
25:BD:89:MET:HA	25:BD:89:MET:HE3	1.82	0.60
27:BF:68:PRO:HD3	27:BF:225:TRP:NE1	2.15	0.60
28:BG:33:UNK:HG3	28:BG:36:UNK:CG	2.31	0.60
31:BJ:124:LYS:HG3	31:BJ:141:VAL:C	2.22	0.60
33:BL:115:VAL:HG22	33:BL:134:LEU:CD2	2.31	0.60
41:BT:22:ARG:NE	41:BT:32:PHE:HD2	1.97	0.60
42:BU:74:PHE:HB3	42:BU:80:LYS:HG2	1.83	0.60
20:C2:111:A:C2'	20:C2:112:G:H5''	2.30	0.60
24:CC:163:VAL:HG22	24:CC:175:PHE:HE2	1.65	0.60
27:CF:183:VAL:HG12	27:CF:183:VAL:O	2.01	0.60
34:CM:83:LEU:HB3	34:CM:88:VAL:HG21	1.82	0.60
43:CV:15:ARG:HG2	43:CV:16:ASP:N	2.15	0.60
43:CV:63:LYS:O	43:CV:67:ARG:HG3	2.02	0.60
1:D1:1179:G:O2'	1:D1:1180:A:OP1	2.15	0.60
1:D1:2120:U:O2'	1:D1:2121:A:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3044:A:H2'	1:D1:3074:G:N1	2.16	0.60
1:D1:3175:A:H62	6:DF:16:ASN:HD21	1.46	0.60
13:DN:114:LEU:HD22	13:DN:118:PHE:HE1	1.66	0.60
24:CC:152:VAL:HG12	14:DO:76:ILE:HD11	1.82	0.60
1:D1:488:U:H5	18:DU:161:LYS:HE2	1.66	0.60
20:E2:26:A:H3'	20:E2:27:G:C5'	2.31	0.60
20:E2:3:A:C4'	20:E2:4:A:OP2	2.50	0.60
29:EH:12:PRO:HA	29:EH:59:GLN:NE2	2.16	0.60
32:EK:98:LYS:HA	18:FU:166:VAL:HG23	1.84	0.60
33:EL:183:SER:CA	33:EL:191:ASN:HD22	2.14	0.60
33:EL:6:TYR:HA	16:FQ:45:ILE:CD1	2.30	0.60
34:EM:129:TYR:CE1	34:EM:175:HIS:O	2.51	0.60
44:EW:65:ASN:OD1	1:F1:3047:U:C5	2.48	0.60
1:F1:1941:C:H2'	1:F1:1942:C:H5''	1.83	0.60
1:F1:2899:C:C5'	1:F1:2900:G:OP1	2.49	0.60
1:F1:2966:U:O2'	1:F1:2967:U:H5'	1.99	0.60
1:F1:637:U:O2'	1:F1:638:U:H5'	2.00	0.60
33:EL:9:GLU:OE1	16:FQ:42:ARG:HA	2.00	0.60
19:FX:11:ASP:OD1	19:FX:13:THR:HB	2.00	0.60
23:GB:216:LEU:HD21	23:GB:274:THR:HG23	1.82	0.60
23:GB:253:TRP:CD1	1:H1:2390:G:H5''	2.36	0.60
32:GK:60:MET:C	35:GN:172:ARG:NH1	2.54	0.60
33:GL:18:LEU:O	33:GL:22:ILE:HG13	2.01	0.60
34:GM:153:THR:O	34:GM:153:THR:HG22	2.01	0.60
34:GM:166:ALA:HB1	34:GM:171:ILE:HD12	1.81	0.60
21:G3:34:C:O2	34:GM:203:ARG:NH1	2.34	0.60
44:GW:50:ILE:HG23	44:GW:54:LEU:HD23	1.83	0.60
29:GH:194:GLY:HA3	1:H1:1036:G:O2'	2.01	0.60
1:H1:132:U:O2'	1:H1:133:C:OP2	2.19	0.60
1:H1:2189:G:N7	50:H1:4241:HOH:O	2.31	0.60
1:H1:2576:C:C6	1:H1:2576:C:C5'	2.78	0.60
1:H1:2732:G:H2'	1:H1:2733:C:H6	1.66	0.60
1:H1:3043:U:O4	50:H1:4158:HOH:O	2.12	0.60
44:GW:16:HIS:HE1	1:H1:3048:A:OP1	1.84	0.60
1:H1:3182:A:C4'	1:H1:3183:A:OP1	2.43	0.60
1:H1:439:A:C2'	1:H1:440:C:O5'	2.49	0.60
1:H1:530:C:H2'	1:H1:531:C:H6	1.66	0.60
1:H1:697:A:H8	1:H1:697:A:H5'	1.66	0.60
1:H1:701:A:H4'	1:H1:702:G:O5'	2.01	0.60
1:H1:90:G:O3'	4:HC:53:LYS:NZ	2.34	0.60
8:HH:48:VAL:CG2	8:HH:85:GLY:HA2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:HL:5:ILE:CG2	11:HL:6:THR:H	2.14	0.60
12:HM:35:PHE:CE1	12:HM:39:LEU:HD11	2.36	0.60
12:HM:66:ASN:ND2	12:HM:68:GLN:HE21	2.00	0.60
14:HO:58:ILE:HG21	14:HO:90:VAL:HG21	1.82	0.60
1:A1:1593:A:C5	1:A1:1594:C:C4	2.89	0.60
1:A1:1652:U:H4'	1:A1:1655:A:C5'	2.31	0.60
1:A1:2348:G:C5	50:A1:4566:HOH:O	2.54	0.60
1:A1:240:A:O2'	1:A1:243:G:H5''	2.01	0.60
1:A1:3227:A:O2'	1:A1:3228:U:OP2	2.17	0.60
1:A1:399:A:H4'	1:A1:400:C:OP1	2.00	0.60
1:A1:467:A:N6	1:A1:512:G:N1	2.49	0.60
1:A1:963:C:OP1	1:A1:987:A:O2'	2.19	0.60
6:AF:49:PRO:HG2	6:AF:52:ARG:HG3	1.84	0.60
25:BD:12:VAL:HG21	25:BD:162:TRP:HD1	1.66	0.60
27:BF:196:VAL:HG21	27:BF:204:LEU:HD21	1.83	0.60
29:BH:12:PRO:HA	29:BH:59:GLN:NE2	2.16	0.60
30:BI:13:HIS:CE1	30:BI:118:VAL:HG13	2.37	0.60
18:AU:160:SER:CB	32:BK:106:LYS:HD3	2.32	0.60
35:BN:45:PHE:CE2	35:BN:49:ILE:HD11	2.37	0.60
39:BR:120:THR:O	39:BR:121:LEU:HD23	2.00	0.60
44:BW:71:ARG:HD3	44:BW:103:LEU:HD13	1.81	0.60
24:CC:55:VAL:HG13	1:D1:345:C:OP1	2.01	0.60
26:CE:145:GLN:NE2	26:CE:186:MET:O	2.34	0.60
33:CL:182:LYS:HG2	33:CL:183:SER:H	1.66	0.60
38:CQ:9:GLU:OE1	38:CQ:10:PRO:HD2	2.00	0.60
40:CS:51:LYS:O	40:CS:69:VAL:O	2.19	0.60
42:CU:25:LEU:O	42:CU:28:GLU:HB3	2.01	0.60
1:D1:1051:C:C2'	1:D1:1052:A:O4'	2.45	0.60
1:D1:1598:C:H3'	1:D1:1599:G:C8	2.32	0.60
1:D1:2260:C:O2'	1:D1:2261:U:H5'	2.00	0.60
1:D1:2786:C:H5''	1:D1:2787:A:OP1	2.00	0.60
1:D1:3011:G:H1'	1:D1:3012:U:OP2	2.00	0.60
1:D1:3200:A:H2'	1:D1:3201:G:H5''	1.83	0.60
45:CX:43:ARG:NH2	1:D1:660:C:H2'	2.17	0.60
35:CN:22:SER:HB3	1:D1:697:A:OP1	2.01	0.60
22:CA:205:MET:HG2	1:D1:939:A:N3	2.15	0.60
6:DF:32:ASN:OD1	6:DF:33:GLN:N	2.35	0.60
42:CU:120:PHE:CE2	18:DU:90:SER:O	2.54	0.60
19:DX:29:PRO:O	19:DX:30:ILE:HG22	2.01	0.60
23:EB:203:VAL:CG1	23:EB:320:ILE:HD11	2.30	0.60
24:EC:65:MET:HE3	24:EC:105:ARG:CD	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:EE:73:SER:HA	26:EE:76:LYS:CE	2.32	0.60
27:EF:183:VAL:O	27:EF:183:VAL:HG12	2.01	0.60
27:EF:20:PRO:HB2	27:EF:22:PHE:HD2	1.66	0.60
33:EL:115:VAL:HG22	33:EL:134:LEU:CD2	2.31	0.60
1:F1:1227:A:H2'	1:F1:1227:A:N3	2.14	0.60
1:F1:164:A:H2'	1:F1:165:C:H5'	1.83	0.60
1:F1:2202:A:H2'	1:F1:2203:A:O4'	2.01	0.60
1:F1:2412:U:C2'	1:F1:2413:G:H5''	2.31	0.60
1:F1:697:A:H5'	1:F1:697:A:H8	1.64	0.60
22:GA:50:VAL:HG12	22:GA:51:HIS:H	1.65	0.60
23:GB:332:ARG:CB	23:GB:332:ARG:HH11	2.14	0.60
26:GE:29:GLY:N	26:GE:82:VAL:HG11	2.16	0.60
32:GK:75:VAL:HG23	32:GK:109:PHE:HB3	1.82	0.60
34:GM:250:VAL:HG12	34:GM:254:ILE:CD1	2.31	0.60
37:GP:19:TYR:HE1	37:GP:20:LYS:HE3	1.65	0.60
39:GR:36:ARG:HG3	1:H1:2518:A:OP2	2.01	0.60
46:GY:6:GLN:N	1:H1:1951:G:OP2	2.29	0.60
1:H1:3232:A:OP1	5:HE:88:LYS:NZ	2.29	0.60
24:GC:319:ARG:CZ	1:H1:634:G:N7	2.64	0.60
5:HE:42:ARG:H	5:HE:92:GLN:NE2	1.99	0.60
1:A1:1107:A:H5''	1:A1:1108:A:OP2	2.02	0.60
1:A1:1752:G:C5'	1:A1:1754:G:H5''	2.28	0.60
1:A1:2593:G:C6	50:A1:3708:HOH:O	2.50	0.60
1:A1:3325:G:N2	23:BB:377:PHE:CD2	2.70	0.60
1:A1:739:G:OP1	32:BK:132:LYS:HG3	2.02	0.60
1:A1:880:U:H4'	36:BO:95:TRP:CH2	2.36	0.60
24:BC:295:ILE:HG23	35:BN:33:LEU:HD13	1.82	0.60
1:A1:117:G:H2'	27:BF:131:HIS:CE1	2.36	0.60
1:A1:1066:A:H1'	29:BH:198:LYS:NZ	2.16	0.60
31:BJ:108:ASN:HD21	31:BJ:110:LYS:HB2	1.66	0.60
35:BN:24:ASN:CG	35:BN:27:HIS:HB2	2.22	0.60
36:BO:147:ALA:O	36:BO:170:ARG:NH2	2.34	0.60
21:C3:111:U:O4	34:CM:21:ARG:NH1	2.35	0.60
24:CC:238:VAL:HG21	24:CC:262:ALA:CA	2.29	0.60
34:CM:140:LYS:O	1:D1:1107:A:H4'	2.02	0.60
20:C2:7:U:OP1	38:CQ:64:ARG:HG2	2.01	0.60
44:CW:23:SER:HB3	1:D1:2340:A:OP1	2.01	0.60
1:D1:1016:U:C3'	1:D1:1017:U:H5''	2.30	0.60
1:D1:133:C:H2'	1:D1:133:C:O2	2.02	0.60
1:D1:2569:A:HO2'	1:D1:2570:U:P	2.23	0.60
1:D1:3228:U:C4'	1:D1:3229:C:C5'	2.77	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:359:G:OP1	3:DB:50:LYS:NZ	2.34	0.60
1:D1:637:U:O2'	1:D1:638:U:H5'	2.01	0.60
32:CK:58:LEU:HD13	1:D1:734:A:H5'	1.83	0.60
12:DM:52:LEU:O	12:DM:56:ILE:HG22	2.01	0.60
13:DN:87:VAL:HG11	13:DN:90:LEU:HB2	1.82	0.60
16:DQ:68:LYS:HE3	16:DQ:69:ASP:OD1	2.00	0.60
18:DU:161:LYS:HG3	18:DU:161:LYS:O	2.00	0.60
20:E2:111:A:C2'	20:E2:112:G:H5''	2.31	0.60
20:E2:60:C:N4	2:FA:64:ARG:NH1	2.49	0.60
21:E3:93:G:H4'	19:FX:96:GLN:CD	2.22	0.60
22:EA:5:ILE:HG22	22:EA:6:ARG:H	1.66	0.60
23:EB:26:ARG:HH12	23:EB:176:ILE:C	2.03	0.60
23:EB:356:PHE:HE2	23:EB:358:ASP:HB2	1.66	0.60
23:EB:47:THR:OG1	23:EB:177:LEU:HD11	2.02	0.60
24:EC:105:ARG:HG2	24:EC:105:ARG:NH1	2.09	0.60
24:EC:29:PHE:HD2	24:EC:137:ALA:HB2	1.66	0.60
47:CO:176:UNK:O	29:EH:83:ASP:HB2	2.02	0.60
21:E3:1:G:H4'	34:EM:275:LYS:HZ3	1.67	0.60
42:EU:97:THR:HG22	42:EU:98:LYS:N	2.16	0.60
44:EW:22:ILE:CD1	44:EW:30:ARG:HG2	2.26	0.60
1:D1:2251:A:O4'	46:EY:74:PRO:CG	2.50	0.60
1:F1:1370:A:H2'	1:F1:1371:G:C5'	2.22	0.60
36:EO:96:MET:HG2	1:F1:1746:U:C1'	2.32	0.60
1:F1:1798:U:H5'	1:F1:1799:C:O4'	2.01	0.60
1:F1:2601:U:O4	50:F1:3667:HOH:O	2.16	0.60
1:F1:971:C:O2'	1:F1:972:U:H5'	2.01	0.60
6:FF:103:LEU:HD22	6:FF:107:ASP:HB3	1.81	0.60
1:D1:1046:G:C5'	13:FN:3:LYS:HE2	2.29	0.60
22:GA:243:ARG:HG3	22:GA:244:THR:N	2.15	0.60
23:GB:56:ILE:HD11	23:GB:321:MET:SD	2.41	0.60
24:GC:259:THR:CG2	24:GC:260:GLU:N	2.64	0.60
27:GF:95:GLU:OE1	27:GF:100:LYS:HG2	2.00	0.60
34:GM:163:LEU:HD12	34:GM:173:ILE:HG21	1.83	0.60
37:GP:142:GLN:O	19:HX:36:PRO:HD2	2.02	0.60
1:H1:1695:A:H2'	1:H1:1696:C:H6	1.67	0.60
1:H1:232:C:O2'	1:H1:233:G:OP1	2.17	0.60
1:H1:240:A:O2'	1:H1:243:G:H5''	2.01	0.60
1:H1:2716:A:OP1	1:H1:2717:G:N2	2.33	0.60
1:H1:2945:G:H2'	1:H1:2946:A:H5'	1.82	0.60
20:G2:20:A:H1'	1:H1:404:A:C2	2.36	0.60
24:GC:49:ARG:NH2	1:H1:713:G:H21	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:20:G:H5''	2:HA:43:LYS:HB2	1.82	0.60
35:GN:168:ARG:HH11	18:HU:9:VAL:CG2	2.13	0.60
1:A1:1471:U:H5''	1:A1:1472:A:OP2	2.01	0.60
1:A1:1695:A:H2'	1:A1:1696:C:H6	1.66	0.60
1:A1:2255:U:H1'	1:A1:2301:C:O4'	2.01	0.60
1:A1:2412:U:C2'	1:A1:2413:G:H5''	2.30	0.60
1:A1:2541:U:C4	22:BA:41:TYR:CE1	2.90	0.60
1:A1:2558:U:H2'	1:A1:2559:U:O4'	2.01	0.60
1:A1:2720:G:H2'	1:A1:2721:G:H5'	1.81	0.60
1:A1:2790:A:C4	4:AC:54:PRO:HA	2.37	0.60
1:A1:499:U:H5''	1:A1:500:G:OP2	2.01	0.60
1:A1:534:U:H2'	1:A1:535:C:H6	1.66	0.60
1:A1:980:U:H2'	1:A1:981:U:C6	2.35	0.60
1:A1:994:C:OP1	50:A1:4233:HOH:O	2.16	0.60
1:A1:3235:U:O4	8:AH:13:ARG:HA	2.01	0.60
8:AH:59:ILE:HG13	8:AH:59:ILE:O	2.00	0.60
9:AJ:145:ASN:ND2	9:AJ:146:VAL:H	1.97	0.60
10:AK:103:LEU:HD13	10:AK:110:CYS:HA	1.84	0.60
23:BB:19:ARG:O	23:BB:271:HIS:CE1	2.54	0.60
29:BH:189:LYS:HE2	29:BH:199:VAL:CG1	2.31	0.60
41:BT:23:PHE:HE1	41:BT:25:ALA:HB2	1.66	0.60
43:BV:82:PHE:CZ	43:BV:111:GLY:HA3	2.36	0.60
21:C3:10:C:C2	34:CM:20:TYR:CD1	2.85	0.60
21:C3:2:U:H3	21:C3:117:G:H1	1.49	0.60
23:CB:203:VAL:CG1	23:CB:320:ILE:HD11	2.31	0.60
46:CY:10:ILE:HG22	1:D1:862:A:C4'	2.32	0.60
1:D1:1027:G:HO2'	1:D1:1028:A:P	2.17	0.60
1:D1:1972:G:C2	1:D1:1973:A:C8	2.90	0.60
1:D1:2106:G:C2'	1:D1:2107:A:OP1	2.50	0.60
1:D1:2978:G:O6	50:D1:3842:HOH:O	2.14	0.60
1:D1:3103:A:H3'	1:D1:3104:G:C8	2.35	0.60
1:D1:1252:A:N3	1:D1:3105:G:N7	2.48	0.60
24:CC:49:ARG:NH2	1:D1:713:G:N2	2.50	0.60
8:DH:44:THR:HB	8:DH:46:GLU:OE1	2.02	0.60
1:D1:1711:U:C1'	12:DM:77:TYR:CE2	2.84	0.60
22:EA:105:ILE:CG2	22:EA:147:THR:HG21	2.30	0.60
23:EB:257:ARG:NH2	1:F1:2361:U:O3'	2.33	0.60
24:EC:216:TYR:O	24:EC:238:VAL:HG23	2.01	0.60
25:ED:38:LYS:HG2	25:ED:45:PRO:HD3	1.83	0.60
26:EE:29:GLY:N	26:EE:82:VAL:HG11	2.17	0.60
27:EF:123:ILE:HD12	27:EF:197:ARG:HD3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:EI:127:ARG:O	1:F1:1343:G:H5''	2.02	0.60
33:EL:177:LYS:HG2	33:EL:185:ARG:NH2	2.16	0.60
33:EL:37:HIS:CE1	33:EL:63:ARG:HB2	2.36	0.60
38:EQ:72:THR:HG21	38:EQ:74:GLN:HG3	1.83	0.60
38:EQ:61:PRO:HG3	38:EQ:78:PHE:CD2	2.36	0.60
45:EX:36:ARG:NH2	1:F1:1395:U:OP1	2.34	0.60
1:F1:1249:G:HO2'	1:F1:1250:A:P	2.25	0.60
43:EV:12:LYS:CE	1:F1:1376:A:C3'	2.79	0.60
1:F1:1594:C:C5	1:F1:1595:A:N7	2.68	0.60
1:F1:2109:G:C2'	1:F1:2110:C:H5'	2.31	0.60
1:F1:2293:U:OP2	50:F1:4335:HOH:O	2.16	0.60
40:ES:3:THR:HG21	1:F1:230:G:OP1	2.01	0.60
1:F1:2558:U:H2'	1:F1:2559:U:O4'	2.01	0.60
1:F1:312:U:H2'	1:F1:313:U:C6	2.37	0.60
1:F1:635:A:C2'	1:F1:636:U:O5'	2.50	0.60
1:F1:705:A:O2'	1:F1:706:U:H5'	2.00	0.60
1:F1:72:A:C2	1:F1:73:G:C4	2.89	0.60
23:EB:239:LYS:HG3	1:F1:899:U:OP2	2.02	0.60
5:FE:4:GLY:N	5:FE:5:PRO:CD	2.65	0.60
5:FE:53:LEU:HD11	5:FE:90:VAL:HG21	1.83	0.60
6:FF:84:LYS:O	6:FF:87:GLU:HG2	2.01	0.60
9:FJ:23:TYR:HA	9:FJ:46:ILE:HG23	1.83	0.60
1:F1:1235:U:H2'	10:FK:109:ASN:ND2	2.16	0.60
12:FM:66:ASN:ND2	12:FM:68:GLN:HE21	2.00	0.60
13:FN:11:VAL:HB	13:FN:80:ILE:HG23	1.82	0.60
26:GE:154:GLN:HE22	1:H1:3115:C:H1'	1.66	0.60
24:GC:401:GLN:O	29:GH:179:ALA:CB	2.49	0.60
37:GP:91:VAL:CG1	37:GP:96:VAL:HG23	2.31	0.60
40:GS:55:VAL:HG13	40:GS:104:VAL:O	2.01	0.60
43:GV:185:ILE:HA	43:GV:192:PHE:HE1	1.65	0.60
1:H1:1074:A:OP1	1:H1:1075:C:H5'	2.01	0.60
1:H1:169:A:N6	1:H1:251:A:C5	2.70	0.60
1:H1:1729:U:C5	1:H1:1812:G:H1'	2.36	0.60
39:GR:35:VAL:HG12	1:H1:2518:A:H3'	1.81	0.60
1:H1:3044:A:H4'	1:H1:3045:A:OP2	2.01	0.60
1:H1:3126:C:H2'	1:H1:3127:U:H6	1.67	0.60
1:H1:3344:U:H1'	1:H1:3345:A:OP1	2.02	0.60
1:H1:449:G:H2'	1:H1:450:C:C6	2.36	0.60
35:GN:91:GLU:OE2	1:H1:701:A:H2'	2.00	0.60
36:GO:131:LEU:HD11	1:H1:867:G:H5'	1.83	0.60
1:H1:882:G:HO2'	1:H1:883:A:P	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:980:U:H2'	1:H1:981:U:C6	2.37	0.60
1:H1:3237:C:H41	8:HH:10:ALA:HA	1.67	0.60
8:HH:23:PHE:HB3	8:HH:31:ASN:O	2.00	0.60
1:H1:1662:A:OP2	13:HN:16:GLY:HA2	2.02	0.60
1:A1:1062:A:C6	1:A1:1063:C:C5	2.89	0.60
1:A1:1308:U:C4'	28:BG:58:UNK:HA	2.27	0.60
1:A1:155:A:C4'	1:A1:156:A:OP1	2.49	0.60
1:A1:164:A:H2'	1:A1:165:C:H5'	1.83	0.60
1:A1:2787:A:H5''	1:A1:2788:G:O5'	2.02	0.60
1:A1:2862:G:HO2'	1:A1:2863:U:H6	1.44	0.60
1:A1:3097:G:P	10:AK:112:LYS:HZ1	2.23	0.60
1:A1:512:G:C2	1:A1:513:G:C4	2.89	0.60
8:AH:23:PHE:HB3	8:AH:31:ASN:O	2.02	0.60
11:AL:49:CYS:SG	11:AL:51:VAL:HG23	2.42	0.60
1:A1:71:U:H5	18:AU:64:ASN:HB3	1.66	0.60
19:AX:16:MET:HE2	19:AX:18:VAL:HG22	1.84	0.60
20:B2:1:A:C4'	20:B2:2:G:OP1	2.50	0.60
28:BG:85:UNK:O	28:BG:85:UNK:HG3	2.00	0.60
30:BI:64:ASN:C	30:BI:64:ASN:HD22	2.05	0.60
34:BM:39:GLN:HG2	34:BM:40:ASP:H	1.66	0.60
38:BQ:133:ARG:CG	38:BQ:139:ASN:ND2	2.52	0.60
20:C2:3:A:C4'	20:C2:4:A:OP2	2.50	0.60
22:CA:29:GLN:OE1	22:CA:124:ARG:NH2	2.34	0.60
23:CB:298:VAL:HG12	23:CB:298:VAL:O	2.02	0.60
27:CF:131:HIS:O	27:CF:135:LEU:HG	2.01	0.60
34:CM:166:ALA:HB3	34:CM:173:ILE:HD11	1.83	0.60
1:D1:1122:A:H4'	1:D1:1123:A:O5'	2.02	0.60
27:CF:100:LYS:NZ	1:D1:119:A:H2'	2.17	0.60
1:D1:1239:G:O3'	19:DX:106:LYS:NZ	2.31	0.60
1:D1:1580:G:O6	1:D1:1608:G:N7	2.34	0.60
1:D1:1864:U:C5'	50:D1:4254:HOH:O	2.41	0.60
1:D1:2385:A:C2'	1:D1:2386:G:O5'	2.50	0.60
1:D1:169:A:N6	1:D1:251:A:C5	2.70	0.60
1:D1:312:U:H2'	1:D1:313:U:C6	2.36	0.60
1:D1:3298:U:C4'	1:D1:3299:G:OP2	2.50	0.60
24:CC:123:ASN:ND2	1:D1:698:G:O2'	2.30	0.60
1:D1:701:A:H4'	1:D1:702:G:O5'	2.00	0.60
1:D1:705:A:O2'	1:D1:706:U:H5'	2.01	0.60
24:EC:33:ILE:HD13	24:EC:135:ALA:HA	1.84	0.60
30:EI:10:ALA:HB1	30:EI:40:ILE:HG12	1.82	0.60
40:ES:55:VAL:HG13	40:ES:104:VAL:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EX:28:ALA:HB3	1:F1:679:C:H5''	1.83	0.60
1:F1:1040:A:H2'	1:F1:1041:C:H6	1.67	0.60
1:F1:1184:U:H2'	1:F1:1185:A:O4'	2.01	0.60
1:F1:1367:A:H2'	1:F1:1368:U:C6	2.37	0.60
1:F1:1526:G:O2'	1:F1:1527:A:H5'	2.01	0.60
1:F1:1580:G:O6	1:F1:1608:G:N7	2.34	0.60
1:F1:1695:A:H2'	1:F1:1696:C:H6	1.67	0.60
1:F1:2126:G:N2	50:F1:3987:HOH:O	2.16	0.60
1:F1:2600:U:H2'	1:F1:2601:U:H6	1.66	0.60
1:F1:497:G:O2'	1:F1:498:A:H5'	2.00	0.60
1:F1:77:A:C2	1:F1:324:A:C2	2.88	0.60
6:FF:43:ILE:HG22	6:FF:44:VAL:O	2.02	0.60
8:FH:23:PHE:HB3	8:FH:31:ASN:O	2.01	0.60
9:FJ:145:ASN:ND2	9:FJ:146:VAL:H	1.97	0.60
9:FJ:12:ASP:O	9:FJ:14:GLY:N	2.35	0.60
1:F1:979:U:C1'	17:FT:12:GLN:NE2	2.59	0.60
21:G3:33:U:C5	34:GM:212:TYR:HE1	2.20	0.60
30:GI:26:LEU:HD22	30:GI:100:ARG:HB2	1.84	0.60
34:GM:22:ARG:HB3	34:GM:30:TYR:OH	2.00	0.60
37:GP:74:VAL:CG1	37:GP:75:ILE:N	2.65	0.60
43:GV:208:ARG:O	1:H1:1195:U:OP1	2.20	0.60
1:H1:1050:C:C4	1:H1:1051:C:N3	2.70	0.60
1:H1:1375:A:C4'	1:H1:1376:A:OP1	2.50	0.60
1:H1:1464:U:H2'	1:H1:1465:U:C6	2.36	0.60
1:H1:2558:U:H2'	1:H1:2559:U:O4'	2.01	0.60
1:H1:3298:U:C4'	1:H1:3299:G:OP2	2.48	0.60
1:H1:453:A:H2'	1:H1:454:A:H8	1.65	0.60
1:H1:467:A:N6	1:H1:512:G:N1	2.49	0.60
1:H1:848:C:H2'	1:H1:849:U:C6	2.37	0.60
6:HF:3:PHE:HD1	19:HX:164:PRO:HB3	1.64	0.60
1:H1:2727:A:C4'	17:HT:37:PRO:HD2	2.32	0.60
19:HX:83:LEU:HD22	19:HX:111:VAL:HG12	1.83	0.60
1:A1:1123:A:H4'	1:A1:1124:G:O5'	2.01	0.60
1:A1:1397:G:N7	50:A1:4228:HOH:O	2.32	0.60
1:A1:2369:C:H3'	50:A1:3947:HOH:O	2.00	0.60
1:A1:169:A:N6	1:A1:251:A:C5	2.69	0.60
1:A1:3044:A:C4'	1:A1:3045:A:OP2	2.50	0.60
1:A1:3127:U:C5	23:BB:30:ARG:NH2	2.70	0.60
1:A1:446:G:H2'	1:A1:447:G:C8	2.36	0.60
1:A1:623:G:N2	1:A1:633:C:C2	2.70	0.60
2:AA:25:ALA:HB1	3:AB:52:TYR:HD2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:330:LYS:O	23:BB:331:LYS:HB2	2.02	0.60
24:BC:29:PHE:HD2	24:BC:137:ALA:HB2	1.67	0.60
1:A1:147:U:H1'	27:BF:155:LEU:CD1	2.32	0.60
43:BV:144:LEU:HD23	43:BV:239:LEU:HD21	1.82	0.60
45:BX:78:ILE:HB	45:BX:98:ILE:HA	1.84	0.60
20:C2:74:A:H5'	40:CS:50:ARG:HG3	1.82	0.60
23:CB:24:HIS:CE1	23:CB:28:ARG:NH1	2.66	0.60
23:CB:303:ILE:HD11	23:CB:319:PHE:CE1	2.35	0.60
23:CB:337:ARG:NH2	23:CB:340:ILE:HG23	2.17	0.60
24:CC:185:VAL:O	24:CC:188:VAL:HG22	2.00	0.60
32:CK:84:VAL:CG1	1:D1:485:A:H2'	2.32	0.60
33:CL:201:ARG:HH21	1:D1:80:C:P	2.24	0.60
21:C3:26:C:P	34:CM:56:THR:HG21	2.42	0.60
37:CP:11:THR:HG22	37:CP:11:THR:O	2.02	0.60
39:CR:73:THR:HG23	42:CU:37:ILE:HD11	1.83	0.60
43:CV:67:ARG:NH1	1:D1:564:A:O5'	2.34	0.60
1:D1:1402:G:C2'	1:D1:1403:C:H5'	2.32	0.60
1:D1:2127:A:N7	1:D1:2145:A:H2	2.00	0.60
22:CA:231:SER:OG	1:D1:2419:A:N1	2.34	0.60
1:D1:302:G:C2	1:D1:2766:A:C8	2.90	0.60
1:D1:3185:G:N3	1:D1:3237:C:C2	2.69	0.60
1:D1:631:G:O2'	1:D1:632:G:H5'	2.02	0.60
3:DB:4:ASN:ND2	3:DB:4:ASN:H	2.00	0.60
9:DJ:77:ASN:HB3	9:DJ:80:GLU:CG	2.31	0.60
14:DO:58:ILE:HG21	14:DO:90:VAL:HG21	1.83	0.60
23:EB:194:LYS:HA	23:EB:197:LEU:CD1	2.31	0.60
24:EC:242:ASN:ND2	1:F1:718:A:O2'	2.35	0.60
34:EM:166:ALA:HB3	34:EM:173:ILE:HD11	1.83	0.60
41:ET:58:ARG:CZ	1:F1:3325:G:C4	2.84	0.60
45:EX:11:ILE:HG13	45:EX:11:ILE:O	2.01	0.60
1:F1:1103:A:H2'	1:F1:1103:A:N3	2.17	0.60
1:F1:1167:G:H2'	1:F1:1168:C:H6	1.67	0.60
1:F1:1906:G:O2'	1:F1:1907:A:H5'	2.01	0.60
40:ES:46:SER:HB3	1:F1:225:C:H5''	1.84	0.60
1:F1:2552:A:N6	1:F1:2568:G:O2'	2.35	0.60
1:F1:3185:G:N3	1:F1:3237:C:C2	2.70	0.60
1:F1:3200:A:H2'	1:F1:3201:G:H5''	1.82	0.60
1:F1:384:A:H2'	1:F1:385:A:C8	2.36	0.60
38:EQ:3:LYS:NZ	1:F1:398:G:N7	2.48	0.60
1:F1:433:C:C5'	1:F1:434:A:OP2	2.47	0.60
1:F1:685:G:O2'	1:F1:686:U:C6	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EY:4:ARG:HD2	1:F1:862:A:OP2	2.02	0.60
1:F1:963:C:OP1	1:F1:987:A:O2'	2.20	0.60
13:FN:41:VAL:HG12	13:FN:43:VAL:CG2	2.32	0.60
18:FU:133:LYS:C	18:FU:135:LEU:N	2.52	0.60
21:G3:9:C:H5''	21:G3:10:C:OP2	2.02	0.60
23:GB:330:LYS:O	23:GB:331:LYS:HB2	2.02	0.60
23:GB:377:PHE:HD2	23:GB:378:PHE:CD1	2.20	0.60
24:GC:203:ASN:HD21	40:GS:10:ALA:HA	1.65	0.60
24:GC:242:ASN:ND2	1:H1:718:A:O2'	2.34	0.60
25:GD:17:LEU:HD13	25:GD:129:VAL:HG22	1.82	0.60
25:GD:53:THR:HA	25:GD:59:ILE:O	2.00	0.60
1:H1:1379:G:C2	5:HE:22:ASP:OD2	2.55	0.60
1:H1:1381:G:OP1	14:HO:36:THR:HB	2.02	0.60
24:GC:95:ALA:CB	1:H1:1464:U:H4'	2.32	0.60
1:H1:155:A:H4'	1:H1:156:A:OP1	2.01	0.60
1:H1:1775:A:C8	1:H1:1776:G:H2'	2.34	0.60
1:H1:1972:G:C2	1:H1:1973:A:C8	2.90	0.60
1:H1:2127:A:N7	1:H1:2145:A:H2	1.99	0.60
1:H1:3073:U:OP2	50:H1:4180:HOH:O	2.16	0.60
1:H1:3228:U:N3	5:HE:146:LYS:HG3	2.16	0.60
1:H1:362:G:C2'	1:H1:363:G:H5''	2.32	0.60
4:HC:66:VAL:CG2	4:HC:83:ILE:HB	2.29	0.60
5:HE:124:LYS:HE2	5:HE:132:ALA:HB3	1.83	0.60
9:HJ:129:ILE:HG23	9:HJ:133:LEU:HD12	1.83	0.60
9:HJ:39:GLU:CA	9:HJ:43:VAL:HG23	2.32	0.60
1:H1:527:A:HO2'	14:HO:88:GLN:NE2	1.98	0.60
1:A1:1122:A:H4'	1:A1:1123:A:O5'	1.99	0.60
1:A1:1248:G:H4'	1:A1:1249:G:OP2	2.01	0.60
1:A1:1130:A:H2	1:A1:1390:A:HO2'	1.48	0.60
1:A1:1396:A:H4'	32:BK:21:ARG:HG3	1.84	0.60
1:A1:122:U:O2	1:A1:149:U:H1'	2.02	0.60
1:A1:1537:U:H5'	1:A1:1538:U:H5	1.67	0.60
1:A1:2907:A:H8	1:A1:2907:A:C5'	2.15	0.60
1:A1:567:C:N4	1:A1:603:A:N1	2.49	0.60
1:A1:1379:G:C2	5:AE:22:ASP:OD2	2.55	0.60
1:A1:1880:C:HO2'	11:AL:7:TYR:HE1	1.49	0.60
18:AU:91:ILE:HG22	18:AU:117:TYR:HE2	1.67	0.60
19:AX:45:ALA:HB1	19:AX:50:HIS:CD2	2.37	0.60
21:B3:92:C:H2'	21:B3:93:G:C8	2.37	0.60
1:A1:941:G:O6	22:BA:208:VAL:HG21	2.02	0.60
16:AQ:52:ALA:HB1	33:BL:15:GLN:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:18:LEU:O	33:BL:22:ILE:HG13	2.01	0.60
38:BQ:71:ARG:HG2	38:BQ:81:THR:HG22	1.84	0.60
45:BX:98:ILE:CA	45:BX:123:ASN:HD21	2.14	0.60
31:CJ:108:ASN:HD21	31:CJ:110:LYS:HB2	1.67	0.60
34:CM:153:THR:HG22	34:CM:153:THR:O	2.02	0.60
1:D1:1507:A:OP2	1:D1:1507:A:O4'	2.19	0.60
1:D1:121:A:N6	1:D1:150:A:C6	2.70	0.60
1:D1:1770:A:H2'	1:D1:1771:U:C6	2.36	0.60
1:D1:2400:C:H6	1:D1:2400:C:H5'	1.66	0.60
1:D1:3228:U:O2	5:DE:142:GLU:HG3	2.01	0.60
9:DJ:39:GLU:CA	9:DJ:43:VAL:HG23	2.32	0.60
13:DN:41:VAL:HG23	13:DN:77:LEU:CD2	2.32	0.60
14:DO:75:THR:HG21	14:DO:77:GLU:CD	2.22	0.60
15:DP:32:TYR:CE2	15:DP:75:ILE:HD12	2.37	0.60
18:DU:22:THR:HG23	18:DU:24:PHE:CD1	2.36	0.60
24:EC:150:SER:O	14:FO:75:THR:HG23	2.01	0.60
26:EE:131:LYS:HE2	26:EE:145:GLN:HG2	1.84	0.60
29:EH:189:LYS:HE2	29:EH:199:VAL:CG1	2.32	0.60
32:EK:42:HIS:CE1	1:F1:38:A:C2	2.90	0.60
32:EK:45:ILE:HG12	1:F1:2716:A:C2	2.37	0.60
24:EC:398:PHE:CE2	37:EP:154:ARG:HD2	2.36	0.60
45:EX:45:ARG:NH2	1:F1:1171:U:OP2	2.34	0.60
28:EG:81:UNK:HG3	1:F1:1308:U:O2'	2.01	0.60
1:F1:925:G:H1'	1:F1:1614:A:N6	2.17	0.60
1:F1:1767:U:H4'	1:F1:1768:G:OP2	2.00	0.60
1:F1:1919:A:H3'	50:F1:4312:HOH:O	2.02	0.60
1:F1:2120:U:O2'	1:F1:2121:A:H5'	2.01	0.60
1:F1:198:A:N3	1:F1:218:G:O2'	2.35	0.60
1:F1:2550:U:H4'	1:F1:2551:A:OP2	2.02	0.60
1:F1:2860:A:N3	1:F1:2860:A:H5'	2.17	0.60
26:EE:171:ARG:NH2	1:F1:2886:G:OP1	2.34	0.60
1:F1:3059:A:H2'	1:F1:3060:A:C8	2.37	0.60
26:EE:154:GLN:NE2	1:F1:3115:C:H1'	2.17	0.60
1:F1:362:G:H2'	1:F1:363:G:H5''	1.83	0.60
1:F1:467:A:N6	1:F1:512:G:C6	2.70	0.60
13:FN:15:GLN:HE21	13:FN:79:HIS:CE1	2.19	0.60
24:GC:195:ARG:HH22	1:H1:1409:C:P	2.25	0.60
25:GD:28:ASP:O	25:GD:32:LYS:HG3	2.02	0.60
26:GE:1:MET:CG	26:GE:2:ARG:N	2.43	0.60
29:GH:20:SER:H	29:GH:23:ASN:HB2	1.67	0.60
33:GL:165:THR:HG23	33:GL:168:GLY:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:GS:15:ARG:O	40:GS:19:PHE:HD1	1.84	0.60
43:GV:63:LYS:O	43:GV:67:ARG:HG3	2.00	0.60
1:H1:1593:A:C5	1:H1:1594:C:C4	2.89	0.60
1:H1:2186:U:H2'	1:H1:2187:C:H6	1.67	0.60
1:H1:2865:G:H2'	1:H1:2866:G:C8	2.36	0.60
1:H1:3023:C:H2'	1:H1:3024:A:H8	1.66	0.60
1:H1:3200:A:H2'	1:H1:3201:G:H5''	1.83	0.60
1:H1:527:A:H5'	5:HE:13:SER:OG	2.00	0.60
1:H1:563:G:C5'	1:H1:564:A:OP1	2.49	0.60
1:H1:634:G:H5'	5:HE:30:ARG:HH22	1.67	0.60
2:HA:16:HIS:HA	2:HA:27:TYR:O	2.02	0.60
1:H1:591:G:H4'	6:HF:64:GLU:OE1	2.02	0.60
1:A1:1064:C:O2'	1:A1:1065:U:H5'	2.02	0.60
1:A1:53:G:H5'	1:A1:1573:A:HO2'	1.66	0.60
1:A1:186:U:O3'	40:BS:125:LEU:HD21	2.02	0.60
1:A1:282:G:N2	1:A1:304:U:H5'	2.16	0.60
1:A1:72:A:C2	1:A1:73:G:C4	2.90	0.60
3:AB:33:THR:CG2	3:AB:35:ILE:H	2.05	0.60
5:AE:124:LYS:HG2	5:AE:132:ALA:HB2	1.82	0.60
19:AX:18:VAL:HG11	19:AX:117:VAL:HG11	1.82	0.60
24:BC:316:THR:O	24:BC:317:HIS:HD2	1.85	0.60
27:BF:72:GLN:NE2	27:BF:160:PRO:HG2	2.15	0.60
18:AU:164:LYS:O	32:BK:98:LYS:HD2	2.01	0.60
19:AX:30:ILE:CD1	37:BP:139:VAL:HG21	2.26	0.60
22:CA:210:HIS:HD2	22:CA:212:HIS:N	1.85	0.60
31:CJ:83:ILE:HD11	31:CJ:105:VAL:CG2	2.31	0.60
37:CP:74:VAL:CG1	37:CP:75:ILE:N	2.65	0.60
39:CR:120:THR:O	39:CR:121:LEU:HD23	2.01	0.60
39:CR:96:ASN:HA	39:CR:128:LYS:HG3	1.84	0.60
41:CT:11:CYS:SG	41:CT:13:TYR:HD2	2.25	0.60
1:D1:1047:G:P	13:FN:3:LYS:CE	2.90	0.60
42:CU:113:ASN:HB3	1:D1:167:U:O2'	2.02	0.60
1:D1:3185:G:H4'	1:D1:3186:G:OP2	2.02	0.60
1:D1:512:G:C2	1:D1:513:G:C4	2.90	0.60
1:D1:563:G:N7	50:D1:4341:HOH:O	2.31	0.60
6:DF:106:PHE:CD2	6:DF:110:ARG:NE	2.62	0.60
19:DX:45:ALA:CB	19:DX:50:HIS:HD2	2.15	0.60
22:EA:31:ARG:HD3	22:EA:34:ASP:OD2	2.02	0.60
27:EF:153:ILE:HG22	27:EF:157:ILE:HG13	1.83	0.60
29:EH:118:ALA:HB3	1:F1:1153:G:O2'	2.01	0.60
30:EI:26:LEU:HD22	30:EI:100:ARG:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:160:GLU:HG2	33:EL:161:LEU:N	2.16	0.60
37:EP:63:LYS:N	37:EP:63:LYS:HD2	2.17	0.60
41:ET:35:THR:HB	41:ET:38:ALA:H	1.66	0.60
42:EU:98:LYS:HE3	42:EU:101:ARG:NH1	2.17	0.60
43:EV:115:ARG:HH21	43:EV:192:PHE:HB3	1.66	0.60
45:EX:44:VAL:HG12	45:EX:54:MET:HE2	1.83	0.60
1:F1:1123:A:H4'	1:F1:1124:G:O5'	2.00	0.60
1:F1:1213:G:N3	19:FX:126:GLY:HA3	2.17	0.60
1:F1:1702:G:H2'	1:F1:1703:A:H8	1.66	0.60
1:F1:2256:G:H8	1:F1:2256:G:O5'	1.85	0.60
1:F1:2536:A:H2'	1:F1:2537:C:C6	2.36	0.60
1:F1:3045:A:H4'	1:F1:3046:A:OP1	2.02	0.60
1:F1:363:G:C8	1:F1:363:G:C5'	2.84	0.60
5:FE:135:THR:HG22	5:FE:136:GLU:N	2.17	0.60
19:FX:96:GLN:N	19:FX:134:THR:HG21	2.17	0.60
20:G2:111:A:N1	2:HA:20:ARG:NH1	2.50	0.60
21:G3:28:C:C2'	21:G3:29:C:H5'	2.32	0.60
22:GA:68:TYR:O	22:GA:69:ARG:HG2	2.02	0.60
38:GQ:120:GLN:HB3	38:GQ:149:GLU:CG	2.29	0.60
38:GQ:27:HIS:HE1	1:H1:2350:G:OP2	1.84	0.60
20:G2:86:G:C6	40:GS:111:ASP:OD2	2.54	0.60
1:H1:1380:C:O2'	1:H1:1381:G:P	2.58	0.60
1:H1:1395:U:O2'	1:H1:1396:A:H5'	2.01	0.60
45:GX:80:ASN:HD22	1:H1:1413:G:H4'	1.67	0.60
1:H1:1533:G:H4'	1:H1:1534:C:OP2	2.01	0.60
1:H1:1593:A:C2	1:H1:1601:U:O2	2.55	0.60
1:H1:2380:U:H4'	1:H1:2381:A:OP1	2.00	0.60
1:H1:169:A:N7	1:H1:251:A:N6	2.50	0.60
1:H1:2536:A:H2'	1:H1:2537:C:C6	2.37	0.60
1:H1:2743:G:H3'	1:H1:2744:C:H5'	1.80	0.60
1:H1:3011:G:H1'	1:H1:3012:U:OP2	2.02	0.60
1:H1:3079:U:O2'	1:H1:3080:A:O5'	2.20	0.60
1:H1:3110:U:OP2	10:HK:111:ARG:NH1	2.34	0.60
1:H1:3241:U:C4	1:H1:3242:U:C4	2.90	0.60
5:HE:15:ILE:HA	5:HE:18:TRP:NE1	2.15	0.60
11:HL:9:ARG:HG3	11:HL:34:TYR:CE2	2.37	0.60
14:HO:62:LEU:HD11	14:HO:97:ARG:CD	2.31	0.60
50:H1:3636:HOH:O	18:HU:15:HIS:HE1	1.85	0.60
18:HU:44:VAL:O	18:HU:47:ARG:HG3	2.01	0.60
1:A1:1380:C:O2'	14:AO:38:VAL:HB	2.02	0.60
1:A1:1594:C:C5	1:A1:1595:A:N7	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2913:C:H2'	1:A1:2914:A:H5'	1.83	0.60
1:A1:2997:A:O2'	1:A1:2998:G:H5'	2.02	0.60
1:A1:3126:C:H2'	1:A1:3127:U:H6	1.67	0.60
1:A1:898:C:H3'	1:A1:899:U:H4'	1.84	0.60
5:AE:124:LYS:HE2	5:AE:132:ALA:HB3	1.84	0.60
5:AE:4:GLY:N	5:AE:5:PRO:CD	2.65	0.60
12:AM:95:LEU:HA	12:AM:108:ARG:O	2.01	0.60
14:AO:62:LEU:HD11	14:AO:97:ARG:CD	2.32	0.60
24:BC:172:ALA:O	24:BC:176:LEU:HG	2.01	0.60
30:BI:80:TRP:CH2	30:BI:84:ARG:NH1	2.70	0.60
1:A1:38:A:C2	32:BK:42:HIS:CE1	2.90	0.60
35:BN:53:LEU:HD23	35:BN:84:THR:HG22	1.84	0.60
38:BQ:32:TYR:CD2	38:BQ:33:GLU:HG2	2.34	0.60
40:BS:6:GLU:N	40:BS:6:GLU:OE1	2.34	0.60
42:BU:32:LEU:HD21	42:BU:47:ARG:HD3	1.84	0.60
44:BW:50:ILE:HG23	44:BW:54:LEU:HD23	1.83	0.60
46:BY:25:VAL:O	46:BY:28:LYS:HB3	2.01	0.60
22:CA:99:VAL:HA	22:CA:167:VAL:HG12	1.84	0.60
24:CC:333:LEU:HD21	43:CV:161:THR:O	2.02	0.60
27:CF:169:PRO:HB2	27:CF:211:PHE:HB2	1.83	0.60
27:CF:154:GLU:OE2	33:CL:26:ARG:NH2	2.34	0.60
34:CM:228:PHE:HD2	34:CM:231:TRP:CD1	2.20	0.60
34:CM:240:VAL:HG11	34:CM:245:LYS:HB2	1.82	0.60
37:CP:34:TYR:CD1	37:CP:72:ILE:HD11	2.37	0.60
38:CQ:53:VAL:HG21	38:CQ:60:ILE:HG13	1.84	0.60
39:CR:84:MET:CE	39:CR:144:ALA:HB2	2.32	0.60
44:CW:72:VAL:HG11	44:CW:92:VAL:HG13	1.82	0.60
1:D1:1053:A:C4	13:FN:94:LYS:NZ	2.70	0.60
1:D1:1218:U:H3'	10:DK:113:ARG:NH1	2.17	0.60
1:D1:1821:U:O2'	1:D1:1822:G:C5	2.54	0.60
25:CD:124:GLY:HA3	1:D1:2663:A:C5	2.37	0.60
1:D1:2861:U:H5''	50:D1:4361:HOH:O	2.01	0.60
1:D1:898:C:H3'	1:D1:899:U:H4'	1.82	0.60
6:DF:26:VAL:HG12	6:DF:27:ILE:N	2.17	0.60
13:DN:13:LEU:CD2	13:DN:75:VAL:HG21	2.32	0.60
16:DQ:7:VAL:O	16:DQ:7:VAL:HG12	2.01	0.60
20:E2:22:A:H2'	20:E2:23:U:C6	2.36	0.60
21:E3:40:C:O2	21:E3:40:C:H2'	2.02	0.60
25:ED:28:ASP:O	25:ED:32:LYS:HG3	2.02	0.60
28:EG:28:UNK:HB1	28:EG:112:UNK:HG3	1.84	0.60
34:EM:249:LYS:O	34:EM:253:GLU:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:EN:24:ASN:CG	35:EN:27:HIS:HB2	2.21	0.60
43:EV:12:LYS:NZ	1:F1:1376:A:O3'	2.33	0.60
1:F1:1587:A:H4'	1:F1:1588:A:OP2	2.02	0.60
1:F1:2140:A:C5	1:F1:2276:A:C2	2.89	0.60
1:F1:333:G:H8	1:F1:333:G:H5'	1.67	0.60
1:F1:453:A:H2'	1:F1:454:A:C8	2.36	0.60
1:F1:467:A:N6	1:F1:512:G:N1	2.49	0.60
1:F1:644:A:H2'	1:F1:645:A:H4'	1.83	0.60
8:FH:54:LYS:HD2	8:FH:108:LEU:HA	1.82	0.60
18:FU:44:VAL:O	18:FU:47:ARG:HG3	2.02	0.60
20:G2:137:G:N2	33:GL:112:GLU:HG2	2.16	0.60
20:G2:3:A:C4'	20:G2:4:A:OP2	2.49	0.60
23:GB:220:LYS:HG2	23:GB:329:PRO:HD3	1.83	0.60
23:GB:54:THR:HG23	23:GB:358:ASP:HB3	1.84	0.60
32:GK:81:TRP:CZ2	32:GK:123:VAL:CG2	2.84	0.60
33:GL:183:SER:CA	33:GL:191:ASN:HD22	2.15	0.60
33:GL:6:TYR:CD1	16:HQ:41:VAL:HG13	2.37	0.60
21:G3:116:A:H4'	34:GM:260:ARG:NH2	2.17	0.60
46:GY:56:LYS:HG2	46:GY:63:ILE:HG12	1.83	0.60
24:GC:311:ALA:HB1	1:H1:1374:C:H5'	1.84	0.60
1:H1:122:U:O2	1:H1:149:U:H1'	2.01	0.60
33:GL:54:LYS:HD3	1:H1:149:U:OP1	2.01	0.60
1:H1:1598:C:C6	1:H1:1599:G:C8	2.90	0.60
22:GA:70:TYR:HD2	1:H1:1674:C:C4'	2.15	0.60
1:H1:218:G:OP1	1:H1:218:G:H8	1.84	0.60
1:H1:169:A:N7	1:H1:250:U:O4	2.35	0.60
5:HE:4:GLY:N	5:HE:5:PRO:CD	2.65	0.60
5:HE:69:LEU:HD11	5:HE:114:ASP:H	1.65	0.60
13:HN:23:ALA:HB2	13:HN:45:GLY:HA3	1.82	0.60
1:A1:1226:C:H4'	1:A1:1227:A:OP2	2.02	0.59
1:A1:1190:U:H3	1:A1:1363:A:H61	1.50	0.59
1:A1:24:A:N3	1:A1:327:U:O2'	2.28	0.59
1:A1:2613:G:H21	1:A1:2615:A:H2	1.49	0.59
1:A1:2639:C:C5'	1:A1:2640:G:OP2	2.48	0.59
1:A1:279:U:C4'	33:BL:188:ARG:HH21	2.14	0.59
1:A1:3191:G:C2'	1:A1:3192:C:OP2	2.50	0.59
1:A1:3298:U:C4'	1:A1:3299:G:OP2	2.49	0.59
1:A1:696:A:C5'	35:BN:21:LYS:O	2.49	0.59
1:A1:634:G:H5'	5:AE:30:ARG:HH22	1.67	0.59
6:AF:32:ASN:OD1	6:AF:33:GLN:N	2.35	0.59
13:AN:41:VAL:HG23	13:AN:77:LEU:CD2	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:452:U:C4'	14:AO:56:GLN:HE22	2.16	0.59
18:AU:161:LYS:O	18:AU:161:LYS:HG3	2.01	0.59
21:B3:69:G:H2'	21:B3:70:G:H8	1.67	0.59
1:A1:2520:G:O6	22:BA:68:TYR:HE1	1.85	0.59
23:BB:105:VAL:HG21	23:BB:146:LEU:HD23	1.83	0.59
24:BC:157:TYR:HD1	24:BC:159:PHE:CE1	2.19	0.59
24:BC:303:GLU:O	24:BC:307:VAL:HG23	2.02	0.59
25:BD:17:LEU:HD13	25:BD:129:VAL:HG22	1.83	0.59
26:BE:131:LYS:HE2	26:BE:145:GLN:HG2	1.84	0.59
27:BF:149:ASP:OD1	27:BF:176:LYS:HD3	2.02	0.59
33:BL:38:LYS:HB2	33:BL:62:TRP:CE2	2.36	0.59
23:CB:37:PRO:HA	23:CB:184:GLY:CA	2.28	0.59
26:CE:141:THR:HG22	26:CE:142:LEU:N	2.17	0.59
26:CE:1:MET:CG	26:CE:2:ARG:N	2.42	0.59
29:CH:139:ARG:CG	29:CH:173:PHE:HE1	2.15	0.59
30:CI:11:LYS:HD3	30:CI:36:ARG:HH12	1.67	0.59
38:CQ:71:ARG:HG2	38:CQ:81:THR:HG22	1.83	0.59
41:CT:35:THR:HB	41:CT:38:ALA:H	1.67	0.59
44:CW:16:HIS:HE1	1:D1:3048:A:OP1	1.85	0.59
1:D1:1149:U:H2'	1:D1:1150:U:H5'	1.83	0.59
1:D1:69:A:C6	1:D1:2766:A:O4'	2.55	0.59
1:D1:3227:A:O2'	1:D1:3228:U:OP2	2.19	0.59
1:D1:582:A:H2'	1:D1:583:G:H5'	1.83	0.59
1:D1:634:G:H5'	5:DE:30:ARG:HH22	1.67	0.59
5:DE:125:ASN:OD1	5:DE:128:ASN:N	2.27	0.59
42:CU:123:LYS:HE2	18:DU:146:ALA:HB2	1.83	0.59
18:DU:177:VAL:O	18:DU:181:ILE:HG13	2.02	0.59
21:E3:64:A:H5'	50:E3:328:HOH:O	2.01	0.59
22:EA:243:ARG:HG3	22:EA:244:THR:N	2.17	0.59
24:EC:259:THR:CG2	24:EC:260:GLU:N	2.64	0.59
24:EC:65:MET:CE	24:EC:105:ARG:HG2	2.32	0.59
30:EI:61:MET:HE3	30:EI:67:ARG:O	2.02	0.59
38:EQ:8:ARG:HH11	38:EQ:118:HIS:CB	2.03	0.59
1:F1:1027:G:N3	1:F1:1027:G:H2'	2.17	0.59
1:F1:1040:A:C8	1:F1:1041:C:C5	2.90	0.59
1:F1:1433:A:H5'	1:F1:1434:G:OP2	2.01	0.59
1:F1:53:G:H5'	1:F1:1573:A:HO2'	1.67	0.59
1:F1:2720:G:O2'	1:F1:2721:G:H5'	2.02	0.59
1:F1:282:G:N3	1:F1:282:G:H2'	2.16	0.59
1:F1:2861:U:H5''	50:F1:4138:HOH:O	2.02	0.59
1:F1:302:G:C2	1:F1:2766:A:C8	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3185:G:H4'	1:F1:3186:G:OP2	2.02	0.59
1:F1:2135:A:N7	2:FA:2:THR:HG23	2.17	0.59
9:FJ:39:GLU:CA	9:FJ:43:VAL:HG23	2.32	0.59
11:FL:9:ARG:HG3	11:FL:34:TYR:CE2	2.37	0.59
7:FG:62:LEU:HB3	13:FN:4:PHE:CE2	2.36	0.59
22:GA:253:GLU:HA	22:GA:253:GLU:OE1	2.00	0.59
24:GC:238:VAL:HA	24:GC:241:LEU:HD21	1.84	0.59
24:GC:33:ILE:HD13	24:GC:135:ALA:HA	1.84	0.59
25:GD:15:ALA:O	25:GD:72:ARG:HG2	2.02	0.59
26:GE:4:LEU:HD11	19:HX:163:PHE:CD1	2.37	0.59
30:GI:129:ARG:NH2	1:H1:1343:G:C2	2.70	0.59
31:GJ:10:GLN:CG	31:GJ:129:ILE:HG23	2.24	0.59
31:GJ:124:LYS:HG3	31:GJ:141:VAL:C	2.22	0.59
32:GK:117:ARG:HD3	32:GK:137:ARG:HH11	1.65	0.59
32:GK:58:LEU:HD13	1:H1:734:A:H5'	1.84	0.59
34:GM:35:ARG:CB	1:H1:2737:A:C2	2.85	0.59
37:GP:63:LYS:HD2	37:GP:63:LYS:H	1.67	0.59
40:GS:50:ARG:HB2	40:GS:114:ARG:NH2	2.17	0.59
28:GG:31:UNK:CA	1:H1:1257:G:H5'	2.32	0.59
1:H1:1714:C:H2'	1:H1:1715:U:H5'	1.84	0.59
1:H1:2150:U:H6	1:H1:2150:U:H5'	1.67	0.59
1:H1:219:A:N1	1:H1:1416:U:O2'	2.34	0.59
1:H1:2542:U:H5''	1:H1:2542:U:C6	2.34	0.59
1:H1:2550:U:H5'	1:H1:2551:A:O5'	2.02	0.59
1:H1:69:A:C6	1:H1:2766:A:O4'	2.55	0.59
1:H1:2907:A:C5'	1:H1:2907:A:H8	2.15	0.59
1:H1:623:G:N2	1:H1:633:C:C2	2.70	0.59
2:HA:21:ARG:NH1	2:HA:44:MET:CE	2.64	0.59
13:HN:87:VAL:HG11	13:HN:90:LEU:HB2	1.83	0.59
1:H1:801:U:H5'	17:HT:37:PRO:CB	2.31	0.59
1:A1:1598:C:C6	1:A1:1599:G:C8	2.90	0.59
1:A1:2529:G:OP1	25:GD:29:LYS:HE3	2.02	0.59
1:A1:2557:A:C2	1:A1:2558:U:C2	2.89	0.59
1:A1:269:U:H2'	1:A1:270:C:H6	1.68	0.59
1:A1:2862:G:OP1	50:A1:4271:HOH:O	2.17	0.59
1:A1:389:G:OP1	38:BQ:18:LYS:HE3	2.02	0.59
1:A1:622:G:C4'	1:A1:623:G:OP2	2.49	0.59
1:A1:741:G:C2	32:BK:136:ARG:NH2	2.62	0.59
9:AJ:39:GLU:CA	9:AJ:43:VAL:HG23	2.31	0.59
13:AN:13:LEU:CD2	13:AN:75:VAL:HG21	2.32	0.59
16:AQ:68:LYS:HE3	16:AQ:69:ASP:OD1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AX:96:GLN:N	19:AX:134:THR:HG21	2.16	0.59
1:A1:1309:G:C5'	28:BG:59:UNK:HB2	2.32	0.59
35:BN:63:LEU:HD21	35:BN:140:LEU:HD23	1.84	0.59
1:A1:1093:C:O2'	37:BP:110:GLN:HG2	2.03	0.59
38:BQ:73:ALA:O	38:BQ:76:HIS:CD2	2.55	0.59
1:A1:133:C:C2'	42:BU:76:GLY:HA2	2.31	0.59
26:CE:70:SER:HB3	1:D1:3101:G:O2'	2.01	0.59
27:CF:65:LYS:HE2	27:CF:225:TRP:HE3	1.67	0.59
30:CI:61:MET:HE3	30:CI:67:ARG:O	2.02	0.59
34:CM:166:ALA:HB3	34:CM:173:ILE:CD1	2.32	0.59
21:C3:120:U:OP2	34:CM:270:PRO:CB	2.50	0.59
38:CQ:72:THR:CG2	38:CQ:74:GLN:HG3	2.32	0.59
42:CU:122:LEU:HD13	18:DU:150:LEU:CD2	2.33	0.59
1:D1:1328:A:H4'	1:D1:1329:A:O5'	2.02	0.59
1:D1:1418:G:O6	50:D1:4990:HOH:O	2.14	0.59
1:D1:141:C:O2'	1:D1:142:A:H5'	2.02	0.59
1:D1:1840:U:OP2	1:D1:1840:U:H6	1.85	0.59
1:D1:3182:A:C4'	1:D1:3183:A:OP1	2.45	0.59
1:D1:3266:G:C2'	1:D1:3267:A:H5''	2.32	0.59
1:D1:376:A:H62	1:D1:398:G:H2'	1.67	0.59
1:D1:424:G:H2'	1:D1:425:U:H5'	1.84	0.59
1:D1:579:G:H1	6:DF:29:ASN:HD21	1.48	0.59
39:CR:122:ASN:O	3:DB:10:LYS:NZ	2.35	0.59
8:DH:54:LYS:HA	8:DH:110:PRO:HG2	1.84	0.59
9:DJ:12:ASP:O	9:DJ:14:GLY:N	2.35	0.59
32:CK:68:ASN:HB3	18:DU:60:THR:HG21	1.82	0.59
22:EA:253:GLU:HA	22:EA:253:GLU:OE1	2.02	0.59
29:EH:205:PRO:O	29:EH:208:ARG:HG2	2.03	0.59
1:F1:1249:G:O2'	1:F1:1250:A:P	2.60	0.59
1:F1:1548:U:H4'	1:F1:1549:U:OP2	2.02	0.59
1:F1:1660:U:O2'	13:FN:79:HIS:CD2	2.50	0.59
1:F1:1821:U:O2'	1:F1:1822:G:C5	2.54	0.59
1:F1:2246:G:H2'	1:F1:2247:A:H8	1.67	0.59
1:F1:2366:G:H5''	1:F1:2367:A:OP2	2.02	0.59
36:EO:62:ARG:HH22	1:F1:3056:C:H3'	1.66	0.59
2:FA:21:ARG:CZ	2:FA:44:MET:HE1	2.30	0.59
18:FU:74:THR:HG23	18:FU:99:ARG:O	2.02	0.59
20:G2:13:A:H2'	20:G2:14:C:C6	2.37	0.59
23:GB:25:HIS:HD2	23:GB:270:TYR:OH	1.85	0.59
23:GB:55:HIS:HD2	23:GB:55:HIS:H	1.48	0.59
34:GM:3:PHE:HZ	1:H1:1041:C:N3	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:GP:39:TYR:CE1	37:GP:63:LYS:HG3	2.37	0.59
38:GQ:32:TYR:CD1	38:GQ:33:GLU:HG2	2.34	0.59
20:G2:14:C:O2'	38:GQ:7:SER:HA	2.03	0.59
43:GV:114:PHE:CE2	43:GV:124:ILE:HD11	2.38	0.59
43:GV:194:GLU:N	43:GV:194:GLU:OE1	2.30	0.59
1:H1:1049:U:H2'	1:H1:1050:C:C6	2.37	0.59
1:H1:1776:G:O2'	1:H1:1777:A:H5'	2.02	0.59
1:H1:2408:A:N6	50:H1:3648:HOH:O	2.36	0.59
1:H1:2397:A:H1'	1:H1:2859:G:O4'	2.01	0.59
22:GA:216:ASN:ND2	1:H1:2957:A:N7	2.50	0.59
1:H1:2964:A:C6	50:H1:3969:HOH:O	2.38	0.59
1:H1:3177:G:H5''	1:H1:3177:G:H8	1.67	0.59
1:H1:549:G:C6	1:H1:619:G:N2	2.70	0.59
5:HE:135:THR:HG22	5:HE:136:GLU:N	2.16	0.59
5:HE:145:ARG:O	5:HE:149:ARG:HG3	2.03	0.59
9:FJ:93:ARG:NH2	9:HJ:93:ARG:CG	2.63	0.59
14:HO:32:THR:HG22	14:HO:34:ARG:H	1.67	0.59
1:H1:296:G:O2'	16:HQ:32:GLY:HA2	2.01	0.59
18:HU:87:PHE:CE2	18:HU:91:ILE:HD11	2.37	0.59
1:A1:1095:C:H4'	1:A1:1096:G:OP2	2.01	0.59
1:A1:114:A:O4'	16:AQ:37:ARG:NH1	2.35	0.59
1:A1:1328:A:H4'	1:A1:1329:A:O5'	2.02	0.59
1:A1:1507:A:C4'	1:A1:1507:A:OP2	2.50	0.59
1:A1:1918:U:HO2'	1:A1:1919:A:H5''	1.67	0.59
1:A1:292:C:H6	1:A1:292:C:C5'	2.15	0.59
1:A1:302:G:C2	1:A1:2766:A:C8	2.90	0.59
1:A1:3185:G:N3	1:A1:3237:C:C2	2.70	0.59
22:BA:31:ARG:HD3	22:BA:34:ASP:OD2	2.02	0.59
1:A1:1064:C:H5'	34:BM:5:LYS:HZ2	1.65	0.59
1:A1:133:C:H2'	42:BU:76:GLY:HA2	1.84	0.59
42:BU:97:THR:HG22	42:BU:98:LYS:N	2.16	0.59
43:BV:226:ASN:O	43:BV:226:ASN:OD1	2.20	0.59
43:BV:72:PHE:CD1	43:BV:73:TYR:N	2.71	0.59
22:CA:35:PHE:CZ	22:CA:39:GLN:OE1	2.55	0.59
24:CC:201:LEU:HD23	24:CC:201:LEU:N	2.17	0.59
24:CC:295:ILE:HG23	35:CN:33:LEU:HD13	1.84	0.59
25:CD:15:ALA:O	25:CD:72:ARG:HG2	2.02	0.59
27:CF:36:GLN:NE2	27:CF:39:ARG:NH2	2.51	0.59
33:CL:187:SER:O	33:CL:190:GLY:N	2.36	0.59
32:CK:60:MET:C	35:CN:172:ARG:NH1	2.56	0.59
37:CP:116:LYS:HE3	37:CP:128:THR:OG1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CS:43:ASN:O	40:CS:125:LEU:CD1	2.50	0.59
34:CM:3:PHE:CZ	1:D1:1041:C:C2	2.90	0.59
1:D1:124:U:O2'	1:D1:125:G:H5'	2.01	0.59
1:D1:1642:G:H2'	1:D1:1643:G:C5'	2.17	0.59
1:D1:3190:A:N6	1:D1:3191:G:N2	2.50	0.59
1:D1:446:G:H2'	1:D1:447:G:C8	2.36	0.59
1:D1:619:G:H4'	1:D1:620:A:N3	2.16	0.59
5:DE:137:GLU:HG3	5:DE:138:GLN:HG2	1.83	0.59
7:DG:13:LYS:HG2	7:DG:14:LEU:H	1.67	0.59
8:DH:36:LEU:HD22	8:DH:81:HIS:CD2	2.37	0.59
11:DL:5:ILE:CD1	11:DL:22:LYS:HG2	2.32	0.59
20:E2:107:C:C4	20:E2:135:A:C6	2.90	0.59
27:EF:183:VAL:HG12	27:EF:185:LYS:HE3	1.84	0.59
33:EL:93:LYS:HG3	1:F1:288:A:C2	2.37	0.59
34:EM:228:PHE:HD2	34:EM:231:TRP:CD1	2.20	0.59
36:EO:24:LEU:CD2	36:EO:50:VAL:HG22	2.32	0.59
20:E2:73:G:H5'	40:ES:117:LEU:HD11	1.83	0.59
43:EV:83:ALA:O	43:EV:111:GLY:HA2	2.02	0.59
1:F1:1402:G:C2'	1:F1:1403:C:H5'	2.32	0.59
1:F1:1700:A:P	12:FM:74:SER:HB2	2.43	0.59
23:EB:377:PHE:CD2	1:F1:3325:G:N2	2.71	0.59
1:F1:3344:U:H1'	1:F1:3345:A:OP1	2.02	0.59
1:F1:577:C:O2'	1:F1:578:G:H5'	2.03	0.59
1:F1:645:A:C1'	1:F1:646:A:OP2	2.49	0.59
24:EC:240:ARG:NH2	1:F1:712:G:H4'	2.17	0.59
22:EA:12:ARG:HH11	1:F1:935:G:H5'	1.66	0.59
1:F1:977:A:H2'	1:F1:978:G:H5''	1.83	0.59
5:FE:145:ARG:O	5:FE:149:ARG:HG3	2.02	0.59
16:FQ:2:ALA:HB2	18:FU:184:GLU:OE2	2.02	0.59
20:G2:73:G:H5'	40:GS:117:LEU:HD11	1.82	0.59
23:GB:356:PHE:HE2	23:GB:358:ASP:HB2	1.66	0.59
36:GO:15:LEU:HD21	36:GO:45:ILE:HD13	1.83	0.59
42:GU:109:GLN:HA	42:GU:109:GLN:OE1	2.01	0.59
43:GV:137:THR:O	43:GV:141:ILE:HG13	2.01	0.59
1:H1:1026:C:H5'	1:H1:1027:G:C5'	2.33	0.59
1:H1:1074:A:H5''	1:H1:1075:C:C5'	2.32	0.59
1:H1:1394:G:HO2'	1:H1:1395:U:H6	1.48	0.59
1:H1:2409:G:O6	50:H1:3643:HOH:O	2.16	0.59
1:H1:2719:A:H2'	1:H1:2720:G:H8	1.67	0.59
1:H1:2913:C:H2'	1:H1:2914:A:H5'	1.84	0.59
1:H1:3227:A:C2'	1:H1:3228:U:OP2	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:439:A:H2'	1:H1:440:C:O5'	2.02	0.59
1:H1:467:A:N6	1:H1:512:G:C6	2.70	0.59
1:H1:512:G:C2	1:H1:513:G:C4	2.91	0.59
5:HE:71:SER:HB3	5:HE:114:ASP:OD2	2.02	0.59
5:HE:86:PRO:O	5:HE:87:LEU:HD23	2.03	0.59
9:HJ:142:ILE:CD1	9:HJ:152:CYS:HB3	2.31	0.59
11:HL:5:ILE:HG21	11:HL:32:ALA:HB2	1.84	0.59
42:GU:118:ARG:HD2	18:HU:123:LEU:HD11	1.85	0.59
1:A1:1403:C:HO2'	1:A1:1434:G:HO2'	1.50	0.59
1:A1:1507:A:O4'	1:A1:1507:A:OP2	2.19	0.59
1:A1:169:A:N6	1:A1:251:A:C4	2.70	0.59
1:A1:1821:U:OP2	22:BA:192:ARG:NH1	2.35	0.59
1:A1:2634:G:C2'	1:A1:2635:C:H5''	2.32	0.59
1:A1:3288:A:H4'	23:BB:364:GLY:HA3	1.84	0.59
1:A1:631:G:O2'	1:A1:632:G:H5'	2.02	0.59
1:A1:882:G:O2'	1:A1:883:A:O5'	2.20	0.59
5:AE:142:GLU:OE1	5:AE:142:GLU:HA	2.02	0.59
7:AG:10:ILE:HA	7:AG:13:LYS:HD3	0.81	0.59
9:AJ:201:ASP:O	9:AJ:224:LEU:HD21	2.03	0.59
1:A1:1615:G:OP1	11:AL:15:THR:HG21	2.02	0.59
11:AL:5:ILE:HG21	11:AL:32:ALA:HB2	1.84	0.59
20:B2:110:A:C2	20:B2:115:G:C6	2.90	0.59
24:BC:240:ARG:O	24:BC:240:ARG:HG2	2.01	0.59
21:B3:43:A:P	25:BD:137:ARG:HH11	2.26	0.59
39:BR:56:ARG:HB3	39:BR:61:VAL:HG21	1.83	0.59
20:C2:144:U:H2'	20:C2:145:C:H5''	1.83	0.59
23:CB:85:THR:HB	23:CB:161:HIS:HB3	1.84	0.59
30:CI:86:MET:CE	1:D1:1201:G:N2	2.63	0.59
33:CL:6:TYR:CE1	16:DQ:41:VAL:HG13	2.38	0.59
34:CM:249:LYS:O	34:CM:253:GLU:HG2	2.01	0.59
47:CO:169:UNK:O	47:CO:172:UNK:HG3	2.02	0.59
47:CO:92:LYS:NZ	1:D1:882:G:OP2	2.34	0.59
37:CP:25:VAL:O	37:CP:26:ARG:HB2	2.02	0.59
21:C3:8:G:OP1	37:CP:27:ILE:HD12	2.02	0.59
43:CV:128:LEU:N	43:CV:129:PRO:HD2	2.17	0.59
43:CV:200:TRP:CG	43:CV:201:PRO:HD2	2.37	0.59
1:D1:1127:U:H2'	1:D1:1128:G:H8	1.67	0.59
1:D1:1148:U:O2	50:D1:4335:HOH:O	2.16	0.59
1:D1:1471:U:H5''	1:D1:1472:A:OP2	2.02	0.59
22:CA:192:ARG:NH1	1:D1:1821:U:OP2	2.35	0.59
1:D1:2703:G:H2'	1:D1:2740:G:H21	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CI:113:ARG:NH1	1:D1:3162:A:N6	2.51	0.59
1:D1:711:U:H3	1:D1:718:A:N6	1.98	0.59
9:DJ:113:TYR:O	9:DJ:135:VAL:HG13	2.02	0.59
9:AJ:82:ARG:HG2	9:DJ:86:ASN:CG	2.23	0.59
18:DU:91:ILE:HG22	18:DU:117:TYR:HE2	1.67	0.59
19:DX:82:SER:O	19:DX:87:LYS:NZ	2.34	0.59
19:DX:96:GLN:N	19:DX:134:THR:HG21	2.16	0.59
28:EG:33:UNK:HG3	28:EG:36:UNK:CG	2.29	0.59
35:EN:89:ASN:HD22	35:EN:109:THR:HG21	1.67	0.59
36:EO:106:LEU:CD2	36:EO:138:LEU:HD21	2.31	0.59
1:F1:1122:A:H4'	1:F1:1123:A:O5'	2.01	0.59
1:F1:1404:G:H5'	1:F1:1434:G:O2'	2.02	0.59
1:F1:1775:A:O5'	15:FP:34:LYS:NZ	2.35	0.59
1:F1:1845:U:O2	1:F1:1845:U:H2'	2.02	0.59
1:F1:2353:C:H2'	1:F1:2353:C:O2	2.01	0.59
1:F1:2557:A:C2	1:F1:2558:U:C2	2.90	0.59
1:F1:2638:G:H4'	1:F1:2685:A:O4'	2.03	0.59
1:F1:3023:C:H2'	1:F1:3024:A:H8	1.67	0.59
1:F1:3228:U:C4'	1:F1:3229:C:C5'	2.75	0.59
25:GD:50:ALA:HB1	25:GD:59:ILE:HG23	1.84	0.59
27:GF:146:ILE:HG23	27:GF:156:VAL:HG11	1.84	0.59
35:GN:52:ARG:NH1	35:GN:141:ARG:NE	2.43	0.59
41:GT:46:VAL:HG11	41:GT:51:ILE:HD11	1.84	0.59
43:GV:122:ASN:HD22	1:H1:1013:U:P	2.26	0.59
44:GW:20:HIS:CD2	44:GW:21:LYS:HB2	2.37	0.59
45:GX:42:ASN:HD21	45:GX:44:VAL:HB	1.65	0.59
1:H1:1090:A:OP1	1:H1:1091:G:H3'	2.02	0.59
1:H1:1343:G:C4'	1:H1:1344:A:OP2	2.51	0.59
1:H1:1526:G:O2'	1:H1:1527:A:H5'	2.02	0.59
1:H1:1580:G:O6	1:H1:1608:G:N7	2.35	0.59
1:H1:1598:C:H3'	1:H1:1599:G:C8	2.32	0.59
1:H1:2149:U:C2'	1:H1:2150:U:H5'	2.32	0.59
5:HE:161:LEU:O	5:HE:165:LYS:HB2	2.01	0.59
7:HG:71:VAL:HG12	7:HG:71:VAL:O	2.02	0.59
11:HL:5:ILE:HD11	11:HL:22:LYS:HG2	1.84	0.59
17:HT:32:THR:CG2	17:HT:40:LEU:HD21	2.33	0.59
19:HX:187:THR:HG22	19:HX:188:THR:N	2.18	0.59
1:A1:198:A:N3	1:A1:218:G:O2'	2.35	0.59
1:A1:3191:G:H1'	1:A1:3219:A:H62	1.68	0.59
1:A1:3344:U:H1'	1:A1:3345:A:OP1	2.03	0.59
9:AJ:145:ASN:ND2	9:AJ:146:VAL:N	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:5:ILE:CG2	11:AL:6:THR:N	2.59	0.59
12:AM:35:PHE:CD1	12:AM:65:ILE:HD12	2.38	0.59
18:AU:124:PHE:HB2	42:BU:119:LYS:HB2	1.85	0.59
1:A1:165:C:H5''	18:AU:132:LYS:NZ	2.17	0.59
18:AU:176:LYS:O	18:AU:180:ILE:HG13	2.02	0.59
18:AU:52:LEU:O	18:AU:94:LYS:HB2	2.02	0.59
21:B3:119:C:H2'	34:BM:270:PRO:HG2	1.84	0.59
22:BA:160:PRO:HG2	22:BA:163:CYS:HG	1.66	0.59
22:BA:209:ASP:O	22:BA:210:HIS:HB2	2.01	0.59
22:BA:66:ASP:OD1	22:BA:68:TYR:N	2.32	0.59
28:BG:13:UNK:O	28:BG:17:UNK:HG2	2.03	0.59
33:BL:187:SER:O	33:BL:190:GLY:N	2.36	0.59
45:BX:11:ILE:O	45:BX:11:ILE:HG13	2.02	0.59
21:C3:10:C:C5	34:CM:20:TYR:HE1	2.20	0.59
24:CC:303:GLU:O	24:CC:307:VAL:HG23	2.03	0.59
25:CD:82:ARG:HB3	25:CD:112:LEU:CD2	2.31	0.59
26:CE:73:SER:HA	26:CE:76:LYS:CE	2.33	0.59
35:CN:25:VAL:HG13	14:DO:7:GLU:CB	2.33	0.59
47:CO:170:UNK:HA	47:CO:174:UNK:HG3	1.84	0.59
37:CP:6:GLY:H	37:CP:9:ARG:HD2	1.68	0.59
1:D1:2552:A:N6	1:D1:2568:G:O2'	2.36	0.59
32:CK:45:ILE:HG12	1:D1:2716:A:C2	2.37	0.59
38:CQ:3:LYS:NZ	1:D1:398:G:N7	2.46	0.59
1:D1:47:G:C1'	1:D1:48:U:OP2	2.48	0.59
1:D1:70:C:O2	1:D1:70:C:C2'	2.47	0.59
9:DJ:23:TYR:HA	9:DJ:46:ILE:HG23	1.81	0.59
24:EC:163:VAL:O	24:EC:166:TYR:CD2	2.53	0.59
31:EJ:74:ARG:O	31:EJ:75:LYS:HB2	2.02	0.59
46:EY:42:CYS:SG	46:EY:60:CYS:HB3	2.43	0.59
1:F1:1595:A:C2	1:F1:1598:C:OP2	2.55	0.59
1:F1:1656:G:C5	1:F1:1657:C:C5	2.90	0.59
1:F1:1660:U:H1'	13:FN:38:PHE:CE2	2.37	0.59
1:F1:2429:U:H4'	1:F1:2430:G:O5'	2.03	0.59
1:F1:2507:C:O2'	1:F1:2508:U:H5'	2.02	0.59
1:F1:2727:A:O2'	1:F1:2728:A:OP2	2.19	0.59
1:F1:3228:U:O2	5:FE:142:GLU:HG3	2.01	0.59
1:F1:1858:U:OP1	3:FB:5:LYS:HE3	2.01	0.59
5:FE:42:ARG:H	5:FE:92:GLN:NE2	2.00	0.59
1:F1:615:G:H21	8:FH:79:LYS:HE2	1.67	0.59
24:GC:198:GLN:HB3	1:H1:1407:A:H5''	1.85	0.59
24:GC:275:THR:HG22	24:GC:276:THR:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:GD:38:LYS:HG2	25:GD:45:PRO:HD3	1.85	0.59
29:GH:189:LYS:HE2	29:GH:199:VAL:CG1	2.32	0.59
35:GN:64:SER:HA	35:GN:88:THR:O	2.02	0.59
38:GQ:25:ARG:HG3	38:GQ:143:ASN:ND2	2.18	0.59
38:GQ:18:LYS:HE3	1:H1:389:G:OP1	2.03	0.59
38:GQ:59:CYS:HB3	38:GQ:74:GLN:HB2	1.84	0.59
38:GQ:66:THR:CG2	38:GQ:82:GLN:HE22	2.14	0.59
1:H1:1132:U:H2'	1:H1:1133:G:H8	1.67	0.59
1:H1:11:A:H2'	1:H1:12:A:C8	2.36	0.59
1:H1:122:U:H2'	1:H1:123:C:H6	1.68	0.59
1:H1:169:A:N6	1:H1:251:A:C4	2.71	0.59
1:H1:1918:U:HO2'	1:H1:1919:A:H5''	1.66	0.59
1:H1:2186:U:H2'	1:H1:2187:C:C6	2.38	0.59
1:H1:2277:U:C2'	1:H1:2278:G:OP1	2.50	0.59
1:H1:3054:G:N7	50:H1:3918:HOH:O	2.31	0.59
1:H1:3135:A:H2'	1:H1:3136:A:C8	2.37	0.59
1:H1:3227:A:C2	5:HE:80:TYR:CZ	2.91	0.59
1:H1:3332:A:H3'	1:H1:3333:G:H5''	1.84	0.59
1:H1:72:A:C2	1:H1:73:G:C4	2.90	0.59
1:H1:745:A:H4'	17:HT:58:ASN:HD21	1.67	0.59
1:H1:761:A:H2'	1:H1:762:G:O4'	2.03	0.59
14:HO:49:ALA:HB3	14:HO:61:SER:HB2	1.83	0.59
1:A1:1002:A:OP2	35:BN:141:ARG:NH2	2.36	0.59
1:A1:1391:U:OP1	35:BN:3:ILE:HD11	2.03	0.59
1:A1:1736:G:C2	1:A1:1737:A:C2	2.91	0.59
1:A1:1752:G:H8	1:A1:1752:G:O5'	1.86	0.59
1:A1:1922:G:H2'	1:A1:1923:G:O5'	2.02	0.59
1:A1:2324:A:P	50:A1:4499:HOH:O	2.59	0.59
1:A1:3256:A:C2	1:A1:3349:U:C2	2.91	0.59
1:A1:3266:G:C2'	1:A1:3267:A:H5''	2.32	0.59
1:A1:513:G:H2'	1:A1:514:U:C6	2.38	0.59
1:A1:524:G:H4'	1:A1:525:C:OP1	2.02	0.59
1:A1:697:A:H8	1:A1:697:A:H5'	1.66	0.59
2:AA:14:LYS:HD3	3:AB:52:TYR:HD1	1.66	0.59
2:AA:26:THR:HG22	2:AA:35:ALA:HB3	1.82	0.59
7:AG:57:GLU:HA	7:AG:67:ILE:HD11	1.84	0.59
7:AG:62:LEU:HB3	13:AN:4:PHE:HE2	1.65	0.59
13:AN:83:THR:HG22	13:AN:85:TYR:N	2.16	0.59
18:AU:23:PHE:CD2	33:BL:201:ARG:HG2	2.37	0.59
23:BB:157:ARG:HD2	23:BB:178:GLU:OE1	2.03	0.59
23:BB:54:THR:HG23	23:BB:358:ASP:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BF:69:GLN:O	27:BF:72:GLN:HG2	2.02	0.59
34:BM:121:GLY:HA2	34:BM:130:PHE:CZ	2.37	0.59
36:BO:86:ASN:OD1	36:BO:90:PRO:HA	2.02	0.59
1:A1:3325:G:C4	41:BT:58:ARG:CZ	2.84	0.59
22:CA:203:VAL:CG1	22:CA:218:GLN:HG2	2.32	0.59
29:CH:171:TRP:CE2	29:CH:181:TYR:CE2	2.90	0.59
34:CM:81:TYR:O	34:CM:84:LYS:HB2	2.02	0.59
1:D1:1598:C:C6	1:D1:1599:G:C8	2.91	0.59
1:D1:1640:C:H2'	1:D1:1641:U:H6	1.65	0.59
1:D1:2256:G:C1'	1:D1:2257:A:OP1	2.51	0.59
1:D1:2429:U:H4'	1:D1:2430:G:O5'	2.02	0.59
1:D1:3181:G:H2'	1:D1:3182:A:C8	2.37	0.59
1:D1:438:A:C4	5:DE:130:PHE:CE1	2.91	0.59
6:DF:67:GLN:NE2	6:DF:75:LYS:HE3	2.18	0.59
13:DN:15:GLN:NE2	13:DN:79:HIS:CE1	2.71	0.59
16:DQ:49:THR:HG22	16:DQ:50:GLY:O	2.01	0.59
1:D1:1210:C:O3'	19:DX:171:ARG:NH2	2.35	0.59
27:EF:171:ALA:HA	27:EF:215:TYR:CD2	2.37	0.59
27:EF:36:GLN:HG3	27:EF:37:PRO:CD	2.29	0.59
34:EM:166:ALA:HB3	34:EM:173:ILE:CD1	2.32	0.59
36:EO:95:TRP:CH2	1:F1:880:U:H4'	2.36	0.59
39:ER:120:THR:O	39:ER:121:LEU:HD23	2.02	0.59
42:EU:99:LYS:O	42:EU:103:ALA:HB2	2.03	0.59
39:ER:147:ILE:HG23	42:EU:34:ILE:HD13	1.83	0.59
1:F1:1047:G:N2	1:F1:1058:C:C2	2.71	0.59
1:F1:1149:U:H2'	1:F1:1150:U:H5'	1.83	0.59
1:F1:1343:G:C4'	1:F1:1344:A:OP2	2.51	0.59
1:F1:169:A:N6	1:F1:251:A:C4	2.71	0.59
1:F1:2186:U:H2'	1:F1:2187:C:H6	1.67	0.59
1:F1:2569:A:HO2'	1:F1:2570:U:P	2.24	0.59
25:ED:124:GLY:HA3	1:F1:2663:A:C6	2.37	0.59
1:F1:2716:A:OP1	1:F1:2717:G:N2	2.34	0.59
1:F1:3044:A:C4'	1:F1:3045:A:OP2	2.51	0.59
1:F1:567:C:N4	1:F1:603:A:N1	2.50	0.59
1:F1:64:A:N6	1:F1:66:C:O2	2.35	0.59
24:EC:240:ARG:CZ	1:F1:712:G:H4'	2.33	0.59
1:F1:72:A:C2	1:F1:73:G:C5	2.91	0.59
1:F1:165:C:H5''	18:FU:132:LYS:HD2	1.85	0.59
21:G3:16:A:H2'	21:G3:17:A:C8	2.36	0.59
24:GC:191:THR:HG21	24:GC:209:ARG:NH1	2.18	0.59
29:GH:139:ARG:CG	29:GH:173:PHE:HE1	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:GE:2:ARG:HH12	30:GI:129:ARG:NH2	2.00	0.59
36:GO:42:ARG:NH2	1:H1:1626:U:OP2	2.35	0.59
45:GX:79:ARG:NH1	1:H1:1448:G:C1'	2.65	0.59
1:H1:1122:A:H4'	1:H1:1123:A:O5'	2.01	0.59
1:H1:1901:C:C5'	1:H1:1902:C:H5'	2.31	0.59
1:H1:2217:C:C4'	1:H1:2218:A:OP2	2.49	0.59
1:H1:2385:A:C2'	1:H1:2386:G:O5'	2.51	0.59
1:H1:3059:A:H2'	1:H1:3060:A:C8	2.38	0.59
23:GB:270:TYR:HD2	1:H1:3265:A:H5'	1.67	0.59
1:H1:813:C:H2'	1:H1:814:U:C6	2.37	0.59
1:H1:904:U:HO2'	1:H1:905:G:P	2.21	0.59
1:H1:919:A:H1'	1:H1:920:A:C2	2.38	0.59
1:H1:926:A:H2'	1:H1:927:G:H8	1.68	0.59
6:HF:12:VAL:HG11	6:HF:81:LEU:HD11	1.85	0.59
7:HG:13:LYS:CB	7:HG:100:ILE:HD12	2.33	0.59
41:ET:14:ARG:CZ	9:HJ:44:PRO:HB3	2.32	0.59
1:H1:1660:U:O2'	13:HN:79:HIS:CD2	2.54	0.59
1:A1:1184:U:H2'	1:A1:1185:A:O4'	2.02	0.59
1:A1:141:C:O2'	1:A1:142:A:H5'	2.02	0.59
1:A1:1504:C:OP2	50:A1:4122:HOH:O	2.15	0.59
1:A1:1507:A:O2'	1:A1:1882:A:C2'	2.50	0.59
1:A1:1595:A:C2	1:A1:1598:C:OP2	2.56	0.59
1:A1:1803:U:H2'	1:A1:1804:G:C8	2.37	0.59
1:A1:1821:U:O2'	1:A1:1822:G:C5	2.55	0.59
1:A1:1902:C:H2'	1:A1:1903:A:O4'	2.02	0.59
1:A1:2255:U:C1'	1:A1:2301:C:O4'	2.51	0.59
1:A1:3100:U:C2'	1:A1:3101:G:H5'	2.32	0.59
1:A1:356:U:O2'	24:BC:87:SER:HB2	2.03	0.59
1:A1:713:G:N2	24:BC:49:ARG:NH2	2.51	0.59
12:AM:75:LYS:HE2	12:AM:105:TYR:CE2	2.38	0.59
14:AO:6:TRP:CZ3	14:AO:40:LEU:HD12	2.37	0.59
22:BA:243:ARG:HG3	22:BA:244:THR:N	2.18	0.59
1:A1:1409:C:P	24:BC:195:ARG:NH2	2.75	0.59
24:BC:289:LEU:HD12	35:BN:24:ASN:HD22	1.68	0.59
25:BD:104:PHE:HE1	25:BD:106:ILE:CD1	2.16	0.59
27:BF:211:PHE:O	27:BF:215:TYR:HB2	2.03	0.59
29:BH:130:ASP:OD1	29:BH:131:ILE:N	2.35	0.59
30:BI:26:LEU:HD22	30:BI:100:ARG:HB2	1.85	0.59
30:BI:79:PHE:HD2	30:BI:103:ILE:HD13	1.68	0.59
35:BN:82:VAL:O	35:BN:139:LEU:HD12	2.02	0.59
42:BU:97:THR:O	42:BU:101:ARG:HG3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CE:135:LYS:H	26:CE:138:GLU:CG	2.16	0.59
35:CN:24:ASN:CG	35:CN:27:HIS:HB2	2.22	0.59
38:CQ:25:ARG:HG3	38:CQ:143:ASN:ND2	2.18	0.59
40:CS:58:VAL:HG12	40:CS:59:ARG:HG2	1.84	0.59
22:CA:49:ILE:HD12	46:CY:63:ILE:HG22	1.84	0.59
1:D1:1047:G:C2'	1:D1:1048:U:H5'	2.33	0.59
1:D1:1091:G:O2'	1:D1:1092:C:OP1	2.21	0.59
1:D1:133:C:H4'	1:D1:134:A:O5'	2.03	0.59
24:CC:77:ALA:HA	1:D1:2397:A:OP2	2.03	0.59
1:D1:2412:U:C2'	1:D1:2413:G:H5''	2.32	0.59
1:D1:795:G:O5'	1:D1:795:G:H8	1.84	0.59
5:DE:145:ARG:O	5:DE:149:ARG:HG3	2.03	0.59
8:DH:23:PHE:HB3	8:DH:31:ASN:O	2.03	0.59
8:DH:64:LYS:CG	8:DH:69:ASN:HD21	2.03	0.59
24:EC:175:PHE:CE1	24:EC:179:VAL:HG21	2.38	0.59
24:EC:163:VAL:CG2	24:EC:175:PHE:HE2	2.15	0.59
25:ED:115:LYS:HG2	25:ED:116:TYR:N	2.17	0.59
21:E3:39:U:C2	25:ED:46:VAL:CG2	2.86	0.59
26:EE:135:LYS:H	26:EE:138:GLU:CG	2.16	0.59
31:EJ:90:ARG:HB2	31:EJ:96:PHE:CD2	2.38	0.59
43:EV:60:VAL:HG13	43:EV:63:LYS:NZ	2.18	0.59
44:EW:71:ARG:HD3	44:EW:103:LEU:HD13	1.85	0.59
1:F1:1321:A:HO2'	1:F1:1322:G:P	2.22	0.59
1:F1:141:C:O2'	1:F1:142:A:H5'	2.03	0.59
1:F1:2913:C:H2'	1:F1:2914:A:H5'	1.83	0.59
1:F1:836:U:H2'	1:F1:837:G:C8	2.38	0.59
4:FC:36:GLN:OE1	4:FC:36:GLN:HA	2.03	0.59
7:FG:13:LYS:HG2	7:FG:14:LEU:N	2.17	0.59
12:FM:59:SER:OG	12:FM:66:ASN:HB3	2.02	0.59
18:FU:22:THR:HG23	18:FU:24:PHE:CD1	2.37	0.59
18:FU:87:PHE:CE2	18:FU:91:ILE:HD11	2.38	0.59
21:G3:10:C:C2	34:GM:20:TYR:HD1	2.20	0.59
21:G3:83:G:N2	21:G3:93:G:N2	2.51	0.59
24:GC:163:VAL:HA	24:GC:166:TYR:HE2	1.68	0.59
24:GC:269:ILE:HG12	24:GC:279:GLN:OE1	2.02	0.59
24:GC:32:PRO:HG2	24:GC:286:GLN:HB3	1.85	0.59
27:GF:72:GLN:NE2	27:GF:160:PRO:HG2	2.18	0.59
32:GK:129:TYR:CE2	16:HQ:7:VAL:HG21	2.38	0.59
37:GP:141:VAL:O	43:GV:71:ALA:HB1	2.02	0.59
38:GQ:9:GLU:OE1	38:GQ:10:PRO:HD2	2.01	0.59
45:GX:44:VAL:HG12	45:GX:54:MET:CE	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:121:A:N6	1:H1:150:A:N6	2.51	0.59
45:GX:56:LYS:O	1:H1:1431:U:H1'	2.03	0.59
1:H1:851:G:O2'	1:H1:1614:A:H8	1.84	0.59
36:GO:96:MET:HG2	1:H1:1746:U:H1'	1.84	0.59
1:H1:1840:U:H6	1:H1:1840:U:OP2	1.86	0.59
1:H1:2187:C:H2'	1:H1:2188:U:H5'	1.85	0.59
7:HG:27:TYR:CE2	7:HG:52:ARG:HG2	2.37	0.59
9:HJ:145:ASN:ND2	9:HJ:146:VAL:N	2.50	0.59
12:HM:15:LEU:HD23	12:HM:73:PHE:HB3	1.85	0.59
13:HN:41:VAL:HG12	13:HN:43:VAL:HG22	1.85	0.59
33:GL:196:GLN:HB3	18:HU:19:ARG:HD2	1.83	0.59
1:A1:1343:G:C4'	1:A1:1344:A:OP2	2.50	0.59
1:A1:1923:G:OP1	31:BJ:26:VAL:N	2.32	0.59
1:A1:2128:C:P	50:A1:4098:HOH:O	2.53	0.59
1:A1:268:G:H5''	33:BL:14:LYS:HZ3	1.67	0.59
1:A1:2703:G:H2'	1:A1:2740:G:H21	1.67	0.59
1:A1:2962:U:H5'	1:A1:2962:U:H6	1.66	0.59
1:A1:37:A:H5'	1:A1:38:A:OP2	2.03	0.59
1:A1:645:A:H2'	1:A1:645:A:N3	2.17	0.59
5:AE:126:HIS:CD2	5:AE:127:LYS:HG2	2.38	0.59
5:AE:42:ARG:H	5:AE:92:GLN:NE2	2.01	0.59
7:AG:13:LYS:HB2	7:AG:100:ILE:CD1	2.32	0.59
12:AM:98:THR:HG22	12:AM:99:SER:N	2.17	0.59
13:AN:72:ILE:O	13:AN:72:ILE:HG13	2.02	0.59
20:B2:25:U:C4'	20:B2:26:A:OP1	2.51	0.59
24:BC:227:LEU:O	24:BC:233:VAL:HG21	2.03	0.59
18:AU:177:VAL:HG21	32:BK:145:CYS:CB	2.32	0.59
32:BK:75:VAL:HG23	32:BK:109:PHE:HB3	1.84	0.59
33:BL:64:VAL:HG21	33:BL:106:VAL:CG2	2.33	0.59
1:A1:1124:G:H8	37:BP:116:LYS:NZ	2.01	0.59
43:BV:157:ARG:HG3	43:BV:200:TRP:CE2	2.37	0.59
21:C3:59:C:O2'	34:CM:279:PRO:HD2	2.03	0.59
22:CA:20:HIS:CD2	22:CA:193:LYS:O	2.55	0.59
24:CC:105:ARG:CG	24:CC:105:ARG:NH1	2.63	0.59
27:CF:171:ALA:HA	27:CF:215:TYR:CD2	2.38	0.59
27:CF:196:VAL:CG2	27:CF:204:LEU:HD11	2.33	0.59
33:CL:183:SER:C	33:CL:191:ASN:HD22	2.05	0.59
35:CN:53:LEU:HD23	35:CN:84:THR:HG22	1.84	0.59
47:CO:106:LEU:HB3	47:CO:120:TYR:CE1	2.38	0.59
37:CP:91:VAL:HG12	37:CP:92:LYS:O	2.01	0.59
1:D1:1696:C:O2'	1:D1:1697:U:H5'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2253:U:O2'	1:D1:2254:A:P	2.61	0.59
1:D1:2557:A:C2	1:D1:2564:G:C4	2.91	0.59
23:CB:253:TRP:CE3	1:D1:2929:A:C8	2.90	0.59
1:D1:3112:A:C2'	1:D1:3113:G:H5'	2.31	0.59
1:D1:2135:A:N7	2:DA:2:THR:HG23	2.18	0.59
6:DF:125:SER:O	6:DF:126:LYS:HB2	2.03	0.59
19:DX:113:LEU:CD2	19:DX:140:THR:HG21	2.32	0.59
23:EB:121:ASN:HB3	1:F1:3275:A:H62	1.66	0.59
24:EC:308:VAL:CG1	35:EN:40:ARG:NH1	2.61	0.59
32:EK:75:VAL:HG23	32:EK:109:PHE:CB	2.33	0.59
21:E3:33:U:C5	34:EM:212:TYR:CE1	2.90	0.59
38:EQ:33:GLU:OE1	38:EQ:62:PHE:CA	2.47	0.59
39:ER:73:THR:HG22	39:ER:74:PRO:O	2.03	0.59
43:EV:48:TYR:CE1	43:EV:183:HIS:CG	2.90	0.59
1:F1:1869:G:N1	50:F1:4042:HOH:O	2.31	0.59
1:F1:499:U:H5''	1:F1:500:G:OP2	2.02	0.59
1:F1:546:A:H2'	1:F1:547:U:H6	1.67	0.59
5:FE:173:TYR:CD2	6:FF:106:PHE:HA	2.38	0.59
12:FM:75:LYS:HE2	12:FM:105:TYR:CE2	2.37	0.59
12:FM:98:THR:HG22	12:FM:99:SER:N	2.17	0.59
14:FO:58:ILE:HG21	14:FO:90:VAL:HG21	1.85	0.59
1:F1:114:A:C5'	16:FQ:37:ARG:HH22	2.15	0.59
1:F1:1239:G:N3	19:FX:128:HIS:HE1	2.01	0.59
20:G2:12:A:H2'	20:G2:13:A:H8	1.67	0.59
20:G2:1:A:C4'	20:G2:2:G:OP1	2.50	0.59
22:GA:98:ALA:HB3	22:GA:101:ASN:ND2	2.18	0.59
23:GB:171:GLN:NE2	1:H1:3273:U:H5''	2.18	0.59
25:GD:82:ARG:O	25:GD:86:VAL:HG23	2.01	0.59
32:GK:110:PHE:CD2	32:GK:128:LYS:HD2	2.38	0.59
39:GR:84:MET:CE	39:GR:144:ALA:HB2	2.33	0.59
45:GX:11:ILE:HG13	45:GX:11:ILE:O	2.02	0.59
1:H1:1435:C:H5'	1:H1:1435:C:H6	1.66	0.59
1:H1:1752:G:O5'	1:H1:1752:G:H8	1.85	0.59
1:H1:1923:G:O6	50:H1:4169:HOH:O	2.14	0.59
1:H1:2353:C:O2	1:H1:2353:C:H2'	2.02	0.59
1:H1:2388:G:O2'	1:H1:2389:G:OP2	2.19	0.59
1:H1:2876:U:C4	1:H1:2899:C:C5	2.90	0.59
1:H1:316:A:C2	1:H1:317:A:C4	2.91	0.59
1:H1:635:A:C2'	1:H1:636:U:O5'	2.50	0.59
1:H1:70:C:C2'	1:H1:70:C:O2	2.45	0.59
8:HH:54:LYS:HD2	8:HH:108:LEU:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:HL:49:CYS:SG	11:HL:51:VAL:HG23	2.43	0.59
1:A1:139:A:HO2'	1:A1:140:A:H8	1.51	0.59
1:A1:219:A:C2	1:A1:1416:U:C2'	2.84	0.59
1:A1:2600:U:H2'	1:A1:2601:U:H6	1.66	0.59
1:A1:629:A:H1'	1:A1:630:G:N7	2.17	0.59
1:A1:92:G:H2'	1:A1:93:A:C8	2.37	0.59
1:A1:93:A:H5''	32:BK:36:LYS:HB2	1.85	0.59
6:AF:112:MET:O	6:AF:116:LYS:HG3	2.03	0.59
15:AP:58:PRO:O	15:AP:61:ALA:HB3	2.03	0.59
23:BB:117:ARG:NH1	23:BB:174:ASN:O	2.35	0.59
23:BB:26:ARG:NH1	23:BB:176:ILE:O	2.26	0.59
34:BM:18:THR:O	34:BM:18:THR:HG23	2.01	0.59
34:BM:228:PHE:HD2	34:BM:231:TRP:CD1	2.20	0.59
41:BT:11:CYS:HG	41:BT:13:TYR:HD2	1.50	0.59
45:BX:25:GLU:OE2	45:BX:52:ARG:NH2	2.18	0.59
20:C2:13:A:H2'	20:C2:14:C:C6	2.37	0.59
23:CB:103:THR:HG22	23:CB:104:THR:N	2.17	0.59
30:CI:127:ARG:O	1:D1:1343:G:H5''	2.03	0.59
30:CI:107:ILE:HG13	30:CI:159:ARG:NH1	2.17	0.59
30:CI:10:ALA:HB1	30:CI:40:ILE:HG12	1.83	0.59
32:CK:145:CYS:CB	18:DU:177:VAL:HG21	2.33	0.59
34:CM:166:ALA:HB1	34:CM:171:ILE:HD12	1.85	0.59
35:CN:82:VAL:HA	35:CN:102:CYS:O	2.02	0.59
35:CN:85:SER:OG	35:CN:86:THR:N	2.36	0.59
39:CR:76:THR:O	39:CR:76:THR:HG22	2.02	0.59
41:CT:22:ARG:NE	41:CT:32:PHE:CD2	2.71	0.59
1:D1:1048:U:C2'	1:D1:1049:U:H5''	2.25	0.59
1:D1:1053:A:H1'	1:D1:1054:G:P	2.43	0.59
1:D1:155:A:C4'	1:D1:156:A:OP1	2.51	0.59
1:D1:2101:G:C8	1:D1:2101:G:H5'	2.37	0.59
1:D1:2277:U:C2'	1:D1:2278:G:OP1	2.51	0.59
1:D1:2380:U:H4'	1:D1:2381:A:OP1	2.03	0.59
27:CF:46:ARG:NE	1:D1:2518:A:H5'	2.18	0.59
1:D1:513:G:H2'	1:D1:514:U:H6	1.68	0.59
1:D1:546:A:H2'	1:D1:547:U:H6	1.67	0.59
5:DE:69:LEU:HD11	5:DE:114:ASP:H	1.67	0.59
7:DG:43:PHE:CD2	7:DG:90:MET:HE2	2.38	0.59
20:E2:137:G:N2	33:EL:112:GLU:HG2	2.18	0.59
20:E2:44:A:OP1	2:FA:67:TYR:HB3	2.03	0.59
23:EB:19:ARG:O	23:EB:271:HIS:CE1	2.55	0.59
23:EB:56:ILE:HG21	23:EB:354:LEU:HD22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:166:TYR:O	24:EC:222:THR:HB	2.03	0.59
24:EC:275:THR:HG22	24:EC:276:THR:N	2.18	0.59
38:EQ:97:LEU:O	38:EQ:100:LEU:HB2	2.03	0.59
38:EQ:9:GLU:OE1	38:EQ:10:PRO:HD2	2.03	0.59
40:ES:15:ARG:O	40:ES:19:PHE:HD1	1.86	0.59
40:ES:84:ILE:O	40:ES:84:ILE:HG22	2.02	0.59
43:EV:164:THR:O	43:EV:168:LYS:HG3	2.02	0.59
1:F1:2380:U:H4'	1:F1:2381:A:OP1	2.02	0.59
1:F1:169:A:N6	1:F1:251:A:C5	2.71	0.59
1:F1:2865:G:H2'	1:F1:2866:G:H8	1.67	0.59
1:F1:512:G:C2	1:F1:513:G:C4	2.91	0.59
7:FG:60:ALA:HB3	7:FG:67:ILE:HD11	1.84	0.59
7:FG:8:ASP:HA	7:FG:11:GLN:NE2	2.17	0.59
14:FO:87:VAL:CG2	14:FO:115:HIS:CD2	2.86	0.59
1:F1:979:U:C1'	17:FT:12:GLN:HE21	2.11	0.59
18:FU:100:LYS:CE	18:FU:102:ARG:HH21	2.16	0.59
33:GL:55:ASN:HD22	1:H1:148:G:H5''	1.68	0.59
33:GL:93:LYS:HE3	1:H1:275:U:O2	2.01	0.59
38:GQ:133:ARG:NH2	1:H1:2351:A:N3	2.50	0.59
1:H1:1595:A:OP2	1:H1:1596:U:H5	1.86	0.59
1:H1:2557:A:C2	1:H1:2558:U:C2	2.91	0.59
1:H1:282:G:N3	1:H1:282:G:H2'	2.18	0.59
1:H1:2906:G:H5''	1:H1:2906:G:H8	1.68	0.59
1:H1:292:C:C5'	1:H1:292:C:H6	2.15	0.59
1:H1:302:G:C2	1:H1:2766:A:C8	2.90	0.59
1:H1:3185:G:H4'	1:H1:3186:G:OP2	2.02	0.59
1:H1:446:G:H2'	1:H1:447:G:C8	2.38	0.59
1:H1:633:C:C2'	1:H1:634:G:OP1	2.51	0.59
4:HC:14:LYS:HG3	4:HC:77:THR:OG1	2.02	0.59
33:GL:16:SER:HB3	16:HQ:49:THR:HG23	1.85	0.59
1:A1:1185:A:HO2'	1:A1:1357:A:H2	1.50	0.59
1:A1:1714:C:H2'	1:A1:1715:U:H5'	1.84	0.59
1:A1:1742:G:C2	1:A1:1751:A:C2	2.91	0.59
1:A1:1832:G:OP2	50:A1:4416:HOH:O	2.17	0.59
1:A1:2244:G:H2'	1:A1:2245:G:C8	2.38	0.59
1:A1:2744:C:O2'	37:BP:49:HIS:HD2	1.85	0.59
1:A1:2761:U:O2	18:AU:190:TRP:CZ2	2.55	0.59
1:A1:3045:A:H4'	1:A1:3046:A:OP1	2.03	0.59
1:A1:453:A:H2'	1:A1:454:A:C8	2.38	0.59
1:A1:596:A:H2'	1:A1:597:A:C8	2.38	0.59
1:A1:919:A:H1'	1:A1:920:A:C2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3228:U:N3	5:AE:146:LYS:HG3	2.16	0.59
8:AH:64:LYS:CG	8:AH:69:ASN:HD21	2.03	0.59
13:AN:41:VAL:HG12	13:AN:43:VAL:CG2	2.33	0.59
19:AX:29:PRO:O	19:AX:30:ILE:HG22	2.03	0.59
20:B2:145:C:H2'	20:B2:146:A:H8	1.68	0.59
22:BA:105:ILE:CG2	22:BA:147:THR:HG21	2.33	0.59
25:BD:115:LYS:HG2	25:BD:116:TYR:N	2.18	0.59
32:BK:128:LYS:HB3	32:BK:129:TYR:CD1	2.37	0.59
34:BM:68:THR:HB	34:BM:71:CYS:O	2.03	0.59
37:BP:6:GLY:H	37:BP:9:ARG:HD2	1.68	0.59
24:CC:308:VAL:HG12	35:CN:40:ARG:HH11	1.68	0.59
24:CC:69:ALA:HB3	24:CC:97:PHE:CZ	2.38	0.59
32:CK:81:TRP:CZ2	32:CK:123:VAL:CG2	2.85	0.59
33:CL:148:ILE:O	33:CL:151:ILE:HG22	2.02	0.59
33:CL:15:GLN:NE2	1:D1:294:A:OP1	2.36	0.59
33:CL:93:LYS:HG3	1:D1:288:A:C2	2.38	0.59
34:CM:38:ILE:HD12	37:CP:70:ARG:CZ	2.33	0.59
47:CO:154:UNK:O	47:CO:157:UNK:HG3	2.03	0.59
40:CS:34:LEU:HD23	40:CS:105:LEU:HB2	1.85	0.59
1:D1:122:U:H2'	1:D1:123:C:H6	1.68	0.59
1:D1:1606:U:O2'	1:D1:1607:U:H5'	2.02	0.59
1:D1:1937:G:N3	1:D1:2116:A:H2'	2.17	0.59
1:D1:2244:G:H2'	1:D1:2245:G:C8	2.37	0.59
22:CA:68:TYR:HE1	1:D1:2520:G:O6	1.85	0.59
26:CE:171:ARG:NH2	1:D1:2886:G:OP1	2.35	0.59
1:D1:3344:U:H1'	1:D1:3345:A:OP1	2.03	0.59
1:D1:446:G:H2'	1:D1:447:G:H8	1.68	0.59
1:D1:467:A:C6	1:D1:468:A:C6	2.91	0.59
1:D1:499:U:H5''	1:D1:500:G:OP2	2.02	0.59
1:D1:623:G:N2	1:D1:633:C:C2	2.71	0.59
5:DE:124:LYS:HE2	5:DE:132:ALA:HB3	1.84	0.59
5:DE:4:GLY:N	5:DE:5:PRO:CD	2.66	0.59
9:DJ:117:ILE:HB	9:DJ:121:LEU:HD22	1.84	0.59
9:DJ:5:CYS:SG	9:DJ:13:ILE:HD13	2.43	0.59
12:DM:98:THR:HG22	12:DM:99:SER:N	2.18	0.59
27:EF:196:VAL:CG1	27:EF:200:ASP:HB2	2.30	0.59
40:ES:34:LEU:HD23	40:ES:105:LEU:HB2	1.83	0.59
42:EU:25:LEU:O	42:EU:28:GLU:HB3	2.02	0.59
1:F1:1464:U:H2'	1:F1:1465:U:C6	2.38	0.59
39:ER:38:PHE:CD1	1:F1:1605:G:C2	2.90	0.59
1:F1:1702:G:N7	12:FM:76:ARG:NH2	2.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:218:G:OP1	1:F1:218:G:H8	1.86	0.59
1:F1:3146:G:O6	1:F1:3248:C:N4	2.36	0.59
1:F1:898:C:H3'	1:F1:899:U:H4'	1.83	0.59
1:F1:926:A:H2'	1:F1:927:G:H8	1.65	0.59
6:FF:111:VAL:O	6:FF:115:LYS:HG3	2.03	0.59
6:FF:12:VAL:HG11	6:FF:81:LEU:HD11	1.85	0.59
11:FL:5:ILE:HD11	11:FL:22:LYS:HG2	1.83	0.59
19:FX:5:ALA:O	19:FX:8:GLU:HG3	2.02	0.59
21:G3:40:C:H2'	21:G3:40:C:O2	2.02	0.59
21:G3:62:U:O2'	21:G3:63:A:OP2	2.17	0.59
23:GB:253:TRP:CE3	1:H1:2929:A:C8	2.91	0.59
26:GE:73:SER:HA	26:GE:76:LYS:CE	2.33	0.59
27:GF:65:LYS:HE2	27:GF:225:TRP:HE3	1.68	0.59
32:GK:100:PRO:HB3	18:HU:164:LYS:HZ1	1.67	0.59
37:GP:25:VAL:O	37:GP:26:ARG:HB2	2.01	0.59
1:H1:141:C:O2'	1:H1:142:A:H5'	2.03	0.59
1:H1:1772:G:H2'	1:H1:1773:G:H5'	1.83	0.59
1:H1:1942:C:C5'	1:H1:1942:C:H6	2.16	0.59
1:H1:2149:U:C2'	1:H1:2150:U:C5'	2.81	0.59
1:H1:2552:A:N6	1:H1:2568:G:O2'	2.36	0.59
1:H1:2718:U:P	50:H1:4319:HOH:O	2.61	0.59
1:H1:2859:G:N7	50:H1:4079:HOH:O	2.31	0.59
1:H1:3064:A:N6	50:H1:3920:HOH:O	2.35	0.59
1:H1:3227:A:O2'	1:H1:3228:U:OP2	2.18	0.59
1:H1:487:G:OP2	18:HU:161:LYS:NZ	2.32	0.59
1:H1:827:C:H2'	1:H1:828:C:C6	2.38	0.59
3:HB:2:GLY:N	50:HB:103:HOH:O	2.35	0.59
13:HN:114:LEU:HD22	13:HN:118:PHE:HE1	1.67	0.59
18:HU:176:LYS:O	18:HU:180:ILE:HG13	2.02	0.59
1:A1:2997:A:C2'	1:A1:2998:G:H5'	2.33	0.58
1:A1:3178:U:H5''	6:AF:97:LYS:NZ	2.18	0.58
1:A1:566:U:H2'	1:A1:567:C:H5'	1.85	0.58
1:A1:761:A:H2'	1:A1:762:G:O4'	2.03	0.58
5:AE:173:TYR:CD2	6:AF:106:PHE:HA	2.38	0.58
13:AN:33:THR:HB	13:AN:35:ASP:H	1.68	0.58
14:AO:31:VAL:O	45:BX:89:MET:HE2	2.03	0.58
15:AP:74:LYS:HG3	15:AP:74:LYS:O	2.03	0.58
18:AU:168:ASN:O	18:AU:172:LEU:HG	2.02	0.58
18:AU:60:THR:HG21	32:BK:68:ASN:HB3	1.80	0.58
20:B2:12:A:H2'	20:B2:13:A:H8	1.67	0.58
22:BA:20:HIS:HD2	22:BA:193:LYS:O	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BC:302:ASN:OD1	43:BV:11:LYS:NZ	2.36	0.58
27:BF:183:VAL:O	27:BF:183:VAL:HG12	2.02	0.58
39:BR:84:MET:CE	39:BR:144:ALA:HB2	2.33	0.58
22:CA:66:ASP:OD1	22:CA:68:TYR:N	2.32	0.58
27:CF:131:HIS:CE1	1:D1:117:G:C4	2.91	0.58
28:CG:13:UNK:O	28:CG:17:UNK:HG2	2.02	0.58
29:CH:140:VAL:HG12	29:CH:141:LYS:N	2.18	0.58
38:CQ:36:ARG:NH1	38:CQ:64:ARG:HG3	2.18	0.58
43:CV:88:GLY:HA3	1:D1:1185:A:H5''	1.84	0.58
1:D1:1107:A:H5''	1:D1:1108:A:OP2	2.02	0.58
1:D1:1415:C:H2'	1:D1:1415:C:O2	2.03	0.58
1:D1:1580:G:O5'	1:D1:1580:G:H8	1.84	0.58
1:D1:1662:A:H5'	11:DL:76:ARG:CZ	2.31	0.58
1:D1:24:A:N3	1:D1:327:U:O2'	2.27	0.58
1:D1:2550:U:H5'	1:D1:2551:A:O5'	2.01	0.58
1:D1:3057:U:H2'	50:D1:4511:HOH:O	2.01	0.58
1:D1:3091:G:O2'	1:D1:3092:A:H5'	2.02	0.58
1:D1:3332:A:H3'	1:D1:3333:G:H5''	1.84	0.58
1:D1:432:G:H4'	1:D1:433:C:OP1	2.03	0.58
1:D1:530:C:H2'	1:D1:531:C:C6	2.38	0.58
9:DJ:71:LEU:HD13	9:DJ:97:ILE:HD11	1.83	0.58
1:D1:3167:U:O2'	19:DX:188:THR:HB	2.03	0.58
37:CP:146:ASN:HB3	19:DX:39:LEU:HD23	1.85	0.58
23:EB:216:LEU:HD21	23:EB:274:THR:HG23	1.84	0.58
25:ED:50:ALA:HB1	25:ED:59:ILE:HG23	1.83	0.58
34:EM:153:THR:O	34:EM:153:THR:HG22	2.02	0.58
34:EM:39:GLN:HG2	34:EM:40:ASP:H	1.67	0.58
34:EM:83:LEU:HB3	34:EM:88:VAL:HG21	1.84	0.58
36:EO:15:LEU:HD21	36:EO:45:ILE:HD13	1.85	0.58
37:EP:41:ASP:HB3	37:EP:97:ARG:NH1	2.18	0.58
1:F1:1870:C:H2'	1:F1:1870:C:O2	2.03	0.58
1:F1:2308:A:P	50:F1:4380:HOH:O	2.60	0.58
1:F1:236:G:H2'	1:F1:237:A:H8	1.68	0.58
1:F1:2390:G:C8	50:F1:3945:HOH:O	2.52	0.58
1:F1:3071:C:O2'	1:F1:3072:G:H5'	2.02	0.58
1:F1:3298:U:C4'	1:F1:3299:G:OP2	2.51	0.58
23:EB:378:PHE:CG	1:F1:3325:G:N2	2.71	0.58
1:F1:439:A:C2'	1:F1:440:C:O5'	2.51	0.58
1:F1:558:U:H2'	1:F1:559:G:H8	1.65	0.58
1:F1:549:G:C6	1:F1:619:G:N2	2.71	0.58
1:F1:631:G:O2'	1:F1:632:G:H5'	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:69:LEU:HD11	5:FE:114:ASP:H	1.67	0.58
9:FJ:17:CYS:HB2	9:FJ:25:LEU:O	2.03	0.58
1:F1:801:U:H5'	17:FT:37:PRO:HB3	1.84	0.58
18:FU:52:LEU:O	18:FU:94:LYS:HB2	2.03	0.58
24:GC:148:ARG:HE	24:GC:187:ARG:HD2	1.68	0.58
24:GC:316:THR:O	24:GC:317:HIS:HD2	1.86	0.58
32:GK:75:VAL:HG23	32:GK:109:PHE:CB	2.32	0.58
34:GM:90:THR:O	34:GM:231:TRP:HZ3	1.86	0.58
36:GO:84:THR:O	36:GO:88:ARG:HG3	2.03	0.58
46:GY:73:THR:C	46:GY:75:PRO:HD2	2.23	0.58
1:H1:1190:U:H2'	1:H1:1191:G:C8	2.37	0.58
1:H1:1185:A:O2'	1:H1:1357:A:H2	1.85	0.58
1:H1:1798:U:H5'	1:H1:1799:C:O4'	2.03	0.58
1:H1:2606:U:H4'	1:H1:2633:C:C5	2.38	0.58
1:H1:577:C:O2'	1:H1:578:G:H5'	2.02	0.58
1:H1:3227:A:O2'	5:HE:86:PRO:HG3	2.01	0.58
14:HO:118:ASN:O	14:HO:122:GLN:HG2	2.03	0.58
1:A1:169:A:N7	1:A1:250:U:O4	2.36	0.58
1:A1:1737:A:O2'	1:A1:1738:A:H8	1.83	0.58
1:A1:2100:A:C2	1:A1:2101:G:C8	2.91	0.58
1:A1:2277:U:C2'	1:A1:2278:G:OP1	2.51	0.58
1:A1:2536:A:H2'	1:A1:2537:C:C6	2.38	0.58
1:A1:926:A:H2'	1:A1:927:G:H8	1.66	0.58
7:AG:27:TYR:CE2	7:AG:52:ARG:HG2	2.38	0.58
19:AX:16:MET:HG2	19:AX:17:LYS:H	1.68	0.58
28:BG:28:UNK:HB1	28:BG:112:UNK:HG3	1.84	0.58
29:BH:153:THR:O	29:BH:156:LYS:HB3	2.04	0.58
1:A1:1201:G:N2	30:BI:86:MET:CE	2.61	0.58
34:BM:153:THR:HG22	34:BM:153:THR:O	2.04	0.58
20:C2:1:A:C4'	20:C2:2:G:OP1	2.51	0.58
21:C3:59:C:H2'	21:C3:60:C:H6	1.68	0.58
21:C3:74:A:O2'	19:DX:64:LYS:NZ	2.23	0.58
22:CA:211:PRO:HA	50:CA:301:HOH:O	2.02	0.58
24:CC:81:ILE:HD13	24:CC:101:CYS:SG	2.44	0.58
28:CG:28:UNK:HB1	28:CG:112:UNK:HG3	1.83	0.58
40:CS:6:GLU:N	40:CS:6:GLU:OE1	2.33	0.58
43:CV:82:PHE:CZ	43:CV:111:GLY:HA3	2.37	0.58
1:D1:1207:A:O2'	1:D1:1208:U:P	2.59	0.58
1:D1:1306:C:H2'	1:D1:1307:C:C6	2.38	0.58
1:D1:1595:A:OP2	1:D1:1596:U:H5	1.86	0.58
22:CA:201:ARG:HD2	1:D1:2182:G:O6	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2239:A:C2'	1:D1:2240:C:H5'	2.34	0.58
25:CD:51:ARG:NH2	1:D1:2656:A:OP1	2.28	0.58
1:D1:2906:G:H8	1:D1:2906:G:H5''	1.67	0.58
1:D1:292:C:H6	1:D1:292:C:C5'	2.15	0.58
38:CQ:71:ARG:HD3	1:D1:3269:G:H1'	1.85	0.58
1:D1:645:A:H2'	1:D1:645:A:N3	2.18	0.58
24:CC:119:ARG:HH21	1:D1:705:A:H4'	1.68	0.58
32:CK:132:LYS:HG3	1:D1:739:G:OP1	2.03	0.58
11:DL:49:CYS:SG	11:DL:51:VAL:HG23	2.43	0.58
12:DM:35:PHE:CD1	12:DM:65:ILE:HD12	2.37	0.58
13:DN:113:THR:O	13:DN:117:VAL:HG23	2.03	0.58
20:E2:145:C:H2'	20:E2:146:A:H8	1.66	0.58
21:E3:20:U:C2'	21:E3:21:G:H5'	2.34	0.58
21:E3:28:C:H5''	25:ED:137:ARG:HG2	1.85	0.58
32:EK:73:PRO:HB2	32:EK:109:PHE:HA	1.85	0.58
32:EK:8:THR:CG2	1:F1:685:G:H5'	2.32	0.58
21:E3:116:A:O3'	34:EM:260:ARG:NH2	2.36	0.58
34:EM:6:VAL:O	34:EM:6:VAL:HG13	2.03	0.58
40:ES:34:LEU:HD12	40:ES:44:VAL:O	2.03	0.58
43:EV:200:TRP:CG	43:EV:201:PRO:HD2	2.38	0.58
1:F1:114:A:H4'	16:FQ:37:ARG:NH2	2.16	0.58
1:F1:1742:G:C2	1:F1:1751:A:C2	2.90	0.58
1:F1:2149:U:C2'	1:F1:2150:U:C5'	2.81	0.58
1:F1:672:C:N3	1:F1:2369:C:O2'	2.35	0.58
1:F1:2557:A:C2	1:F1:2564:G:C4	2.91	0.58
1:F1:3228:U:H5''	1:F1:3229:C:H5''	1.84	0.58
5:FE:54:LEU:HB2	5:FE:94:TYR:O	2.03	0.58
8:FH:33:ASN:HA	8:FH:94:ASN:ND2	2.18	0.58
13:FN:114:LEU:O	13:FN:118:PHE:HD1	1.85	0.58
14:FO:32:THR:HG22	14:FO:34:ARG:H	1.67	0.58
33:EL:6:TYR:CD1	16:FQ:41:VAL:HG13	2.38	0.58
18:FU:91:ILE:HG22	18:FU:117:TYR:HE2	1.67	0.58
18:FU:161:LYS:HG3	18:FU:161:LYS:O	2.02	0.58
23:GB:105:VAL:HG21	23:GB:146:LEU:HD23	1.85	0.58
25:GD:115:LYS:HG2	25:GD:116:TYR:N	2.17	0.58
27:GF:153:ILE:HG22	27:GF:157:ILE:HG13	1.85	0.58
27:GF:68:PRO:HD3	27:GF:225:TRP:NE1	2.16	0.58
29:GH:43:VAL:HG11	29:GH:197:VAL:CG2	2.33	0.58
35:GN:173:LYS:CE	1:H1:87:A:OP2	2.51	0.58
35:GN:91:GLU:CG	1:H1:701:A:H3'	2.30	0.58
39:GR:76:THR:O	39:GR:76:THR:HG22	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:GV:83:ALA:O	43:GV:111:GLY:HA2	2.03	0.58
1:H1:1184:U:H2'	1:H1:1185:A:O4'	2.03	0.58
1:H1:1196:A:N6	1:H1:1357:A:C8	2.71	0.58
1:H1:123:C:H2'	1:H1:124:U:C6	2.39	0.58
1:H1:1606:U:O2'	1:H1:1607:U:H5'	2.02	0.58
1:H1:2265:A:H8	1:H1:2265:A:H5''	1.68	0.58
1:H1:2882:U:H2'	1:H1:2883:G:H8	1.68	0.58
1:H1:268:G:N2	1:H1:294:A:OP2	2.32	0.58
1:H1:3190:A:N6	1:H1:3191:G:N2	2.51	0.58
38:GQ:71:ARG:HD3	1:H1:3269:G:H1'	1.85	0.58
1:H1:46:A:C4'	1:H1:47:G:O5'	2.51	0.58
5:HE:173:TYR:CG	6:HF:106:PHE:CD1	2.92	0.58
17:HT:50:ASP:OD1	17:HT:51:PRO:HD2	2.03	0.58
1:A1:147:U:H1'	27:BF:155:LEU:HD13	1.85	0.58
1:A1:1973:A:H2'	1:A1:1974:U:C6	2.39	0.58
1:A1:2397:A:H1'	1:A1:2859:G:O4'	2.02	0.58
1:A1:294:A:OP1	33:BL:15:GLN:NE2	2.36	0.58
1:A1:424:G:H2'	1:A1:425:U:H5'	1.85	0.58
1:A1:546:A:H2'	1:A1:547:U:H6	1.68	0.58
1:A1:619:G:H4'	1:A1:620:A:N3	2.17	0.58
1:A1:644:A:H2'	1:A1:645:A:H4'	1.84	0.58
1:A1:71:U:HO2'	1:A1:72:A:P	2.18	0.58
1:A1:805:A:H5'	35:BN:162:HIS:O	2.04	0.58
7:AG:13:LYS:HG2	7:AG:14:LEU:H	1.67	0.58
12:AM:35:PHE:CE1	12:AM:39:LEU:HD11	2.38	0.58
14:AO:87:VAL:CG2	14:AO:115:HIS:CD2	2.87	0.58
23:BB:24:HIS:CE1	23:BB:28:ARG:NH1	2.64	0.58
24:BC:166:TYR:O	24:BC:222:THR:HB	2.02	0.58
24:BC:295:ILE:HG22	24:BC:299:ILE:HG13	1.86	0.58
27:BF:149:ASP:OD2	27:BF:176:LYS:HG2	2.03	0.58
29:BH:140:VAL:HG12	29:BH:141:LYS:N	2.19	0.58
34:BM:122:GLN:HG2	34:BM:124:LYS:O	2.04	0.58
1:A1:1189:U:H4'	45:BX:59:PHE:CE1	2.38	0.58
14:AO:25:THR:O	45:BX:86:ILE:HD13	2.03	0.58
21:C3:20:U:C2'	21:C3:21:G:H5'	2.33	0.58
24:CC:295:ILE:HG22	24:CC:299:ILE:HG13	1.86	0.58
29:CH:169:GLN:O	29:CH:178:ARG:HG3	2.03	0.58
31:CJ:51:SER:OG	50:CJ:303:HOH:O	1.85	0.58
42:CU:22:LEU:HD21	42:CU:59:LEU:HD21	1.86	0.58
1:D1:1358:U:H4'	1:D1:1359:A:OP2	2.04	0.58
1:D1:1394:G:H8	1:D1:1394:G:O5'	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:169:A:N6	1:D1:251:A:C4	2.70	0.58
1:D1:361:A:H2'	1:D1:362:G:C5'	2.22	0.58
1:D1:1869:G:O2'	2:DA:5:THR:HG22	2.02	0.58
5:DE:63:VAL:HG12	5:DE:76:VAL:HG13	1.83	0.58
14:DO:87:VAL:CG2	14:DO:115:HIS:CD2	2.86	0.58
32:CK:142:GLY:C	18:DU:173:ARG:HH21	2.06	0.58
19:DX:5:ALA:O	19:DX:8:GLU:HG3	2.02	0.58
22:EA:98:ALA:HB3	22:EA:101:ASN:ND2	2.17	0.58
23:EB:117:ARG:NH1	23:EB:174:ASN:O	2.34	0.58
27:EF:133:THR:O	27:EF:137:GLU:HG3	2.03	0.58
27:EF:125:LEU:HD11	27:EF:191:VAL:CG1	2.32	0.58
32:EK:50:TRP:HD1	35:EN:156:PRO:HD2	1.67	0.58
46:EY:8:VAL:HG13	46:EY:11:THR:HB	1.85	0.58
1:F1:1050:C:H2'	1:F1:1051:C:H1'	1.84	0.58
1:F1:1598:C:C6	1:F1:1599:G:C8	2.91	0.58
1:F1:1937:G:N3	1:F1:2116:A:H2'	2.18	0.58
1:F1:2132:U:H5''	50:F1:3909:HOH:O	2.03	0.58
1:F1:281:G:H2'	1:F1:285:U:C6	2.39	0.58
1:F1:292:C:C5'	1:F1:292:C:H6	2.16	0.58
1:F1:467:A:C6	1:F1:468:A:C6	2.91	0.58
1:F1:566:U:H2'	1:F1:567:C:H5'	1.85	0.58
35:EN:166:TYR:CE1	1:F1:692:A:H4'	2.37	0.58
1:F1:842:A:C8	2:FA:15:THR:CG2	2.82	0.58
3:FB:32:ASP:OD1	3:FB:32:ASP:N	2.31	0.58
11:FL:73:THR:HG22	11:FL:74:VAL:H	1.67	0.58
1:F1:3167:U:O2'	19:FX:188:THR:HB	2.03	0.58
22:GA:32:VAL:HA	22:GA:124:ARG:HH11	1.67	0.58
23:GB:30:ARG:NH2	1:H1:3127:U:C6	2.72	0.58
26:GE:178:TYR:HB3	10:HK:89:TYR:CE2	2.38	0.58
30:GI:80:TRP:CH2	30:GI:84:ARG:NH1	2.72	0.58
35:GN:158:GLN:CB	50:H1:4322:HOH:O	2.31	0.58
35:GN:89:ASN:HD22	35:GN:109:THR:HG21	1.66	0.58
37:GP:34:TYR:CD1	37:GP:72:ILE:HD11	2.38	0.58
38:GQ:131:THR:HG23	1:H1:1533:G:N2	2.15	0.58
42:GU:118:ARG:HH11	18:HU:123:LEU:HD21	1.67	0.58
42:GU:97:THR:HG22	42:GU:98:LYS:N	2.17	0.58
43:GV:51:GLU:O	43:GV:54:ALA:HB3	2.03	0.58
1:H1:1047:G:C2'	1:H1:1048:U:C5'	2.80	0.58
1:H1:146:U:H5''	1:H1:146:U:H6	1.68	0.58
1:H1:164:A:H2'	1:H1:165:C:H5'	1.83	0.58
1:H1:1724:U:O2'	1:H1:1725:A:H5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1933:A:N7	50:H1:3910:HOH:O	2.32	0.58
1:H1:2263:U:H3'	1:H1:2264:U:H5''	1.84	0.58
1:H1:2292:U:H2'	1:H1:2294:A:N7	2.17	0.58
1:H1:281:G:H2'	1:H1:285:U:C6	2.38	0.58
1:H1:304:U:C2'	1:H1:305:A:OP2	2.50	0.58
1:H1:645:A:H2'	1:H1:645:A:N3	2.17	0.58
1:H1:644:A:H2'	1:H1:645:A:H4'	1.83	0.58
1:H1:801:U:O2	1:H1:2708:U:O2	2.21	0.58
1:H1:861:A:H62	1:H1:882:G:H1'	1.68	0.58
1:A1:1343:G:H5''	30:BI:127:ARG:O	2.03	0.58
1:A1:1593:A:C2	1:A1:1601:U:O2	2.56	0.58
1:A1:1606:U:O2'	1:A1:1607:U:H5'	2.03	0.58
1:A1:1798:U:H5'	1:A1:1799:C:O4'	2.03	0.58
1:A1:1845:U:O2	1:A1:1845:U:H2'	2.03	0.58
1:A1:2268:G:O2'	1:A1:2269:U:OP2	2.21	0.58
1:A1:2569:A:O2'	1:A1:2570:U:OP1	2.19	0.58
1:A1:2886:G:H4'	1:A1:2887:C:OP2	2.04	0.58
1:A1:41:A:O2'	1:A1:42:U:H5'	2.01	0.58
1:A1:439:A:C2'	1:A1:440:C:O5'	2.52	0.58
1:A1:530:C:H2'	1:A1:531:C:H6	1.68	0.58
1:A1:842:A:N7	2:AA:15:THR:HG23	2.18	0.58
5:AE:19:TYR:HD2	14:AO:108:LEU:HB3	1.69	0.58
12:AM:15:LEU:HD23	12:AM:73:PHE:HB3	1.86	0.58
1:A1:1101:U:C5'	17:AT:49:ASN:HD22	2.10	0.58
22:BA:210:HIS:CD2	22:BA:212:HIS:HB2	2.38	0.58
23:BB:57:LEU:HD11	23:BB:71:GLU:HB3	1.86	0.58
26:BE:73:SER:HA	26:BE:76:LYS:CE	2.32	0.58
27:BF:69:GLN:OE1	33:BL:18:LEU:HD22	2.03	0.58
1:A1:1152:U:OP1	29:BH:15:LYS:HE3	2.03	0.58
37:BP:21:THR:HA	37:BP:24:HIS:HD2	1.67	0.58
38:BQ:134:ALA:O	38:BQ:135:HIS:HB2	2.02	0.58
38:BQ:25:ARG:HG3	38:BQ:143:ASN:ND2	2.18	0.58
45:BX:42:ASN:HD22	45:BX:45:ARG:N	1.91	0.58
45:BX:98:ILE:N	45:BX:123:ASN:ND2	2.52	0.58
24:CC:328:ASN:OD1	24:CC:329:ALA:N	2.36	0.58
32:CK:75:VAL:HG12	32:CK:76:ASN:N	2.18	0.58
35:CN:21:LYS:O	1:D1:696:A:C5'	2.51	0.58
47:CO:24:LEU:CD2	47:CO:50:VAL:HG22	2.33	0.58
1:D1:114:A:H4'	16:DQ:37:ARG:NH2	2.12	0.58
45:CX:47:ARG:NH2	1:D1:1393:A:O3'	2.34	0.58
1:D1:169:A:N7	1:D1:251:A:N6	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1918:U:H2'	1:D1:1919:A:H5'	1.86	0.58
1:D1:1941:C:H2'	1:D1:1942:C:H5''	1.84	0.58
1:D1:2132:U:H2'	1:D1:2138:A:N6	2.18	0.58
1:D1:280:G:C2'	1:D1:281:G:O5'	2.51	0.58
1:D1:3146:G:O6	1:D1:3248:C:N4	2.37	0.58
1:D1:418:G:C8	1:D1:418:G:C3'	2.83	0.58
1:D1:633:C:C2'	1:D1:634:G:OP1	2.50	0.58
6:DF:111:VAL:O	6:DF:115:LYS:HG3	2.03	0.58
16:DQ:44:VAL:O	16:DQ:48:VAL:HG23	2.02	0.58
22:EA:5:ILE:HG22	22:EA:6:ARG:N	2.19	0.58
25:ED:12:VAL:HG21	25:ED:162:TRP:HD1	1.67	0.58
29:EH:153:THR:O	29:EH:156:LYS:HB3	2.04	0.58
37:EP:116:LYS:HZ2	1:F1:1124:G:H8	1.50	0.58
38:EQ:72:THR:CG2	38:EQ:74:GLN:HG3	2.34	0.58
39:ER:51:TYR:CZ	42:EU:85:ARG:NH2	2.72	0.58
44:EW:72:VAL:HG11	44:EW:92:VAL:HG13	1.83	0.58
46:EY:2:ALA:N	1:F1:877:U:O4	2.37	0.58
1:F1:1306:C:H2'	1:F1:1307:C:C6	2.37	0.58
1:F1:2100:A:C2	1:F1:2101:G:C8	2.91	0.58
1:F1:2257:A:H2'	1:F1:2258:C:H6	1.68	0.58
1:F1:2576:C:C6	1:F1:2576:C:C5'	2.79	0.58
1:F1:2737:A:H2'	1:F1:2738:G:H5'	1.85	0.58
1:F1:2819:G:N7	50:F1:4174:HOH:O	2.31	0.58
1:F1:2804:G:N7	1:F1:2858:C:H5'	2.18	0.58
1:F1:3227:A:C2'	1:F1:3228:U:OP2	2.51	0.58
5:FE:137:GLU:HG3	5:FE:138:GLN:HG2	1.85	0.58
1:F1:3185:G:N7	8:FH:11:PRO:HD3	2.17	0.58
14:FO:50:LEU:HD13	14:FO:111:LEU:CD2	2.33	0.58
14:FO:6:TRP:CZ3	14:FO:40:LEU:HD12	2.36	0.58
20:G2:103:U:H2'	20:G2:104:G:C8	2.39	0.58
21:G3:109:U:H5''	34:GM:281:LYS:NZ	2.18	0.58
22:GA:236:VAL:O	1:H1:2178:A:O2'	2.20	0.58
23:GB:103:THR:HG22	23:GB:104:THR:N	2.18	0.58
23:GB:5:LYS:NZ	1:H1:2866:G:H5''	2.18	0.58
24:GC:99:ASN:ND2	24:GC:100:GLN:HE21	2.00	0.58
25:GD:82:ARG:HB3	25:GD:112:LEU:CD2	2.28	0.58
27:GF:183:VAL:HG11	27:GF:185:LYS:HE3	1.84	0.58
30:GI:109:THR:HG22	30:GI:110:PRO:HD3	1.85	0.58
33:GL:183:SER:CA	33:GL:191:ASN:ND2	2.60	0.58
35:GN:146:ARG:HB2	35:GN:149:TYR:HE2	1.69	0.58
35:GN:155:ALA:HB3	35:GN:158:GLN:CD	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:GO:42:ARG:NH2	1:H1:1626:U:OP1	2.36	0.58
37:GP:74:VAL:CG1	37:GP:75:ILE:H	2.17	0.58
1:H1:1047:G:H2'	1:H1:1048:U:H5''	1.84	0.58
35:GN:6:HIS:CD2	1:H1:1131:G:H1'	2.39	0.58
1:H1:1358:U:H4'	1:H1:1359:A:OP2	2.04	0.58
1:H1:155:A:C4'	1:H1:156:A:OP1	2.52	0.58
1:H1:184:C:H2'	1:H1:185:A:C8	2.38	0.58
1:H1:185:A:H2	1:H1:233:G:H22	1.52	0.58
1:H1:2507:C:O2'	1:H1:2508:U:H5'	2.02	0.58
1:H1:439:A:C5'	5:HE:126:HIS:HD1	2.16	0.58
24:GC:49:ARG:NH2	1:H1:713:G:N2	2.51	0.58
1:H1:884:A:O2'	1:H1:885:G:H5'	2.04	0.58
1:H1:970:C:C2	1:H1:971:C:C5	2.91	0.58
6:HF:8:GLN:NE2	6:HF:11:ARG:NH1	2.49	0.58
14:HO:4:LEU:O	14:HO:8:ILE:HG13	2.03	0.58
15:HP:74:LYS:HG3	15:HP:74:LYS:O	2.03	0.58
19:HX:156:MET:HE2	19:HX:161:LEU:HD21	1.86	0.58
1:A1:1061:G:C2	1:A1:1062:A:C8	2.91	0.58
1:A1:2255:U:O2'	1:A1:2301:C:C5'	2.50	0.58
1:A1:2679:G:H5'	1:A1:2680:A:OP2	2.03	0.58
1:A1:3087:G:H5''	1:A1:3088:U:OP1	2.03	0.58
1:A1:519:A:H5''	14:AO:89:ARG:HH11	1.68	0.58
1:A1:577:C:O2'	1:A1:578:G:H5'	2.03	0.58
1:A1:76:U:C2'	1:A1:77:A:H5'	2.33	0.58
1:A1:962:G:C1'	50:A1:3775:HOH:O	2.48	0.58
8:AH:58:TYR:HA	8:AH:104:LEU:CD2	2.33	0.58
23:BB:103:THR:CG2	23:BB:104:THR:N	2.66	0.58
27:BF:146:ILE:HG23	27:BF:156:VAL:HG11	1.85	0.58
27:BF:67:PRO:HB2	27:BF:68:PRO:CD	2.32	0.58
28:BG:58:UNK:HB1	28:BG:61:UNK:HG2	1.85	0.58
28:BG:63:UNK:O	28:BG:67:UNK:HB2	2.03	0.58
33:BL:183:SER:CA	33:BL:191:ASN:ND2	2.62	0.58
35:BN:88:THR:HA	35:BN:107:THR:OG1	2.03	0.58
45:BX:36:ARG:O	45:BX:36:ARG:HG3	2.04	0.58
20:C2:44:A:OP1	2:DA:67:TYR:HB3	2.03	0.58
21:C3:16:A:H2'	21:C3:17:A:C8	2.38	0.58
23:CB:19:ARG:O	23:CB:271:HIS:CE1	2.54	0.58
24:CC:251:HIS:ND1	14:DO:12:ASN:OD1	2.36	0.58
24:CC:275:THR:HG22	24:CC:276:THR:N	2.17	0.58
25:CD:115:LYS:HG2	25:CD:116:TYR:N	2.19	0.58
25:CD:38:LYS:HG2	25:CD:45:PRO:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:205:PRO:O	29:CH:208:ARG:HG2	2.04	0.58
40:CS:34:LEU:HD12	40:CS:44:VAL:O	2.03	0.58
42:CU:97:THR:HG22	42:CU:98:LYS:H	1.69	0.58
1:D1:1595:A:C2	1:D1:1598:C:OP2	2.56	0.58
1:D1:1682:G:N7	50:D1:4119:HOH:O	2.32	0.58
1:D1:1901:C:C5'	1:D1:1902:C:H5'	2.31	0.58
1:D1:2252:C:H5'	22:EA:177:ASP:OD2	2.02	0.58
1:D1:2952:G:C5	50:D1:4271:HOH:O	2.55	0.58
1:D1:3183:A:HO2'	1:D1:3184:A:P	2.26	0.58
1:D1:566:U:H2'	1:D1:567:C:H5'	1.85	0.58
5:DE:135:THR:HB	5:DE:137:GLU:HG2	1.86	0.58
12:DM:75:LYS:HE2	12:DM:105:TYR:CZ	2.38	0.58
18:DU:100:LYS:HE2	18:DU:102:ARG:HH21	1.67	0.58
21:E3:1:G:H4'	34:EM:275:LYS:NZ	2.18	0.58
27:EF:65:LYS:HE2	27:EF:225:TRP:HE3	1.67	0.58
29:EH:208:ARG:HG3	29:EH:209:LEU:H	1.69	0.58
37:EP:145:VAL:HG21	19:FX:40:GLN:OE1	2.03	0.58
38:EQ:53:VAL:HG21	38:EQ:60:ILE:HG13	1.85	0.58
39:ER:76:THR:O	39:ER:76:THR:HG22	2.02	0.58
1:F1:1205:A:H5'	1:F1:1205:A:H8	1.67	0.58
1:F1:1328:A:H4'	1:F1:1329:A:O5'	2.03	0.58
1:F1:1404:G:H5'	1:F1:1434:G:HO2'	1.67	0.58
1:F1:1415:C:H2'	1:F1:1415:C:O2	2.04	0.58
1:F1:23:U:O2'	1:F1:24:A:H5''	2.04	0.58
1:F1:69:A:C6	1:F1:2766:A:O4'	2.57	0.58
33:EL:188:ARG:HH21	1:F1:279:U:C4'	2.17	0.58
1:F1:2997:A:C2'	1:F1:2998:G:H5'	2.34	0.58
1:F1:3072:G:H2'	1:F1:3073:U:C6	2.39	0.58
1:F1:39:G:H2'	1:F1:40:C:H5'	1.85	0.58
1:F1:452:U:C4'	14:FO:56:GLN:HE22	2.17	0.58
22:EA:205:MET:HG2	1:F1:939:A:N3	2.18	0.58
6:FF:8:GLN:NE2	6:FF:11:ARG:NH1	2.52	0.58
7:FG:13:LYS:HB2	7:FG:100:ILE:CD1	2.33	0.58
9:FJ:142:ILE:CD1	9:FJ:152:CYS:HB3	2.34	0.58
16:FQ:44:VAL:O	16:FQ:48:VAL:HG23	2.02	0.58
20:G2:107:C:C5	20:G2:135:A:C5	2.92	0.58
23:GB:110:ILE:O	23:GB:115:LYS:HE3	2.03	0.58
29:GH:75:ASN:O	29:GH:79:PHE:CD1	2.53	0.58
33:GL:64:VAL:CG2	33:GL:106:VAL:HG22	2.33	0.58
34:GM:121:GLY:HA2	34:GM:130:PHE:CZ	2.38	0.58
1:H1:1379:G:OP2	14:HO:102:GLY:N	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:155:A:H5''	1:H1:156:A:C8	2.38	0.58
1:H1:2731:C:C4'	4:HC:18:HIS:CD2	2.86	0.58
1:H1:2862:G:OP1	50:H1:4024:HOH:O	2.16	0.58
1:H1:287:C:O2'	1:H1:288:A:H5'	2.04	0.58
1:H1:3091:G:O2'	1:H1:3092:A:H5'	2.03	0.58
1:H1:3181:G:H2'	1:H1:3182:A:C8	2.38	0.58
1:H1:3191:G:C2'	1:H1:3192:C:OP2	2.51	0.58
1:H1:519:A:N3	1:H1:519:A:H2'	2.19	0.58
1:H1:444:A:H2	1:H1:533:G:N2	1.99	0.58
5:HE:164:VAL:HG13	5:HE:170:LEU:HG	1.83	0.58
1:H1:528:C:O2'	14:HO:115:HIS:HE1	1.86	0.58
1:A1:1027:G:O2'	1:A1:1028:A:OP1	2.16	0.58
1:A1:218:G:H8	1:A1:218:G:OP1	1.87	0.58
1:A1:2518:A:H3'	39:BR:35:VAL:HG11	1.85	0.58
1:A1:439:A:H2'	1:A1:440:C:O5'	2.04	0.58
1:A1:685:G:O2'	1:A1:686:U:C6	2.56	0.58
7:AG:13:LYS:CB	7:AG:100:ILE:HD12	2.32	0.58
19:AX:39:LEU:HD23	37:BP:146:ASN:HB3	1.84	0.58
19:AX:89:TYR:CD2	19:AX:113:LEU:HD13	2.39	0.58
21:B3:40:C:O2	21:B3:40:C:H2'	2.02	0.58
1:A1:815:U:H1'	24:BC:40:LYS:NZ	2.19	0.58
30:BI:37:THR:O	30:BI:40:ILE:HG13	2.03	0.58
31:BJ:83:ILE:HD11	31:BJ:105:VAL:CG2	2.33	0.58
31:BJ:86:ARG:H	31:BJ:102:ASN:HD21	1.49	0.58
33:BL:19:MET:HA	33:BL:19:MET:HE2	1.85	0.58
34:BM:6:VAL:O	34:BM:6:VAL:HG13	2.03	0.58
42:BU:22:LEU:HD21	42:BU:59:LEU:HD21	1.85	0.58
37:BP:142:GLN:OE1	43:BV:71:ALA:HB2	2.03	0.58
46:BY:32:THR:CG2	46:BY:69:TRP:O	2.48	0.58
22:CA:105:ILE:CG2	22:CA:147:THR:HG21	2.34	0.58
23:CB:105:VAL:HG21	23:CB:146:LEU:HD23	1.85	0.58
23:CB:170:ARG:NH2	1:D1:3261:U:O2'	2.36	0.58
43:CV:226:ASN:O	43:CV:226:ASN:OD1	2.20	0.58
43:CV:51:GLU:O	43:CV:54:ALA:HB3	2.03	0.58
1:D1:123:C:H2'	1:D1:124:U:H6	1.67	0.58
1:D1:1375:A:C4'	1:D1:1376:A:OP1	2.51	0.58
1:D1:1548:U:H4'	1:D1:1549:U:OP2	2.03	0.58
1:D1:1775:A:C8	1:D1:1776:G:H2'	2.35	0.58
1:D1:1845:U:O2	1:D1:1845:U:H2'	2.03	0.58
1:D1:1853:G:H5''	1:D1:1854:U:H5'	1.86	0.58
46:CY:6:GLN:N	1:D1:1951:G:OP2	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2548:G:H4'	1:D1:2549:U:OP2	2.02	0.58
1:D1:2805:A:N7	50:D1:4021:HOH:O	2.32	0.58
1:D1:2876:U:C4	1:D1:2899:C:C5	2.92	0.58
1:D1:3126:C:H2'	1:D1:3127:U:H6	1.68	0.58
1:D1:980:U:H2'	1:D1:981:U:C6	2.38	0.58
6:DF:56:THR:O	6:DF:56:THR:HG22	2.04	0.58
1:D1:1192:A:OP1	8:DH:90:ARG:NH2	2.36	0.58
20:E2:1:A:C4'	20:E2:2:G:OP1	2.51	0.58
22:EA:203:VAL:CG1	22:EA:218:GLN:HG2	2.33	0.58
32:EK:137:ARG:HH21	1:F1:741:G:H4'	1.68	0.58
33:EL:58:GLY:O	33:EL:142:ILE:HD11	2.03	0.58
24:EC:398:PHE:CD2	37:EP:154:ARG:HD2	2.39	0.58
45:EX:27:PHE:HE1	50:EX:202:HOH:O	1.85	0.58
1:F1:1166:G:O6	17:FT:10:LYS:NZ	2.28	0.58
1:F1:121:A:N6	1:F1:150:A:C6	2.71	0.58
1:F1:152:U:H5'	1:F1:153:C:OP2	2.03	0.58
1:F1:1694:C:O2	1:F1:1804:G:N2	2.26	0.58
1:F1:2277:U:O2'	1:F1:2278:G:P	2.61	0.58
1:F1:2649:G:H2'	1:F1:2650:U:C6	2.39	0.58
1:F1:619:G:H4'	1:F1:620:A:N3	2.18	0.58
7:FG:27:TYR:CE2	7:FG:52:ARG:HG2	2.39	0.58
8:FH:31:ASN:OD1	8:FH:33:ASN:HB2	2.03	0.58
12:FM:15:LEU:HD23	12:FM:73:PHE:HB3	1.85	0.58
12:FM:35:PHE:CD1	12:FM:65:ILE:HD12	2.39	0.58
22:GA:33:TYR:CA	22:GA:164:ARG:NH2	2.66	0.58
23:GB:216:LEU:CD2	23:GB:274:THR:HA	2.33	0.58
23:GB:58:ARG:HH21	23:GB:60:VAL:CG1	2.16	0.58
24:GC:287:ARG:HD2	35:GN:111:ARG:HH12	1.69	0.58
24:GC:303:GLU:O	24:GC:307:VAL:HG23	2.02	0.58
29:GH:169:GLN:O	29:GH:178:ARG:HG3	2.04	0.58
36:GO:106:LEU:HB3	36:GO:120:TYR:CE1	2.38	0.58
38:GQ:61:PRO:HG3	38:GQ:78:PHE:CD2	2.38	0.58
1:H1:1040:A:H2'	1:H1:1041:C:H5'	1.85	0.58
1:H1:1039:G:HO2'	1:H1:1041:C:H41	1.49	0.58
1:H1:118:A:C4'	1:H1:119:A:O5'	2.45	0.58
1:H1:1710:U:OP2	12:HM:42:LYS:NZ	2.35	0.58
1:H1:2127:A:H2'	1:H1:2128:C:H5'	1.85	0.58
22:GA:203:VAL:HG23	1:H1:2180:G:OP1	2.04	0.58
1:H1:418:G:C3'	1:H1:418:G:C8	2.84	0.58
5:HE:53:LEU:HD11	5:HE:90:VAL:HG21	1.85	0.58
5:HE:42:ARG:NH1	8:HH:111:ASN:ND2	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GU:120:PHE:HA	18:HU:122:VAL:O	2.03	0.58
1:H1:256:A:H4'	18:HU:84:SER:HB3	1.84	0.58
1:A1:1205:A:H8	1:A1:1205:A:H5'	1.69	0.58
1:A1:1249:G:HO2'	1:A1:1250:A:P	2.27	0.58
1:A1:2720:G:O2'	1:A1:2721:G:H5'	2.03	0.58
13:AN:87:VAL:HG11	13:AN:90:LEU:HB2	1.86	0.58
14:AO:32:THR:HG22	14:AO:34:ARG:H	1.68	0.58
27:BF:126:LYS:HZ2	27:BF:194:THR:HG1	1.43	0.58
29:BH:75:ASN:HD21	29:BH:154:ARG:HD2	1.69	0.58
1:A1:3123:A:OP1	30:BI:73:ARG:NH1	2.37	0.58
32:BK:89:ARG:O	32:BK:121:GLN:NE2	2.35	0.58
22:CA:68:TYR:O	22:CA:69:ARG:HG2	2.04	0.58
23:CB:356:PHE:HE2	23:CB:358:ASP:HB2	1.69	0.58
21:C3:10:C:C5	34:CM:20:TYR:CE1	2.92	0.58
32:CK:119:PRO:HG3	35:CN:94:LEU:HD13	1.85	0.58
38:CQ:18:LYS:HE3	1:D1:389:G:OP1	2.02	0.58
1:D1:165:C:H5''	18:DU:132:LYS:NZ	2.18	0.58
1:D1:1540:U:H5	1:D1:1865:A:O2'	1.86	0.58
1:D1:1902:C:HO2'	1:D1:1903:A:P	2.24	0.58
1:D1:2264:U:C2'	1:D1:2264:U:O2	2.52	0.58
1:D1:2265:A:C8	1:D1:2265:A:H5''	2.38	0.58
1:D1:3118:A:H5''	1:D1:3119:A:OP2	2.04	0.58
1:D1:41:A:O2'	1:D1:42:U:H5'	2.04	0.58
1:D1:541:A:H2'	1:D1:542:C:C6	2.39	0.58
2:DA:67:TYR:CE2	2:DA:71:ILE:HD11	2.39	0.58
6:DF:43:ILE:HG22	6:DF:44:VAL:O	2.03	0.58
9:DJ:129:ILE:HG23	9:DJ:133:LEU:HD12	1.86	0.58
1:D1:3096:U:H5''	10:DK:112:LYS:HZ3	1.68	0.58
19:DX:110:ASP:OD1	19:DX:111:VAL:N	2.34	0.58
6:DF:7:VAL:O	19:DX:162:LYS:HA	2.03	0.58
20:E2:124:U:O2'	20:E2:126:A:N7	2.25	0.58
20:E2:145:C:H2'	20:E2:146:A:C8	2.39	0.58
24:EC:283:TYR:HE1	24:EC:285:LEU:HA	1.68	0.58
24:EC:321:LYS:O	24:EC:323:PRO:HD3	2.03	0.58
28:EG:13:UNK:O	28:EG:17:UNK:HG2	2.04	0.58
29:EH:174:THR:HG22	29:EH:176:LEU:H	1.69	0.58
34:EM:22:ARG:HB3	34:EM:30:TYR:OH	2.04	0.58
39:ER:108:GLU:HG2	39:ER:113:VAL:O	2.04	0.58
40:ES:58:VAL:HG12	40:ES:59:ARG:HG2	1.85	0.58
43:EV:122:ASN:HD22	1:F1:1013:U:P	2.27	0.58
1:F1:1109:A:C1'	1:F1:1110:U:OP2	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1159:C:O2'	1:F1:1160:A:H5'	2.04	0.58
1:F1:1375:A:C4'	1:F1:1376:A:OP1	2.51	0.58
1:F1:1714:C:H2'	1:F1:1715:U:H5'	1.83	0.58
1:F1:1507:A:O2'	1:F1:1882:A:C2'	2.49	0.58
33:EL:182:LYS:HE2	1:F1:281:G:O6	2.04	0.58
1:F1:325:U:OP2	50:F1:4621:HOH:O	2.17	0.58
1:F1:424:G:H2'	1:F1:425:U:H5'	1.86	0.58
5:FE:71:SER:HB3	5:FE:114:ASP:OD2	2.02	0.58
1:F1:1507:A:N1	11:FL:2:ALA:HB3	2.18	0.58
14:FO:62:LEU:HD11	14:FO:97:ARG:CG	2.33	0.58
19:FX:89:TYR:CD2	19:FX:113:LEU:HD13	2.39	0.58
25:GD:9:MET:O	25:GD:134:PRO:HG3	2.03	0.58
26:GE:132:ILE:HG23	26:GE:144:LEU:CD2	2.33	0.58
27:GF:183:VAL:HG12	27:GF:185:LYS:HE3	1.85	0.58
27:GF:211:PHE:O	27:GF:215:TYR:HB2	2.04	0.58
29:GH:130:ASP:OD1	29:GH:131:ILE:N	2.36	0.58
32:GK:74:VAL:CG1	32:GK:113:LEU:HG	2.32	0.58
35:GN:69:VAL:HG21	35:GN:93:LEU:HD11	1.85	0.58
42:GU:99:LYS:O	42:GU:103:ALA:HB2	2.03	0.58
43:GV:60:VAL:HG13	43:GV:63:LYS:NZ	2.18	0.58
43:GV:64:ARG:HD3	1:H1:565:G:C5	2.38	0.58
1:H1:1130:A:H2	1:H1:1390:A:HO2'	1.50	0.58
1:H1:1941:C:H2'	1:H1:1942:C:H5''	1.84	0.58
25:GD:65:MET:CE	1:H1:2670:U:C4'	2.81	0.58
1:H1:453:A:H2'	1:H1:454:A:C8	2.39	0.58
1:H1:566:U:H2'	1:H1:567:C:H5'	1.83	0.58
1:H1:709:G:OP1	18:HU:37:ARG:NH2	2.36	0.58
1:H1:842:A:N7	2:HA:15:THR:HG23	2.18	0.58
5:HE:137:GLU:HG3	5:HE:138:GLN:HG2	1.86	0.58
8:HH:44:THR:HB	8:HH:46:GLU:OE1	2.04	0.58
12:HM:71:ILE:HG23	12:HM:72:PRO:HD2	1.86	0.58
35:GN:25:VAL:HG13	14:HO:7:GLU:CB	2.33	0.58
5:HE:18:TRP:CB	14:HO:95:ARG:HH21	2.15	0.58
1:H1:114:A:H4'	16:HQ:37:ARG:HH22	1.67	0.58
19:HX:167:LYS:CG	19:HX:188:THR:HG21	2.34	0.58
1:A1:122:U:H2'	1:A1:123:C:H6	1.69	0.58
1:A1:1396:A:OP2	50:A1:4229:HOH:O	2.17	0.58
1:A1:121:A:N6	1:A1:150:A:C6	2.72	0.58
1:A1:1752:G:C5'	1:A1:1753:A:H3'	2.34	0.58
1:A1:2433:A:H2'	1:A1:2434:A:H8	1.65	0.58
1:A1:2522:A:H1'	27:BF:233:LYS:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3185:G:H4'	1:A1:3186:G:OP2	2.04	0.58
1:A1:3200:A:H2'	1:A1:3201:G:H5''	1.84	0.58
1:A1:699:C:O2'	1:A1:703:U:OP1	2.21	0.58
1:A1:842:A:H8	2:AA:15:THR:CG2	2.16	0.58
1:A1:2641:U:H5'	4:AC:63:THR:HG21	1.85	0.58
6:AF:26:VAL:HG12	6:AF:27:ILE:N	2.18	0.58
8:AH:33:ASN:HA	8:AH:94:ASN:ND2	2.18	0.58
9:AJ:186:ILE:CD1	9:AJ:197:LEU:HB2	2.34	0.58
9:AJ:77:ASN:HB3	9:AJ:80:GLU:CG	2.34	0.58
21:B3:33:U:C2	34:BM:212:TYR:CD1	2.92	0.58
22:BA:131:SER:OG	22:BA:175:ARG:NH1	2.37	0.58
24:BC:33:ILE:HD13	24:BC:135:ALA:HA	1.85	0.58
21:B3:116:A:H4'	34:BM:260:ARG:HH22	1.68	0.58
24:BC:308:VAL:HG12	35:BN:40:ARG:HH11	1.65	0.58
41:BT:5:THR:HG21	41:BT:14:ARG:HE	1.69	0.58
20:C2:145:C:H2'	20:C2:146:A:C8	2.39	0.58
23:CB:26:ARG:HD2	23:CB:177:LEU:HD21	1.85	0.58
24:CC:159:PHE:HZ	24:CC:179:VAL:CG1	2.16	0.58
24:CC:198:GLN:HB3	1:D1:1407:A:H5''	1.84	0.58
25:CD:106:ILE:HD12	25:CD:127:PHE:CE1	2.39	0.58
32:CK:50:TRP:HD1	35:CN:156:PRO:HD2	1.67	0.58
42:CU:13:GLN:HB3	42:CU:17:GLN:OE1	2.04	0.58
1:D1:1506:G:O2'	1:D1:1895:U:O4	2.21	0.58
1:D1:2149:U:C2'	1:D1:2150:U:C5'	2.81	0.58
1:D1:2574:U:C5'	1:D1:2575:G:OP1	2.52	0.58
33:CL:188:ARG:HH21	1:D1:279:U:C4'	2.16	0.58
45:CX:43:ARG:HH22	1:D1:660:C:H2'	1.68	0.58
11:DL:5:ILE:HG21	11:DL:32:ALA:HB2	1.85	0.58
13:DN:118:PHE:HE2	13:DN:138:PHE:CE2	2.22	0.58
14:DO:50:LEU:HD13	14:DO:111:LEU:CD2	2.34	0.58
16:DQ:29:GLN:C	16:DQ:31:LYS:HD3	2.24	0.58
20:E2:61:G:H2'	20:E2:100:C:O2'	2.03	0.58
24:EC:34:ARG:CZ	35:EN:24:ASN:HB3	2.34	0.58
30:EI:18:LEU:O	30:EI:22:VAL:HG23	2.04	0.58
30:EI:61:MET:HE3	30:EI:68:GLY:HA3	1.86	0.58
31:EJ:32:ASN:ND2	31:EJ:117:GLN:H	2.02	0.58
34:EM:44:TYR:CE1	1:F1:1112:A:H4'	2.38	0.58
45:EX:98:ILE:N	45:EX:123:ASN:ND2	2.46	0.58
46:EY:13:LYS:HE3	46:EY:14:TYR:CE2	2.39	0.58
22:EA:181:LEU:HB3	46:EY:18:TYR:CD1	2.38	0.58
1:F1:1132:U:H2'	1:F1:1133:G:H8	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1248:G:H4'	1:F1:1249:G:OP2	2.02	0.58
1:F1:1972:G:C2	1:F1:1973:A:C8	2.92	0.58
1:F1:2186:U:H2'	1:F1:2187:C:C6	2.39	0.58
1:F1:2359:G:H22	1:F1:2391:G:H1'	1.69	0.58
1:F1:706:U:P	50:F1:4492:HOH:O	2.61	0.58
1:F1:76:U:C2'	1:F1:77:A:H5'	2.34	0.58
2:FA:67:TYR:CE2	2:FA:71:ILE:HD11	2.38	0.58
5:FE:86:PRO:O	5:FE:87:LEU:HD23	2.02	0.58
8:FH:9:VAL:HG12	8:FH:10:ALA:O	2.04	0.58
1:F1:519:A:H5''	14:FO:89:ARG:NH1	2.18	0.58
22:GA:206:ASN:HB3	22:GA:207:PRO:HD2	1.86	0.58
22:GA:20:HIS:ND1	1:H1:848:C:H5'	2.19	0.58
24:GC:295:ILE:HG23	35:GN:33:LEU:HD13	1.86	0.58
25:GD:20:ASN:ND2	1:H1:2671:C:O4'	2.36	0.58
34:GM:166:ALA:HB3	34:GM:173:ILE:HD11	1.85	0.58
35:GN:53:LEU:HD23	35:GN:84:THR:HG22	1.85	0.58
37:GP:11:THR:HG22	37:GP:11:THR:O	2.02	0.58
1:H1:1543:A:H2'	1:H1:1544:U:H6	1.69	0.58
1:H1:2277:U:HO2'	1:H1:2278:G:P	2.26	0.58
1:H1:3118:A:H5''	1:H1:3119:A:OP2	2.03	0.58
1:H1:3192:C:O2	6:HF:120:ARG:HD3	2.04	0.58
1:H1:72:A:O3'	18:HU:56:VAL:HG11	2.03	0.58
1:H1:813:C:H2'	1:H1:814:U:H6	1.69	0.58
6:HF:67:GLN:NE2	6:HF:75:LYS:HE3	2.18	0.58
8:HH:33:ASN:HA	8:HH:94:ASN:ND2	2.19	0.58
1:H1:1511:G:N3	11:HL:4:ARG:NH1	2.52	0.58
12:HM:75:LYS:HE2	12:HM:105:TYR:CZ	2.38	0.58
1:A1:1767:U:H4'	1:A1:1768:G:OP2	2.02	0.58
1:A1:2264:U:C2'	1:A1:2264:U:O2	2.52	0.58
1:A1:2557:A:C2	1:A1:2564:G:C4	2.92	0.58
1:A1:2718:U:C2	1:A1:2719:A:C8	2.91	0.58
1:A1:446:G:H2'	1:A1:447:G:H8	1.67	0.58
1:A1:467:A:C6	1:A1:468:A:C6	2.92	0.58
1:A1:644:A:H2'	1:A1:645:A:C5'	2.34	0.58
1:A1:685:G:H5'	32:BK:8:THR:CG2	2.33	0.58
9:AJ:58:ILE:HG13	9:AJ:62:VAL:CG2	2.34	0.58
13:AN:27:LYS:NZ	1:H1:1045:G:O3'	2.37	0.58
16:AQ:41:VAL:HG13	33:BL:6:TYR:CD1	2.38	0.58
1:A1:2929:A:C8	23:BB:253:TRP:CE3	2.92	0.58
23:BB:26:ARG:HH12	23:BB:176:ILE:C	2.06	0.58
23:BB:381:ASP:HB3	23:BB:384:LYS:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:345:C:OP1	24:BC:55:VAL:HG13	2.04	0.58
29:BH:205:PRO:O	29:BH:208:ARG:HG2	2.04	0.58
31:BJ:32:ASN:ND2	31:BJ:117:GLN:H	2.02	0.58
21:B3:6:C:O2'	34:BM:50:ARG:NH2	2.37	0.58
1:A1:3048:A:OP1	44:BW:16:HIS:HE1	1.87	0.58
22:CA:50:VAL:HG12	22:CA:51:HIS:H	1.69	0.58
23:CB:170:ARG:NH1	1:D1:3273:U:O2	2.37	0.58
24:CC:195:ARG:O	24:CC:200:LYS:HE2	2.04	0.58
24:CC:195:ARG:NH1	24:CC:204:ARG:CB	2.67	0.58
24:CC:289:LEU:HD12	35:CN:24:ASN:HD22	1.68	0.58
27:CF:143:LEU:HD22	27:CF:211:PHE:CD2	2.39	0.58
29:CH:92:HIS:HD2	1:D1:1070:U:H1'	1.69	0.58
30:CI:177:ARG:HD3	30:CI:180:GLU:OE2	2.03	0.58
33:CL:115:VAL:HG22	33:CL:134:LEU:CD2	2.34	0.58
33:CL:80:VAL:HG11	33:CL:87:VAL:HA	1.85	0.58
37:CP:76:VAL:HG12	37:CP:77:HIS:N	2.19	0.58
38:CQ:61:PRO:HG3	38:CQ:78:PHE:CD2	2.38	0.58
39:CR:108:GLU:HG2	39:CR:113:VAL:O	2.04	0.58
1:D1:1024:A:C2'	1:D1:1025:G:H5'	2.34	0.58
1:D1:1048:U:C4	1:D1:1049:U:C5	2.92	0.58
1:D1:122:U:O2	1:D1:149:U:H1'	2.04	0.58
1:D1:2507:C:O2'	1:D1:2508:U:H5'	2.03	0.58
1:D1:3005:A:O2'	1:D1:3006:A:H5'	2.02	0.58
23:CB:30:ARG:NH2	1:D1:3127:U:C5	2.72	0.58
1:D1:3257:U:H2'	1:D1:3258:C:H6	1.68	0.58
1:D1:368:A:H5'	1:D1:369:U:OP1	2.03	0.58
1:D1:497:G:O2'	1:D1:498:A:H5'	2.02	0.58
1:D1:761:A:H2'	1:D1:762:G:O4'	2.02	0.58
1:D1:1613:A:C6	3:DB:4:ASN:HB3	2.39	0.58
8:DH:48:VAL:CG2	8:DH:85:GLY:HA2	2.34	0.58
18:DU:123:LEU:HD23	18:DU:136:VAL:CG2	2.34	0.58
18:DU:168:ASN:O	18:DU:172:LEU:HG	2.03	0.58
20:E2:110:A:H4'	1:F1:1610:C:H5'	1.86	0.58
22:EA:68:TYR:O	22:EA:69:ARG:HG2	2.04	0.58
23:EB:157:ARG:HD2	23:EB:178:GLU:OE1	2.04	0.58
25:ED:104:PHE:HE1	25:ED:106:ILE:CD1	2.17	0.58
30:EI:35:VAL:HG12	30:EI:36:ARG:N	2.19	0.58
33:EL:79:ILE:HD12	1:F1:2597:G:O2'	2.04	0.58
46:EY:56:LYS:HG2	46:EY:63:ILE:HG12	1.84	0.58
1:F1:126:A:C2	1:F1:141:C:N4	2.71	0.58
1:F1:925:G:H1'	1:F1:1614:A:H61	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2180:G:H1'	50:F1:4076:HOH:O	2.04	0.58
1:F1:2889:G:P	50:F1:4433:HOH:O	2.62	0.58
1:F1:513:G:H2'	1:F1:514:U:H6	1.68	0.58
1:F1:524:G:H4'	1:F1:525:C:OP1	2.03	0.58
1:F1:530:C:H2'	1:F1:531:C:H6	1.69	0.58
46:EY:4:ARG:HH21	1:F1:864:C:N4	2.01	0.58
7:FG:43:PHE:HE1	7:FG:68:HIS:CD2	2.22	0.58
8:FH:48:VAL:CG2	8:FH:85:GLY:HA2	2.34	0.58
16:FQ:7:VAL:HG11	18:FU:185:LYS:HG3	1.86	0.58
32:EK:68:ASN:HB3	18:FU:60:THR:HG21	1.85	0.58
1:F1:3177:G:N2	19:FX:177:TYR:CE2	2.71	0.58
21:G3:90:A:H2	29:GH:162:ARG:NH2	2.02	0.58
23:GB:26:ARG:HD2	23:GB:177:LEU:HD21	1.86	0.58
23:GB:30:ARG:NH2	1:H1:3127:U:C5	2.72	0.58
27:GF:126:LYS:NZ	27:GF:194:THR:HG1	1.99	0.58
27:GF:143:LEU:HD22	27:GF:211:PHE:CD2	2.39	0.58
33:GL:189:LYS:O	33:GL:193:ARG:HG3	2.04	0.58
42:GU:87:LYS:HA	42:GU:93:ARG:HH21	1.69	0.58
24:GC:320:LYS:HB2	43:GV:159:PRO:HB3	1.86	0.58
1:H1:1190:U:H2'	1:H1:1191:G:H8	1.69	0.58
1:H1:1394:G:H8	1:H1:1394:G:O5'	1.86	0.58
1:H1:1822:G:OP1	50:H1:3832:HOH:O	2.17	0.58
1:H1:2761:U:H4'	1:H1:2762:U:OP1	2.02	0.58
1:H1:3229:C:N3	5:HE:57:ARG:HG3	2.19	0.58
5:HE:170:LEU:HA	6:HF:106:PHE:HE1	1.69	0.58
6:HF:11:ARG:HD2	6:HF:59:GLN:OE1	2.04	0.58
7:HG:13:LYS:HG2	7:HG:14:LEU:N	2.18	0.58
8:HH:54:LYS:HD3	8:HH:110:PRO:HG2	1.86	0.58
9:HJ:43:VAL:HG12	9:HJ:44:PRO:N	2.18	0.58
11:HL:5:ILE:CG2	11:HL:32:ALA:HB2	2.34	0.58
16:HQ:7:VAL:HG12	16:HQ:7:VAL:O	2.04	0.58
1:H1:979:U:C1'	17:HT:12:GLN:NE2	2.55	0.58
1:A1:1023:A:H2'	1:A1:1024:A:O4'	2.04	0.58
1:A1:1492:G:OP1	50:A1:4734:HOH:O	2.17	0.58
1:A1:2186:U:H2'	1:A1:2187:C:C6	2.39	0.58
1:A1:1475:A:C2	1:A1:2351:A:C4	2.92	0.58
1:A1:2361:U:O3'	23:BB:257:ARG:NH2	2.36	0.58
1:A1:2552:A:N6	1:A1:2568:G:O2'	2.37	0.58
1:A1:2659:G:H2'	1:A1:2660:A:C8	2.38	0.58
1:A1:3146:G:O6	1:A1:3248:C:N4	2.37	0.58
1:A1:528:C:O2'	14:AO:115:HIS:HE1	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:562:G:O3'	43:BV:63:LYS:NZ	2.37	0.58
5:AE:88:LYS:HG3	5:AE:89:ARG:O	2.04	0.58
15:AP:39:ILE:HG22	15:AP:40:THR:N	2.17	0.58
18:AU:177:VAL:HG13	32:BK:147:LEU:HD21	1.86	0.58
20:B2:75:A:OP2	40:BS:51:LYS:HB3	2.03	0.58
27:BF:171:ALA:HA	27:BF:215:TYR:CD2	2.38	0.58
29:BH:48:TYR:HE2	29:BH:142:GLU:HG3	1.67	0.58
33:BL:160:GLU:HG2	33:BL:161:LEU:N	2.18	0.58
33:BL:37:HIS:CE1	33:BL:63:ARG:HB2	2.37	0.58
35:BN:18:ARG:HD3	35:BN:54:SER:O	2.02	0.58
37:BP:39:TYR:CE1	37:BP:63:LYS:HG3	2.39	0.58
38:BQ:9:GLU:OE1	38:BQ:10:PRO:HD2	2.04	0.58
30:CI:79:PHE:HD2	30:CI:103:ILE:HD13	1.68	0.58
33:CL:64:VAL:HG21	33:CL:106:VAL:CG2	2.34	0.58
40:CS:114:ARG:O	40:CS:118:LEU:HG	2.03	0.58
20:C2:69:A:H5'	42:CU:11:ARG:HH22	1.67	0.58
1:D1:1593:A:C2	1:D1:1601:U:O2	2.57	0.58
1:D1:672:C:N3	1:D1:2369:C:O2'	2.36	0.58
1:D1:236:G:H2'	1:D1:237:A:H8	1.68	0.58
33:CL:79:ILE:HD12	1:D1:2597:G:O2'	2.04	0.58
1:D1:622:G:C4'	1:D1:623:G:OP2	2.49	0.58
1:D1:629:A:H1'	1:D1:630:G:N7	2.18	0.58
24:CC:40:LYS:NZ	1:D1:815:U:H1'	2.19	0.58
17:DT:17:HIS:CE1	17:DT:21:ILE:HD11	2.39	0.58
20:E2:31:C:H2'	20:E2:32:C:C6	2.39	0.58
23:EB:129:ALA:O	23:EB:130:PHE:HB2	2.04	0.58
24:EC:303:GLU:O	24:EC:307:VAL:HG23	2.04	0.58
27:EF:131:HIS:CE1	1:F1:117:G:H2'	2.38	0.58
29:EH:139:ARG:HD3	29:EH:173:PHE:CD1	2.39	0.58
35:EN:53:LEU:O	35:EN:60:LYS:NZ	2.37	0.58
35:EN:98:LYS:HG3	35:EN:98:LYS:O	2.03	0.58
38:EQ:24:LEU:HD13	38:EQ:92:VAL:HG11	1.85	0.58
41:ET:14:ARG:NH1	9:HJ:44:PRO:HG3	2.19	0.58
44:EW:16:HIS:HE1	1:F1:3048:A:OP1	1.86	0.58
44:EW:43:MET:HG3	44:EW:90:THR:HG21	1.85	0.58
1:F1:1068:U:O2'	1:F1:1069:C:H5'	2.03	0.58
28:EG:60:UNK:CG	1:F1:1249:G:H5''	2.22	0.58
1:F1:155:A:C4'	1:F1:156:A:OP1	2.51	0.58
1:F1:1540:U:H5	1:F1:1865:A:O2'	1.87	0.58
1:F1:257:G:H2'	1:F1:258:A:H5'	1.86	0.58
1:F1:282:G:N2	1:F1:304:U:C4'	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:70:C:C6	1:F1:72:A:H1'	2.38	0.58
5:FE:42:ARG:HH12	8:FH:111:ASN:ND2	2.01	0.58
12:FM:95:LEU:HA	12:FM:108:ARG:O	2.04	0.58
12:FM:75:LYS:HE2	12:FM:105:TYR:CZ	2.38	0.58
15:FP:74:LYS:O	15:FP:74:LYS:HG3	2.04	0.58
22:GA:9:ARG:HD3	1:H1:936:C:OP2	2.04	0.58
23:GB:204:ASP:N	23:GB:204:ASP:OD1	2.33	0.58
27:GF:69:GLN:HE22	16:HQ:48:VAL:HG12	1.69	0.58
31:GJ:90:ARG:HB2	31:GJ:96:PHE:CE2	2.39	0.58
31:GJ:97:ILE:HG22	31:GJ:98:TYR:N	2.19	0.58
24:GC:287:ARG:HD2	35:GN:111:ARG:NH1	2.19	0.58
41:GT:35:THR:HB	41:GT:38:ALA:H	1.68	0.58
43:GV:100:LEU:HD21	43:GV:127:VAL:CG1	2.28	0.58
1:H1:1053:A:C8	1:H1:1054:G:C5	2.92	0.58
1:H1:1095:C:H2'	1:H1:1095:C:O2	2.04	0.58
1:H1:1595:A:C2	1:H1:1598:C:OP2	2.57	0.58
1:H1:1540:U:H5	1:H1:1865:A:HO2'	1.51	0.58
1:H1:2101:G:N7	50:H1:4225:HOH:O	2.32	0.58
1:H1:418:G:C6	1:H1:2378:A:O2'	2.53	0.58
1:H1:2666:G:N3	1:H1:2666:G:H5''	2.19	0.58
1:H1:3143:A:OP2	1:H1:3143:A:H8	1.87	0.58
1:H1:685:G:O2'	1:H1:686:U:C6	2.56	0.58
1:H1:898:C:H3'	1:H1:899:U:H4'	1.85	0.58
1:H1:970:C:H2'	1:H1:971:C:C6	2.38	0.58
1:H1:977:A:H2'	1:H1:978:G:H5''	1.84	0.58
11:HL:74:VAL:HG12	11:HL:75:SER:H	1.69	0.58
18:HU:52:LEU:HB3	18:HU:93:ILE:HA	1.86	0.58
18:HU:74:THR:HB	18:HU:101:ASN:HD21	1.68	0.58
1:A1:1187:C:N3	45:BX:47:ARG:NH1	2.51	0.57
1:A1:1702:G:H2'	1:A1:1703:A:H8	1.69	0.57
1:A1:1845:U:C4'	1:A1:1846:C:OP2	2.52	0.57
1:A1:1884:G:H2'	1:A1:1885:G:H5'	1.86	0.57
1:A1:2576:C:C2'	1:A1:2577:G:C5'	2.81	0.57
1:A1:476:A:C2	1:A1:500:G:N2	2.72	0.57
1:A1:519:A:N3	1:A1:519:A:H2'	2.19	0.57
1:A1:720:C:H5''	24:BC:126:ARG:HH21	1.68	0.57
1:A1:957:U:H4'	1:A1:958:A:O5'	2.04	0.57
1:A1:970:C:H2'	1:A1:971:C:H6	1.69	0.57
9:AJ:71:LEU:HB3	9:AJ:97:ILE:HD11	1.86	0.57
1:A1:1880:C:H1'	11:AL:7:TYR:CE1	2.38	0.57
14:AO:106:PHE:O	14:AO:109:LYS:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:44:VAL:O	16:AQ:48:VAL:HG23	2.04	0.57
17:AT:17:HIS:CE1	17:AT:21:ILE:HD11	2.39	0.57
19:AX:45:ALA:CB	19:AX:50:HIS:HD2	2.17	0.57
19:AX:96:GLN:H	19:AX:134:THR:CG2	2.17	0.57
21:B3:28:C:C2'	21:B3:29:C:H5'	2.32	0.57
22:BA:98:ALA:HB3	22:BA:101:ASN:ND2	2.18	0.57
1:A1:2520:G:C2'	22:BA:35:PHE:CE1	2.87	0.57
23:BB:204:ASP:N	23:BB:204:ASP:OD1	2.37	0.57
23:BB:216:LEU:HD21	23:BB:274:THR:HG23	1.85	0.57
24:BC:328:ASN:OD1	24:BC:329:ALA:N	2.37	0.57
29:BH:208:ARG:HG3	29:BH:209:LEU:H	1.69	0.57
30:BI:11:LYS:HD3	30:BI:36:ARG:HH12	1.69	0.57
1:A1:1599:G:H5''	39:BR:43:LEU:CD1	2.34	0.57
42:BU:98:LYS:HE3	42:BU:101:ARG:NH1	2.19	0.57
43:BV:82:PHE:O	43:BV:133:PHE:HA	2.04	0.57
20:C2:18:G:H1'	1:D1:406:A:N6	2.19	0.57
30:CI:109:THR:HG22	30:CI:110:PRO:HD3	1.83	0.57
34:CM:163:LEU:HD23	34:CM:180:PHE:CE2	2.39	0.57
34:CM:56:THR:HB	34:CM:59:ARG:O	2.04	0.57
47:CO:172:UNK:HG2	47:CO:173:UNK:HG3	1.85	0.57
37:CP:8:ARG:HD2	37:CP:11:THR:HG21	1.86	0.57
40:CS:84:ILE:HG22	40:CS:84:ILE:O	2.03	0.57
43:CV:185:ILE:HA	43:CV:192:PHE:HE1	1.69	0.57
43:CV:104:ARG:HD2	1:D1:1128:G:C5'	2.34	0.57
1:D1:1381:G:OP1	14:DO:36:THR:HB	2.03	0.57
1:D1:1922:G:C2'	1:D1:1923:G:O5'	2.52	0.57
1:D1:2163:A:C6	1:D1:2164:C:N4	2.72	0.57
1:D1:304:U:C2'	1:D1:305:A:OP2	2.52	0.57
1:D1:3108:U:H2'	1:D1:3109:C:H5'	1.85	0.57
1:D1:579:G:O2'	19:DX:159:ALA:N	2.37	0.57
1:D1:77:A:C2	1:D1:324:A:C2	2.91	0.57
8:DH:33:ASN:HA	8:DH:94:ASN:ND2	2.19	0.57
12:DM:95:LEU:HA	12:DM:108:ARG:O	2.03	0.57
16:DQ:13:PHE:CD1	16:DQ:14:ILE:N	2.72	0.57
18:DU:44:VAL:O	18:DU:44:VAL:HG12	2.04	0.57
19:DX:45:ALA:HB1	19:DX:50:HIS:HD2	1.69	0.57
29:EH:171:TRP:CE2	29:EH:181:TYR:CE2	2.92	0.57
30:EI:64:ASN:C	30:EI:64:ASN:HD22	2.05	0.57
41:ET:5:THR:HG21	41:ET:14:ARG:HE	1.69	0.57
1:F1:1047:G:H2'	1:F1:1048:U:H5'	1.85	0.57
1:F1:1901:C:C5'	1:F1:1902:C:H5'	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3310:U:H4'	1:F1:3311:U:OP2	2.01	0.57
1:F1:541:A:H2'	1:F1:542:C:C6	2.39	0.57
1:F1:579:G:H1'	19:FX:158:ASN:CA	2.33	0.57
1:F1:88:U:C2'	1:F1:89:G:H5'	2.33	0.57
1:F1:643:A:O2'	5:FE:131:LYS:HE2	2.04	0.57
5:FE:78:GLY:H	5:FE:85:VAL:HG12	1.68	0.57
9:FJ:77:ASN:HB3	9:FJ:80:GLU:CG	2.33	0.57
11:FL:5:ILE:HG21	11:FL:32:ALA:HB2	1.85	0.57
17:FT:32:THR:CG2	17:FT:40:LEU:HD21	2.35	0.57
20:G2:111:A:C2'	20:G2:112:G:H5''	2.33	0.57
37:GP:91:VAL:HG11	37:GP:96:VAL:HG23	1.86	0.57
45:GX:44:VAL:HG12	45:GX:54:MET:HE2	1.85	0.57
1:H1:209:A:H4'	1:H1:211:A:N7	2.18	0.57
25:GD:59:ILE:HD11	1:H1:2669:A:N3	2.18	0.57
1:H1:3146:G:O6	1:H1:3248:C:N4	2.37	0.57
45:GX:9:LYS:HD2	1:H1:621:G:OP1	2.04	0.57
1:H1:801:U:H5'	17:HT:37:PRO:CG	2.34	0.57
2:HA:21:ARG:CZ	2:HA:44:MET:CE	2.82	0.57
2:HA:21:ARG:HB2	2:HA:39:TYR:CD1	2.39	0.57
7:HG:43:PHE:HE1	7:HG:68:HIS:CD2	2.21	0.57
8:HH:26:SER:OG	8:HH:29:THR:HB	2.04	0.57
9:HJ:135:VAL:CG1	9:HJ:136:GLU:N	2.67	0.57
13:HN:70:PRO:CD	13:HN:115:LYS:HG2	2.34	0.57
14:HO:15:PHE:O	14:HO:26:THR:N	2.36	0.57
14:HO:75:THR:HG21	14:HO:77:GLU:OE1	2.04	0.57
15:HP:39:ILE:HG22	15:HP:40:THR:N	2.19	0.57
1:A1:1062:A:C6	1:A1:1063:C:C4	2.92	0.57
1:A1:1095:C:O2	1:A1:1095:C:H2'	2.03	0.57
1:A1:123:C:H2'	1:A1:124:U:H6	1.69	0.57
1:A1:1587:A:H4'	1:A1:1588:A:OP2	2.04	0.57
1:A1:2277:U:O2'	1:A1:2278:G:OP1	2.21	0.57
1:A1:64:A:N6	1:A1:66:C:O2	2.37	0.57
1:A1:836:U:H2'	1:A1:837:G:C8	2.39	0.57
12:AM:35:PHE:CD1	12:AM:65:ILE:CD1	2.87	0.57
12:AM:66:ASN:HD21	12:AM:68:GLN:NE2	2.02	0.57
14:AO:108:LEU:O	14:AO:111:LEU:HB2	2.03	0.57
1:A1:511:U:OP1	14:AO:70:VAL:HB	2.04	0.57
17:AT:50:ASP:OD1	17:AT:51:PRO:HD2	2.04	0.57
23:BB:129:ALA:O	23:BB:130:PHE:HB2	2.04	0.57
23:BB:81:CYS:HB3	23:BB:203:VAL:CG2	2.32	0.57
24:BC:65:MET:HE3	24:BC:105:ARG:HH11	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:53:LEU:O	35:BN:60:LYS:NZ	2.36	0.57
40:BS:55:VAL:HG12	40:BS:56:LEU:N	2.18	0.57
22:CA:113:VAL:CG1	22:CA:134:TYR:HB2	2.34	0.57
30:CI:49:ASN:ND2	30:CI:135:CYS:SG	2.67	0.57
33:CL:45:PRO:O	33:CL:49:ARG:HG3	2.04	0.57
21:C3:10:C:N3	34:CM:20:TYR:HD1	2.00	0.57
34:CM:90:THR:O	34:CM:231:TRP:HZ3	1.86	0.57
24:CC:311:ALA:HB2	35:CN:40:ARG:HH21	1.69	0.57
43:CV:83:ALA:O	43:CV:111:GLY:HA2	2.05	0.57
1:D1:1752:G:C5'	1:D1:1753:A:H3'	2.31	0.57
1:D1:1870:C:O2	1:D1:1870:C:H2'	2.02	0.57
1:D1:1942:C:C5'	1:D1:1942:C:H6	2.17	0.57
1:D1:218:G:OP1	1:D1:218:G:H8	1.86	0.57
1:D1:226:C:OP2	50:D1:3829:HOH:O	2.17	0.57
1:D1:2362:A:C8	50:D1:3935:HOH:O	2.55	0.57
1:D1:2557:A:C2	1:D1:2558:U:C2	2.92	0.57
1:D1:2718:U:C2	1:D1:2719:A:C8	2.92	0.57
1:D1:534:U:H2'	1:D1:535:C:H6	1.66	0.57
1:D1:635:A:C2'	1:D1:636:U:O5'	2.51	0.57
1:D1:884:A:O2'	1:D1:885:G:H5'	2.04	0.57
2:DA:17:THR:HG23	3:DB:52:TYR:O	2.04	0.57
21:E3:59:C:H2'	21:E3:60:C:H6	1.67	0.57
23:EB:183:GLY:O	23:EB:189:LYS:HE2	2.03	0.57
25:ED:106:ILE:HD12	25:ED:127:PHE:CE1	2.39	0.57
29:EH:43:VAL:HG11	29:EH:197:VAL:CG2	2.32	0.57
33:EL:15:GLN:OE1	16:FQ:52:ALA:CB	2.50	0.57
37:EP:17:LYS:CE	37:EP:47:SER:HB3	2.34	0.57
20:E2:74:A:H5'	40:ES:50:ARG:CG	2.34	0.57
44:EW:14:ASN:HD21	44:EW:69:ARG:CZ	2.17	0.57
1:F1:1511:G:N3	11:FL:4:ARG:NH1	2.52	0.57
1:F1:2855:C:O2'	1:F1:2856:U:H5'	2.04	0.57
1:F1:2958:C:C4'	1:F1:2959:A:N7	2.65	0.57
1:F1:3070:C:H2'	1:F1:3071:C:H6	1.69	0.57
1:F1:3096:U:C5'	10:FK:112:LYS:HZ3	2.18	0.57
1:F1:3118:A:H5''	1:F1:3119:A:OP2	2.04	0.57
1:F1:3126:C:H2'	1:F1:3127:U:H6	1.69	0.57
1:F1:927:G:H2'	1:F1:928:U:H6	1.68	0.57
2:FA:16:HIS:HA	2:FA:27:TYR:O	2.04	0.57
2:FA:18:LEU:HA	2:FA:24:LYS:O	2.04	0.57
9:FJ:145:ASN:ND2	9:FJ:146:VAL:N	2.52	0.57
12:FM:71:ILE:HG23	12:FM:72:PRO:HD2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:FO:44:HIS:HD2	14:FO:46:HIS:CD2	2.22	0.57
20:G2:31:C:H2'	20:G2:32:C:C6	2.38	0.57
20:G2:88:G:O2'	20:G2:89:A:O5'	2.16	0.57
27:GF:58:ARG:HG2	1:H1:2574:U:O2	2.05	0.57
32:GK:89:ARG:O	32:GK:121:GLN:NE2	2.36	0.57
32:GK:132:LYS:HE2	18:HU:178:TYR:OH	2.04	0.57
35:GN:102:CYS:SG	35:GN:127:LEU:HG	2.44	0.57
39:GR:94:VAL:HG11	39:GR:103:ILE:CD1	2.33	0.57
39:GR:52:SER:O	42:GU:81:PRO:HB3	2.04	0.57
43:GV:170:LEU:HD11	43:GV:198:PHE:HB2	1.85	0.57
43:GV:200:TRP:CG	43:GV:201:PRO:HD2	2.38	0.57
1:H1:1337:G:OP1	50:H1:4041:HOH:O	2.17	0.57
1:H1:1518:G:O6	3:HB:2:GLY:N	2.37	0.57
1:H1:1701:A:H5''	12:HM:99:SER:HB2	1.86	0.57
1:H1:1752:G:C5'	1:H1:1753:A:H3'	2.34	0.57
1:H1:1775:A:H1'	1:H1:1776:G:H3'	1.86	0.57
1:H1:2651:A:H2'	1:H1:2652:G:H8	1.68	0.57
1:H1:2672:U:H2'	1:H1:2673:C:C6	2.39	0.57
26:GE:172:GLN:OE1	1:H1:2888:A:H4'	2.04	0.57
1:H1:396:A:C2	1:H1:397:A:C4	2.92	0.57
1:H1:39:G:H2'	1:H1:40:C:H5'	1.84	0.57
1:H1:524:G:H4'	1:H1:525:C:OP1	2.04	0.57
2:HA:2:THR:O	2:HA:7:ALA:HB2	2.03	0.57
7:HG:10:ILE:HG23	7:HG:13:LYS:CE	2.34	0.57
7:HG:13:LYS:HG2	7:HG:14:LEU:H	1.69	0.57
7:HG:27:TYR:HD2	7:HG:52:ARG:HD3	1.68	0.57
1:H1:1719:U:H4'	11:HL:24:LYS:O	2.04	0.57
13:HN:15:GLN:NE2	13:HN:79:HIS:CE1	2.71	0.57
13:HN:83:THR:HG22	13:HN:85:TYR:N	2.17	0.57
15:HP:53:PHE:CE1	15:HP:55:THR:HG22	2.38	0.57
19:HX:96:GLN:N	19:HX:134:THR:HG21	2.16	0.57
19:HX:15:GLN:HE21	19:HX:115:GLY:HA2	1.69	0.57
1:A1:1068:U:O2'	1:A1:1069:C:H5'	2.04	0.57
1:A1:1348:G:H2'	1:A1:1349:U:O5'	2.03	0.57
1:A1:1506:G:O2'	1:A1:1895:U:O4	2.21	0.57
1:A1:1928:C:N4	1:A1:1929:G:C6	2.72	0.57
1:A1:2128:C:OP1	50:A1:4102:HOH:O	2.17	0.57
1:A1:2186:U:H2'	1:A1:2187:C:H6	1.69	0.57
1:A1:2254:A:H2'	1:A1:2255:U:C6	2.39	0.57
1:A1:2429:U:H1'	1:A1:2430:G:OP1	2.04	0.57
1:A1:2666:G:N3	1:A1:2666:G:H5''	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:281:G:H2'	1:A1:285:U:C6	2.39	0.57
1:A1:512:G:N2	1:A1:513:G:C4	2.73	0.57
1:A1:541:A:H2'	1:A1:542:C:C6	2.39	0.57
1:A1:848:C:H2'	1:A1:849:U:C6	2.39	0.57
1:A1:874:C:H4'	1:H1:2301:C:N4	2.18	0.57
5:AE:71:SER:HB3	5:AE:114:ASP:OD2	2.03	0.57
6:AF:84:LYS:O	6:AF:87:GLU:HG2	2.03	0.57
7:AG:27:TYR:HD2	7:AG:52:ARG:HD3	1.66	0.57
5:AE:42:ARG:NH1	8:AH:111:ASN:ND2	2.51	0.57
9:AJ:116:LEU:HD21	9:AJ:177:LEU:HD21	1.86	0.57
9:AJ:71:LEU:HD13	9:AJ:97:ILE:HD11	1.85	0.57
11:AL:5:ILE:CG2	11:AL:32:ALA:HB2	2.34	0.57
12:AM:59:SER:OG	12:AM:66:ASN:HB3	2.04	0.57
21:B3:93:G:H8	21:B3:93:G:O5'	1.86	0.57
22:BA:32:VAL:HA	22:BA:124:ARG:HH11	1.68	0.57
24:BC:65:MET:CE	24:BC:105:ARG:HG2	2.34	0.57
30:BI:11:LYS:HD3	30:BI:36:ARG:NH1	2.19	0.57
34:BM:163:LEU:HD23	34:BM:180:PHE:CE2	2.40	0.57
36:BO:15:LEU:HD21	36:BO:45:ILE:HD13	1.87	0.57
39:BR:72:LYS:HE3	39:BR:95:HIS:HA	1.86	0.57
45:BX:99:ALA:HB1	45:BX:101:ASN:OD1	2.05	0.57
20:C2:111:A:C5	2:DA:20:ARG:NH2	2.72	0.57
23:CB:381:ASP:HB3	23:CB:384:LYS:HB3	1.86	0.57
23:CB:49:PHE:CE2	23:CB:333:VAL:HG12	2.39	0.57
24:CC:376:TRP:HB3	1:D1:564:A:HO2'	1.68	0.57
33:CL:184:LEU:HD23	33:CL:188:ARG:HD2	1.86	0.57
37:CP:13:LYS:O	50:CP:203:HOH:O	2.17	0.57
37:CP:145:VAL:HG21	19:DX:40:GLN:OE1	2.03	0.57
40:CS:56:LEU:HD12	40:CS:65:ASN:O	2.04	0.57
43:CV:164:THR:O	43:CV:168:LYS:HG3	2.03	0.57
44:CW:50:ILE:HG23	44:CW:54:LEU:HD23	1.85	0.57
46:CY:64:ILE:HD11	46:CY:71:LEU:CD1	2.27	0.57
29:CH:193:ASP:HB2	1:D1:1037:A:H1'	1.85	0.57
1:D1:1103:A:H2'	1:D1:1103:A:N3	2.17	0.57
1:D1:1192:A:O2'	1:D1:1193:G:H5'	2.04	0.57
1:D1:1205:A:H5'	1:D1:1205:A:H8	1.69	0.57
1:D1:1695:A:H2'	1:D1:1696:C:H6	1.69	0.57
1:D1:2545:A:HO2'	1:D1:2546:A:P	2.27	0.57
1:D1:257:G:H2'	1:D1:258:A:H5'	1.86	0.57
1:D1:3044:A:C5'	1:D1:3045:A:OP2	2.51	0.57
1:D1:3191:G:H1'	1:D1:3219:A:H62	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:675:G:C6	1:D1:676:G:C6	2.91	0.57
1:D1:685:G:O2'	1:D1:686:U:C6	2.57	0.57
1:D1:919:A:H1'	1:D1:920:A:C2	2.39	0.57
5:DE:71:SER:HB3	5:DE:114:ASP:OD2	2.04	0.57
5:DE:135:THR:HG22	5:DE:136:GLU:N	2.19	0.57
7:DG:13:LYS:CB	7:DG:100:ILE:HD12	2.32	0.57
14:DO:40:LEU:O	14:DO:44:HIS:CE1	2.56	0.57
35:CN:168:ARG:HH11	18:DU:9:VAL:HG21	1.67	0.57
20:E2:144:U:H2'	20:E2:145:C:H5''	1.86	0.57
21:E3:20:U:O2'	21:E3:21:G:H5'	2.05	0.57
21:E3:30:G:C2'	21:E3:31:G:H5'	2.34	0.57
22:EA:50:VAL:HG12	22:EA:51:HIS:H	1.68	0.57
25:ED:32:LYS:HD3	25:ED:119:SER:O	2.04	0.57
26:EE:132:ILE:HG23	26:EE:144:LEU:CD2	2.34	0.57
26:EE:46:GLN:NE2	26:EE:56:GLN:NE2	2.52	0.57
33:EL:165:THR:HG23	33:EL:168:GLY:H	1.70	0.57
33:EL:184:LEU:HD23	33:EL:188:ARG:HD2	1.86	0.57
24:EC:308:VAL:HG12	35:EN:40:ARG:NH1	2.18	0.57
36:EO:15:LEU:HD13	36:EO:52:LYS:HB2	1.85	0.57
39:ER:72:LYS:HE3	39:ER:95:HIS:HA	1.86	0.57
39:ER:74:PRO:CB	39:ER:149:LEU:HD11	2.35	0.57
1:F1:184:C:H2'	1:F1:185:A:H8	1.70	0.57
1:F1:884:A:O2'	1:F1:885:G:H5'	2.05	0.57
1:F1:842:A:H8	2:FA:15:THR:HG23	1.62	0.57
4:FC:94:ILE:HA	4:FC:97:ILE:HD12	1.87	0.57
5:FE:142:GLU:HA	5:FE:142:GLU:OE1	2.03	0.57
7:FG:57:GLU:HA	7:FG:67:ILE:HD11	1.85	0.57
9:DJ:123:ARG:NH1	9:FJ:123:ARG:NE	2.52	0.57
9:FJ:198:VAL:HG23	9:FJ:205:PHE:HB2	1.86	0.57
13:FN:83:THR:HG22	13:FN:85:TYR:N	2.14	0.57
16:FQ:15:THR:HG21	18:FU:103:CYS:SG	2.44	0.57
18:FU:168:ASN:O	18:FU:172:LEU:HG	2.03	0.57
23:GB:121:ASN:HB3	1:H1:3275:A:H62	1.63	0.57
25:GD:65:MET:HE3	1:H1:2670:U:C4'	2.34	0.57
27:GF:152:PRO:HB2	27:GF:154:GLU:OE1	2.04	0.57
27:GF:171:ALA:HA	27:GF:215:TYR:CD2	2.39	0.57
32:GK:100:PRO:HB3	18:HU:164:LYS:HZ3	1.67	0.57
33:GL:177:LYS:HG2	33:GL:185:ARG:NH2	2.19	0.57
35:GN:24:ASN:CG	35:GN:27:HIS:HB2	2.24	0.57
37:GP:83:ARG:HH22	1:H1:2717:G:H5'	1.64	0.57
40:GS:84:ILE:HG22	40:GS:84:ILE:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GU:22:LEU:HD21	42:GU:59:LEU:HD21	1.86	0.57
44:GW:16:HIS:CD2	1:H1:3330:U:OP1	2.55	0.57
1:H1:1210:C:C5'	19:HX:171:ARG:HH21	2.16	0.57
1:H1:126:A:C5'	1:H1:127:A:OP1	2.52	0.57
1:H1:1383:G:HO2'	1:H1:1384:G:P	2.27	0.57
39:GR:36:ARG:NH1	1:H1:1586:C:O2	2.37	0.57
1:H1:2557:A:C2	1:H1:2564:G:C4	2.92	0.57
1:H1:3096:U:H5''	10:HK:112:LYS:HZ3	1.68	0.57
1:H1:3143:A:C2	1:H1:3250:A:C2	2.92	0.57
1:H1:488:U:H2'	1:H1:490:A:OP2	2.04	0.57
1:H1:566:U:C3'	1:H1:567:C:H5'	2.34	0.57
1:H1:784:G:H1'	1:H1:796:A:H61	1.69	0.57
5:HE:51:LEU:HB3	5:HE:95:THR:HG21	1.87	0.57
8:HH:58:TYR:HA	8:HH:104:LEU:CD2	2.34	0.57
9:HJ:199:VAL:HG11	9:HJ:222:PHE:CE2	2.39	0.57
13:HN:33:THR:HB	13:HN:35:ASP:H	1.69	0.57
1:H1:1350:G:O3'	19:HX:16:MET:HG3	2.05	0.57
19:HX:45:ALA:HB1	19:HX:50:HIS:CD2	2.40	0.57
19:HX:82:SER:O	19:HX:87:LYS:NZ	2.34	0.57
1:A1:1307:C:O2'	1:A1:1308:U:H5'	2.04	0.57
1:A1:133:C:O2'	42:BU:76:GLY:HA2	2.04	0.57
1:A1:2275:A:H2'	1:A1:2277:U:C5'	2.35	0.57
1:A1:2324:A:H5''	1:A1:2324:A:C8	2.39	0.57
1:A1:2353:C:O2	1:A1:2353:C:H2'	2.04	0.57
1:A1:1:C:O2'	1:A1:2:U:H5'	2.03	0.57
1:A1:3144:G:N2	1:A1:3249:U:H1'	2.19	0.57
1:A1:3291:G:O2'	1:A1:3292:U:C6	2.53	0.57
1:A1:927:G:H2'	1:A1:928:U:H6	1.69	0.57
5:AE:78:GLY:H	5:AE:85:VAL:HG12	1.69	0.57
6:AF:2:VAL:HG12	6:AF:3:PHE:N	2.18	0.57
8:AH:11:PRO:HG2	8:AH:12:THR:N	2.17	0.57
9:AJ:129:ILE:HG23	9:AJ:133:LEU:HD12	1.85	0.57
9:AJ:143:ALA:C	9:AJ:144:ASN:ND2	2.55	0.57
13:AN:113:THR:O	13:AN:117:VAL:HG23	2.04	0.57
20:B2:107:C:C4	20:B2:135:A:C6	2.92	0.57
20:B2:146:A:O2'	20:B2:147:G:H5'	2.03	0.57
21:B3:59:C:H2'	21:B3:60:C:H6	1.68	0.57
23:BB:114:THR:HG23	23:BB:115:LYS:N	2.18	0.57
18:AU:164:LYS:HZ1	32:BK:88:THR:HG23	1.69	0.57
35:BN:146:ARG:HB2	35:BN:149:TYR:HE2	1.68	0.57
41:BT:16:TYR:HB3	41:BT:17:PRO:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:33:TYR:HA	22:CA:164:ARG:NH2	2.18	0.57
29:CH:193:ASP:HB3	1:D1:1037:A:H1'	1.86	0.57
32:CK:145:CYS:HB2	18:DU:177:VAL:HG21	1.85	0.57
34:CM:76:CYS:C	34:CM:105:LEU:HD11	2.25	0.57
1:D1:2250:A:H4'	1:D1:2251:A:H8	1.68	0.57
1:D1:2277:U:O2'	1:D1:2278:G:OP1	2.20	0.57
1:D1:2414:A:H2'	1:D1:2415:C:H6	1.70	0.57
1:D1:3191:G:C2'	1:D1:3192:C:OP2	2.52	0.57
1:D1:3228:U:H5''	1:D1:3229:C:H5''	1.86	0.57
1:D1:1518:G:P	2:DA:14:LYS:HZ1	2.27	0.57
2:DA:15:THR:OG1	2:DA:16:HIS:CD2	2.58	0.57
2:DA:44:MET:HE3	2:DA:44:MET:HA	1.84	0.57
1:D1:631:G:C5	5:DE:31:ARG:NH2	2.72	0.57
12:DM:35:PHE:CE1	12:DM:39:LEU:HD11	2.38	0.57
13:DN:41:VAL:HG12	13:DN:43:VAL:CG2	2.35	0.57
15:DP:31:VAL:HG22	15:DP:44:LEU:HD23	1.85	0.57
18:DU:87:PHE:CE2	18:DU:91:ILE:HD11	2.39	0.57
19:DX:124:MET:HE3	19:DX:124:MET:HA	1.86	0.57
23:EB:298:VAL:HG12	23:EB:298:VAL:O	2.03	0.57
24:EC:159:PHE:HZ	24:EC:179:VAL:CG1	2.16	0.57
30:EI:10:ALA:C	30:EI:13:HIS:HD2	2.06	0.57
31:EJ:27:MET:HB2	31:EJ:102:ASN:O	2.04	0.57
34:EM:18:THR:HG23	34:EM:18:THR:O	2.04	0.57
35:EN:146:ARG:HB2	35:EN:149:TYR:HE2	1.68	0.57
43:EV:206:THR:HG21	1:F1:1195:U:C1'	2.35	0.57
1:F1:970:C:O4'	1:F1:1433:A:H1'	2.04	0.57
1:F1:1471:U:H5''	1:F1:1472:A:OP2	2.04	0.57
27:EF:46:ARG:NE	1:F1:2518:A:H5'	2.20	0.57
1:F1:2574:U:C5'	1:F1:2575:G:OP1	2.52	0.57
1:F1:46:A:C4'	1:F1:47:G:O5'	2.53	0.57
12:FM:19:ILE:HD13	12:FM:105:TYR:HB2	1.87	0.57
13:FN:72:ILE:O	13:FN:72:ILE:HG13	2.05	0.57
16:FQ:9:ILE:HD11	18:FU:187:ASN:CB	2.20	0.57
18:FU:123:LEU:HD23	18:FU:136:VAL:CG2	2.34	0.57
18:FU:176:LYS:O	18:FU:180:ILE:HG13	2.03	0.57
20:G2:1:A:C5'	20:G2:2:G:OP1	2.52	0.57
24:GC:201:LEU:HD23	24:GC:201:LEU:N	2.20	0.57
24:GC:214:VAL:HG12	24:GC:257:ILE:HB	1.86	0.57
24:GC:338:LYS:O	24:GC:341:LYS:HB2	2.04	0.57
24:GC:369:HIS:CE1	43:GV:68:LYS:NZ	2.72	0.57
32:GK:128:LYS:HB3	32:GK:129:TYR:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:GL:55:ASN:HB2	1:H1:148:G:H4'	1.86	0.57
34:GM:163:LEU:HD23	34:GM:180:PHE:CZ	2.39	0.57
39:GR:39:ARG:N	1:H1:1588:A:OP1	2.36	0.57
1:H1:2359:G:H22	1:H1:2391:G:H1'	1.69	0.57
1:H1:3044:A:C4'	1:H1:3045:A:OP2	2.52	0.57
1:H1:3167:U:C4'	1:H1:3168:A:O5'	2.44	0.57
1:H1:3229:C:C2	5:HE:57:ARG:HG3	2.40	0.57
1:H1:467:A:C6	1:H1:468:A:C6	2.92	0.57
1:H1:49:A:H2'	1:H1:50:A:H8	1.70	0.57
9:HJ:80:GLU:O	9:HJ:84:ILE:HG13	2.05	0.57
35:GN:25:VAL:HG11	14:HO:7:GLU:HB2	1.86	0.57
18:HU:91:ILE:HG22	18:HU:117:TYR:HE2	1.68	0.57
1:A1:1064:C:H2'	1:A1:1065:U:C5'	2.34	0.57
1:A1:1207:A:O2'	1:A1:1208:U:P	2.62	0.57
1:A1:1249:G:O2'	1:A1:1250:A:P	2.61	0.57
1:A1:1367:A:H2'	1:A1:1368:U:C6	2.39	0.57
1:A1:1445:G:H5''	24:BC:200:LYS:NZ	2.19	0.57
1:A1:1711:U:H1'	12:AM:77:TYR:CE2	2.39	0.57
1:A1:1775:A:H4'	15:AP:34:LYS:NZ	2.18	0.57
1:A1:1937:G:N3	1:A1:2116:A:H2'	2.20	0.57
1:A1:2187:C:C2'	1:A1:2188:U:H5'	2.33	0.57
1:A1:2217:C:C4'	1:A1:2218:A:OP2	2.49	0.57
1:A1:2257:A:H2'	1:A1:2258:C:H6	1.69	0.57
1:A1:2574:U:C5'	1:A1:2575:G:OP1	2.53	0.57
1:A1:362:G:C2'	1:A1:363:G:H5''	2.33	0.57
1:A1:838:G:H4'	2:AA:47:TYR:CE2	2.39	0.57
5:AE:115:ASP:N	5:AE:115:ASP:OD1	2.38	0.57
6:AF:11:ARG:HD2	6:AF:59:GLN:OE1	2.05	0.57
1:A1:2158:C:C5'	22:BA:239:ARG:HH11	2.00	0.57
26:BE:113:LYS:HE3	26:BE:114:HIS:HB2	1.87	0.57
29:BH:20:SER:H	29:BH:23:ASN:HB2	1.69	0.57
31:BJ:86:ARG:HG3	31:BJ:99:PHE:O	2.05	0.57
43:BV:48:TYR:CE1	43:BV:183:HIS:CD2	2.93	0.57
21:C3:27:A:H5''	34:CM:57:ASN:ND2	2.19	0.57
22:CA:98:ALA:HB3	22:CA:101:ASN:ND2	2.19	0.57
27:CF:123:ILE:HD12	27:CF:197:ARG:HD3	1.85	0.57
29:CH:189:LYS:O	29:CH:200:ILE:HG13	2.05	0.57
33:CL:28:TRP:HA	33:CL:31:ARG:NH1	2.20	0.57
42:CU:98:LYS:HG2	1:D1:242:G:OP1	2.04	0.57
30:CI:132:ARG:NH1	1:D1:1216:C:C2'	2.66	0.57
1:D1:1367:A:H2'	1:D1:1368:U:C6	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:152:U:H5'	1:D1:153:C:OP2	2.04	0.57
1:D1:1798:U:H5'	1:D1:1799:C:O4'	2.04	0.57
1:D1:2544:U:H4'	7:DG:50:THR:OG1	2.03	0.57
1:D1:2679:G:H5'	1:D1:2680:A:OP2	2.04	0.57
1:D1:2737:A:H2'	1:D1:2738:G:H5'	1.87	0.57
1:D1:3135:A:H2'	1:D1:3136:A:H8	1.70	0.57
1:D1:970:C:O4'	1:D1:1433:A:H1'	2.04	0.57
5:DE:161:LEU:O	5:DE:165:LYS:HB2	2.05	0.57
8:DH:26:SER:OG	8:DH:29:THR:HB	2.04	0.57
9:DJ:17:CYS:HB2	9:DJ:25:LEU:O	2.03	0.57
15:DP:39:ILE:HG22	15:DP:40:THR:N	2.20	0.57
20:E2:1:A:C5'	20:E2:2:G:OP1	2.52	0.57
20:E2:7:U:OP1	38:EQ:64:ARG:CG	2.52	0.57
23:EB:303:ILE:CD1	23:EB:319:PHE:CE1	2.87	0.57
24:EC:191:THR:HG21	24:EC:209:ARG:NH1	2.18	0.57
31:EJ:86:ARG:H	31:EJ:102:ASN:ND2	2.00	0.57
33:EL:16:SER:CB	16:FQ:49:THR:HG23	2.33	0.57
34:EM:109:LEU:HD21	34:EM:142:PHE:CE2	2.39	0.57
34:EM:76:CYS:C	34:EM:105:LEU:HD11	2.24	0.57
35:EN:146:ARG:HB3	35:EN:149:TYR:CD2	2.39	0.57
37:EP:17:LYS:NZ	37:EP:47:SER:HB3	2.19	0.57
38:EQ:117:GLN:OE1	38:EQ:117:GLN:HA	2.02	0.57
39:ER:84:MET:CE	39:ER:144:ALA:HB2	2.34	0.57
23:EB:373:GLU:OE2	41:ET:16:TYR:OH	2.23	0.57
20:E2:39:G:N3	42:EU:90:ARG:NH1	2.52	0.57
1:F1:1593:A:C2	1:F1:1601:U:O2	2.57	0.57
1:F1:3191:G:H1'	1:F1:3219:A:H62	1.67	0.57
38:EQ:71:ARG:HD3	1:F1:3269:G:H1'	1.85	0.57
1:F1:581:C:H2'	1:F1:582:A:H5''	1.85	0.57
2:FA:2:THR:O	2:FA:7:ALA:HB2	2.04	0.57
1:F1:1379:G:N1	5:FE:22:ASP:OD2	2.37	0.57
6:FF:56:THR:HG22	6:FF:56:THR:O	2.05	0.57
1:F1:3007:G:H5''	9:FJ:8:GLU:OE1	2.04	0.57
20:G2:7:U:OP1	38:GQ:64:ARG:CG	2.52	0.57
21:G3:20:U:C2'	21:G3:21:G:H5'	2.34	0.57
23:GB:332:ARG:HG3	23:GB:332:ARG:NH1	2.15	0.57
24:GC:298:ILE:O	24:GC:304:VAL:HG21	2.03	0.57
29:GH:99:ILE:HG22	29:GH:123:LEU:HB2	1.87	0.57
29:GH:174:THR:HG22	29:GH:176:LEU:H	1.68	0.57
29:GH:92:HIS:HD2	1:H1:1070:U:C1'	2.16	0.57
39:GR:72:LYS:HE3	39:GR:95:HIS:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GT:22:ARG:NE	41:GT:32:PHE:CD2	2.72	0.57
1:H1:1091:G:O2'	1:H1:1092:C:OP1	2.23	0.57
1:H1:1159:C:O2'	1:H1:1160:A:H5'	2.04	0.57
1:H1:1228:C:O2	1:H1:1228:C:H2'	2.03	0.57
1:H1:1256:G:H2'	1:H1:1257:G:H8	1.69	0.57
1:H1:1306:C:H2'	1:H1:1307:C:C6	2.40	0.57
43:GV:109:HIS:HD2	1:H1:1360:C:O2'	1.87	0.57
1:H1:1686:G:H22	1:H1:1813:A:H2	1.53	0.57
1:H1:1821:U:O2'	1:H1:1822:G:C5	2.57	0.57
1:H1:2408:A:O2'	1:H1:2409:G:H5'	2.04	0.57
1:H1:2574:U:C5'	1:H1:2575:G:OP1	2.53	0.57
1:H1:257:G:H2'	1:H1:258:A:H5'	1.86	0.57
1:H1:2640:G:O2'	1:H1:2784:G:N1	2.37	0.57
1:H1:2899:C:C5'	1:H1:2900:G:OP1	2.48	0.57
1:H1:3109:C:H3'	10:HK:111:ARG:HH11	1.64	0.57
1:H1:971:C:O2'	1:H1:972:U:H5'	2.03	0.57
1:H1:986:C:H4'	1:H1:987:A:OP2	2.04	0.57
5:HE:63:VAL:HG12	5:HE:64:VAL:N	2.19	0.57
18:HU:123:LEU:HD23	18:HU:136:VAL:CG2	2.35	0.57
1:H1:579:G:O2'	19:HX:158:ASN:HA	2.04	0.57
1:A1:1392:G:OP2	50:A1:3917:HOH:O	2.17	0.57
1:A1:1497:U:H2'	1:A1:1498:U:H6	1.70	0.57
1:A1:1595:A:OP2	1:A1:1596:U:H5	1.87	0.57
1:A1:2120:U:O2'	1:A1:2121:A:H5'	2.04	0.57
1:A1:2576:C:C6	1:A1:2576:C:C5'	2.82	0.57
1:A1:2865:G:H2'	1:A1:2866:G:H8	1.69	0.57
1:A1:406:A:N6	20:B2:18:G:H1'	2.20	0.57
5:AE:145:ARG:O	5:AE:149:ARG:HG3	2.04	0.57
5:AE:41:LEU:HD13	5:AE:45:ILE:CD1	2.21	0.57
5:AE:173:TYR:OH	6:AF:105:ASP:HB3	2.05	0.57
7:AG:60:ALA:HB3	7:AG:67:ILE:HD11	1.87	0.57
13:AN:54:THR:CB	13:AN:57:MET:HG3	2.32	0.57
16:AQ:7:VAL:HG12	16:AQ:7:VAL:O	2.05	0.57
21:B3:1:G:H4'	34:BM:275:LYS:NZ	2.18	0.57
21:B3:30:G:C2'	21:B3:31:G:H5'	2.34	0.57
22:BA:248:ARG:HA	22:BA:251:GLN:HE21	1.70	0.57
23:BB:37:PRO:HA	23:BB:184:GLY:CA	2.27	0.57
24:BC:191:THR:HG21	24:BC:209:ARG:NH1	2.19	0.57
28:BG:97:UNK:O	28:BG:101:UNK:HG3	2.04	0.57
34:BM:109:LEU:HD21	34:BM:142:PHE:CE2	2.40	0.57
34:BM:56:THR:HG22	34:BM:57:ASN:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:11:THR:HG22	37:BP:11:THR:O	2.04	0.57
37:BP:74:VAL:CG1	37:BP:75:ILE:N	2.68	0.57
38:BQ:97:LEU:O	38:BQ:100:LEU:HB2	2.05	0.57
38:BQ:72:THR:CG2	38:BQ:74:GLN:HG3	2.33	0.57
22:CA:118:GLU:HG2	22:CA:123:ASP:HB2	1.87	0.57
22:CA:181:LEU:HD12	46:CY:14:TYR:CE1	2.40	0.57
22:CA:48:ASP:OD1	22:CA:49:ILE:N	2.36	0.57
25:CD:104:PHE:HE1	25:CD:106:ILE:CD1	2.16	0.57
27:CF:196:VAL:HG21	27:CF:204:LEU:HD21	1.85	0.57
29:CH:153:THR:O	29:CH:156:LYS:HB3	2.05	0.57
34:CM:163:LEU:CD1	34:CM:173:ILE:HG21	2.33	0.57
35:CN:30:LEU:HD11	35:CN:124:PHE:HB2	1.86	0.57
35:CN:4:ASP:OD1	43:CV:106:ARG:HD3	2.04	0.57
1:D1:113:A:O2'	1:D1:114:A:OP1	2.22	0.57
1:D1:1343:G:C4'	1:D1:1344:A:OP2	2.52	0.57
1:D1:146:U:H5''	1:D1:146:U:H6	1.69	0.57
1:D1:2278:G:O2'	1:D1:2279:C:P	2.62	0.57
46:CY:16:THR:HG21	1:D1:2316:A:O2'	2.05	0.57
1:D1:2410:C:N4	50:D1:3765:HOH:O	2.33	0.57
1:D1:2649:G:N7	50:D1:4792:HOH:O	2.32	0.57
1:D1:3080:A:N3	1:D1:3082:C:O2'	2.36	0.57
1:D1:40:C:C6	1:D1:40:C:H3'	2.40	0.57
1:D1:519:A:H2'	1:D1:519:A:N3	2.19	0.57
1:D1:766:G:HO2'	1:D1:767:C:P	2.28	0.57
1:D1:836:U:H2'	1:D1:837:G:C8	2.40	0.57
1:D1:1753:A:OP2	7:DG:26:GLY:HA2	2.05	0.57
8:DH:58:TYR:HA	8:DH:104:LEU:CD2	2.34	0.57
9:DJ:186:ILE:CD1	9:DJ:197:LEU:HB2	2.34	0.57
1:D1:3109:C:C3'	10:DK:111:ARG:NH1	2.49	0.57
20:E2:103:U:H2'	20:E2:104:G:C8	2.39	0.57
23:EB:377:PHE:HD2	23:EB:378:PHE:CD1	2.22	0.57
24:EC:328:ASN:OD1	24:EC:329:ALA:N	2.38	0.57
27:EF:72:GLN:NE2	27:EF:160:PRO:HG2	2.19	0.57
29:EH:174:THR:HG22	29:EH:175:LYS:N	2.19	0.57
32:EK:128:LYS:HB3	32:EK:129:TYR:CD1	2.39	0.57
32:EK:89:ARG:O	32:EK:121:GLN:NE2	2.37	0.57
46:EY:88:LYS:HG3	46:EY:92:GLU:OE2	2.04	0.57
1:F1:1165:U:H2'	1:F1:1166:G:H5''	1.86	0.57
1:F1:1348:G:H2'	1:F1:1349:U:O5'	2.04	0.57
1:F1:1595:A:OP2	1:F1:1596:U:H5	1.87	0.57
1:F1:2101:G:C8	1:F1:2101:G:H5'	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:EF:233:LYS:HG2	1:F1:2522:A:H1'	1.86	0.57
1:F1:3112:A:C2'	1:F1:3113:G:H5'	2.33	0.57
1:F1:3251:C:C4'	1:F1:3252:G:OP2	2.52	0.57
32:EK:12:ARG:NH2	1:F1:685:G:OP2	2.31	0.57
1:F1:699:C:O2'	1:F1:703:U:OP1	2.21	0.57
1:F1:358:C:C4'	1:F1:842:A:N6	2.67	0.57
9:FJ:116:LEU:HD21	9:FJ:177:LEU:HD21	1.86	0.57
21:G3:92:C:H2'	21:G3:93:G:C8	2.40	0.57
22:GA:181:LEU:HB3	46:GY:18:TYR:CD1	2.40	0.57
23:GB:203:VAL:CG1	23:GB:320:ILE:HD11	2.33	0.57
23:GB:26:ARG:HH12	23:GB:176:ILE:C	2.07	0.57
35:GN:85:SER:OG	35:GN:86:THR:N	2.36	0.57
40:GS:26:ARG:NH1	40:GS:74:ARG:O	2.38	0.57
45:GX:46:ARG:HD2	45:GX:48:PHE:HE2	1.69	0.57
1:H1:1049:U:C5	1:H1:1050:C:N4	2.73	0.57
1:H1:1567:A:H61	1:H1:1578:U:H3	1.51	0.57
1:H1:2244:G:N2	1:H1:2262:C:O2	2.37	0.57
1:H1:2247:A:O2'	1:H1:2248:G:H5'	2.05	0.57
1:H1:2277:U:O2'	1:H1:2278:G:OP1	2.21	0.57
26:GE:183:ARG:HH22	1:H1:3101:G:P	2.27	0.57
1:H1:3126:C:H2'	1:H1:3127:U:C6	2.39	0.57
9:HJ:161:VAL:CG1	9:HJ:162:HIS:N	2.68	0.57
10:HK:120:SER:O	10:HK:121:LEU:HD23	2.05	0.57
1:A1:133:C:H4'	1:A1:134:A:O5'	2.03	0.57
1:A1:3091:G:O2'	1:A1:3092:A:H5'	2.04	0.57
1:A1:396:A:C2	1:A1:397:A:C4	2.92	0.57
1:A1:432:G:H4'	1:A1:433:C:OP1	2.03	0.57
1:A1:72:A:C2	1:A1:73:G:C5	2.93	0.57
2:AA:17:THR:HA	3:AB:52:TYR:HB2	1.86	0.57
5:AE:51:LEU:HB3	5:AE:95:THR:HG21	1.86	0.57
12:AM:101:ASP:HB2	12:AM:104:SER:OG	2.03	0.57
23:BB:216:LEU:CD2	23:BB:274:THR:HA	2.34	0.57
23:BB:303:ILE:CD1	23:BB:319:PHE:CE1	2.88	0.57
24:BC:163:VAL:HG22	24:BC:175:PHE:HE2	1.69	0.57
26:BE:45:ILE:HG12	26:BE:55:LEU:HD22	1.87	0.57
29:BH:43:VAL:HG11	29:BH:197:VAL:CG2	2.33	0.57
33:BL:183:SER:CA	33:BL:191:ASN:HD22	2.17	0.57
39:BR:73:THR:HG22	39:BR:74:PRO:O	2.04	0.57
43:BV:51:GLU:O	43:BV:54:ALA:HB3	2.04	0.57
24:CC:99:ASN:ND2	24:CC:100:GLN:HE21	2.02	0.57
24:CC:316:THR:O	24:CC:317:HIS:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CF:211:PHE:O	27:CF:215:TYR:HB2	2.03	0.57
31:CJ:90:ARG:HB2	31:CJ:96:PHE:CD2	2.40	0.57
32:CK:42:HIS:CE1	1:D1:38:A:C2	2.92	0.57
32:CK:76:ASN:H	32:CK:79:LYS:HE2	1.69	0.57
34:CM:212:TYR:CD2	34:CM:228:PHE:CZ	2.91	0.57
35:CN:151:HIS:ND1	35:CN:164:ALA:O	2.33	0.57
35:CN:49:ILE:O	35:CN:53:LEU:HG	2.03	0.57
45:CX:57:ILE:HG13	1:D1:972:U:C5'	2.27	0.57
1:D1:1165:U:H2'	1:D1:1166:G:H5''	1.87	0.57
1:D1:53:G:H5'	1:D1:1573:A:HO2'	1.69	0.57
1:D1:1973:A:H2'	1:D1:1974:U:C6	2.39	0.57
1:D1:2391:G:H4'	1:D1:2392:A:OP2	2.04	0.57
22:CA:41:TYR:CE1	1:D1:2541:U:C4	2.93	0.57
1:D1:2545:A:O2'	1:D1:2546:A:OP1	2.20	0.57
1:D1:2639:C:C5'	1:D1:2640:G:OP2	2.48	0.57
29:CH:7:ARG:NH2	1:D1:2816:G:OP1	2.28	0.57
1:D1:3232:A:H4'	5:DE:55:ALA:CB	2.34	0.57
1:D1:476:A:C2	1:D1:500:G:N2	2.73	0.57
1:D1:596:A:H2'	1:D1:597:A:C8	2.40	0.57
1:D1:644:A:H2'	1:D1:645:A:C5'	2.35	0.57
1:D1:72:A:C2	1:D1:73:G:C4	2.93	0.57
1:D1:820:G:O6	50:D1:4041:HOH:O	2.14	0.57
1:D1:986:C:H4'	1:D1:987:A:OP2	2.04	0.57
1:D1:2416:U:OP1	4:DC:57:ARG:NH2	2.36	0.57
1:D1:3227:A:O2'	5:DE:86:PRO:HG3	2.03	0.57
9:DJ:61:ARG:HD3	9:DJ:106:ASN:OD1	2.05	0.57
13:DN:38:PHE:CE2	13:DN:76:ASN:HB2	2.40	0.57
14:DO:106:PHE:O	14:DO:109:LYS:HB2	2.05	0.57
17:DT:50:ASP:OD1	17:DT:51:PRO:HD2	2.05	0.57
22:EA:99:VAL:HA	22:EA:167:VAL:HG12	1.86	0.57
23:EB:24:HIS:CE1	23:EB:28:ARG:NH1	2.64	0.57
29:EH:47:PRO:HD2	29:EH:141:LYS:HD3	1.87	0.57
38:EQ:107:LYS:HB3	38:EQ:109:LEU:HG	1.85	0.57
43:EV:114:PHE:CE2	43:EV:124:ILE:HD11	2.40	0.57
1:F1:133:C:H4'	1:F1:134:A:O5'	2.03	0.57
1:F1:1803:U:H2'	1:F1:1804:G:C8	2.39	0.57
1:F1:2294:A:OP2	50:F1:4332:HOH:O	2.17	0.57
1:F1:2548:G:H4'	1:F1:2549:U:OP2	2.03	0.57
1:F1:3181:G:H2'	1:F1:3182:A:C8	2.40	0.57
1:F1:685:G:O2'	1:F1:686:U:H6	1.86	0.57
2:FA:21:ARG:NH1	2:FA:44:MET:CE	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:115:ASP:N	5:FE:115:ASP:OD1	2.35	0.57
6:FF:111:VAL:HG12	6:FF:115:LYS:HE3	1.85	0.57
6:FF:26:VAL:HG12	6:FF:27:ILE:N	2.19	0.57
33:EL:6:TYR:CA	16:FQ:45:ILE:HD11	2.31	0.57
16:FQ:7:VAL:O	16:FQ:7:VAL:HG12	2.04	0.57
24:GC:163:VAL:CG2	24:GC:175:PHE:HE2	2.17	0.57
24:GC:195:ARG:NH1	24:GC:204:ARG:CB	2.68	0.57
24:GC:258:TRP:CZ3	24:GC:266:LEU:HD11	2.39	0.57
33:GL:164:LEU:HD23	33:GL:172:ARG:HH22	1.70	0.57
34:GM:164:LYS:O	34:GM:168:ASP:HB2	2.05	0.57
42:GU:97:THR:O	42:GU:101:ARG:HG3	2.05	0.57
44:GW:22:ILE:CD1	44:GW:30:ARG:HG2	2.30	0.57
38:GQ:129:ARG:NH2	1:H1:1534:C:OP1	2.23	0.57
1:H1:2242:G:HO2'	1:H1:2265:A:N6	2.00	0.57
1:H1:3298:U:OP2	1:H1:3298:U:H6	1.87	0.57
1:H1:476:A:C2	1:H1:500:G:N2	2.72	0.57
1:H1:624:G:O2'	1:H1:625:C:O4'	2.23	0.57
5:HE:63:VAL:HG12	5:HE:76:VAL:HG13	1.86	0.57
5:HE:173:TYR:CD2	6:HF:106:PHE:HD1	2.22	0.57
6:HF:24:LEU:HD11	6:HF:85:TYR:CG	2.39	0.57
5:HE:179:THR:OG1	8:HH:12:THR:HA	2.04	0.57
19:HX:110:ASP:OD1	19:HX:111:VAL:N	2.36	0.57
19:HX:16:MET:HE2	19:HX:18:VAL:CG2	2.34	0.57
1:A1:2101:G:H5'	1:A1:2101:G:C8	2.39	0.57
1:A1:514:U:H2'	1:A1:515:A:C8	2.40	0.57
1:A1:684:A:H4'	24:BC:107:PHE:CD1	2.40	0.57
1:A1:884:A:O2'	1:A1:885:G:H5'	2.05	0.57
7:AG:102:LYS:O	7:AG:103:THR:OG1	2.12	0.57
7:AG:35:ARG:NH1	13:AN:77:LEU:C	2.55	0.57
1:A1:3237:C:C2	8:AH:7:SER:OG	2.57	0.57
18:AU:123:LEU:HD23	18:AU:136:VAL:CG2	2.34	0.57
18:AU:177:VAL:HG21	32:BK:145:CYS:HB2	1.85	0.57
20:B2:111:A:O2'	20:B2:112:G:OP1	2.22	0.57
20:B2:144:U:H2'	20:B2:145:C:H5''	1.86	0.57
23:BB:163:ASN:HA	23:BB:174:ASN:OD1	2.04	0.57
23:BB:56:ILE:CD1	23:BB:76:VAL:HG21	2.35	0.57
24:BC:14:GLU:CB	24:BC:17:LYS:HG3	2.34	0.57
29:BH:171:TRP:CE2	29:BH:181:TYR:CE2	2.93	0.57
33:BL:165:THR:HG23	33:BL:168:GLY:H	1.69	0.57
34:BM:212:TYR:CD2	34:BM:228:PHE:CZ	2.90	0.57
38:BQ:36:ARG:NH1	38:BQ:64:ARG:HG3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:25:U:C4'	20:C2:26:A:OP1	2.52	0.57
22:CA:71:LYS:HE3	22:CA:73:ASN:CG	2.25	0.57
25:CD:108:GLU:HA	25:CD:122:ILE:CG2	2.35	0.57
26:CE:144:LEU:HD13	26:CE:155:THR:HG22	1.85	0.57
27:CF:146:ILE:HG23	27:CF:156:VAL:HG11	1.86	0.57
29:CH:184:LEU:CD2	29:CH:189:LYS:HD3	2.30	0.57
33:CL:38:LYS:HB2	33:CL:62:TRP:CZ2	2.40	0.57
34:CM:6:VAL:O	34:CM:6:VAL:HG13	2.05	0.57
35:CN:146:ARG:HB3	35:CN:149:TYR:CD2	2.40	0.57
43:CV:114:PHE:CE2	43:CV:124:ILE:HD11	2.40	0.57
43:CV:72:PHE:CD1	43:CV:73:TYR:N	2.73	0.57
1:D1:1039:G:HO2'	1:D1:1041:C:H5	1.51	0.57
1:D1:925:G:H1'	1:D1:1614:A:N6	2.20	0.57
1:D1:2997:A:C2'	1:D1:2998:G:H5'	2.34	0.57
1:D1:362:G:H2'	1:D1:363:G:H5''	1.85	0.57
1:D1:44:U:OP1	50:D1:3728:HOH:O	2.17	0.57
1:D1:467:A:N6	1:D1:512:G:C4	2.73	0.57
1:D1:577:C:O2'	1:D1:578:G:H5'	2.04	0.57
1:D1:728:G:OP2	50:D1:3779:HOH:O	2.17	0.57
5:DE:63:VAL:HG12	5:DE:64:VAL:N	2.20	0.57
1:D1:3237:C:C2	8:DH:7:SER:OG	2.58	0.57
13:DN:22:LYS:HZ2	13:DN:140:SER:HB3	1.69	0.57
1:D1:1101:U:H1'	17:DT:46:ALA:HB2	1.87	0.57
20:E2:110:A:H2'	20:E2:111:A:C8	2.40	0.57
20:E2:40:A:C8	20:E2:42:G:C2	2.92	0.57
22:EA:209:ASP:O	22:EA:210:HIS:HB2	2.04	0.57
24:EC:309:LYS:HG2	35:EN:40:ARG:O	2.05	0.57
27:EF:127:TYR:CD1	27:EF:185:LYS:NZ	2.69	0.57
29:EH:75:ASN:HD22	29:EH:151:ALA:HA	1.70	0.57
30:EI:109:THR:HG22	30:EI:110:PRO:HD3	1.85	0.57
33:EL:28:TRP:HA	33:EL:31:ARG:NH1	2.20	0.57
33:EL:53:TYR:O	33:EL:54:LYS:HG2	2.05	0.57
35:EN:88:THR:HA	35:EN:107:THR:OG1	2.05	0.57
39:ER:94:VAL:HG21	39:ER:130:ALA:HB2	1.87	0.57
40:ES:26:ARG:NH1	40:ES:74:ARG:O	2.38	0.57
43:EV:82:PHE:CZ	43:EV:111:GLY:HA3	2.40	0.57
45:EX:36:ARG:O	45:EX:36:ARG:HG3	2.05	0.57
1:F1:1055:A:C4	1:F1:1056:A:C8	2.93	0.57
1:F1:122:U:H2'	1:F1:123:C:H6	1.69	0.57
1:F1:1702:G:H2'	1:F1:1703:A:C8	2.39	0.57
1:F1:1857:G:OP1	3:FB:10:LYS:HD2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:92:G:H2'	1:F1:93:A:C8	2.39	0.57
6:FF:3:PHE:HD1	19:FX:164:PRO:HB3	1.66	0.57
6:FF:67:GLN:HE21	6:FF:71:LEU:HB3	1.69	0.57
8:FH:34:GLN:HB3	8:FH:88:VAL:HG13	1.87	0.57
8:FH:73:ILE:HG22	8:FH:91:PHE:HD2	1.70	0.57
1:D1:1046:G:O3'	13:FN:3:LYS:HE2	2.05	0.57
20:G2:137:G:H21	33:GL:112:GLU:CG	2.18	0.57
21:G3:33:U:C2	34:GM:212:TYR:CD1	2.93	0.57
22:GA:20:HIS:CD2	22:GA:193:LYS:O	2.56	0.57
23:GB:381:ASP:HB3	23:GB:384:LYS:HB3	1.85	0.57
27:GF:170:PHE:O	27:GF:215:TYR:CD2	2.58	0.57
27:GF:92:TYR:HE2	27:GF:123:ILE:CG2	2.16	0.57
30:GI:127:ARG:O	1:H1:1343:G:H5''	2.04	0.57
34:GM:153:THR:HG22	34:GM:179:ARG:NH1	2.20	0.57
39:GR:114:LYS:HD2	39:GR:137:ASP:OD2	2.04	0.57
40:GS:116:SER:O	40:GS:120:ARG:HG3	2.04	0.57
40:GS:58:VAL:HG12	40:GS:59:ARG:HG2	1.85	0.57
43:GV:98:ARG:NH1	43:GV:98:ARG:HG3	2.20	0.57
1:H1:1149:U:H2'	1:H1:1150:U:H5'	1.86	0.57
1:H1:1922:G:H2'	1:H1:1923:G:O5'	2.03	0.57
1:H1:3185:G:N3	1:H1:3237:C:C2	2.73	0.57
1:H1:619:G:O5'	1:H1:619:G:H8	1.87	0.57
1:H1:836:U:H2'	1:H1:837:G:H8	1.67	0.57
13:HN:13:LEU:CD2	13:HN:75:VAL:HG21	2.34	0.57
1:A1:1013:U:P	43:BV:122:ASN:HD22	2.28	0.57
1:A1:118:A:C4'	1:A1:119:A:O5'	2.48	0.57
1:A1:3251:C:C4'	1:A1:3252:G:OP2	2.53	0.57
1:A1:620:A:C8	24:BC:319:ARG:NH2	2.72	0.57
5:AE:53:LEU:HD11	5:AE:90:VAL:HG21	1.87	0.57
6:AF:13:VAL:HG22	6:AF:55:LEU:HD23	1.87	0.57
16:AQ:13:PHE:CD1	16:AQ:14:ILE:N	2.73	0.57
20:B2:129:A:C5	20:B2:130:C:C5	2.93	0.57
24:BC:99:ASN:ND2	24:BC:100:GLN:HE21	2.01	0.57
29:BH:147:TYR:H	29:BH:147:TYR:HD1	1.53	0.57
29:BH:169:GLN:O	29:BH:178:ARG:HG3	2.04	0.57
31:BJ:32:ASN:HD21	31:BJ:116:SER:H	1.52	0.57
31:BJ:90:ARG:HB2	31:BJ:96:PHE:CD2	2.39	0.57
34:BM:17:GLN:OE1	37:BP:20:LYS:CA	2.50	0.57
39:BR:96:ASN:HA	39:BR:128:LYS:HG3	1.87	0.57
43:BV:114:PHE:CE2	43:BV:124:ILE:HD11	2.39	0.57
22:CA:104:PRO:HA	22:CA:163:CYS:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:189:LYS:HE2	29:CH:199:VAL:CG1	2.34	0.57
30:CI:10:ALA:C	30:CI:13:HIS:HD2	2.08	0.57
34:CM:17:GLN:HB3	1:D1:2677:U:O2	2.04	0.57
21:C3:116:A:H4'	34:CM:260:ARG:HH22	1.69	0.57
35:CN:66:SER:HB3	35:CN:93:LEU:HG	1.87	0.57
24:CC:395:ASP:CG	37:CP:154:ARG:HH22	2.04	0.57
39:CR:114:LYS:HD2	39:CR:137:ASP:OD2	2.05	0.57
42:CU:81:PRO:HD2	42:CU:84:ILE:HD12	1.87	0.57
45:CX:3:ILE:O	45:CX:5:PRO:HD2	2.05	0.57
46:CY:60:CYS:SG	46:CY:62:LYS:HG2	2.44	0.57
1:D1:1049:U:H2'	1:D1:1050:C:C6	2.39	0.57
1:D1:1095:C:H2'	1:D1:1095:C:O2	2.05	0.57
30:CI:129:ARG:NH2	1:D1:1343:G:C2	2.73	0.57
1:D1:1348:G:H2'	1:D1:1349:U:O5'	2.04	0.57
24:CC:195:ARG:HH22	1:D1:1409:C:P	2.27	0.57
39:CR:43:LEU:HD11	1:D1:1599:G:H5''	1.87	0.57
1:D1:1637:A:H2'	1:D1:1638:A:H5''	1.87	0.57
1:D1:2433:A:H2'	1:D1:2434:A:H8	1.67	0.57
1:D1:3310:U:H4'	1:D1:3311:U:OP2	2.02	0.57
1:D1:858:G:H2'	1:D1:859:U:O4'	2.05	0.57
1:D1:894:G:N7	50:D1:4201:HOH:O	2.33	0.57
6:DF:13:VAL:HG13	6:DF:53:VAL:HG13	1.87	0.57
6:DF:24:LEU:HD11	6:DF:85:TYR:CG	2.40	0.57
9:DJ:67:LYS:HD2	9:DJ:112:ASP:CG	2.25	0.57
1:D1:519:A:H5''	14:DO:89:ARG:NH1	2.20	0.57
42:CU:122:LEU:O	18:DU:148:ASN:ND2	2.38	0.57
22:EA:35:PHE:CZ	22:EA:39:GLN:OE1	2.58	0.57
47:CO:174:UNK:CB	29:EH:81:SER:HB2	2.35	0.57
34:EM:163:LEU:HD23	34:EM:180:PHE:CE2	2.39	0.57
21:E3:116:A:H4'	34:EM:260:ARG:NH2	2.19	0.57
42:EU:97:THR:O	42:EU:101:ARG:HG3	2.05	0.57
43:EV:129:PRO:HG2	43:EV:130:PHE:CE2	2.39	0.57
43:EV:72:PHE:CD1	43:EV:73:TYR:N	2.71	0.57
1:F1:1051:C:C2'	1:F1:1052:A:H8	2.18	0.57
1:F1:1172:G:O6	1:F1:1185:A:H2	1.87	0.57
1:F1:1518:G:O6	3:FB:2:GLY:N	2.38	0.57
1:F1:2295:G:P	50:F1:4342:HOH:O	2.63	0.57
1:F1:2309:U:C4'	1:F1:2310:G:OP2	2.51	0.57
1:F1:3143:A:C2	1:F1:3250:A:C2	2.93	0.57
1:F1:3150:U:H2'	1:F1:3151:G:H5''	1.86	0.57
1:F1:3191:G:C2'	1:F1:3192:C:OP2	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:439:A:H2'	1:F1:440:C:O5'	2.04	0.57
1:F1:623:G:N2	1:F1:633:C:O2	2.38	0.57
35:EN:57:ARG:NH1	1:F1:697:A:OP2	2.35	0.57
6:FF:125:SER:O	6:FF:126:LYS:HB2	2.05	0.57
8:FH:11:PRO:HG2	8:FH:12:THR:N	2.20	0.57
12:FM:35:PHE:CE1	12:FM:39:LEU:HD11	2.39	0.57
14:FO:4:LEU:O	14:FO:8:ILE:HG13	2.04	0.57
18:FU:54:PRO:HD3	18:FU:73:PHE:CD2	2.39	0.57
18:FU:74:THR:HB	18:FU:101:ASN:HD21	1.68	0.57
20:G2:145:C:H2'	20:G2:146:A:C8	2.40	0.57
23:GB:85:THR:HB	23:GB:161:HIS:HB3	1.86	0.57
27:GF:46:ARG:O	39:GR:37:PHE:HB2	2.05	0.57
29:GH:47:PRO:HD2	29:GH:141:LYS:HD3	1.87	0.57
30:GI:35:VAL:HG13	30:GI:106:GLY:O	2.05	0.57
37:GP:17:LYS:NZ	37:GP:47:SER:HB3	2.19	0.57
37:GP:62:GLY:HA3	37:GP:74:VAL:CG1	2.35	0.57
38:GQ:107:LYS:HB3	38:GQ:109:LEU:HG	1.86	0.57
40:GS:43:ASN:O	40:GS:125:LEU:CD1	2.53	0.57
43:GV:157:ARG:HG3	43:GV:200:TRP:CE2	2.39	0.57
46:GY:61:LYS:HD3	11:HL:48:GLY:O	2.04	0.57
1:H1:1055:A:H2'	1:H1:1056:A:H8	1.70	0.57
1:H1:1402:G:C2'	1:H1:1403:C:H5'	2.35	0.57
1:H1:152:U:C5'	1:H1:153:C:OP2	2.52	0.57
1:H1:2400:C:O2	1:H1:2807:A:N1	2.37	0.57
1:H1:2873:C:O2'	1:H1:2874:U:H5'	2.04	0.57
1:H1:2958:C:C4'	1:H1:2959:A:N7	2.64	0.57
1:H1:2997:A:C2'	1:H1:2998:G:H5'	2.35	0.57
1:H1:631:G:O2'	1:H1:632:G:H5'	2.04	0.57
8:HH:107:MET:SD	8:HH:109:TYR:HE2	2.27	0.57
9:HJ:117:ILE:HB	9:HJ:121:LEU:HD22	1.86	0.57
12:HM:95:LEU:HA	12:HM:108:ARG:O	2.05	0.57
15:HP:15:TRP:O	15:HP:72:TYR:CZ	2.58	0.57
17:HT:19:ASN:N	50:HT:202:HOH:O	2.27	0.57
1:A1:1027:G:O2'	1:A1:1028:A:P	2.62	0.57
1:A1:1358:U:H4'	1:A1:1359:A:OP2	2.03	0.57
1:A1:1840:U:OP2	1:A1:1840:U:H6	1.87	0.57
1:A1:2101:G:H5'	50:A1:4516:HOH:O	2.05	0.57
1:A1:2930:C:H3'	50:A1:4150:HOH:O	2.04	0.57
1:A1:304:U:C2'	1:A1:305:A:OP2	2.52	0.57
1:A1:3230:G:HO2'	1:A1:3231:U:P	2.27	0.57
1:A1:792:G:H5'	18:AU:190:TRP:CD2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:868:G:H1	1:A1:875:U:H3	1.52	0.57
1:A1:880:U:C4	1:A1:881:G:C5	2.92	0.57
5:AE:135:THR:HG22	5:AE:136:GLU:N	2.19	0.57
5:AE:173:TYR:CE2	6:AF:106:PHE:HA	2.40	0.57
18:AU:169:ILE:HD13	32:BK:99:VAL:HB	1.85	0.57
20:B2:103:U:H2'	20:B2:104:G:C8	2.40	0.57
26:BE:18:ILE:HG12	26:BE:27:VAL:HG22	1.87	0.57
1:A1:1308:U:C3'	28:BG:58:UNK:HG2	2.35	0.57
31:BJ:19:LEU:HB3	31:BJ:55:SER:HB3	1.87	0.57
32:BK:73:PRO:HB2	32:BK:109:PHE:HA	1.86	0.57
34:BM:210:ASP:HA	34:BM:213:MET:CG	2.35	0.57
38:BQ:61:PRO:HG3	38:BQ:78:PHE:CD2	2.40	0.57
43:BV:129:PRO:HG2	43:BV:130:PHE:CE2	2.40	0.57
43:BV:83:ALA:O	43:BV:111:GLY:HA2	2.04	0.57
44:BW:49:ARG:HB2	44:BW:91:LEU:HD23	1.87	0.57
44:BW:66:ILE:HG22	44:BW:67:PRO:O	2.05	0.57
20:C2:111:A:H4'	20:C2:112:G:OP1	2.04	0.57
20:C2:143:U:H2'	20:C2:144:U:H6	1.70	0.57
22:CA:66:ASP:OD2	22:CA:71:LYS:HE2	2.04	0.57
23:CB:281:TYR:CB	23:CB:321:MET:HE3	2.35	0.57
28:CG:97:UNK:O	28:CG:101:UNK:HG3	2.05	0.57
34:CM:109:LEU:HD21	34:CM:142:PHE:CE2	2.39	0.57
34:CM:56:THR:HG22	34:CM:58:THR:N	2.15	0.57
34:CM:56:THR:HG22	34:CM:57:ASN:N	2.18	0.57
39:CR:121:LEU:HD11	1:D1:1548:U:H3'	1.87	0.57
1:D1:1627:A:C6	1:D1:1628:A:C6	2.93	0.57
1:D1:1702:G:H2'	1:D1:1703:A:H8	1.68	0.57
1:D1:2640:G:O2'	1:D1:2784:G:N1	2.37	0.57
1:D1:2958:C:C4'	1:D1:2959:A:N7	2.65	0.57
1:D1:3097:G:P	10:DK:112:LYS:HZ1	2.28	0.57
1:D1:581:C:H2'	1:D1:582:A:H5''	1.87	0.57
1:D1:72:A:C2	1:D1:73:G:C5	2.93	0.57
1:D1:957:U:H4'	1:D1:958:A:O5'	2.05	0.57
9:DJ:145:ASN:ND2	9:DJ:146:VAL:N	2.52	0.57
12:DM:15:LEU:HD23	12:DM:73:PHE:HB3	1.86	0.57
18:DU:76:GLN:OE1	18:DU:101:ASN:HB2	2.04	0.57
19:DX:93:LEU:CD1	19:DX:120:LEU:HD11	2.27	0.57
24:EC:335:PRO:HB2	43:EV:42:ILE:HG12	1.86	0.57
27:EF:149:ASP:OD2	27:EF:176:LYS:HG2	2.05	0.57
39:ER:94:VAL:HG11	39:ER:103:ILE:CD1	2.35	0.57
40:ES:55:VAL:HG12	40:ES:56:LEU:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ET:11:CYS:HG	41:ET:13:TYR:HD2	1.53	0.57
1:F1:1190:U:H2'	1:F1:1191:G:C8	2.40	0.57
1:F1:1736:G:C2	1:F1:1737:A:C2	2.93	0.57
1:F1:1775:A:C8	1:F1:1776:G:H2'	2.34	0.57
1:F1:3298:U:H6	1:F1:3298:U:OP2	1.88	0.57
1:F1:513:G:H2'	1:F1:514:U:C6	2.40	0.57
1:F1:519:A:N3	1:F1:519:A:H2'	2.20	0.57
1:F1:566:U:C3'	1:F1:567:C:H5'	2.35	0.57
5:FE:173:TYR:CD2	6:FF:106:PHE:CD1	2.93	0.57
6:FF:106:PHE:HD2	6:FF:110:ARG:NE	2.00	0.57
11:FL:74:VAL:HG12	11:FL:75:SER:H	1.70	0.57
15:FP:58:PRO:O	15:FP:61:ALA:HB3	2.05	0.57
20:G2:134:C:C6	20:G2:134:C:H3'	2.40	0.57
23:GB:245:ARG:HG3	1:H1:1913:G:OP2	2.04	0.57
23:GB:55:HIS:CE1	41:GT:18:GLY:HA3	2.39	0.57
23:GB:97:ARG:HH21	1:H1:3206:A:H5'	1.70	0.57
24:GC:195:ARG:NH1	24:GC:204:ARG:HB3	2.20	0.57
24:GC:9:VAL:HG11	24:GC:260:GLU:OE2	2.05	0.57
34:GM:212:TYR:CD2	34:GM:228:PHE:CZ	2.90	0.57
35:GN:2:ALA:HB2	1:H1:1186:A:H3'	1.87	0.57
37:GP:66:ASN:ND2	17:HT:35:VAL:HA	2.20	0.57
1:H1:132:U:O2'	1:H1:133:C:P	2.60	0.57
1:H1:1767:U:C4'	1:H1:1768:G:OP2	2.53	0.57
1:H1:2219:A:OP1	16:HQ:78:ARG:CZ	2.53	0.57
1:H1:2343:A:H8	1:H1:2343:A:O5'	1.88	0.57
1:H1:2715:C:H3'	1:H1:2717:G:H21	1.70	0.57
1:H1:2850:U:O2	1:H1:2850:U:H2'	2.04	0.57
1:H1:433:C:O2	1:H1:433:C:H2'	2.04	0.57
1:H1:619:G:H4'	1:H1:620:A:N3	2.20	0.57
30:GI:196:PHE:HZ	6:HF:107:ASP:HA	1.70	0.57
17:HT:16:SER:HA	50:HT:204:HOH:O	2.05	0.57
1:A1:152:U:H5'	1:A1:153:C:OP2	2.04	0.56
1:A1:1942:C:H6	1:A1:1942:C:C5'	2.18	0.56
1:A1:2149:U:C2'	1:A1:2150:U:C5'	2.83	0.56
1:A1:2380:U:H4'	1:A1:2381:A:OP1	2.05	0.56
1:A1:3181:G:H2'	1:A1:3182:A:C8	2.40	0.56
1:A1:3228:U:C4'	1:A1:3229:C:C5'	2.77	0.56
1:A1:3185:G:N3	1:A1:3237:C:N3	2.54	0.56
1:A1:46:A:C4'	1:A1:47:G:O5'	2.52	0.56
1:A1:90:G:H4'	4:AC:53:LYS:NZ	2.20	0.56
1:A1:838:G:H1'	2:AA:50:TRP:CZ2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:A1:4393:HOH:O	3:AB:48:LYS:HE3	2.05	0.56
5:AE:4:GLY:N	5:AE:5:PRO:HD2	2.19	0.56
6:AF:56:THR:O	6:AF:56:THR:HG22	2.03	0.56
8:AH:84:ASN:O	8:AH:86:VAL:N	2.38	0.56
13:AN:122:TYR:CD2	27:BF:21:LEU:HD21	2.40	0.56
14:AO:40:LEU:O	14:AO:44:HIS:CE1	2.58	0.56
20:B2:40:A:C8	20:B2:42:G:C2	2.93	0.56
21:B3:48:G:OP2	34:BM:94:SER:HB3	2.04	0.56
23:BB:32:PHE:CD2	23:BB:180:GLN:HB3	2.39	0.56
26:BE:144:LEU:HD13	26:BE:155:THR:HG22	1.85	0.56
27:BF:123:ILE:HD12	27:BF:197:ARG:HD3	1.87	0.56
27:BF:133:THR:O	27:BF:137:GLU:HG3	2.05	0.56
27:BF:183:VAL:HG11	27:BF:185:LYS:HE3	1.85	0.56
37:BP:34:TYR:CD1	37:BP:72:ILE:HD11	2.39	0.56
43:BV:41:TRP:CD1	43:BV:177:CYS:SG	2.98	0.56
24:CC:163:VAL:HG22	24:CC:175:PHE:CE2	2.40	0.56
29:CH:75:ASN:HD21	29:CH:154:ARG:HD2	1.69	0.56
29:CH:208:ARG:HG3	29:CH:209:LEU:H	1.70	0.56
30:CI:13:HIS:CE1	30:CI:118:VAL:HG13	2.40	0.56
32:CK:117:ARG:NH1	32:CK:137:ARG:CZ	2.67	0.56
34:CM:125:VAL:O	34:CM:201:LYS:HD2	2.03	0.56
37:CP:142:GLN:O	19:DX:36:PRO:HD2	2.05	0.56
1:D1:1167:G:H2'	1:D1:1168:C:H6	1.70	0.56
1:D1:1190:U:H2'	1:D1:1191:G:C8	2.40	0.56
1:D1:1884:G:H2'	1:D1:1885:G:H5'	1.85	0.56
25:CD:65:MET:HE3	1:D1:2670:U:O4'	2.05	0.56
1:D1:3135:A:H2'	1:D1:3136:A:C8	2.40	0.56
1:D1:3144:G:N2	1:D1:3249:U:H1'	2.20	0.56
1:D1:316:A:C2	1:D1:317:A:C4	2.93	0.56
1:D1:3193:G:N2	1:D1:3218:U:H1'	2.20	0.56
1:D1:524:G:H4'	1:D1:525:C:OP1	2.04	0.56
1:D1:552:U:HO2'	1:D1:553:C:H5'	1.69	0.56
1:D1:76:U:C2'	1:D1:77:A:H5'	2.34	0.56
2:DA:21:ARG:CZ	2:DA:44:MET:HE1	2.35	0.56
9:DJ:201:ASP:O	9:DJ:224:LEU:HD21	2.04	0.56
1:D1:1662:A:H4'	11:DL:76:ARG:NH2	2.20	0.56
14:DO:94:ILE:HD13	14:DO:107:ALA:HB1	1.87	0.56
15:DP:45:ARG:HD2	15:DP:46:GLY:H	1.69	0.56
20:E2:95:C:HO2'	20:E2:96:A:H8	1.53	0.56
21:E3:60:C:H5''	34:EM:281:LYS:HG2	1.87	0.56
23:EB:381:ASP:HB3	23:EB:384:LYS:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ED:15:ALA:O	25:ED:72:ARG:HG2	2.05	0.56
25:ED:82:ARG:O	25:ED:86:VAL:HG23	2.05	0.56
26:EE:154:GLN:HE22	1:F1:3115:C:H1'	1.70	0.56
31:EJ:124:LYS:HG3	31:EJ:141:VAL:C	2.26	0.56
32:EK:36:LYS:HA	18:FU:1:MET:CE	2.34	0.56
34:EM:81:TYR:O	34:EM:84:LYS:HB2	2.05	0.56
36:EO:133:LYS:HG3	36:EO:134:ASN:N	2.17	0.56
44:EW:14:ASN:CG	44:EW:17:LYS:HG3	2.24	0.56
1:F1:1464:U:H2'	1:F1:1465:U:H6	1.70	0.56
1:F1:152:U:C5'	1:F1:153:C:OP2	2.53	0.56
1:F1:2550:U:H5'	1:F1:2551:A:O5'	2.05	0.56
1:F1:3168:A:N7	19:FX:166:VAL:CG1	2.67	0.56
1:F1:95:U:O2'	50:F1:3625:HOH:O	2.18	0.56
3:FB:28:ARG:CZ	3:FB:36:ARG:O	2.53	0.56
5:FE:173:TYR:CD2	6:FF:106:PHE:HD1	2.22	0.56
7:FG:13:LYS:CB	7:FG:100:ILE:HD12	2.31	0.56
15:FP:53:PHE:CE1	15:FP:55:THR:HG22	2.40	0.56
20:G2:28:G:N7	40:GS:12:ARG:NH2	2.53	0.56
21:G3:30:G:C2'	21:G3:31:G:H5'	2.35	0.56
22:GA:31:ARG:HH12	22:GA:42:ILE:HG12	1.69	0.56
28:GG:13:UNK:O	28:GG:17:UNK:HG2	2.04	0.56
30:GI:92:PRO:HG2	1:H1:656:C:P	2.44	0.56
32:GK:109:PHE:C	32:GK:110:PHE:HD1	2.08	0.56
43:GV:115:ARG:HH21	43:GV:192:PHE:HB3	1.70	0.56
13:AN:28:SER:O	1:H1:1045:G:H4'	2.05	0.56
1:H1:1048:U:C4	1:H1:1049:U:C5	2.93	0.56
1:H1:1196:A:C6	1:H1:1357:A:C8	2.92	0.56
1:H1:2188:U:HO2'	1:H1:2189:G:P	2.21	0.56
23:GB:264:ARG:CZ	1:H1:2387:C:O2'	2.52	0.56
1:H1:2717:G:C5'	50:H1:4320:HOH:O	2.52	0.56
1:H1:284:U:H1'	50:H1:3677:HOH:O	2.04	0.56
1:H1:3005:A:O2'	1:H1:3006:A:H5'	2.05	0.56
1:H1:3112:A:C2'	1:H1:3113:G:H5'	2.34	0.56
1:H1:432:G:H4'	1:H1:433:C:OP1	2.04	0.56
1:H1:541:A:H2'	1:H1:542:C:C6	2.39	0.56
1:H1:661:C:C2	1:H1:662:C:C5	2.93	0.56
2:HA:21:ARG:HB2	2:HA:39:TYR:HD1	1.68	0.56
4:HC:94:ILE:HA	4:HC:97:ILE:HD12	1.87	0.56
9:HJ:116:LEU:HD21	9:HJ:177:LEU:HD21	1.87	0.56
1:H1:3096:U:H5''	10:HK:112:LYS:NZ	2.20	0.56
12:HM:19:ILE:HD13	12:HM:105:TYR:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:HO:62:LEU:HD11	14:HO:97:ARG:CG	2.34	0.56
14:HO:6:TRP:CZ3	14:HO:40:LEU:HD12	2.36	0.56
33:GL:6:TYR:HA	16:HQ:45:ILE:HD11	1.87	0.56
18:HU:50:GLU:O	18:HU:150:LEU:HD12	2.04	0.56
19:HX:15:GLN:NE2	19:HX:115:GLY:HA2	2.19	0.56
19:HX:16:MET:HE3	19:HX:121:ILE:HD12	1.87	0.56
1:A1:119:A:N7	27:BF:103:ARG:NH2	2.52	0.56
1:A1:1210:C:C5'	19:AX:171:ARG:HH21	2.17	0.56
1:A1:1941:C:H2'	1:A1:1942:C:H5''	1.86	0.56
1:A1:2429:U:H4'	1:A1:2430:G:O5'	2.04	0.56
1:A1:257:G:H2'	1:A1:258:A:H5'	1.86	0.56
1:A1:3126:C:H2'	1:A1:3127:U:C6	2.40	0.56
1:A1:511:U:O2'	1:A1:512:G:H5'	2.05	0.56
1:A1:790:C:O2'	1:A1:791:C:C6	2.58	0.56
1:A1:978:G:H1'	1:A1:1142:G:H5''	1.87	0.56
5:AE:20:LYS:O	14:AO:105:GLN:NE2	2.37	0.56
1:A1:1753:A:OP2	7:AG:26:GLY:HA2	2.05	0.56
8:AH:26:SER:OG	8:AH:29:THR:HB	2.05	0.56
10:AK:92:GLU:O	10:AK:105:PRO:HB3	2.05	0.56
15:AP:31:VAL:HG22	15:AP:44:LEU:HD23	1.87	0.56
18:AU:100:LYS:HE2	18:AU:102:ARG:HH21	1.69	0.56
19:AX:167:LYS:CG	19:AX:188:THR:HG21	2.34	0.56
23:BB:337:ARG:NH2	23:BB:340:ILE:HG23	2.21	0.56
27:BF:152:PRO:HB2	27:BF:154:GLU:OE1	2.04	0.56
29:BH:139:ARG:HD3	29:BH:173:PHE:CD1	2.40	0.56
35:BN:73:ASN:N	35:BN:76:ASN:HB2	2.18	0.56
42:BU:25:LEU:O	42:BU:28:GLU:HB3	2.04	0.56
22:CA:32:VAL:HA	22:CA:124:ARG:HH11	1.68	0.56
23:CB:103:THR:CG2	23:CB:104:THR:N	2.68	0.56
23:CB:54:THR:HG23	23:CB:358:ASP:HB3	1.86	0.56
24:CC:148:ARG:HE	24:CC:187:ARG:HD2	1.70	0.56
33:CL:147:ARG:NH2	1:D1:111:C:OP1	2.38	0.56
34:CM:68:THR:HB	34:CM:71:CYS:O	2.03	0.56
37:CP:66:ASN:ND2	17:DT:35:VAL:HA	2.20	0.56
44:CW:14:ASN:CG	44:CW:17:LYS:HG3	2.25	0.56
45:CX:56:LYS:O	1:D1:1431:U:H1'	2.04	0.56
1:D1:1168:C:OP1	50:D1:4006:HOH:O	2.18	0.56
1:D1:2127:A:H2'	1:D1:2128:C:H5'	1.86	0.56
1:D1:2217:C:C4'	1:D1:2218:A:OP2	2.50	0.56
1:D1:2558:U:C4	1:D1:2559:U:C4	2.94	0.56
1:D1:2649:G:OP1	1:D1:2739:C:O2'	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3177:G:C8	1:D1:3177:G:H5''	2.40	0.56
1:D1:3191:G:C5	1:D1:3218:U:O4	2.58	0.56
1:D1:62:G:O6	50:D1:3748:HOH:O	2.17	0.56
30:CI:92:PRO:HG2	1:D1:656:C:OP1	2.05	0.56
35:CN:173:LYS:HE3	1:D1:86:A:OP1	2.04	0.56
1:D1:927:G:H2'	1:D1:928:U:H6	1.69	0.56
1:D1:971:C:O2'	1:D1:972:U:H5'	2.04	0.56
7:DG:43:PHE:HE1	7:DG:68:HIS:CD2	2.22	0.56
19:DX:7:GLN:HE22	19:DX:80:GLU:H	1.51	0.56
22:EA:117:VAL:HG12	22:EA:118:GLU:N	2.20	0.56
22:EA:31:ARG:NH1	22:EA:42:ILE:HG13	2.20	0.56
29:EH:92:HIS:HD2	1:F1:1070:U:H1'	1.70	0.56
34:EM:210:ASP:HA	34:EM:213:MET:CG	2.35	0.56
37:EP:74:VAL:CG1	37:EP:75:ILE:N	2.67	0.56
41:ET:48:ALA:HB1	41:ET:54:THR:HG21	1.87	0.56
42:EU:14:THR:HG22	42:EU:15:GLU:H	1.70	0.56
35:EN:5:LEU:CD2	43:EV:106:ARG:HD2	2.35	0.56
1:F1:1190:U:H3	1:F1:1363:A:H61	1.52	0.56
1:F1:1367:A:H2'	1:F1:1368:U:H6	1.68	0.56
38:EQ:27:HIS:HE1	1:F1:2350:G:OP2	1.88	0.56
1:F1:2639:C:C5'	1:F1:2640:G:OP2	2.50	0.56
1:F1:304:U:C2'	1:F1:305:A:OP2	2.53	0.56
1:F1:3257:U:H2'	1:F1:3258:C:H6	1.71	0.56
1:F1:675:G:C6	1:F1:676:G:C6	2.93	0.56
1:F1:358:C:O2'	2:FA:16:HIS:CD2	2.58	0.56
1:F1:358:C:O2'	2:FA:16:HIS:HD2	1.88	0.56
5:FE:51:LEU:HB3	5:FE:95:THR:HG21	1.87	0.56
7:FG:13:LYS:HG2	7:FG:14:LEU:H	1.70	0.56
14:FO:40:LEU:O	14:FO:44:HIS:CE1	2.57	0.56
21:G3:48:G:H2'	21:G3:49:A:C8	2.40	0.56
29:GH:139:ARG:HD3	29:GH:173:PHE:CD1	2.40	0.56
29:GH:139:ARG:HG2	29:GH:173:PHE:HE1	1.71	0.56
30:GI:35:VAL:HG12	30:GI:36:ARG:N	2.20	0.56
21:G3:33:U:C6	34:GM:212:TYR:HE1	2.23	0.56
34:GM:231:TRP:HZ2	34:GM:243:VAL:CG2	2.19	0.56
37:GP:82:GLY:HA3	50:HT:205:HOH:O	2.06	0.56
42:GU:98:LYS:HE3	42:GU:101:ARG:NH1	2.19	0.56
46:GY:22:LEU:O	46:GY:26:VAL:HG23	2.05	0.56
1:H1:1367:A:H2'	1:H1:1368:U:H6	1.69	0.56
1:H1:970:C:O4'	1:H1:1433:A:H1'	2.04	0.56
1:H1:2191:C:O2	1:H1:2265:A:H2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3108:U:H2'	1:H1:3109:C:H5'	1.86	0.56
1:H1:424:G:H2'	1:H1:425:U:H5'	1.87	0.56
1:H1:644:A:H2'	1:H1:645:A:C5'	2.35	0.56
15:HP:31:VAL:HG22	15:HP:44:LEU:HD23	1.86	0.56
1:A1:1592:G:C6	1:A1:1593:A:C6	2.93	0.56
1:A1:3118:A:H5''	1:A1:3119:A:OP2	2.06	0.56
1:A1:40:C:C6	1:A1:40:C:H3'	2.39	0.56
1:A1:566:U:C3'	1:A1:567:C:H5'	2.35	0.56
1:A1:829:C:OP1	24:BC:105:ARG:NH2	2.37	0.56
4:AC:14:LYS:HG3	4:AC:77:THR:OG1	2.05	0.56
11:AL:59:VAL:HG11	11:AL:63:GLU:HB3	1.87	0.56
15:AP:15:TRP:O	15:AP:72:TYR:CZ	2.58	0.56
16:AQ:29:GLN:O	16:AQ:31:LYS:HD3	2.05	0.56
19:AX:82:SER:O	19:AX:87:LYS:NZ	2.35	0.56
21:B3:5:U:H2'	21:B3:6:C:C6	2.40	0.56
23:BB:110:ILE:O	23:BB:115:LYS:HE3	2.05	0.56
23:BB:54:THR:HG21	23:BB:358:ASP:O	2.05	0.56
25:BD:77:ARG:HH22	25:BD:166:GLU:CG	2.19	0.56
1:A1:119:A:C2	27:BF:122:PRO:CG	2.87	0.56
36:BO:106:LEU:CD2	36:BO:138:LEU:HD21	2.32	0.56
43:BV:207:PRO:HG3	43:BV:211:PHE:CE2	2.40	0.56
45:BX:44:VAL:HG12	45:BX:54:MET:HE2	1.88	0.56
22:CA:248:ARG:HA	22:CA:251:GLN:HE21	1.70	0.56
24:CC:338:LYS:O	24:CC:341:LYS:HB2	2.05	0.56
25:CD:32:LYS:HD3	25:CD:119:SER:O	2.05	0.56
29:CH:174:THR:HG22	29:CH:175:LYS:N	2.20	0.56
32:CK:128:LYS:HB3	32:CK:129:TYR:CD1	2.39	0.56
34:CM:121:GLY:HA2	34:CM:130:PHE:CZ	2.40	0.56
35:CN:82:VAL:O	35:CN:139:LEU:HD12	2.05	0.56
38:CQ:97:LEU:O	38:CQ:100:LEU:HB2	2.04	0.56
30:CI:132:ARG:NH1	1:D1:1216:C:O2'	2.38	0.56
1:D1:2238:A:O3'	50:D1:4291:HOH:O	2.17	0.56
1:D1:2907:A:C5'	1:D1:2907:A:H8	2.18	0.56
1:D1:3161:A:C6	1:D1:3176:A:C2	2.93	0.56
1:D1:418:G:C6	1:D1:2378:A:O2'	2.55	0.56
1:D1:46:A:C4'	1:D1:47:G:O5'	2.52	0.56
23:CB:239:LYS:HG3	1:D1:899:U:OP2	2.04	0.56
9:DJ:43:VAL:HG12	9:DJ:44:PRO:N	2.20	0.56
18:DU:74:THR:HB	18:DU:101:ASN:HD21	1.69	0.56
20:E2:1:A:H5''	20:E2:2:G:OP1	2.05	0.56
23:EB:259:ARG:HA	30:EI:63:HIS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:201:LEU:HD23	24:EC:201:LEU:N	2.19	0.56
24:EC:205:ARG:HH21	40:ES:11:ARG:NH1	2.02	0.56
26:EE:130:VAL:HG22	26:EE:152:VAL:HG22	1.86	0.56
27:EF:183:VAL:HG11	27:EF:185:LYS:HE3	1.86	0.56
27:EF:67:PRO:HB2	27:EF:68:PRO:CD	2.34	0.56
27:EF:69:GLN:HG2	27:EF:222:ARG:NH1	2.20	0.56
29:EH:75:ASN:HD21	29:EH:154:ARG:HD2	1.69	0.56
44:EW:4:GLN:HE21	44:EW:76:LYS:NZ	2.02	0.56
1:F1:1543:A:H2'	1:F1:1544:U:H6	1.70	0.56
1:F1:157:A:O5'	16:FQ:25:HIS:HE1	1.87	0.56
1:F1:169:A:N7	1:F1:251:A:N6	2.53	0.56
1:F1:1729:U:C5	1:F1:1812:G:H1'	2.40	0.56
1:F1:1840:U:H6	1:F1:1840:U:OP2	1.87	0.56
1:F1:2537:C:H2'	1:F1:2538:C:C6	2.40	0.56
1:F1:471:A:H2'	1:F1:472:C:O5'	2.05	0.56
1:F1:489:A:H2'	1:F1:490:A:C8	2.41	0.56
1:F1:644:A:H2'	1:F1:645:A:C5'	2.35	0.56
5:FE:4:GLY:N	5:FE:5:PRO:HD2	2.20	0.56
14:FO:75:THR:HG21	14:FO:77:GLU:CG	2.35	0.56
15:FP:15:TRP:O	15:FP:72:TYR:CZ	2.58	0.56
16:FQ:13:PHE:CD1	16:FQ:14:ILE:N	2.73	0.56
24:EC:380:PHE:CE1	19:FX:78:ILE:CD1	2.89	0.56
25:GD:124:GLY:HA3	1:H1:2663:A:C4	2.40	0.56
28:GG:48:UNK:HG1	28:GG:52:UNK:CB	2.35	0.56
29:GH:119:PHE:CE2	1:H1:2635:C:H4'	2.40	0.56
40:GS:125:LEU:HD21	1:H1:186:U:O3'	2.05	0.56
1:H1:1147:A:H2'	1:H1:1148:U:H6	1.70	0.56
28:GG:32:UNK:O	1:H1:1257:G:O3'	2.24	0.56
1:H1:1393:A:C2	1:H1:1394:G:C4	2.93	0.56
1:H1:1415:C:O2	1:H1:1415:C:H2'	2.03	0.56
1:H1:1598:C:C4	1:H1:1599:G:C4	2.93	0.56
1:H1:219:A:C2	1:H1:1416:U:C2'	2.84	0.56
1:H1:213:A:N6	1:H1:227:G:O2'	2.27	0.56
1:H1:2429:U:H4'	1:H1:2430:G:O5'	2.06	0.56
1:H1:3103:A:H3'	1:H1:3104:G:C8	2.41	0.56
1:H1:3191:G:H1'	1:H1:3219:A:H62	1.67	0.56
1:H1:919:A:C1'	1:H1:920:A:C2	2.88	0.56
18:HU:77:GLU:OE2	18:HU:110:ASN:ND2	2.38	0.56
18:HU:23:PHE:O	18:HU:26:GLN:HB3	2.05	0.56
1:A1:1027:G:H8	1:A1:1068:U:OP2	1.87	0.56
1:A1:1407:A:H5''	24:BC:198:GLN:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1610:C:H5'	20:B2:110:A:H4'	1.87	0.56
1:A1:1839:A:O2'	1:A1:1840:U:C5	2.58	0.56
1:A1:1922:G:O2'	1:A1:1923:G:H5'	2.05	0.56
1:A1:2391:G:H4'	1:A1:2392:A:OP2	2.05	0.56
1:A1:405:A:O2'	1:A1:406:A:H5'	2.05	0.56
1:A1:633:C:C2'	1:A1:634:G:OP1	2.52	0.56
1:A1:80:C:P	33:BL:201:ARG:HH21	2.27	0.56
5:AE:135:THR:HB	5:AE:137:GLU:HG2	1.86	0.56
5:AE:18:TRP:HB3	14:AO:95:ARG:NH2	2.21	0.56
6:AF:111:VAL:O	6:AF:115:LYS:HG3	2.05	0.56
7:AG:62:LEU:HD11	13:AN:84:ARG:CB	2.35	0.56
16:AQ:29:GLN:C	16:AQ:31:LYS:HD3	2.25	0.56
20:B2:145:C:H2'	20:B2:146:A:C8	2.40	0.56
21:B3:20:U:O2'	21:B3:21:G:H5'	2.06	0.56
22:BA:203:VAL:CG1	22:BA:218:GLN:HG2	2.34	0.56
22:BA:71:LYS:HE3	22:BA:73:ASN:CG	2.26	0.56
32:BK:81:TRP:CZ2	32:BK:123:VAL:CG2	2.87	0.56
32:BK:23:GLY:O	32:BK:24:LYS:O	2.23	0.56
32:BK:50:TRP:HD1	35:BN:156:PRO:HD2	1.69	0.56
34:BM:22:ARG:HB3	34:BM:30:TYR:OH	2.05	0.56
34:BM:37:ILE:HD11	37:BP:31:LEU:HD21	1.86	0.56
46:BY:10:ILE:CD1	46:BY:30:GLU:CB	2.84	0.56
20:C2:31:C:H2'	20:C2:32:C:C6	2.40	0.56
23:CB:57:LEU:HD11	23:CB:71:GLU:HB3	1.87	0.56
38:CQ:33:GLU:OE1	38:CQ:62:PHE:CA	2.50	0.56
40:CS:61:LYS:HE2	1:D1:218:G:N1	2.20	0.56
44:CW:14:ASN:HD21	44:CW:17:LYS:HE3	1.70	0.56
1:D1:1045:G:H2'	1:D1:1046:G:H8	1.68	0.56
1:D1:1184:U:H2'	1:D1:1185:A:O4'	2.04	0.56
1:D1:1228:C:O2	1:D1:1228:C:H2'	2.05	0.56
1:D1:1598:C:C4	1:D1:1599:G:C4	2.94	0.56
1:D1:1702:G:H2'	1:D1:1703:A:C8	2.40	0.56
1:D1:2239:A:P	50:D1:4291:HOH:O	2.63	0.56
1:D1:2256:G:O2'	1:D1:2257:A:C4'	2.54	0.56
1:D1:2275:A:P	50:D1:4627:HOH:O	2.55	0.56
1:D1:363:G:H8	1:D1:363:G:H5'	1.70	0.56
1:D1:439:A:C2'	1:D1:440:C:O5'	2.53	0.56
1:D1:512:G:N2	1:D1:513:G:C4	2.74	0.56
3:DB:28:ARG:CZ	3:DB:36:ARG:O	2.53	0.56
13:DN:54:THR:CB	13:DN:57:MET:HG3	2.32	0.56
24:EC:338:LYS:O	24:EC:341:LYS:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:EF:152:PRO:HB2	27:EF:154:GLU:OE1	2.05	0.56
33:EL:80:VAL:CG1	33:EL:87:VAL:HG13	2.35	0.56
34:EM:212:TYR:CD2	34:EM:228:PHE:CZ	2.90	0.56
35:EN:155:ALA:O	35:EN:158:GLN:HG3	2.05	0.56
38:EQ:66:THR:CG2	38:EQ:82:GLN:HE22	2.17	0.56
44:EW:43:MET:CE	44:EW:43:MET:HA	2.35	0.56
1:F1:123:C:H2'	1:F1:124:U:C6	2.40	0.56
1:F1:170:A:C4	1:F1:250:U:N3	2.73	0.56
1:F1:20:G:H5''	2:FA:43:LYS:HB2	1.87	0.56
1:F1:3097:G:P	10:FK:112:LYS:HZ1	2.27	0.56
1:F1:3161:A:C6	1:F1:3176:A:C2	2.93	0.56
1:F1:488:U:H2'	1:F1:490:A:OP2	2.06	0.56
1:F1:813:C:H2'	1:F1:814:U:C6	2.41	0.56
1:F1:813:C:H2'	1:F1:814:U:H6	1.70	0.56
1:F1:685:G:C4	1:F1:827:C:O4'	2.59	0.56
1:F1:851:G:O2'	1:F1:1614:A:H8	1.86	0.56
2:FA:28:HIS:O	2:FA:32:LEU:N	2.39	0.56
2:FA:21:ARG:NH1	2:FA:39:TYR:HA	2.21	0.56
3:FB:33:THR:HG22	3:FB:35:ILE:N	2.04	0.56
5:FE:85:VAL:O	5:FE:85:VAL:HG12	2.06	0.56
9:FJ:113:TYR:O	9:FJ:135:VAL:HG13	2.04	0.56
9:FJ:199:VAL:HG11	9:FJ:222:PHE:CE1	2.39	0.56
13:FN:113:THR:O	13:FN:117:VAL:HG23	2.05	0.56
15:FP:39:ILE:HG22	15:FP:40:THR:N	2.21	0.56
22:GA:31:ARG:HD3	22:GA:34:ASP:OD2	2.04	0.56
24:GC:152:VAL:HG11	24:GC:155:LEU:HD21	1.88	0.56
29:GH:75:ASN:HD22	29:GH:151:ALA:HA	1.70	0.56
34:GM:76:CYS:C	34:GM:105:LEU:HD11	2.25	0.56
36:GO:24:LEU:CD2	36:GO:50:VAL:HG22	2.35	0.56
36:GO:62:ARG:NH2	1:H1:3057:U:OP2	2.38	0.56
36:GO:86:ASN:OD1	36:GO:90:PRO:HA	2.05	0.56
39:GR:94:VAL:HG21	39:GR:130:ALA:HB2	1.87	0.56
44:GW:75:CYS:O	44:GW:90:THR:HA	2.04	0.56
46:GY:71:LEU:HD12	46:GY:71:LEU:O	2.06	0.56
46:GY:88:LYS:HG3	46:GY:92:GLU:OE2	2.05	0.56
1:H1:2177:A:H2'	1:H1:2178:A:C5'	2.35	0.56
29:GH:7:ARG:NH2	1:H1:2816:G:OP1	2.23	0.56
1:H1:2997:A:O2'	1:H1:2998:G:H5'	2.05	0.56
1:H1:685:G:C4	1:H1:827:C:O4'	2.59	0.56
6:HF:106:PHE:HD2	6:HF:110:ARG:NE	2.01	0.56
9:HJ:224:LEU:O	9:HJ:225:ASN:HB3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:HM:35:PHE:CD1	12:HM:65:ILE:HD12	2.40	0.56
17:HT:41:ARG:O	17:HT:45:ARG:HG3	2.06	0.56
1:H1:165:C:H5''	18:HU:132:LYS:HD2	1.87	0.56
18:HU:44:VAL:HG12	18:HU:44:VAL:O	2.05	0.56
1:A1:925:G:H1'	1:A1:1614:A:N6	2.20	0.56
1:A1:1656:G:C5	1:A1:1657:C:C5	2.94	0.56
1:A1:1696:C:O2'	1:A1:1697:U:H5'	2.04	0.56
1:A1:2289:U:OP2	31:BJ:75:LYS:HE2	2.05	0.56
1:A1:2542:U:C6	1:A1:2542:U:H5''	2.34	0.56
1:A1:2550:U:H5'	1:A1:2551:A:O5'	2.04	0.56
1:A1:2850:U:H2'	1:A1:2850:U:O2	2.03	0.56
1:A1:685:G:H5'	32:BK:8:THR:HG21	1.86	0.56
1:A1:734:A:H5'	32:BK:58:LEU:HD13	1.86	0.56
1:A1:861:A:H62	1:A1:882:G:H1'	1.69	0.56
1:A1:925:G:H1'	1:A1:1614:A:H61	1.69	0.56
1:A1:1519:G:N3	3:AB:13:PHE:CE1	2.73	0.56
20:B2:134:C:HO2'	20:B2:135:A:P	2.25	0.56
22:BA:30:TYR:HB3	22:BA:164:ARG:HH11	1.70	0.56
24:BC:152:VAL:HG11	24:BC:155:LEU:HD21	1.87	0.56
25:BD:82:ARG:HB3	25:BD:112:LEU:CD2	2.33	0.56
27:BF:169:PRO:HA	27:BF:216:ASN:HD21	1.70	0.56
27:BF:143:LEU:HD22	27:BF:211:PHE:CD2	2.41	0.56
29:BH:130:ASP:O	29:BH:133:SER:OG	2.23	0.56
29:BH:47:PRO:HD2	29:BH:141:LYS:HD3	1.87	0.56
32:BK:75:VAL:HG12	32:BK:76:ASN:N	2.20	0.56
35:BN:45:PHE:CE1	35:BN:139:LEU:HD22	2.39	0.56
37:BP:8:ARG:HD2	37:BP:11:THR:HG21	1.87	0.56
43:BV:128:LEU:N	43:BV:129:PRO:HD2	2.19	0.56
20:C2:103:U:H2'	20:C2:104:G:C8	2.41	0.56
20:C2:2:G:O6	1:D1:3132:A:C2'	2.52	0.56
21:C3:102:G:O5'	21:C3:102:G:H8	1.88	0.56
21:C3:30:G:C2'	21:C3:31:G:H5'	2.35	0.56
21:C3:92:C:H2'	21:C3:93:G:C8	2.40	0.56
22:CA:203:VAL:HG12	22:CA:218:GLN:HG2	1.88	0.56
23:CB:301:LYS:HD3	23:CB:359:THR:HG23	1.86	0.56
33:CL:64:VAL:HG21	33:CL:106:VAL:HG23	1.88	0.56
35:CN:88:THR:HA	35:CN:107:THR:OG1	2.04	0.56
38:CQ:107:LYS:HB3	38:CQ:109:LEU:HG	1.86	0.56
39:CR:81:MET:O	39:CR:85:GLU:HG3	2.05	0.56
43:CV:196:ASN:O	43:CV:199:LEU:N	2.35	0.56
45:CX:42:ASN:HD21	45:CX:44:VAL:HB	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CX:44:VAL:HG12	45:CX:54:MET:HE2	1.88	0.56
1:D1:1050:C:C5	1:D1:1051:C:C4	2.94	0.56
1:D1:1587:A:H4'	1:D1:1588:A:OP2	2.03	0.56
1:D1:1736:G:C2	1:D1:1737:A:C2	2.92	0.56
1:D1:2344:U:H6	1:D1:2344:U:C5'	2.17	0.56
1:D1:2638:G:H4'	1:D1:2685:A:O4'	2.05	0.56
1:D1:280:G:H2'	1:D1:281:G:O5'	2.05	0.56
1:D1:3072:G:H2'	1:D1:3073:U:C6	2.39	0.56
1:D1:3158:G:H5'	1:D1:3159:A:OP1	2.06	0.56
1:D1:3185:G:N3	1:D1:3237:C:N3	2.52	0.56
1:D1:3298:U:OP2	1:D1:3298:U:H6	1.89	0.56
41:CT:57:ARG:NH1	1:D1:3321:U:OP1	2.38	0.56
1:D1:895:A:O2'	1:D1:896:U:OP2	2.20	0.56
5:DE:51:LEU:HB3	5:DE:95:THR:HG21	1.88	0.56
14:DO:75:THR:CG2	14:DO:77:GLU:HG2	2.35	0.56
1:D1:2216:G:O6	16:DQ:75:LYS:NZ	2.37	0.56
22:EA:20:HIS:CD2	22:EA:193:LYS:O	2.58	0.56
22:EA:239:ARG:HH11	1:F1:2158:C:C5'	2.01	0.56
23:EB:30:ARG:NH2	1:F1:3127:U:C6	2.73	0.56
24:EC:98:GLY:HA2	24:EC:105:ARG:HH12	1.69	0.56
25:ED:37:LEU:HD13	25:ED:69:VAL:CG2	2.35	0.56
29:EH:208:ARG:HG3	29:EH:209:LEU:N	2.21	0.56
35:EN:82:VAL:O	35:EN:139:LEU:HD12	2.05	0.56
36:EO:86:ASN:OD1	36:EO:90:PRO:HA	2.05	0.56
42:EU:60:THR:O	42:EU:64:GLU:HG3	2.06	0.56
46:EY:25:VAL:O	46:EY:28:LYS:HB3	2.06	0.56
30:EI:48:ARG:NH2	1:F1:1220:A:OP2	2.38	0.56
1:F1:1507:A:C4'	1:F1:1507:A:OP2	2.53	0.56
1:F1:1696:C:O2'	1:F1:1697:U:H5'	2.05	0.56
1:F1:1752:G:H8	1:F1:1752:G:O5'	1.88	0.56
1:F1:2127:A:H2'	1:F1:2128:C:H5'	1.88	0.56
1:F1:2384:C:O2'	1:F1:2385:A:H5'	2.04	0.56
1:F1:3140:C:H4'	1:F1:3254:A:O4'	2.05	0.56
1:F1:3143:A:H8	1:F1:3143:A:OP2	1.89	0.56
1:F1:75:A:C8	18:FU:71:ARG:NH1	2.68	0.56
1:F1:970:C:H2'	1:F1:971:C:C6	2.38	0.56
1:F1:1519:G:N3	3:FB:13:PHE:CE1	2.74	0.56
5:FE:15:ILE:HA	5:FE:18:TRP:CE2	2.41	0.56
9:FJ:201:ASP:O	9:FJ:224:LEU:HD21	2.05	0.56
13:FN:38:PHE:CE2	13:FN:76:ASN:HB2	2.41	0.56
1:F1:297:U:O4	16:FQ:33:LYS:HE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:FX:45:ALA:HB1	19:FX:50:HIS:CD2	2.41	0.56
19:FX:82:SER:O	19:FX:87:LYS:NZ	2.32	0.56
22:GA:33:TYR:N	22:GA:164:ARG:NH2	2.50	0.56
23:GB:86:ILE:HG12	23:GB:158:VAL:HG11	1.87	0.56
23:GB:360:SER:O	23:GB:362:LYS:HE2	2.05	0.56
24:GC:311:ALA:H	35:GN:40:ARG:HH22	1.53	0.56
27:GF:65:LYS:HE2	27:GF:225:TRP:CE3	2.41	0.56
33:GL:201:ARG:HH21	1:H1:80:C:P	2.28	0.56
34:GM:122:GLN:HB2	34:GM:130:PHE:CE2	2.40	0.56
34:GM:210:ASP:HA	34:GM:213:MET:CG	2.35	0.56
20:G2:81:G:H4'	42:GU:42:ALA:CB	2.35	0.56
42:GU:76:GLY:HA2	1:H1:133:C:O2'	2.06	0.56
1:H1:1207:A:O2'	1:H1:1208:U:P	2.62	0.56
1:H1:1190:U:H3	1:H1:1363:A:H61	1.54	0.56
39:GR:43:LEU:CD1	1:H1:1599:G:H5''	2.35	0.56
1:H1:1653:A:C5	1:H1:1839:A:N1	2.73	0.56
1:H1:2242:G:HO2'	1:H1:2265:A:H61	1.46	0.56
1:H1:2558:U:C4	1:H1:2559:U:C4	2.94	0.56
1:H1:3228:U:H5''	1:H1:3229:C:H5''	1.88	0.56
1:H1:373:A:N3	1:H1:375:G:H5''	2.20	0.56
35:GN:56:SER:HB3	1:H1:695:U:OP1	2.05	0.56
1:H1:95:U:O2'	50:H1:3610:HOH:O	2.17	0.56
1:H1:3226:A:N1	5:HE:83:ASN:O	2.39	0.56
9:HJ:17:CYS:HB2	9:HJ:25:LEU:O	2.05	0.56
12:HM:59:SER:OG	12:HM:66:ASN:HB3	2.05	0.56
1:A1:1394:G:O5'	1:A1:1394:G:H8	1.88	0.56
1:A1:20:G:H5''	2:AA:43:LYS:HB2	1.87	0.56
1:A1:2300:G:H8	1:A1:2300:G:O5'	1.89	0.56
1:A1:2993:C:O2'	1:A1:2994:G:H5'	2.05	0.56
1:A1:363:G:C8	1:A1:363:G:C5'	2.86	0.56
1:A1:682:G:N7	50:A1:3843:HOH:O	2.37	0.56
1:A1:70:C:C6	1:A1:72:A:H1'	2.41	0.56
1:A1:72:A:O3'	18:AU:56:VAL:HG11	2.06	0.56
1:A1:75:A:C8	18:AU:71:ARG:NH1	2.65	0.56
1:A1:940:A:N3	1:A1:940:A:H2'	2.20	0.56
1:A1:967:U:O4	32:BK:24:LYS:CE	2.53	0.56
6:AF:125:SER:O	6:AF:126:LYS:HB2	2.05	0.56
8:AH:34:GLN:HB3	8:AH:88:VAL:HG13	1.88	0.56
9:AJ:113:TYR:O	9:AJ:135:VAL:HG13	2.06	0.56
9:AJ:12:ASP:O	9:AJ:14:GLY:N	2.38	0.56
9:AJ:17:CYS:HB2	9:AJ:25:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:84:HIS:O	16:AQ:87:ALA:HB3	2.05	0.56
18:AU:15:HIS:CE1	50:AU:301:HOH:O	2.58	0.56
19:AX:16:MET:HE1	19:AX:121:ILE:HD12	1.88	0.56
23:BB:56:ILE:HD12	23:BB:76:VAL:HG21	1.88	0.56
24:BC:139:VAL:N	24:BC:140:PRO:HD2	2.20	0.56
24:BC:98:GLY:HA2	24:BC:105:ARG:HH12	1.70	0.56
1:A1:1066:A:O2'	29:BH:198:LYS:HD3	2.04	0.56
29:BH:36:SER:OG	29:BH:87:LEU:HB3	2.05	0.56
33:BL:28:TRP:HA	33:BL:31:ARG:NH1	2.20	0.56
34:BM:175:HIS:HD2	34:BM:180:PHE:HE2	1.51	0.56
37:BP:17:LYS:HE3	37:BP:47:SER:HB3	1.88	0.56
38:BQ:66:THR:O	38:BQ:66:THR:HG22	2.04	0.56
44:BW:43:MET:CE	44:BW:43:MET:HA	2.35	0.56
45:BX:3:ILE:O	45:BX:5:PRO:HD2	2.05	0.56
25:CD:162:TRP:CZ3	25:CD:167:PHE:HE2	2.23	0.56
29:CH:20:SER:H	29:CH:23:ASN:HB2	1.71	0.56
31:CJ:97:ILE:HG22	31:CJ:98:TYR:N	2.21	0.56
33:CL:37:HIS:CE1	33:CL:63:ARG:HB2	2.40	0.56
44:CW:45:THR:HG21	44:CW:89:TYR:HA	1.88	0.56
1:D1:1411:U:C2	1:D1:1412:U:C5	2.93	0.56
1:D1:1653:A:C5	1:D1:1839:A:N1	2.74	0.56
1:D1:2239:A:O2'	1:D1:2240:C:H5'	2.06	0.56
1:D1:511:U:O2'	1:D1:512:G:H5'	2.05	0.56
1:D1:549:G:C6	1:D1:619:G:N2	2.73	0.56
6:DF:12:VAL:HG11	6:DF:81:LEU:HD11	1.85	0.56
1:D1:3185:G:N7	8:DH:11:PRO:HD3	2.21	0.56
9:DJ:43:VAL:HG12	9:DJ:44:PRO:HD3	1.88	0.56
12:DM:59:SER:OG	12:DM:66:ASN:HB3	2.04	0.56
20:E2:35:U:O2	20:E2:37:A:N6	2.39	0.56
20:E2:60:C:C4	2:FA:64:ARG:NH1	2.74	0.56
22:EA:33:TYR:HA	22:EA:164:ARG:HH21	1.70	0.56
27:EF:170:PHE:O	27:EF:215:TYR:CD2	2.58	0.56
32:EK:23:GLY:O	32:EK:24:LYS:O	2.23	0.56
34:EM:155:THR:OG1	34:EM:179:ARG:HD3	2.05	0.56
37:EP:13:LYS:NZ	1:F1:1021:U:OP1	2.21	0.56
1:F1:1053:A:C8	1:F1:1054:G:C5	2.93	0.56
1:F1:1180:A:H5'	1:F1:1181:A:OP2	2.05	0.56
1:F1:2429:U:H1'	1:F1:2430:G:OP1	2.05	0.56
1:F1:2876:U:O4	1:F1:2898:A:H2'	2.05	0.56
1:F1:47:G:C1'	1:F1:48:U:OP2	2.49	0.56
1:F1:444:A:H2	1:F1:533:G:N2	2.01	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FA:21:ARG:HD3	2:FA:44:MET:HE1	1.87	0.56
1:F1:3155:A:C5	8:FH:102:SER:HB3	2.40	0.56
9:FJ:43:VAL:HG12	9:FJ:44:PRO:HD3	1.88	0.56
1:F1:1828:C:H1'	11:FL:61:PRO:O	2.06	0.56
33:EL:10:LEU:HD23	16:FQ:45:ILE:HG23	1.87	0.56
20:G2:61:G:H2'	20:G2:100:C:O2'	2.05	0.56
21:G3:45:U:H4'	34:GM:154:THR:OG1	2.05	0.56
24:GC:159:PHE:HZ	24:GC:179:VAL:CG1	2.19	0.56
24:GC:283:TYR:HE1	24:GC:285:LEU:HA	1.70	0.56
27:GF:36:GLN:NE2	27:GF:39:ARG:NH2	2.54	0.56
29:GH:166:VAL:HG12	29:GH:167:THR:N	2.21	0.56
31:GJ:19:LEU:HB3	31:GJ:55:SER:HB3	1.87	0.56
35:GN:88:THR:HB	1:H1:701:A:OP2	2.05	0.56
37:GP:19:TYR:CD2	1:H1:1077:U:H4'	2.40	0.56
37:GP:63:LYS:N	37:GP:63:LYS:HD2	2.21	0.56
43:GV:82:PHE:O	43:GV:133:PHE:HA	2.06	0.56
44:GW:14:ASN:HD21	44:GW:69:ARG:CZ	2.18	0.56
46:GY:12:ARG:HG2	1:H1:861:A:C4'	2.36	0.56
1:H1:1870:C:O2	1:H1:1870:C:H2'	2.04	0.56
1:H1:2390:G:N7	50:H1:3859:HOH:O	2.33	0.56
1:H1:23:U:O2'	1:H1:24:A:H5''	2.05	0.56
1:H1:2548:G:H4'	1:H1:2549:U:OP2	2.06	0.56
1:H1:3044:A:C5'	1:H1:3045:A:OP2	2.53	0.56
1:H1:3228:U:O2	5:HE:142:GLU:HG3	2.05	0.56
1:H1:47:G:C1'	1:H1:48:U:OP2	2.54	0.56
1:H1:567:C:N4	1:H1:603:A:N1	2.53	0.56
1:H1:685:G:O2'	1:H1:686:U:H6	1.89	0.56
46:GY:4:ARG:HD2	1:H1:862:A:OP2	2.06	0.56
1:H1:96:G:OP1	18:HU:14:LYS:NZ	2.38	0.56
6:HF:13:VAL:HG22	6:HF:55:LEU:HD23	1.87	0.56
8:HH:73:ILE:HG22	8:HH:91:PHE:HD2	1.71	0.56
19:HX:124:MET:HE3	19:HX:124:MET:HA	1.87	0.56
1:A1:1972:G:C2	1:A1:1973:A:N7	2.73	0.56
1:A1:2347:A:N6	1:A1:2348:G:C6	2.73	0.56
1:A1:3005:A:O2'	1:A1:3006:A:H5'	2.06	0.56
1:A1:3135:A:H2'	1:A1:3136:A:H8	1.70	0.56
1:A1:3228:U:H5''	1:A1:3229:C:H5''	1.87	0.56
1:A1:685:G:OP2	32:BK:12:ARG:NH2	2.29	0.56
2:AA:21:ARG:NH1	2:AA:44:MET:HE1	2.20	0.56
5:AE:63:VAL:HG12	5:AE:64:VAL:N	2.19	0.56
9:AJ:186:ILE:HD11	9:AJ:206:CYS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BD:37:LEU:CD1	25:BD:67:VAL:HG12	2.34	0.56
26:BE:130:VAL:HG22	26:BE:152:VAL:HG22	1.87	0.56
1:A1:148:G:O6	27:BF:130:ASN:HB2	2.06	0.56
29:BH:182:SER:O	29:BH:185:ARG:HB2	2.05	0.56
31:BJ:27:MET:HB2	31:BJ:102:ASN:O	2.05	0.56
31:BJ:86:ARG:NH2	50:BJ:301:HOH:O	2.38	0.56
33:BL:164:LEU:HD23	33:BL:172:ARG:HH22	1.70	0.56
34:BM:90:THR:O	34:BM:231:TRP:HZ3	1.88	0.56
35:BN:49:ILE:O	35:BN:53:LEU:HG	2.05	0.56
38:BQ:117:GLN:HA	38:BQ:117:GLN:OE1	2.05	0.56
38:BQ:72:THR:HG21	38:BQ:74:GLN:HG3	1.86	0.56
21:C3:64:A:O2'	29:CH:205:PRO:CG	2.53	0.56
27:CF:153:ILE:HG22	27:CF:157:ILE:HG13	1.87	0.56
27:CF:72:GLN:NE2	27:CF:160:PRO:HG2	2.20	0.56
29:CH:130:ASP:O	29:CH:133:SER:OG	2.24	0.56
30:CI:64:ASN:HD22	30:CI:64:ASN:C	2.06	0.56
21:C3:13:A:O2'	34:CM:24:ARG:CZ	2.54	0.56
47:CO:98:ARG:NH1	47:CO:130:ASN:OD1	2.38	0.56
47:CO:161:UNK:C	47:CO:164:UNK:HG3	2.34	0.56
38:CQ:59:CYS:HB3	38:CQ:74:GLN:HB2	1.88	0.56
39:CR:72:LYS:HE3	39:CR:95:HIS:HA	1.87	0.56
40:CS:55:VAL:HG12	40:CS:56:LEU:N	2.21	0.56
1:D1:1148:U:H2'	1:D1:1149:U:H6	1.71	0.56
27:CF:189:THR:OG1	1:D1:147:U:OP2	2.18	0.56
1:D1:1802:U:H2'	1:D1:1803:U:C6	2.41	0.56
1:D1:1921:G:O2'	1:D1:1922:G:H5'	2.05	0.56
1:D1:2305:U:O2'	1:D1:2306:G:H5'	2.06	0.56
1:D1:2324:A:C8	1:D1:2324:A:H5''	2.40	0.56
30:CI:67:ARG:NH2	1:D1:418:G:H21	2.01	0.56
1:D1:513:G:H2'	1:D1:514:U:C6	2.41	0.56
1:D1:444:A:H2	1:D1:533:G:N2	1.99	0.56
1:D1:566:U:C3'	1:D1:567:C:H5'	2.36	0.56
1:D1:631:G:N7	5:DE:31:ARG:NH2	2.53	0.56
1:D1:64:A:N6	1:D1:66:C:O2	2.39	0.56
24:CC:99:ASN:HD21	1:D1:828:C:H4'	1.70	0.56
1:D1:861:A:H1'	1:D1:883:A:C2	2.41	0.56
32:CK:24:LYS:CE	1:D1:967:U:O4	2.54	0.56
9:DJ:66:ASN:H	9:DJ:133:LEU:HD22	1.70	0.56
20:E2:62:A:OP1	20:E2:99:U:O2'	2.18	0.56
21:E3:81:A:H2'	21:E3:82:G:H5'	1.87	0.56
24:EC:81:ILE:HD13	24:EC:101:CYS:SG	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:38:LYS:HB2	33:EL:62:TRP:CZ2	2.41	0.56
34:EM:56:THR:HG22	34:EM:58:THR:N	2.18	0.56
43:EV:207:PRO:HB2	43:EV:209:GLY:O	2.06	0.56
43:EV:67:ARG:NH1	1:F1:564:A:O5'	2.38	0.56
44:EW:11:THR:OG1	44:EW:105:THR:HG23	2.06	0.56
1:F1:2292:U:H2'	1:F1:2294:A:N7	2.21	0.56
1:F1:2850:U:O2	1:F1:2850:U:H2'	2.06	0.56
1:F1:292:C:H5'	1:F1:292:C:H6	1.70	0.56
1:F1:784:G:H1'	1:F1:796:A:H61	1.69	0.56
32:EK:24:LYS:HD3	1:F1:967:U:O4	2.05	0.56
6:FF:67:GLN:HE21	6:FF:71:LEU:CB	2.19	0.56
13:FN:13:LEU:CD2	13:FN:75:VAL:HG21	2.35	0.56
15:FP:53:PHE:HE1	15:FP:55:THR:CG2	2.19	0.56
17:FT:17:HIS:CE1	17:FT:21:ILE:HD11	2.41	0.56
17:FT:50:ASP:OD1	17:FT:51:PRO:HD2	2.06	0.56
26:GE:45:ILE:HG12	26:GE:55:LEU:HD22	1.87	0.56
29:GH:66:GLU:OE1	29:GH:66:GLU:HA	2.06	0.56
37:GP:110:GLN:HG2	1:H1:1093:C:O2'	2.06	0.56
1:H1:978:G:N7	1:H1:1144:G:C8	2.74	0.56
1:H1:1524:A:H2'	1:H1:1525:U:C6	2.41	0.56
36:GO:42:ARG:HH22	1:H1:1626:U:P	2.28	0.56
1:H1:296:G:H3'	16:HQ:34:LEU:HD21	1.86	0.56
1:H1:3256:A:C2	1:H1:3349:U:C2	2.93	0.56
1:H1:358:C:C4'	1:H1:842:A:N6	2.67	0.56
32:GK:98:LYS:HA	18:HU:166:VAL:HB	1.86	0.56
1:A1:153:C:O2'	1:A1:154:U:H5'	2.05	0.56
1:A1:1598:C:C4	1:A1:1599:G:C4	2.94	0.56
1:A1:1906:G:H5''	44:BW:33:ARG:HH22	1.70	0.56
1:A1:1922:G:C2'	1:A1:1923:G:O5'	2.53	0.56
1:A1:2305:U:O2'	1:A1:2306:G:H5'	2.06	0.56
1:A1:2353:C:C4	50:A1:4346:HOH:O	2.58	0.56
1:A1:114:A:C6	1:A1:264:A:C6	2.94	0.56
1:A1:2672:U:H2'	1:A1:2673:C:C6	2.40	0.56
1:A1:564:A:HO2'	24:BC:376:TRP:HB3	1.69	0.56
1:A1:635:A:C2'	1:A1:636:U:O5'	2.54	0.56
8:AH:15:TRP:CH2	8:AH:105:ARG:CZ	2.88	0.56
9:AJ:39:GLU:HA	9:AJ:43:VAL:HG23	1.87	0.56
21:B3:105:C:H5'	21:B3:105:C:C6	2.36	0.56
22:BA:99:VAL:HA	22:BA:167:VAL:HG12	1.86	0.56
27:BF:153:ILE:HG22	27:BF:157:ILE:HG13	1.88	0.56
27:BF:170:PHE:O	27:BF:215:TYR:CD2	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AU:1:MET:HE1	32:BK:36:LYS:HA	1.86	0.56
33:BL:53:TYR:O	33:BL:54:LYS:HG2	2.06	0.56
35:BN:89:ASN:HD22	35:BN:109:THR:HG21	1.71	0.56
39:BR:74:PRO:CB	39:BR:149:LEU:HD11	2.36	0.56
40:BS:107:LYS:O	40:BS:107:LYS:HG3	2.05	0.56
20:B2:98:A:OP1	42:BU:67:ARG:NH1	2.38	0.56
22:CA:243:ARG:HG3	22:CA:244:THR:N	2.21	0.56
22:CA:31:ARG:NH1	22:CA:42:ILE:HG13	2.21	0.56
23:CB:30:ARG:NH2	1:D1:3127:U:C6	2.74	0.56
24:CC:89:THR:OG1	1:D1:354:A:N1	2.38	0.56
29:CH:130:ASP:OD1	29:CH:131:ILE:N	2.39	0.56
29:CH:66:GLU:OE1	29:CH:66:GLU:HA	2.05	0.56
30:CI:184:PRO:HA	30:CI:187:LYS:CD	2.36	0.56
29:CH:212:PHE:CE1	34:CM:298:ALA:HB2	2.41	0.56
41:CT:5:THR:HG21	41:CT:14:ARG:HE	1.69	0.56
1:D1:1053:A:C8	1:D1:1054:G:C5	2.94	0.56
28:CG:80:UNK:CA	1:D1:1309:G:O2'	2.53	0.56
1:D1:1397:G:C8	50:D1:4323:HOH:O	2.58	0.56
37:CP:60:ARG:NH2	1:D1:2627:C:O2	2.38	0.56
1:D1:2876:U:O4	1:D1:2898:A:H2'	2.06	0.56
1:D1:2966:U:O2'	1:D1:2967:U:H5'	2.05	0.56
1:D1:3087:G:H5''	1:D1:3088:U:OP1	2.05	0.56
1:D1:3126:C:H2'	1:D1:3127:U:C6	2.41	0.56
1:D1:3181:G:H2'	1:D1:3182:A:H8	1.70	0.56
1:D1:685:G:O2'	1:D1:686:U:H6	1.87	0.56
1:D1:964:U:P	50:D1:4026:HOH:O	2.62	0.56
2:DA:2:THR:O	2:DA:7:ALA:HB2	2.05	0.56
2:DA:21:ARG:NH1	2:DA:44:MET:CE	2.69	0.56
1:D1:3228:U:N3	5:DE:146:LYS:HG3	2.20	0.56
7:DG:9:ASN:O	7:DG:13:LYS:HB3	2.06	0.56
13:DN:70:PRO:CD	13:DN:115:LYS:HG2	2.35	0.56
20:E2:110:A:C2	20:E2:115:G:C6	2.93	0.56
22:EA:203:VAL:HG12	22:EA:218:GLN:HG2	1.87	0.56
23:EB:86:ILE:HD13	23:EB:158:VAL:HG11	1.86	0.56
23:EB:56:ILE:HD11	23:EB:321:MET:SD	2.46	0.56
23:EB:56:ILE:HD12	23:EB:76:VAL:HG21	1.87	0.56
31:EJ:19:LEU:HB3	31:EJ:55:SER:HB3	1.86	0.56
32:EK:21:ARG:HH12	45:EX:40:ILE:HG22	1.70	0.56
1:F1:1049:U:C4	1:F1:1050:C:C4	2.93	0.56
1:F1:1057:U:C2	1:F1:1058:C:C5	2.94	0.56
1:F1:2343:A:H8	1:F1:2343:A:O5'	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2679:G:H5'	1:F1:2680:A:OP2	2.05	0.56
1:F1:3005:A:O2'	1:F1:3006:A:H5'	2.06	0.56
1:F1:3044:A:C5'	1:F1:3045:A:OP2	2.54	0.56
1:F1:3103:A:H3'	1:F1:3104:G:C8	2.40	0.56
1:F1:3332:A:H3'	1:F1:3333:G:H5''	1.87	0.56
9:FJ:109:VAL:HG23	9:FJ:148:VAL:HG23	1.87	0.56
13:FN:87:VAL:HG11	13:FN:90:LEU:HB2	1.87	0.56
16:FQ:29:GLN:C	16:FQ:31:LYS:HD3	2.25	0.56
37:EP:146:ASN:HB3	19:FX:39:LEU:HD23	1.88	0.56
23:GB:20:ARG:HB2	1:H1:2979:A:P	2.46	0.56
23:GB:337:ARG:HG2	23:GB:338:LYS:O	2.06	0.56
24:GC:294:ASP:OD1	14:HO:1:MET:N	2.39	0.56
21:G3:54:A:C2'	25:GD:152:GLN:HE21	2.18	0.56
32:GK:73:PRO:HB2	32:GK:109:PHE:HA	1.87	0.56
32:GK:88:THR:HG23	18:HU:164:LYS:HZ1	1.62	0.56
33:GL:110:VAL:CG1	33:GL:113:LEU:HG	2.36	0.56
33:GL:182:LYS:HE2	1:H1:281:G:O6	2.04	0.56
34:GM:56:THR:HG22	34:GM:57:ASN:N	2.20	0.56
44:GW:54:LEU:HD22	44:GW:92:VAL:CG1	2.36	0.56
35:GN:6:HIS:ND1	1:H1:1131:G:N3	2.54	0.56
1:H1:1180:A:H5'	1:H1:1181:A:OP2	2.06	0.56
1:H1:1370:A:H2'	1:H1:1371:G:C5'	2.25	0.56
1:H1:1919:A:O2'	1:H1:1920:A:C8	2.58	0.56
1:H1:2268:G:O2'	1:H1:2269:U:OP2	2.23	0.56
1:H1:2679:G:H5'	1:H1:2680:A:OP2	2.06	0.56
1:H1:3266:G:C2'	1:H1:3267:A:H5''	2.35	0.56
1:H1:333:G:H5'	1:H1:333:G:H8	1.71	0.56
1:H1:363:G:C8	1:H1:363:G:C5'	2.84	0.56
1:H1:475:C:H2'	1:H1:476:A:O4'	2.05	0.56
1:H1:49:A:H2'	1:H1:50:A:C8	2.41	0.56
1:H1:820:G:O2'	1:H1:821:U:H5''	2.06	0.56
5:HE:115:ASP:OD1	5:HE:115:ASP:N	2.39	0.56
1:A1:1061:G:N3	1:A1:1062:A:C8	2.74	0.56
1:A1:1548:U:H4'	1:A1:1549:U:OP2	2.05	0.56
1:A1:2393:A:OP2	50:A1:4267:HOH:O	2.17	0.56
1:A1:2558:U:C4	1:A1:2559:U:C4	2.94	0.56
1:A1:2703:G:HO2'	1:A1:2740:G:H2'	1.67	0.56
1:A1:298:G:C2'	1:A1:299:G:H5'	2.36	0.56
1:A1:282:G:N2	1:A1:304:U:C4'	2.62	0.56
1:A1:3265:A:H5'	23:BB:270:TYR:HD2	1.70	0.56
1:A1:433:C:H2'	1:A1:433:C:O2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:47:G:O6	50:A1:3732:HOH:O	2.15	0.56
1:A1:48:U:H2'	1:A1:48:U:O2	2.05	0.56
1:A1:712:G:H4'	24:BC:240:ARG:CZ	2.36	0.56
2:AA:67:TYR:CE2	2:AA:71:ILE:HD11	2.41	0.56
5:AE:86:PRO:HB2	5:AE:153:GLN:NE2	2.03	0.56
6:AF:67:GLN:NE2	6:AF:75:LYS:HE3	2.21	0.56
8:AH:11:PRO:CG	8:AH:12:THR:H	2.18	0.56
24:BC:163:VAL:O	24:BC:166:TYR:CD2	2.56	0.56
24:BC:159:PHE:HZ	24:BC:179:VAL:CG1	2.19	0.56
27:BF:132:ILE:O	27:BF:136:ILE:HG13	2.06	0.56
32:BK:141:VAL:CG1	32:BK:141:VAL:O	2.54	0.56
36:BO:177:ALA:HA	36:BO:180:VAL:HG22	1.86	0.56
38:BQ:53:VAL:HG21	38:BQ:60:ILE:HG13	1.87	0.56
41:BT:22:ARG:NE	41:BT:32:PHE:CD2	2.72	0.56
41:BT:46:VAL:HG11	41:BT:51:ILE:HD11	1.88	0.56
20:C2:2:G:H4'	20:C2:3:A:OP2	2.05	0.56
22:CA:33:TYR:HA	22:CA:164:ARG:HH21	1.71	0.56
23:CB:2:SER:HB2	1:D1:2931:G:OP2	2.06	0.56
23:CB:377:PHE:HD2	23:CB:378:PHE:CD1	2.23	0.56
24:CC:65:MET:CE	24:CC:105:ARG:HG2	2.35	0.56
27:CF:65:LYS:HE2	27:CF:225:TRP:CE3	2.39	0.56
40:CS:45:ARG:NH2	1:D1:189:G:OP2	2.38	0.56
41:CT:16:TYR:HB3	41:CT:17:PRO:CD	2.36	0.56
41:CT:23:PHE:HE1	41:CT:25:ALA:HB2	1.69	0.56
42:CU:98:LYS:HE3	42:CU:101:ARG:NH1	2.21	0.56
44:CW:75:CYS:O	44:CW:90:THR:HA	2.06	0.56
1:D1:1112:A:H2'	1:D1:1113:A:C8	2.41	0.56
39:CR:79:LYS:NZ	1:D1:1548:U:OP1	2.26	0.56
1:D1:185:A:H2	1:D1:233:G:H22	1.52	0.56
1:D1:2251:A:C1'	46:EY:74:PRO:CG	2.84	0.56
1:D1:2993:C:O2'	1:D1:2994:G:H5'	2.05	0.56
1:D1:3150:U:H2'	1:D1:3151:G:H5''	1.86	0.56
1:D1:475:C:H2'	1:D1:476:A:O4'	2.05	0.56
1:D1:963:C:OP1	1:D1:987:A:O2'	2.24	0.56
9:DJ:198:VAL:HG23	9:DJ:205:PHE:HB2	1.87	0.56
20:E2:7:U:OP1	38:EQ:36:ARG:NH1	2.37	0.56
23:EB:303:ILE:HG12	23:EB:319:PHE:CZ	2.40	0.56
23:EB:280:VAL:HG13	23:EB:320:ILE:HG23	1.88	0.56
23:EB:52:GLY:HA3	23:EB:309:PHE:CD1	2.41	0.56
27:EF:65:LYS:HE2	27:EF:225:TRP:CE3	2.40	0.56
47:CO:176:UNK:C	29:EH:83:ASP:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:66:ARG:CZ	31:EJ:15:ALA:HB2	2.35	0.56
36:EO:38:ARG:O	36:EO:41:ILE:HB	2.06	0.56
44:EW:45:THR:HG21	44:EW:89:TYR:HA	1.88	0.56
1:F1:1090:A:OP1	1:F1:1091:G:H3'	2.06	0.56
1:F1:114:A:C4'	16:FQ:37:ARG:NH2	2.65	0.56
1:F1:1192:A:O2'	1:F1:1193:G:H5'	2.06	0.56
1:F1:1395:U:O2'	1:F1:1396:A:H5'	2.06	0.56
1:F1:1724:U:O2'	1:F1:1725:A:H5'	2.05	0.56
1:F1:1845:U:C4'	1:F1:1846:C:OP2	2.54	0.56
1:F1:2277:U:C2'	1:F1:2278:G:OP1	2.53	0.56
1:F1:2649:G:OP1	1:F1:2739:C:O2'	2.23	0.56
1:F1:282:G:N2	1:F1:304:U:H5'	2.19	0.56
1:F1:2397:A:H1'	1:F1:2859:G:O4'	2.06	0.56
1:F1:3226:A:H5''	5:FE:80:TYR:OH	2.05	0.56
1:F1:633:C:C2'	1:F1:634:G:OP1	2.53	0.56
35:EN:57:ARG:NH1	1:F1:697:A:H5'	2.21	0.56
1:F1:792:G:H5'	18:FU:190:TRP:CE2	2.40	0.56
1:F1:986:C:H4'	1:F1:987:A:OP2	2.05	0.56
1:F1:1869:G:O2'	2:FA:5:THR:HG22	2.05	0.56
5:FE:135:THR:HB	5:FE:137:GLU:HG2	1.87	0.56
8:FH:44:THR:HB	8:FH:46:GLU:OE1	2.06	0.56
9:FJ:186:ILE:CD1	9:FJ:197:LEU:HB2	2.36	0.56
1:F1:1234:G:P	10:FK:119:ASN:HD21	2.28	0.56
1:F1:1381:G:H5'	14:FO:37:GLN:HG3	1.87	0.56
1:F1:2632:A:H5'	17:FT:6:ASN:OD1	2.05	0.56
1:F1:787:U:C2'	18:FU:179:ARG:HH22	2.18	0.56
18:FU:23:PHE:O	18:FU:26:GLN:HB3	2.06	0.56
19:FX:187:THR:HG22	19:FX:188:THR:N	2.19	0.56
22:GA:104:PRO:HB2	22:GA:106:ASN:OD1	2.06	0.56
22:BA:252:LYS:HG3	22:GA:253:GLU:OE2	2.06	0.56
22:GA:35:PHE:CZ	22:GA:39:GLN:OE1	2.59	0.56
22:GA:5:ILE:HG22	22:GA:6:ARG:N	2.20	0.56
23:GB:114:THR:HG23	23:GB:115:LYS:N	2.20	0.56
23:GB:86:ILE:CD1	23:GB:158:VAL:HG11	2.36	0.56
26:GE:135:LYS:H	26:GE:138:GLU:HG3	1.71	0.56
27:GF:146:ILE:CG2	27:GF:156:VAL:HG11	2.36	0.56
35:GN:92:ARG:NH2	1:H1:810:G:C8	2.74	0.56
39:GR:43:LEU:HD11	1:H1:1599:G:H5''	1.88	0.56
40:GS:34:LEU:HD23	40:GS:105:LEU:HB2	1.86	0.56
44:GW:65:ASN:OD1	1:H1:3047:U:C5	2.47	0.56
45:GX:36:ARG:HG3	45:GX:36:ARG:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1126:A:C5	1:H1:1127:U:C5	2.94	0.56
1:H1:1464:U:H2'	1:H1:1465:U:H6	1.69	0.56
1:H1:1543:A:H2'	1:H1:1544:U:C6	2.41	0.56
1:H1:2271:G:C5	1:H1:2272:C:C5	2.93	0.56
22:GA:35:PHE:CE1	1:H1:2520:G:C2'	2.89	0.56
1:H1:673:A:OP2	1:H1:2856:U:O2'	2.20	0.56
1:H1:3161:A:C6	1:H1:3176:A:C2	2.93	0.56
1:H1:1720:A:H4'	11:HL:23:VAL:HG11	1.88	0.56
13:HN:72:ILE:HG13	13:HN:72:ILE:O	2.06	0.56
35:GN:168:ARG:HH11	18:HU:9:VAL:HG21	1.70	0.56
1:A1:1066:A:C8	1:A1:1066:A:OP2	2.59	0.56
1:A1:1737:A:H2'	1:A1:1754:G:N2	2.20	0.56
1:A1:1921:G:H2'	1:A1:1922:G:H5'	1.86	0.56
1:A1:2140:A:C5	1:A1:2276:A:C2	2.94	0.56
1:A1:2638:G:H4'	1:A1:2685:A:O4'	2.06	0.56
1:A1:3011:G:H1'	1:A1:3012:U:OP2	2.05	0.56
1:A1:3150:U:H2'	1:A1:3151:G:H5''	1.88	0.56
1:A1:673:A:OP2	1:A1:2856:U:O2'	2.23	0.56
1:A1:685:G:O2'	1:A1:686:U:H6	1.87	0.56
5:AE:63:VAL:HG12	5:AE:76:VAL:HG13	1.86	0.56
8:AH:9:VAL:CG1	8:AH:10:ALA:N	2.69	0.56
18:AU:173:ARG:HH21	32:BK:142:GLY:C	2.09	0.56
22:BA:104:PRO:HG2	22:BA:107:ARG:HG3	1.87	0.56
22:BA:50:VAL:HG12	22:BA:51:HIS:H	1.70	0.56
27:BF:183:VAL:HG12	27:BF:185:LYS:HE3	1.88	0.56
1:A1:2518:A:H5'	27:BF:46:ARG:NE	2.21	0.56
30:BI:26:LEU:HD11	30:BI:101:LEU:HB2	1.87	0.56
30:BI:109:THR:HG22	30:BI:110:PRO:HD3	1.87	0.56
32:BK:76:ASN:H	32:BK:79:LYS:HE2	1.71	0.56
36:BO:149:LYS:HD3	36:BO:151:LYS:HE2	1.88	0.56
39:BR:108:GLU:HG2	39:BR:113:VAL:O	2.05	0.56
44:BW:11:THR:OG1	44:BW:105:THR:HG23	2.06	0.56
45:BX:44:VAL:HG12	45:BX:54:MET:CE	2.36	0.56
20:C2:1:A:C5'	20:C2:2:G:OP1	2.53	0.56
20:C2:61:G:H2'	20:C2:100:C:O2'	2.06	0.56
21:C3:20:U:O2'	21:C3:21:G:H5'	2.05	0.56
26:CE:18:ILE:HG12	26:CE:27:VAL:HG22	1.88	0.56
27:CF:68:PRO:CD	27:CF:225:TRP:HE1	2.17	0.56
29:CH:75:ASN:HD22	29:CH:151:ALA:HA	1.69	0.56
32:CK:46:LEU:HD12	18:DU:1:MET:HG2	1.88	0.56
33:CL:160:GLU:HG2	33:CL:161:LEU:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:206:GLY:HA2	34:CM:208:HIS:CE1	2.41	0.56
37:CP:15:PHE:CE2	37:CP:52:MET:HE1	2.41	0.56
37:CP:66:ASN:OD1	37:CP:67:VAL:N	2.38	0.56
38:CQ:117:GLN:OE1	38:CQ:117:GLN:HA	2.04	0.56
39:CR:89:THR:HG23	39:CR:132:ILE:O	2.06	0.56
42:CU:32:LEU:HD21	42:CU:47:ARG:HD3	1.88	0.56
30:CI:62:ASN:ND2	1:D1:1332:U:H1'	2.21	0.56
1:D1:2149:U:C2'	1:D1:2150:U:H5''	2.35	0.56
1:D1:2266:A:N7	1:D1:2267:G:C6	2.74	0.56
1:D1:2634:G:C2'	1:D1:2635:C:H5''	2.36	0.56
1:D1:3192:C:O2	6:DF:120:ARG:HD3	2.06	0.56
24:CC:319:ARG:CZ	1:D1:634:G:N7	2.68	0.56
8:DH:34:GLN:HB3	8:DH:88:VAL:HG13	1.87	0.56
8:DH:58:TYR:CE2	8:DH:60:TYR:HD2	2.24	0.56
9:DJ:109:VAL:HG23	9:DJ:148:VAL:HG23	1.87	0.56
9:DJ:106:ASN:HB3	9:DJ:147:LEU:HD22	1.88	0.56
12:DM:35:PHE:CD1	12:DM:65:ILE:CD1	2.88	0.56
13:DN:72:ILE:O	13:DN:72:ILE:HG13	2.05	0.56
29:EH:48:TYR:HE2	29:EH:142:GLU:HG3	1.69	0.56
32:EK:88:THR:CG2	18:FU:164:LYS:HZ1	2.17	0.56
37:EP:39:TYR:CE1	37:EP:63:LYS:HG3	2.40	0.56
37:EP:6:GLY:H	37:EP:9:ARG:HD2	1.71	0.56
42:EU:81:PRO:HD2	42:EU:84:ILE:HD12	1.86	0.56
44:EW:75:CYS:O	44:EW:90:THR:HA	2.05	0.56
1:F1:1023:A:H2'	1:F1:1024:A:O4'	2.06	0.56
1:F1:1027:G:C8	1:F1:1068:U:OP2	2.58	0.56
1:F1:1595:A:H2	1:F1:1598:C:OP2	1.88	0.56
1:F1:1637:A:H2'	1:F1:1638:A:H5''	1.88	0.56
24:EC:229:ASN:ND2	1:F1:211:A:H3'	2.12	0.56
1:F1:2624:A:H4'	1:F1:2625:A:O5'	2.06	0.56
24:EC:80:ARG:NH2	1:F1:2802:G:OP1	2.32	0.56
1:F1:3185:G:N3	1:F1:3237:C:N3	2.54	0.56
1:F1:511:U:O2'	1:F1:512:G:H5'	2.05	0.56
5:FE:153:GLN:O	5:FE:156:VAL:N	2.39	0.56
5:FE:63:VAL:HG12	5:FE:64:VAL:N	2.21	0.56
42:EU:118:ARG:HH11	18:FU:123:LEU:HD21	1.71	0.56
18:FU:76:GLN:OE1	18:FU:101:ASN:HB2	2.06	0.56
20:G2:1:A:H5''	20:G2:2:G:OP1	2.05	0.56
22:GA:104:PRO:HA	22:GA:163:CYS:O	2.06	0.56
23:GB:103:THR:CG2	23:GB:104:THR:N	2.68	0.56
24:GC:41:VAL:O	24:GC:45:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:GE:145:GLN:NE2	26:GE:186:MET:O	2.39	0.56
27:GF:67:PRO:HB2	27:GF:68:PRO:CD	2.35	0.56
29:GH:138:VAL:HG23	29:GH:152:LEU:HD11	1.87	0.56
33:GL:19:MET:HE2	33:GL:19:MET:HA	1.86	0.56
21:G3:22:A:C5	34:GM:274:HIS:HB3	2.41	0.56
44:GW:28:ALA:CA	44:GW:66:ILE:HD11	2.34	0.56
46:GY:4:ARG:HH21	1:H1:864:C:N4	2.04	0.56
1:H1:1073:A:HO2'	1:H1:1074:A:C5'	2.15	0.56
1:H1:1103:A:H2'	1:H1:1103:A:N3	2.20	0.56
1:H1:135:A:H2'	1:H1:242:G:N7	2.21	0.56
1:H1:1922:G:C2'	1:H1:1923:G:O5'	2.53	0.56
1:H1:2140:A:C5	1:H1:2276:A:C2	2.94	0.56
23:GB:19:ARG:N	1:H1:2978:G:OP1	2.34	0.56
1:H1:3144:G:N2	1:H1:3249:U:H1'	2.21	0.56
1:H1:499:U:H5''	1:H1:500:G:OP2	2.05	0.56
1:H1:530:C:H2'	1:H1:531:C:C6	2.40	0.56
1:H1:1518:G:O2'	3:HB:48:LYS:NZ	2.39	0.56
5:HE:173:TYR:CD2	6:HF:106:PHE:CD1	2.94	0.56
1:H1:3237:C:C2	8:HH:7:SER:OG	2.58	0.56
33:GL:202:ARG:NH1	18:HU:27:ALA:HB2	2.17	0.56
43:GV:219:HIS:HD2	19:HX:53:THR:OG1	1.89	0.56
1:A1:1103:A:N3	1:A1:1103:A:H2'	2.19	0.56
1:A1:1365:C:O3'	45:BX:62:ASP:CB	2.52	0.56
1:A1:149:U:OP1	33:BL:54:LYS:HD3	2.06	0.56
1:A1:2343:A:H8	1:A1:2343:A:O5'	1.89	0.56
1:A1:2634:G:H2'	1:A1:2635:C:C5'	2.36	0.56
1:A1:280:G:C2'	1:A1:281:G:O5'	2.53	0.56
1:A1:388:A:C1'	38:BQ:103:ASN:ND2	2.64	0.56
1:A1:475:C:H2'	1:A1:476:A:O4'	2.06	0.56
1:A1:579:G:O2'	19:AX:159:ALA:N	2.39	0.56
1:A1:621:G:C6	1:A1:622:G:N1	2.74	0.56
4:AC:63:THR:HG22	4:AC:87:LYS:HG2	1.87	0.56
1:A1:2378:A:P	30:BI:81:ARG:HH22	2.28	0.56
41:BT:35:THR:HB	41:BT:38:ALA:H	1.71	0.56
42:BU:99:LYS:O	42:BU:103:ALA:HB2	2.05	0.56
1:A1:1376:A:H2'	43:BV:8:ASN:HB3	1.88	0.56
20:C2:60:C:N4	2:DA:64:ARG:NH1	2.54	0.56
22:CA:216:ASN:ND2	1:D1:2957:A:N7	2.54	0.56
23:CB:81:CYS:HB3	23:CB:203:VAL:CG2	2.30	0.56
23:CB:281:TYR:CE2	23:CB:323:LYS:HB2	2.40	0.56
31:CJ:86:ARG:H	31:CJ:102:ASN:ND2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CK:88:THR:HG23	18:DU:164:LYS:HZ1	1.71	0.56
33:CL:139:HIS:CD2	33:CL:141:ALA:HB3	2.41	0.56
33:CL:179:HIS:O	33:CL:182:LYS:HD3	2.05	0.56
35:CN:146:ARG:HB2	35:CN:149:TYR:HE2	1.70	0.56
1:D1:184:C:H2'	1:D1:185:A:H8	1.71	0.56
1:D1:1902:C:H5	50:D1:4477:HOH:O	1.89	0.56
1:D1:302:G:N2	1:D1:2766:A:C8	2.74	0.56
1:D1:3109:C:O3'	1:D1:3110:U:H6	1.88	0.56
1:D1:970:C:H2'	1:D1:971:C:C6	2.41	0.56
5:DE:53:LEU:HD11	5:DE:90:VAL:HG21	1.87	0.56
6:DF:111:VAL:HG12	6:DF:115:LYS:HE3	1.88	0.56
9:DJ:199:VAL:HG11	9:DJ:222:PHE:CE2	2.40	0.56
9:DJ:88:LEU:HG	9:DJ:92:VAL:HG11	1.88	0.56
11:DL:9:ARG:O	11:DL:10:ARG:HB2	2.06	0.56
1:D1:155:A:O3'	16:DQ:28:VAL:HG23	2.05	0.56
33:CL:10:LEU:HD23	16:DQ:45:ILE:HG23	1.88	0.56
18:DU:54:PRO:HG3	18:DU:72:GLY:O	2.06	0.56
22:EA:248:ARG:HA	22:EA:251:GLN:HE21	1.71	0.56
24:EC:276:THR:HG22	24:EC:277:GLY:O	2.06	0.56
27:EF:211:PHE:O	27:EF:215:TYR:HB2	2.06	0.56
32:EK:118:LEU:HB3	32:EK:141:VAL:HG21	1.88	0.56
32:EK:88:THR:HG23	18:FU:164:LYS:HZ2	1.71	0.56
34:EM:56:THR:HB	34:EM:59:ARG:O	2.07	0.56
38:EQ:134:ALA:O	38:EQ:135:HIS:HB2	2.06	0.56
40:ES:107:LYS:HG3	40:ES:107:LYS:O	2.05	0.56
41:ET:16:TYR:HB3	41:ET:17:PRO:CD	2.36	0.56
1:F1:1095:C:H2'	1:F1:1095:C:O2	2.05	0.56
1:F1:1210:C:H5''	19:FX:171:ARG:HH21	1.71	0.56
1:F1:1775:A:H1'	1:F1:1776:G:H3'	1.88	0.56
1:F1:209:A:H4'	1:F1:211:A:N7	2.20	0.56
1:F1:3183:A:O2'	1:F1:3184:A:P	2.64	0.56
1:F1:3144:G:N2	1:F1:3249:U:H1'	2.19	0.56
1:F1:475:C:H2'	1:F1:476:A:O4'	2.06	0.56
7:FG:9:ASN:O	7:FG:13:LYS:HB3	2.07	0.56
19:FX:156:MET:HE2	19:FX:161:LEU:HD21	1.87	0.56
21:G3:8:G:OP1	37:GP:27:ILE:HD12	2.05	0.56
26:GE:45:ILE:HG12	26:GE:55:LEU:CD2	2.36	0.56
31:GJ:86:ARG:H	31:GJ:102:ASN:ND2	2.03	0.56
33:GL:37:HIS:CE1	33:GL:63:ARG:HB2	2.41	0.56
34:GM:160:PHE:O	34:GM:163:LEU:HB3	2.06	0.56
34:GM:59:ARG:CD	34:GM:61:ILE:HG12	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:308:VAL:HG12	35:GN:40:ARG:NH1	2.20	0.56
36:GO:133:LYS:HG3	36:GO:134:ASN:N	2.19	0.56
37:GP:17:LYS:CE	37:GP:47:SER:HB3	2.36	0.56
39:GR:73:THR:HG22	39:GR:74:PRO:O	2.05	0.56
41:GT:52:THR:HA	41:GT:57:ARG:HG2	1.88	0.56
1:H1:1004:U:H4'	1:H1:1005:A:OP2	2.02	0.56
1:H1:1050:C:C5	1:H1:1051:C:C4	2.94	0.56
1:H1:1037:A:C2	1:H1:1066:A:C2	2.93	0.56
43:GV:91:GLN:HG2	1:H1:1167:G:H5'	1.86	0.56
30:GI:27:LEU:HD11	1:H1:1203:C:H5'	1.88	0.56
1:H1:1876:G:N3	2:HA:9:GLY:HA3	2.21	0.56
1:H1:1919:A:H3'	50:H1:4179:HOH:O	2.04	0.56
1:H1:209:A:H4'	1:H1:211:A:C8	2.41	0.56
1:H1:2384:C:O2'	1:H1:2385:A:H5'	2.06	0.56
27:GF:233:LYS:HE2	1:H1:2521:A:N3	2.21	0.56
1:H1:3310:U:H4'	1:H1:3311:U:OP2	2.01	0.56
1:H1:927:G:C5	1:H1:928:U:C5	2.93	0.56
2:HA:28:HIS:O	2:HA:32:LEU:N	2.37	0.56
2:HA:17:THR:HA	3:HB:52:TYR:HB2	1.88	0.56
5:HE:142:GLU:HA	5:HE:142:GLU:OE1	2.06	0.56
1:H1:3096:U:OP1	10:HK:112:LYS:HD3	2.06	0.56
16:HQ:68:LYS:HE3	16:HQ:69:ASP:OD1	2.06	0.56
16:HQ:2:ALA:HB2	18:HU:184:GLU:OE2	2.05	0.56
1:A1:1063:C:H2'	1:A1:1064:C:C6	2.41	0.55
1:A1:1906:G:O2'	1:A1:1907:A:H5'	2.05	0.55
1:A1:2106:G:C2'	1:A1:2107:A:OP1	2.54	0.55
1:A1:3193:G:N2	1:A1:3218:U:H1'	2.21	0.55
1:A1:3146:G:C6	1:A1:3248:C:C4	2.95	0.55
1:A1:430:G:H2'	1:A1:431:A:C8	2.41	0.55
1:A1:488:U:H2'	1:A1:490:A:OP2	2.06	0.55
1:A1:530:C:H2'	1:A1:531:C:C6	2.40	0.55
1:A1:817:A:H2'	1:A1:818:U:C6	2.41	0.55
5:AE:137:GLU:HG3	5:AE:138:GLN:HG2	1.87	0.55
9:AJ:198:VAL:HG23	9:AJ:205:PHE:HB2	1.86	0.55
13:AN:118:PHE:HE2	13:AN:138:PHE:CE2	2.24	0.55
13:AN:15:GLN:NE2	13:AN:79:HIS:CE1	2.74	0.55
20:B2:31:C:H2'	20:B2:32:C:C6	2.41	0.55
23:BB:110:ILE:HG23	23:BB:114:THR:HG21	1.89	0.55
23:BB:281:TYR:CB	23:BB:321:MET:HE3	2.36	0.55
23:BB:28:ARG:H	23:BB:272:HIS:CE1	2.24	0.55
25:BD:37:LEU:HD13	25:BD:69:VAL:CG2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BH:75:ASN:O	29:BH:79:PHE:CD1	2.52	0.55
14:AO:7:GLU:CB	35:BN:25:VAL:HG13	2.36	0.55
44:BW:4:GLN:HE21	44:BW:76:LYS:NZ	2.03	0.55
45:BX:45:ARG:HA	45:BX:54:MET:HE3	1.87	0.55
24:CC:298:ILE:O	24:CC:304:VAL:HG21	2.06	0.55
25:CD:37:LEU:HD13	25:CD:69:VAL:CG2	2.36	0.55
34:CM:16:PHE:CZ	1:D1:2677:U:C4	2.93	0.55
38:CQ:26:VAL:HG21	38:CQ:92:VAL:HG21	1.89	0.55
43:CV:129:PRO:HG2	43:CV:130:PHE:CD2	2.41	0.55
43:CV:98:ARG:HH11	43:CV:98:ARG:HG2	1.68	0.55
1:D1:2271:G:C5	1:D1:2272:C:C5	2.94	0.55
1:D1:2716:A:OP1	1:D1:2717:G:N2	2.34	0.55
26:CE:154:GLN:NE2	1:D1:3115:C:H1'	2.21	0.55
32:CK:84:VAL:HG13	1:D1:485:A:H2'	1.87	0.55
1:D1:489:A:H2'	1:D1:490:A:C8	2.41	0.55
1:D1:977:A:H2'	1:D1:978:G:H5''	1.87	0.55
5:DE:15:ILE:HA	5:DE:18:TRP:CE2	2.41	0.55
5:DE:170:LEU:HA	6:DF:106:PHE:HE1	1.71	0.55
33:CL:13:LYS:HD3	16:DQ:49:THR:HG21	1.87	0.55
20:E2:10:U:H2'	20:E2:11:C:C6	2.41	0.55
21:E3:81:A:C2'	21:E3:82:G:C5'	2.83	0.55
23:EB:66:ARG:NH1	31:EJ:13:THR:O	2.38	0.55
27:EF:36:GLN:NE2	27:EF:39:ARG:NH2	2.54	0.55
30:EI:35:VAL:HG13	30:EI:106:GLY:O	2.05	0.55
34:EM:90:THR:O	34:EM:231:TRP:HZ3	1.89	0.55
34:EM:56:THR:HG22	34:EM:57:ASN:N	2.21	0.55
40:ES:116:SER:O	40:ES:120:ARG:HG3	2.05	0.55
45:EX:57:ILE:HG13	1:F1:972:U:C5'	2.22	0.55
45:EX:3:ILE:O	45:EX:5:PRO:HD2	2.06	0.55
1:F1:1026:C:N3	1:F1:1071:C:N4	2.54	0.55
1:F1:1074:A:H5''	1:F1:1075:C:C5'	2.36	0.55
1:F1:2266:A:N7	1:F1:2267:G:C6	2.74	0.55
1:F1:2558:U:C4	1:F1:2559:U:C4	2.94	0.55
1:F1:2669:A:H4'	1:F1:2670:U:OP1	2.06	0.55
1:F1:3080:A:N3	1:F1:3082:C:O2'	2.38	0.55
1:F1:430:G:H2'	1:F1:431:A:C8	2.40	0.55
1:F1:978:G:H1'	1:F1:1142:G:H5''	1.88	0.55
1:F1:745:A:H4'	17:FT:58:ASN:ND2	2.21	0.55
20:G2:145:C:H2'	20:G2:146:A:H8	1.69	0.55
22:GA:210:HIS:CD2	22:GA:212:HIS:HB2	2.41	0.55
22:GA:239:ARG:NH1	1:H1:2158:C:C5'	2.62	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:99:VAL:HA	22:GA:167:VAL:HG12	1.88	0.55
24:GC:65:MET:HE2	24:GC:105:ARG:HG2	1.88	0.55
29:GH:147:TYR:HD1	29:GH:147:TYR:H	1.54	0.55
32:GK:76:ASN:H	32:GK:79:LYS:HE2	1.71	0.55
33:GL:135:ALA:O	33:GL:137:PRO:HD3	2.06	0.55
33:GL:182:LYS:HE3	1:H1:97:A:HO2'	1.71	0.55
35:GN:146:ARG:HB3	35:GN:149:TYR:CD2	2.41	0.55
33:GL:147:ARG:HE	42:GU:105:LEU:HD21	1.70	0.55
43:GV:85:ARG:CZ	43:GV:100:LEU:HD13	2.36	0.55
46:GY:10:ILE:CD1	46:GY:30:GLU:CB	2.84	0.55
1:H1:1021:U:O2	1:H1:1021:U:H2'	2.05	0.55
1:H1:1104:C:C2	17:HT:42:ASN:ND2	2.73	0.55
1:H1:1393:A:H2'	1:H1:1394:G:C8	2.40	0.55
1:H1:1845:U:O2	1:H1:1845:U:H2'	2.05	0.55
1:H1:2639:C:C5'	1:H1:2640:G:OP2	2.47	0.55
25:GD:99:THR:CG2	1:H1:2673:C:O2'	2.53	0.55
1:H1:269:U:H2'	1:H1:270:C:C6	2.40	0.55
1:H1:2876:U:O4	1:H1:2898:A:H2'	2.07	0.55
1:H1:513:G:H2'	1:H1:514:U:H6	1.70	0.55
1:H1:596:A:H2'	1:H1:597:A:C8	2.40	0.55
35:GN:166:TYR:CE1	1:H1:692:A:H4'	2.40	0.55
3:HB:28:ARG:CZ	3:HB:36:ARG:O	2.54	0.55
5:HE:15:ILE:HA	5:HE:18:TRP:CE2	2.41	0.55
5:HE:4:GLY:N	5:HE:5:PRO:HD2	2.21	0.55
14:HO:106:PHE:O	14:HO:109:LYS:HB2	2.06	0.55
16:HQ:29:GLN:C	16:HQ:31:LYS:HD3	2.26	0.55
1:A1:1064:C:H5'	34:BM:5:LYS:HD3	1.81	0.55
1:A1:1113:A:H2'	1:A1:1114:C:C6	2.41	0.55
1:A1:1190:U:H2'	1:A1:1191:G:C8	2.41	0.55
1:A1:1218:U:H3'	10:AK:113:ARG:NH1	2.21	0.55
1:A1:1694:C:O2	1:A1:1804:G:N2	2.25	0.55
1:A1:1724:U:O2'	1:A1:1725:A:H5'	2.06	0.55
1:A1:2127:A:N7	1:A1:2145:A:H2	2.03	0.55
1:A1:2278:G:O2'	1:A1:2279:C:P	2.64	0.55
1:A1:280:G:H2'	1:A1:281:G:O5'	2.06	0.55
1:A1:3044:A:C5'	1:A1:3045:A:OP2	2.54	0.55
1:A1:672:C:N3	1:A1:2369:C:O2'	2.38	0.55
5:AE:153:GLN:O	5:AE:156:VAL:N	2.38	0.55
9:AJ:199:VAL:HG11	9:AJ:222:PHE:CE2	2.41	0.55
12:AM:19:ILE:HD13	12:AM:105:TYR:HB2	1.88	0.55
14:AO:44:HIS:HD2	14:AO:46:HIS:CD2	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:979:U:C1'	17:AT:12:GLN:NE2	2.64	0.55
18:AU:76:GLN:OE1	18:AU:101:ASN:HB2	2.05	0.55
19:AX:92:VAL:HG12	19:AX:138:ILE:HD12	1.88	0.55
1:A1:3276:C:OP1	23:BB:123:ALA:HB1	2.07	0.55
23:BB:157:ARG:HG2	23:BB:180:GLN:CA	2.36	0.55
25:BD:155:SER:HB3	25:BD:158:GLU:HG3	1.88	0.55
1:A1:1107:A:C8	34:BM:142:PHE:CE1	2.94	0.55
35:BN:85:SER:OG	35:BN:86:THR:N	2.38	0.55
37:BP:63:LYS:HD2	37:BP:63:LYS:N	2.20	0.55
40:BS:55:VAL:HG13	40:BS:104:VAL:O	2.07	0.55
20:B2:74:A:H5'	40:BS:50:ARG:CG	2.36	0.55
43:BV:31:SER:O	43:BV:35:LYS:HG2	2.07	0.55
22:CA:31:ARG:HD3	22:CA:34:ASP:OD2	2.05	0.55
23:CB:46:PHE:CD1	23:CB:206:ILE:HD12	2.42	0.55
26:CE:131:LYS:HE2	26:CE:145:GLN:CG	2.35	0.55
27:CF:183:VAL:HG11	27:CF:185:LYS:HE3	1.88	0.55
30:CI:18:LEU:O	30:CI:22:VAL:HG23	2.07	0.55
32:CK:88:THR:HG23	18:DU:164:LYS:HZ2	1.70	0.55
47:CO:15:LEU:HD13	47:CO:52:LYS:HB2	1.86	0.55
39:CR:73:THR:HG22	39:CR:74:PRO:O	2.07	0.55
43:CV:105:LEU:HD22	43:CV:110:ASN:O	2.06	0.55
43:CV:82:PHE:O	43:CV:133:PHE:HA	2.05	0.55
1:D1:1240:G:O2'	19:DX:104:MET:HG2	2.05	0.55
1:D1:1403:C:HO2'	1:D1:1434:G:HO2'	1.54	0.55
1:D1:146:U:C4'	1:D1:147:U:H5'	2.30	0.55
44:CW:33:ARG:HH22	1:D1:1906:G:H5''	1.70	0.55
1:D1:23:U:O2'	1:D1:24:A:H5''	2.06	0.55
1:D1:2521:A:C2	1:D1:2522:A:C4	2.95	0.55
1:D1:1:C:O2'	1:D1:2:U:H5'	2.05	0.55
1:D1:439:A:H2'	1:D1:440:C:O5'	2.06	0.55
1:D1:611:A:O2'	1:D1:612:C:H5'	2.06	0.55
5:DE:78:GLY:H	5:DE:85:VAL:HG12	1.69	0.55
9:DJ:135:VAL:CG1	9:DJ:136:GLU:N	2.69	0.55
9:DJ:39:GLU:CB	9:DJ:43:VAL:HG23	2.35	0.55
13:DN:83:THR:HG22	13:DN:85:TYR:N	2.14	0.55
14:DO:44:HIS:HD2	14:DO:46:HIS:CD2	2.24	0.55
20:E2:141:G:N7	50:E2:333:HOH:O	2.33	0.55
23:EB:54:THR:HG23	23:EB:358:ASP:HB3	1.87	0.55
24:EC:139:VAL:N	24:EC:140:PRO:HD2	2.22	0.55
27:EF:146:ILE:HG23	27:EF:156:VAL:HG11	1.87	0.55
32:EK:13:GLY:HA2	1:F1:968:U:O5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:EN:64:SER:HA	35:EN:88:THR:O	2.06	0.55
35:EN:93:LEU:O	35:EN:113:ARG:NH2	2.23	0.55
36:EO:84:THR:O	36:EO:88:ARG:HG3	2.06	0.55
44:EW:54:LEU:HD22	44:EW:92:VAL:CG1	2.37	0.55
1:F1:1149:U:O2'	1:F1:1150:U:H5'	2.06	0.55
30:EI:62:ASN:ND2	1:F1:1332:U:H1'	2.21	0.55
1:F1:1901:C:H5'	1:F1:1902:C:C5	2.41	0.55
1:F1:1922:G:H2'	1:F1:1923:G:O5'	2.06	0.55
1:F1:2521:A:C6	1:F1:2522:A:C6	2.95	0.55
1:F1:2651:A:H2'	1:F1:2652:G:H8	1.70	0.55
1:F1:2731:C:H4'	4:FC:18:HIS:HD2	1.72	0.55
1:F1:2956:G:O2'	1:F1:2957:A:H5'	2.06	0.55
1:F1:467:A:N6	1:F1:512:G:C4	2.74	0.55
24:EC:119:ARG:HH21	1:F1:705:A:H4'	1.71	0.55
1:F1:761:A:H2'	1:F1:762:G:O4'	2.05	0.55
1:F1:634:G:H5'	5:FE:30:ARG:NH2	2.21	0.55
6:FF:24:LEU:HD11	6:FF:85:TYR:CG	2.41	0.55
7:FG:43:PHE:CD2	7:FG:90:MET:HE2	2.40	0.55
1:F1:1513:A:O2'	11:FL:6:THR:HG23	2.06	0.55
1:F1:1101:U:C5'	17:FT:49:ASN:HD22	2.13	0.55
16:FQ:9:ILE:CD1	18:FU:187:ASN:HB3	2.19	0.55
1:F1:71:U:H5	18:FU:64:ASN:HB3	1.68	0.55
21:G3:96:U:H2'	21:G3:97:G:H5''	1.88	0.55
22:GA:218:GLN:HB3	50:GA:404:HOH:O	2.05	0.55
27:GF:212:LYS:HG2	27:GF:216:ASN:HD22	1.71	0.55
29:GH:153:THR:O	29:GH:156:LYS:HB3	2.05	0.55
29:GH:12:PRO:HA	29:GH:59:GLN:NE2	2.21	0.55
32:GK:118:LEU:HB3	32:GK:141:VAL:HG21	1.88	0.55
32:GK:132:LYS:HG3	1:H1:739:G:OP1	2.06	0.55
33:GL:79:ILE:HD12	1:H1:2597:G:O2'	2.06	0.55
35:GN:49:ILE:O	35:GN:53:LEU:HG	2.06	0.55
35:GN:53:LEU:O	35:GN:60:LYS:NZ	2.39	0.55
45:GX:80:ASN:CB	1:H1:1413:G:H4'	2.36	0.55
45:GX:103:SER:HB3	1:H1:1415:C:H5'	1.88	0.55
1:H1:611:A:O2'	1:H1:612:C:H5'	2.06	0.55
1:H1:548:G:C2	1:H1:635:A:C2	2.94	0.55
22:GA:12:ARG:HH11	1:H1:935:G:H5'	1.72	0.55
5:HE:56:GLY:C	5:HE:58:PHE:N	2.59	0.55
9:HJ:186:ILE:HD11	9:HJ:206:CYS:HB2	1.87	0.55
41:ET:14:ARG:NH1	9:HJ:44:PRO:CB	2.69	0.55
19:HX:92:VAL:HG12	19:HX:138:ILE:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1090:A:OP1	1:A1:1091:G:H3'	2.06	0.55
1:A1:1149:U:O2'	1:A1:1150:U:H5'	2.06	0.55
1:A1:1492:G:C2'	1:A1:1493:A:H5''	2.37	0.55
1:A1:1702:G:H2'	1:A1:1703:A:C8	2.41	0.55
1:A1:1901:C:H5'	1:A1:1902:C:C5	2.41	0.55
1:A1:2227:A:H1'	1:A1:2423:U:O2'	2.07	0.55
1:A1:2539:A:C2	1:A1:2540:G:C5	2.94	0.55
1:A1:3135:A:H2'	1:A1:3136:A:C8	2.41	0.55
1:A1:3232:A:H4'	5:AE:55:ALA:HB1	1.87	0.55
11:AL:98:GLU:HA	11:AL:98:GLU:OE1	2.07	0.55
23:BB:54:THR:HG22	23:BB:55:HIS:H	1.71	0.55
20:B2:25:U:OP2	24:BC:201:LEU:HD22	2.07	0.55
1:A1:1372:A:C2	24:BC:314:THR:HG21	2.41	0.55
1:A1:2397:A:OP2	24:BC:77:ALA:N	2.39	0.55
27:BF:68:PRO:CD	27:BF:225:TRP:HE1	2.19	0.55
28:BG:48:UNK:HG1	28:BG:52:UNK:CB	2.36	0.55
32:BK:117:ARG:NH1	32:BK:137:ARG:CZ	2.70	0.55
34:BM:231:TRP:HZ2	34:BM:243:VAL:CG2	2.19	0.55
39:BR:76:THR:O	39:BR:76:THR:HG22	2.06	0.55
39:BR:52:SER:O	42:BU:81:PRO:HB3	2.07	0.55
44:BW:28:ALA:HB3	44:BW:29:PRO:HD3	1.88	0.55
44:BW:61:ASN:HB3	44:BW:65:ASN:O	2.06	0.55
20:C2:30:U:OP1	24:CC:56:LYS:HA	2.07	0.55
22:CA:117:VAL:HG12	22:CA:118:GLU:N	2.22	0.55
22:CA:209:ASP:O	22:CA:210:HIS:HB2	2.06	0.55
23:CB:84:MET:HE1	23:CB:179:ILE:HD11	1.87	0.55
23:CB:303:ILE:HG12	23:CB:319:PHE:CZ	2.42	0.55
24:CC:191:THR:OG1	24:CC:209:ARG:HD2	2.06	0.55
27:CF:122:PRO:HD3	1:D1:118:A:N7	2.21	0.55
27:CF:212:LYS:HG2	27:CF:216:ASN:HD22	1.72	0.55
29:CH:12:PRO:HA	29:CH:59:GLN:NE2	2.21	0.55
34:CM:122:GLN:HG2	34:CM:124:LYS:O	2.07	0.55
34:CM:155:THR:OG1	34:CM:179:ARG:HD3	2.07	0.55
34:CM:79:ASP:OD1	34:CM:79:ASP:N	2.39	0.55
35:CN:114:ILE:CD1	35:CN:121:CYS:SG	2.93	0.55
42:CU:122:LEU:HD13	18:DU:150:LEU:HD23	1.88	0.55
43:CV:60:VAL:HG13	43:CV:63:LYS:NZ	2.21	0.55
43:CV:122:ASN:HD22	1:D1:1013:U:P	2.29	0.55
37:CP:116:LYS:NZ	1:D1:1124:G:H8	2.04	0.55
1:D1:1767:U:C4'	1:D1:1768:G:OP2	2.55	0.55
1:D1:1805:C:C2'	1:D1:1806:G:OP1	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1845:U:C4'	1:D1:1846:C:OP2	2.54	0.55
1:D1:219:A:C2	1:D1:1416:U:C2'	2.85	0.55
1:D1:2245:G:O2'	1:D1:2246:G:H5'	2.06	0.55
23:CB:253:TRP:CD1	1:D1:2390:G:H5''	2.41	0.55
1:D1:2624:A:H4'	1:D1:2625:A:O5'	2.06	0.55
1:D1:439:A:C8	1:D1:439:A:P	2.96	0.55
5:DE:4:GLY:N	5:DE:5:PRO:HD2	2.21	0.55
5:DE:88:LYS:HG3	5:DE:89:ARG:N	2.20	0.55
6:DF:13:VAL:HG22	6:DF:55:LEU:HD23	1.88	0.55
12:DM:66:ASN:HD21	12:DM:68:GLN:NE2	2.04	0.55
1:D1:1701:A:H5''	12:DM:99:SER:CB	2.36	0.55
33:CL:9:GLU:OE1	16:DQ:42:ARG:HA	2.06	0.55
19:DX:92:VAL:HG12	19:DX:138:ILE:HD12	1.88	0.55
29:EH:130:ASP:OD1	29:EH:131:ILE:N	2.39	0.55
34:EM:122:GLN:HG2	34:EM:124:LYS:O	2.06	0.55
34:EM:166:ALA:HB1	34:EM:171:ILE:HD12	1.87	0.55
37:EP:17:LYS:HE3	37:EP:47:SER:HB3	1.88	0.55
43:EV:185:ILE:HA	43:EV:192:PHE:HE1	1.71	0.55
1:F1:1025:G:C6	1:F1:1026:C:N4	2.74	0.55
33:EL:55:ASN:HB2	1:F1:148:G:H4'	1.88	0.55
1:F1:165:C:O3'	18:FU:132:LYS:HG3	2.06	0.55
1:F1:2256:G:C3'	1:F1:2257:A:C5'	2.84	0.55
1:F1:2873:C:O2'	1:F1:2874:U:H5'	2.06	0.55
1:F1:268:G:N2	1:F1:294:A:OP2	2.32	0.55
1:F1:3046:A:C6	1:F1:3048:A:H1'	2.41	0.55
1:F1:3177:G:H5''	1:F1:3177:G:C8	2.40	0.55
1:F1:362:G:C2'	1:F1:363:G:H5''	2.36	0.55
1:F1:40:C:C6	1:F1:40:C:H3'	2.41	0.55
1:F1:624:G:O2'	1:F1:625:C:O4'	2.24	0.55
5:FE:161:LEU:O	5:FE:165:LYS:HB2	2.06	0.55
5:FE:63:VAL:HG12	5:FE:76:VAL:HG13	1.88	0.55
1:F1:3227:A:N3	5:FE:80:TYR:CE2	2.74	0.55
6:FF:67:GLN:NE2	6:FF:75:LYS:HE3	2.21	0.55
11:FL:20:VAL:HG12	11:FL:21:ARG:N	2.21	0.55
11:FL:5:ILE:CG2	11:FL:32:ALA:HB2	2.35	0.55
12:FM:35:PHE:CD1	12:FM:65:ILE:CD1	2.89	0.55
16:FQ:84:HIS:O	16:FQ:87:ALA:HB3	2.06	0.55
21:G3:105:C:H5'	21:G3:105:C:C6	2.39	0.55
22:GA:66:ASP:OD2	22:GA:71:LYS:HE2	2.05	0.55
23:GB:303:ILE:CD1	23:GB:319:PHE:CE1	2.90	0.55
24:GC:205:ARG:HB3	24:GC:206:TYR:CE2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:GD:37:LEU:HD13	25:GD:69:VAL:HG23	1.88	0.55
27:GF:149:ASP:OD2	27:GF:176:LYS:HG2	2.06	0.55
33:GL:187:SER:O	33:GL:190:GLY:N	2.39	0.55
35:GN:66:SER:HB3	35:GN:93:LEU:HG	1.87	0.55
37:GP:74:VAL:HG12	37:GP:75:ILE:H	1.70	0.55
44:GW:43:MET:HG3	44:GW:90:THR:HG21	1.88	0.55
1:H1:1050:C:H3'	1:H1:1051:C:C6	2.41	0.55
21:G3:80:A:H4'	1:H1:1082:U:H4'	1.88	0.55
1:H1:1497:U:H2'	1:H1:1498:U:H6	1.71	0.55
1:H1:1627:A:C6	1:H1:1628:A:C6	2.95	0.55
1:H1:1650:U:O2	1:H1:1668:A:H5'	2.06	0.55
1:H1:1919:A:HO2'	1:H1:1920:A:H8	1.47	0.55
1:H1:581:C:H2'	1:H1:582:A:H5''	1.86	0.55
7:HG:13:LYS:HB2	7:HG:100:ILE:CD1	2.36	0.55
13:HN:113:THR:O	13:HN:117:VAL:HG23	2.05	0.55
14:HO:94:ILE:HD13	14:HO:107:ALA:HB1	1.88	0.55
15:HP:53:PHE:HE1	15:HP:55:THR:CG2	2.19	0.55
16:HQ:61:LEU:O	16:HQ:69:ASP:HB3	2.06	0.55
6:HF:51:ARG:HG2	19:HX:171:ARG:NH1	2.21	0.55
19:HX:168:THR:N	19:HX:188:THR:HG23	2.18	0.55
19:HX:89:TYR:CD2	19:HX:113:LEU:HD13	2.42	0.55
1:A1:1091:G:O2'	1:A1:1092:C:OP1	2.22	0.55
1:A1:2100:A:C3'	1:A1:2101:G:H5''	2.37	0.55
1:A1:2577:G:OP1	27:BF:233:LYS:NZ	2.33	0.55
1:A1:2882:U:H2'	1:A1:2883:G:H8	1.72	0.55
1:A1:3046:A:H5''	1:A1:3047:U:OP2	2.07	0.55
1:A1:3127:U:C6	23:BB:30:ARG:NH2	2.75	0.55
1:A1:3143:A:OP2	1:A1:3143:A:H8	1.88	0.55
1:A1:467:A:N6	1:A1:512:G:C4	2.74	0.55
1:A1:772:U:C2'	1:A1:773:C:H5'	2.37	0.55
1:A1:88:U:OP1	32:BK:61:ARG:NH2	2.35	0.55
6:AF:24:LEU:HD11	6:AF:85:TYR:CG	2.41	0.55
14:AO:114:PHE:O	14:AO:117:ALA:HB3	2.06	0.55
1:A1:511:U:C5'	14:AO:70:VAL:HG21	2.34	0.55
20:B2:1:A:C5'	20:B2:2:G:OP1	2.54	0.55
23:BB:356:PHE:HE2	23:BB:358:ASP:HB2	1.72	0.55
29:BH:208:ARG:HG3	29:BH:209:LEU:N	2.21	0.55
1:A1:1201:G:N2	30:BI:86:MET:HE1	2.03	0.55
34:BM:177:GLU:HA	34:BM:180:PHE:CD2	2.35	0.55
37:BP:116:LYS:HE3	37:BP:128:THR:OG1	2.05	0.55
43:BV:124:ILE:HG22	43:BV:124:ILE:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:60:VAL:HG13	43:BV:63:LYS:NZ	2.21	0.55
22:CA:31:ARG:O	22:CA:164:ARG:NH1	2.32	0.55
30:CI:74:ALA:O	30:CI:78:ILE:HG12	2.06	0.55
33:CL:165:THR:HG23	33:CL:168:GLY:H	1.70	0.55
34:CM:48:LYS:HE2	34:CM:145:ILE:CD1	2.37	0.55
35:CN:98:LYS:O	35:CN:98:LYS:HG3	2.05	0.55
38:CQ:64:ARG:NH1	1:D1:409:G:OP1	2.38	0.55
43:CV:157:ARG:HG3	43:CV:200:TRP:CE2	2.41	0.55
46:CY:10:ILE:CD1	46:CY:30:GLU:CB	2.84	0.55
1:D1:118:A:C4'	1:D1:119:A:O5'	2.47	0.55
1:D1:2641:U:H5'	4:DC:63:THR:HG21	1.88	0.55
1:D1:2666:G:H5''	1:D1:2666:G:N3	2.21	0.55
1:D1:2865:G:H2'	1:D1:2866:G:H8	1.70	0.55
1:D1:3100:U:H2'	1:D1:3101:G:H5'	1.87	0.55
1:D1:3143:A:H8	1:D1:3143:A:OP2	1.88	0.55
1:D1:3251:C:C4'	1:D1:3252:G:OP2	2.54	0.55
1:D1:396:A:C2	1:D1:397:A:C4	2.94	0.55
1:D1:488:U:H2'	1:D1:490:A:OP2	2.07	0.55
11:DL:98:GLU:HA	11:DL:98:GLU:OE1	2.07	0.55
22:EA:206:ASN:HB3	22:EA:207:PRO:HD2	1.88	0.55
22:EA:210:HIS:CD2	22:EA:211:PRO:HD2	2.42	0.55
22:EA:71:LYS:HE3	22:EA:73:ASN:CG	2.27	0.55
24:EC:195:ARG:O	24:EC:200:LYS:HE2	2.06	0.55
24:EC:238:VAL:HG21	24:EC:262:ALA:CB	2.37	0.55
24:EC:319:ARG:NH2	1:F1:634:G:O6	2.39	0.55
24:EC:89:THR:CG2	24:EC:91:ARG:HB3	2.35	0.55
25:ED:37:LEU:CD1	25:ED:69:VAL:HG23	2.36	0.55
28:EG:48:UNK:HG1	28:EG:52:UNK:CB	2.36	0.55
29:EH:138:VAL:HG23	29:EH:152:LEU:HD11	1.88	0.55
32:EK:75:VAL:HG12	32:EK:76:ASN:N	2.21	0.55
34:EM:122:GLN:HB2	34:EM:130:PHE:CE2	2.42	0.55
34:EM:175:HIS:HD2	34:EM:180:PHE:HE2	1.52	0.55
36:EO:106:LEU:HB3	36:EO:120:TYR:HE1	1.71	0.55
37:EP:62:GLY:HA3	37:EP:74:VAL:CG1	2.36	0.55
41:ET:46:VAL:HG11	41:ET:51:ILE:HD11	1.89	0.55
43:EV:82:PHE:O	43:EV:133:PHE:HA	2.07	0.55
1:F1:1055:A:C5	1:F1:1056:A:N7	2.75	0.55
28:EG:80:UNK:C	1:F1:1309:G:H4'	2.36	0.55
1:F1:2305:U:O2'	1:F1:2306:G:H5'	2.06	0.55
1:F1:2569:A:O2'	1:F1:2570:U:OP1	2.20	0.55
1:F1:2666:G:N3	1:F1:2666:G:H5''	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3011:G:H1'	1:F1:3012:U:OP2	2.06	0.55
1:F1:3126:C:H2'	1:F1:3127:U:C6	2.41	0.55
1:F1:581:C:H2'	1:F1:582:A:C5'	2.36	0.55
9:FJ:186:ILE:HD11	9:FJ:206:CYS:HB2	1.88	0.55
12:FM:89:GLN:HB2	12:FM:91:LEU:HG	1.88	0.55
18:FU:44:VAL:HG12	18:FU:44:VAL:O	2.07	0.55
20:G2:110:A:H2'	20:G2:111:A:C8	2.41	0.55
20:G2:19:G:N2	1:H1:403:G:H1'	2.21	0.55
23:GB:54:THR:HG21	23:GB:358:ASP:O	2.06	0.55
27:GF:43:ARG:NH1	1:H1:2521:A:C6	2.74	0.55
30:GI:30:GLN:HG3	30:GI:32:ILE:HD13	1.89	0.55
41:GT:5:THR:HG21	41:GT:14:ARG:HE	1.70	0.55
42:GU:98:LYS:HG2	1:H1:242:G:OP1	2.06	0.55
43:GV:84:ILE:HD12	43:GV:234:LEU:CD2	2.37	0.55
22:GA:85:SER:HB3	46:GY:63:ILE:HB	1.88	0.55
1:H1:1035:A:C2	1:H1:1036:G:C6	2.93	0.55
1:H1:1091:G:HO2'	1:H1:1092:C:P	2.29	0.55
1:H1:113:A:O2'	1:H1:114:A:OP1	2.24	0.55
1:H1:133:C:H4'	1:H1:134:A:O5'	2.06	0.55
1:H1:2132:U:H2'	1:H1:2138:A:N6	2.22	0.55
1:H1:2787:A:H5''	1:H1:2788:G:O5'	2.06	0.55
1:H1:2886:G:H8	1:H1:2886:G:H3'	1.70	0.55
1:H1:3045:A:H4'	1:H1:3046:A:OP1	2.05	0.55
1:H1:3100:U:H2'	1:H1:3101:G:H5'	1.89	0.55
30:GI:163:ALA:HB1	1:H1:3163:A:O2'	2.06	0.55
1:H1:3193:G:N2	1:H1:3218:U:H1'	2.21	0.55
1:H1:446:G:H2'	1:H1:447:G:H8	1.69	0.55
24:GC:40:LYS:NZ	1:H1:815:U:H1'	2.21	0.55
8:HH:9:VAL:CG1	8:HH:10:ALA:N	2.69	0.55
31:GJ:139:SER:CB	9:HJ:102:SER:H	2.19	0.55
12:HM:98:THR:HG22	12:HM:99:SER:N	2.21	0.55
1:A1:1034:U:H3'	1:A1:1035:A:H5''	1.88	0.55
1:A1:1101:U:H5''	1:A1:1102:U:OP2	2.05	0.55
1:A1:1167:G:H5'	43:BV:91:GLN:HG2	1.87	0.55
1:A1:1456:U:C4	32:BK:9:ARG:HD2	2.41	0.55
1:A1:152:U:C5'	1:A1:153:C:OP2	2.55	0.55
1:A1:2127:A:H2'	1:A1:2128:C:H5'	1.88	0.55
1:A1:2545:A:O2'	1:A1:2546:A:OP1	2.24	0.55
1:A1:2789:A:C3'	1:A1:2790:A:H5''	2.36	0.55
1:A1:292:C:H6	1:A1:292:C:H5'	1.71	0.55
1:A1:25:C:O2'	1:A1:326:A:N3	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:971:C:O2'	1:A1:972:U:H5'	2.05	0.55
9:AJ:224:LEU:O	9:AJ:225:ASN:HB3	2.07	0.55
12:AM:75:LYS:HE2	12:AM:105:TYR:CZ	2.41	0.55
13:AN:70:PRO:CD	13:AN:115:LYS:HG2	2.37	0.55
21:B3:20:U:C2'	21:B3:21:G:H5'	2.36	0.55
1:A1:3273:U:O2	23:BB:170:ARG:NH1	2.39	0.55
23:BB:332:ARG:CB	23:BB:332:ARG:HH11	2.18	0.55
27:BF:212:LYS:HG2	27:BF:216:ASN:HD22	1.71	0.55
1:A1:882:G:OP2	36:BO:92:LYS:NZ	2.40	0.55
20:B2:7:U:OP1	38:BQ:64:ARG:HG2	2.06	0.55
1:A1:1546:G:H5''	39:BR:77:THR:HG22	1.88	0.55
43:BV:105:LEU:HD12	43:BV:131:ILE:HD13	1.88	0.55
20:C2:60:C:C4	2:DA:64:ARG:NH1	2.75	0.55
23:CB:54:THR:HG21	23:CB:358:ASP:O	2.06	0.55
24:CC:272:THR:CG2	24:CC:273:TYR:N	2.69	0.55
25:CD:50:ALA:HB1	25:CD:59:ILE:HG23	1.86	0.55
27:CF:67:PRO:HB2	27:CF:68:PRO:CD	2.35	0.55
28:CG:63:UNK:O	28:CG:67:UNK:HB2	2.05	0.55
29:CH:142:GLU:N	29:CH:143:PRO:HD2	2.22	0.55
33:CL:110:VAL:CG1	33:CL:113:LEU:HG	2.34	0.55
47:CO:174:UNK:HG1	29:EH:80:ILE:O	2.07	0.55
38:CQ:33:GLU:OE1	38:CQ:63:THR:N	2.37	0.55
1:D1:1054:G:C2	1:D1:1055:A:C6	2.95	0.55
27:CF:121:LYS:HA	1:D1:118:A:N7	2.22	0.55
1:D1:2264:U:H2'	1:D1:2265:A:O5'	2.06	0.55
1:D1:2397:A:H1'	1:D1:2859:G:O4'	2.05	0.55
1:D1:699:C:O2'	1:D1:703:U:OP1	2.23	0.55
4:DC:14:LYS:HG3	4:DC:77:THR:OG1	2.06	0.55
8:DH:97:PRO:O	8:DH:100:ILE:HG13	2.07	0.55
8:DH:73:ILE:HG22	8:DH:91:PHE:HD2	1.72	0.55
9:DJ:224:LEU:O	9:DJ:225:ASN:HB3	2.07	0.55
1:D1:2884:A:OP1	10:DK:102:ARG:HD3	2.06	0.55
10:DK:120:SER:O	10:DK:121:LEU:HD23	2.07	0.55
20:E2:58:U:N3	20:E2:65:C:C5	2.67	0.55
32:EK:145:CYS:CB	18:FU:177:VAL:HG21	2.35	0.55
33:EL:189:LYS:O	33:EL:193:ARG:HG3	2.06	0.55
34:EM:153:THR:HG22	34:EM:179:ARG:HH11	1.71	0.55
36:EO:4:LEU:CD2	36:EO:7:GLN:HG3	2.34	0.55
45:EX:59:PHE:CE1	1:F1:1189:U:H4'	2.42	0.55
46:EY:10:ILE:CD1	46:EY:30:GLU:CB	2.85	0.55
1:F1:1061:G:C2	1:F1:1062:A:C8	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:EA:221:GLY:HA2	1:F1:2241:G:OP1	2.07	0.55
1:F1:3094:U:H2'	1:F1:3095:A:C8	2.42	0.55
1:F1:3135:A:H2'	1:F1:3136:A:C8	2.42	0.55
1:F1:476:A:C2	1:F1:500:G:N2	2.74	0.55
1:F1:514:U:H2'	1:F1:515:A:C8	2.41	0.55
13:FN:33:THR:HB	13:FN:35:ASP:H	1.72	0.55
20:G2:99:U:H5''	20:G2:100:C:OP2	2.06	0.55
23:GB:162:THR:O	23:GB:162:THR:HG22	2.05	0.55
23:GB:211:GLU:O	23:GB:280:VAL:HG23	2.07	0.55
24:GC:195:ARG:O	24:GC:200:LYS:HE2	2.07	0.55
27:GF:69:GLN:HG2	27:GF:222:ARG:NH1	2.22	0.55
30:GI:107:ILE:HG13	30:GI:159:ARG:HH12	1.71	0.55
34:GM:228:PHE:HD1	34:GM:231:TRP:CD1	2.23	0.55
35:GN:88:THR:HA	35:GN:107:THR:OG1	2.07	0.55
41:GT:11:CYS:SG	41:GT:13:TYR:CD2	3.00	0.55
42:GU:25:LEU:O	42:GU:28:GLU:HB3	2.06	0.55
44:GW:19:CYS:CA	44:GW:22:ILE:HD12	2.37	0.55
45:GX:11:ILE:HB	45:GX:65:THR:HG21	1.88	0.55
29:GH:92:HIS:CD2	1:H1:1070:U:H1'	2.40	0.55
1:H1:1853:G:H5''	1:H1:1854:U:H5'	1.88	0.55
1:H1:1895:U:H5'	50:H1:3915:HOH:O	2.06	0.55
1:H1:2213:G:OP1	16:HQ:72:LYS:NZ	2.40	0.55
1:H1:2294:A:P	50:H1:4201:HOH:O	2.56	0.55
1:H1:1475:A:C2	1:H1:2351:A:C4	2.94	0.55
1:H1:2395:G:N7	1:H1:2396:A:N6	2.54	0.55
1:H1:292:C:H5'	1:H1:292:C:H6	1.72	0.55
1:H1:3087:G:H5''	1:H1:3088:U:OP1	2.06	0.55
1:H1:3150:U:H2'	1:H1:3151:G:H5''	1.87	0.55
1:H1:3158:G:H5'	1:H1:3159:A:OP1	2.06	0.55
1:H1:471:A:H2'	1:H1:472:C:O5'	2.06	0.55
1:H1:752:C:H4'	1:H1:1002:A:C4	2.41	0.55
24:GC:40:LYS:HZ1	1:H1:815:U:H1'	1.72	0.55
1:H1:3230:G:C6	5:HE:119:ARG:HD2	2.41	0.55
6:HF:125:SER:O	6:HF:126:LYS:HB2	2.04	0.55
16:HQ:84:HIS:O	16:HQ:87:ALA:HB3	2.06	0.55
1:A1:1180:A:H5'	1:A1:1181:A:OP2	2.07	0.55
1:A1:1918:U:C2'	1:A1:1919:A:C5'	2.67	0.55
1:A1:1958:G:O6	50:A1:4525:HOH:O	2.16	0.55
1:A1:2255:U:C5	1:A1:2256:G:N7	2.75	0.55
1:A1:3059:A:H2'	1:A1:3060:A:C8	2.42	0.55
1:A1:3103:A:H3'	1:A1:3104:G:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3161:A:C6	1:A1:3176:A:C2	2.95	0.55
1:A1:820:G:O2'	1:A1:821:U:H5''	2.07	0.55
1:A1:919:A:C1'	1:A1:920:A:C2	2.90	0.55
5:AE:62:ARG:CZ	6:AF:105:ASP:OD1	2.55	0.55
18:AU:50:GLU:O	18:AU:150:LEU:HD12	2.06	0.55
18:AU:19:ARG:HH11	33:BL:196:GLN:HB3	1.72	0.55
20:B2:76:U:O4'	20:B2:76:U:O2	2.22	0.55
22:BA:253:GLU:OE1	22:BA:253:GLU:HA	2.06	0.55
22:BA:42:ILE:CD1	22:BA:43:ARG:H	2.17	0.55
22:BA:45:CYS:O	22:BA:62:VAL:HA	2.07	0.55
23:BB:162:THR:O	23:BB:162:THR:HG22	2.07	0.55
26:BE:145:GLN:NE2	26:BE:186:MET:O	2.40	0.55
35:BN:167:VAL:HG13	35:BN:169:SER:H	1.72	0.55
37:BP:17:LYS:CE	37:BP:47:SER:HB3	2.37	0.55
43:BV:185:ILE:HA	43:BV:192:PHE:HE1	1.72	0.55
22:CA:181:LEU:HB3	46:CY:18:TYR:CD1	2.42	0.55
23:CB:110:ILE:O	23:CB:115:LYS:HE3	2.05	0.55
23:CB:129:ALA:O	23:CB:130:PHE:HB2	2.05	0.55
23:CB:52:GLY:HA3	23:CB:309:PHE:CD1	2.41	0.55
28:CG:48:UNK:HG1	28:CG:52:UNK:CB	2.37	0.55
29:CH:139:ARG:HD3	29:CH:173:PHE:CD1	2.41	0.55
47:CO:134:ASN:ND2	1:D1:1971:G:H5''	2.22	0.55
37:CP:41:ASP:HB3	37:CP:97:ARG:NH1	2.20	0.55
38:CQ:66:THR:CG2	38:CQ:82:GLN:HE22	2.20	0.55
24:CC:205:ARG:NH2	40:CS:11:ARG:NH1	2.54	0.55
43:CV:31:SER:O	43:CV:35:LYS:HG2	2.07	0.55
44:CW:43:MET:HG3	44:CW:90:THR:HG21	1.88	0.55
44:CW:4:GLN:HE21	44:CW:76:LYS:NZ	2.05	0.55
1:D1:1034:U:C2	1:D1:1069:C:C2	2.95	0.55
1:D1:126:A:C5'	1:D1:127:A:OP1	2.55	0.55
1:D1:1433:A:H5'	1:D1:1434:G:OP2	2.06	0.55
1:D1:1507:A:OP2	1:D1:1507:A:C4'	2.55	0.55
1:D1:1595:A:H2	1:D1:1598:C:OP2	1.90	0.55
1:D1:1595:A:H1'	1:D1:1599:G:C2	2.42	0.55
1:D1:925:G:H1'	1:D1:1614:A:H61	1.71	0.55
1:D1:1701:A:H5''	12:DM:99:SER:HB2	1.88	0.55
1:D1:1901:C:H5'	1:D1:1902:C:C5	2.42	0.55
1:D1:1920:A:P	50:D1:4600:HOH:O	2.50	0.55
1:D1:2369:C:H5'	50:D1:4019:HOH:O	2.07	0.55
1:D1:433:C:O2	1:D1:433:C:H2'	2.05	0.55
1:D1:467:A:N6	1:D1:512:G:C5	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:92:G:H2'	1:D1:93:A:C8	2.42	0.55
2:DA:26:THR:HB	2:DA:34:CYS:SG	2.47	0.55
8:DH:9:VAL:HG12	8:DH:10:ALA:O	2.07	0.55
16:DQ:29:GLN:O	16:DQ:31:LYS:HD3	2.07	0.55
1:D1:295:A:OP1	16:DQ:90:LYS:NZ	2.40	0.55
1:D1:792:G:H5'	18:DU:190:TRP:CD2	2.41	0.55
18:DU:44:VAL:HG12	18:DU:47:ARG:HG3	1.88	0.55
24:CC:380:PHE:HE1	19:DX:22:VAL:HG22	1.71	0.55
22:EA:33:TYR:N	22:EA:164:ARG:NH2	2.52	0.55
23:EB:86:ILE:CD1	23:EB:158:VAL:HG11	2.36	0.55
24:EC:148:ARG:HE	24:EC:187:ARG:HD2	1.71	0.55
29:EH:20:SER:H	29:EH:23:ASN:HB2	1.71	0.55
30:EI:184:PRO:HA	30:EI:187:LYS:CD	2.36	0.55
30:EI:86:MET:CE	1:F1:1202:C:H1'	2.36	0.55
20:E2:137:G:H21	33:EL:112:GLU:CG	2.19	0.55
21:E3:33:U:C6	34:EM:212:TYR:HE1	2.24	0.55
38:EQ:25:ARG:HG3	38:EQ:143:ASN:ND2	2.22	0.55
24:EC:302:ASN:OD1	43:EV:11:LYS:NZ	2.37	0.55
1:F1:1004:U:H4'	1:F1:1005:A:OP2	2.06	0.55
1:F1:1010:G:H4'	1:F1:1011:U:OP2	2.06	0.55
1:F1:118:A:C4'	1:F1:119:A:O5'	2.46	0.55
1:F1:122:U:O2	1:F1:149:U:H1'	2.05	0.55
1:F1:1752:G:H2'	7:FG:85:HIS:NE2	2.20	0.55
1:F1:1853:G:H5''	1:F1:1854:U:H5'	1.87	0.55
1:F1:2106:G:C2'	1:F1:2107:A:OP1	2.54	0.55
1:F1:2132:U:H2'	1:F1:2138:A:H62	1.71	0.55
1:F1:3183:A:HO2'	1:F1:3184:A:P	2.29	0.55
1:F1:3182:A:C4'	1:F1:3183:A:OP1	2.46	0.55
1:F1:596:A:H2'	1:F1:597:A:C8	2.41	0.55
1:F1:611:A:O2'	1:F1:612:C:H5'	2.06	0.55
1:F1:795:G:O2'	1:F1:796:A:H8	1.75	0.55
8:FH:9:VAL:CG1	8:FH:10:ALA:N	2.70	0.55
9:FJ:161:VAL:CG1	9:FJ:162:HIS:N	2.69	0.55
14:FO:15:PHE:O	14:FO:26:THR:N	2.39	0.55
15:FP:32:TYR:CE2	15:FP:75:ILE:HD12	2.42	0.55
21:G3:59:C:H2'	21:G3:60:C:H6	1.70	0.55
22:GA:203:VAL:CG1	22:GA:218:GLN:HG2	2.37	0.55
24:GC:295:ILE:HG22	24:GC:299:ILE:HG13	1.88	0.55
24:GC:328:ASN:OD1	24:GC:329:ALA:N	2.40	0.55
25:GD:133:ARG:HB3	25:GD:134:PRO:CD	2.24	0.55
29:GH:208:ARG:HG3	29:GH:209:LEU:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:289:LEU:HD12	35:GN:24:ASN:ND2	2.22	0.55
43:GV:127:VAL:C	43:GV:129:PRO:HD2	2.26	0.55
43:GV:88:GLY:HA3	1:H1:1185:A:H5''	1.89	0.55
1:H1:1595:A:H1'	1:H1:1599:G:C2	2.42	0.55
1:H1:1637:A:O3'	15:HP:2:PRO:HG3	2.07	0.55
1:H1:1737:A:O2'	1:H1:1738:A:H8	1.86	0.55
24:GC:169:THR:OG1	1:H1:209:A:H2'	2.06	0.55
1:H1:2193:A:O2'	1:H1:2264:U:N3	2.39	0.55
1:H1:2348:G:C5	1:H1:2349:C:C5	2.95	0.55
1:H1:3176:A:C4'	1:H1:3177:G:O5'	2.55	0.55
1:H1:3177:G:C8	1:H1:3177:G:H5''	2.42	0.55
1:H1:439:A:H5''	5:HE:126:HIS:HD1	1.67	0.55
1:H1:582:A:C2'	1:H1:583:G:H5'	2.37	0.55
1:H1:729:A:HO2'	1:H1:810:G:N2	2.02	0.55
2:HA:26:THR:HB	2:HA:34:CYS:SG	2.45	0.55
1:H1:2727:A:O4'	17:HT:37:PRO:HD2	2.06	0.55
19:HX:16:MET:HG2	19:HX:17:LYS:N	2.21	0.55
1:A1:1024:A:O2'	1:A1:1025:G:H5'	2.07	0.55
1:A1:113:A:H2'	1:A1:114:A:OP1	2.07	0.55
1:A1:1228:C:O2	1:A1:1228:C:H2'	2.06	0.55
1:A1:1549:U:C4	39:BR:83:LYS:NZ	2.73	0.55
1:A1:185:A:H2	1:A1:233:G:H22	1.53	0.55
1:A1:1162:A:O5'	1:A1:2631:A:H1'	2.07	0.55
1:A1:3080:A:N3	1:A1:3082:C:O2'	2.38	0.55
1:A1:3155:A:C5	8:AH:102:SER:HB3	2.42	0.55
1:A1:430:G:H2'	1:A1:431:A:H8	1.72	0.55
1:A1:444:A:H2	1:A1:533:G:N2	2.00	0.55
1:A1:624:G:O2'	1:A1:625:C:O4'	2.24	0.55
1:A1:768:A:H4'	35:BN:142:ALA:O	2.07	0.55
1:A1:77:A:C2	1:A1:324:A:C2	2.94	0.55
3:AB:4:ASN:H	3:AB:4:ASN:ND2	2.03	0.55
1:A1:2416:U:OP1	4:AC:57:ARG:NH2	2.36	0.55
4:AC:21:HIS:HA	4:AC:71:ASP:O	2.07	0.55
6:AF:8:GLN:NE2	6:AF:11:ARG:HH11	2.03	0.55
11:AL:9:ARG:HG3	11:AL:34:TYR:CE2	2.42	0.55
16:AQ:46:ARG:HA	33:BL:13:LYS:NZ	2.20	0.55
20:B2:10:U:H2'	20:B2:11:C:C6	2.42	0.55
2:AA:64:ARG:NH1	20:B2:60:C:C4	2.75	0.55
22:BA:113:VAL:CG1	22:BA:134:TYR:HB2	2.36	0.55
22:BA:33:TYR:HA	22:BA:164:ARG:HH21	1.70	0.55
22:BA:31:ARG:NH1	22:BA:42:ILE:HG13	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:280:VAL:HG13	23:BB:320:ILE:HG23	1.88	0.55
24:BC:369:HIS:CE1	43:BV:68:LYS:HZ1	2.25	0.55
30:BI:61:MET:HE3	30:BI:67:ARG:O	2.07	0.55
30:BI:81:ARG:HH11	30:BI:81:ARG:HG3	1.72	0.55
34:BM:81:TYR:O	34:BM:84:LYS:HB2	2.06	0.55
1:A1:1548:U:O4	39:BR:124:ILE:HD11	2.07	0.55
40:BS:34:LEU:HD23	40:BS:105:LEU:HB2	1.88	0.55
20:C2:38:C:H4'	2:DA:71:ILE:CD1	2.37	0.55
24:CC:105:ARG:NE	1:D1:958:A:C6	2.75	0.55
24:CC:139:VAL:N	24:CC:140:PRO:HD2	2.22	0.55
29:CH:48:TYR:HE2	29:CH:142:GLU:HG3	1.70	0.55
31:CJ:32:ASN:HD21	31:CJ:117:GLN:H	1.53	0.55
34:CM:177:GLU:HA	34:CM:180:PHE:CD2	2.35	0.55
35:CN:64:SER:HA	35:CN:88:THR:O	2.06	0.55
38:CQ:25:ARG:HG3	38:CQ:143:ASN:HD21	1.72	0.55
41:CT:48:ALA:HB1	41:CT:54:THR:HG21	1.88	0.55
43:CV:41:TRP:CD1	43:CV:177:CYS:SG	3.00	0.55
46:CY:88:LYS:HG3	46:CY:92:GLU:OE2	2.06	0.55
24:CC:195:ARG:NH2	1:D1:1409:C:P	2.79	0.55
1:D1:1803:U:H2'	1:D1:1804:G:C8	2.41	0.55
1:D1:2252:C:H3'	1:D1:2252:C:H6	1.71	0.55
38:CQ:27:HIS:HE1	1:D1:2350:G:OP2	1.90	0.55
1:D1:292:C:H6	1:D1:292:C:H5'	1.71	0.55
1:D1:581:C:H2'	1:D1:582:A:C5'	2.37	0.55
1:D1:772:U:C2'	1:D1:773:C:H5'	2.36	0.55
2:DA:25:ALA:HB1	3:DB:52:TYR:HD2	1.71	0.55
5:DE:153:GLN:O	5:DE:156:VAL:N	2.39	0.55
20:E2:99:U:H5''	20:E2:100:C:OP2	2.07	0.55
24:EC:65:MET:HE2	24:EC:105:ARG:HG2	1.89	0.55
24:EC:295:ILE:HG22	24:EC:299:ILE:HG13	1.88	0.55
27:EF:196:VAL:HG21	27:EF:204:LEU:HD21	1.89	0.55
27:EF:212:LYS:HG2	27:EF:216:ASN:HD22	1.70	0.55
29:EH:130:ASP:O	29:EH:133:SER:OG	2.24	0.55
30:EI:26:LEU:HD11	30:EI:101:LEU:HB2	1.89	0.55
35:EN:81:ILE:O	35:EN:102:CYS:N	2.30	0.55
38:EQ:59:CYS:HB3	38:EQ:74:GLN:HB2	1.87	0.55
20:E2:39:G:N2	42:EU:90:ARG:HH12	2.04	0.55
46:EY:22:LEU:O	46:EY:26:VAL:HG23	2.07	0.55
1:F1:1034:U:C2	1:F1:1069:C:C2	2.95	0.55
1:F1:1598:C:C4	1:F1:1599:G:C4	2.94	0.55
1:F1:2669:A:H3'	1:F1:2670:U:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2640:G:O2'	1:F1:2784:G:N1	2.39	0.55
1:F1:2814:U:H2'	1:F1:2815:U:H5'	1.88	0.55
1:F1:3055:U:H2'	1:F1:3056:C:H6	1.72	0.55
2:FA:21:ARG:HB2	2:FA:39:TYR:CD1	2.42	0.55
7:FG:27:TYR:HD2	7:FG:52:ARG:HD3	1.70	0.55
1:F1:3109:C:C3'	10:FK:111:ARG:HH12	2.14	0.55
12:FM:32:ILE:CG2	12:FM:60:ASN:HB2	2.37	0.55
20:G2:140:U:H5'	20:G2:140:U:H6	1.72	0.55
21:G3:81:A:C2'	21:G3:82:G:C5'	2.84	0.55
23:GB:56:ILE:CD1	23:GB:76:VAL:HG21	2.36	0.55
24:GC:272:THR:CG2	24:GC:273:TYR:H	2.20	0.55
29:GH:190:LEU:HD22	29:GH:197:VAL:HG11	1.89	0.55
35:GN:89:ASN:OD1	35:GN:90:ASP:N	2.39	0.55
40:GS:79:ILE:HD11	40:GS:100:ALA:HB2	1.89	0.55
42:GU:74:PHE:CB	42:GU:80:LYS:HE3	2.36	0.55
46:GY:74:PRO:N	46:GY:75:PRO:HD2	2.22	0.55
1:H1:1576:C:O2'	1:H1:1577:C:H5'	2.07	0.55
1:H1:2545:A:HO2'	1:H1:2546:A:P	2.30	0.55
1:H1:105:A:O2'	1:H1:323:A:N3	2.37	0.55
1:H1:37:A:H5'	1:H1:38:A:OP2	2.07	0.55
1:H1:513:G:H2'	1:H1:514:U:C6	2.42	0.55
1:H1:70:C:C6	1:H1:72:A:H1'	2.42	0.55
5:HE:135:THR:HB	5:HE:137:GLU:HG2	1.89	0.55
5:HE:153:GLN:O	5:HE:156:VAL:N	2.40	0.55
6:HF:111:VAL:O	6:HF:115:LYS:HG3	2.07	0.55
1:H1:3237:C:N3	8:HH:7:SER:OG	2.39	0.55
9:HJ:39:GLU:CB	9:HJ:43:VAL:HG23	2.36	0.55
1:H1:579:G:H1	19:HX:109:ARG:HH22	1.55	0.55
1:A1:2177:A:H2'	1:A1:2178:A:C5'	2.37	0.55
1:A1:2876:U:O4	1:A1:2898:A:H2'	2.07	0.55
1:A1:2954:G:OP1	50:A1:4182:HOH:O	2.18	0.55
1:A1:3143:A:C2	1:A1:3250:A:C2	2.94	0.55
1:A1:3226:A:C2	5:AE:83:ASN:O	2.60	0.55
1:A1:532:G:OP1	5:AE:127:LYS:NZ	2.40	0.55
1:A1:784:G:H1'	1:A1:796:A:H61	1.72	0.55
1:A1:986:C:H4'	1:A1:987:A:OP2	2.06	0.55
2:AA:16:HIS:HA	2:AA:27:TYR:O	2.05	0.55
4:AC:77:THR:HG22	4:AC:78:LYS:N	2.22	0.55
7:AG:43:PHE:CD2	7:AG:90:MET:HE2	2.42	0.55
9:AJ:201:ASP:O	9:AJ:224:LEU:CD2	2.55	0.55
9:AJ:43:VAL:HG12	9:AJ:44:PRO:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:5:ILE:CD1	11:AL:22:LYS:HG2	2.35	0.55
14:AO:62:LEU:HD11	14:AO:97:ARG:CG	2.36	0.55
17:AT:32:THR:CG2	17:AT:40:LEU:HD21	2.35	0.55
19:AX:88:THR:HG22	19:AX:143:LEU:HD12	1.88	0.55
19:AX:167:LYS:HA	19:AX:188:THR:HG22	1.89	0.55
21:B3:10:C:C6	34:BM:20:TYR:HE1	2.24	0.55
26:BE:45:ILE:HG23	26:BE:55:LEU:HD21	1.89	0.55
1:A1:119:A:H2'	27:BF:100:LYS:HZ1	1.72	0.55
27:BF:62:GLN:NE2	27:BF:229:ILE:HG21	2.22	0.55
29:BH:48:TYR:CE2	29:BH:142:GLU:CG	2.90	0.55
30:BI:184:PRO:HA	30:BI:187:LYS:CD	2.37	0.55
35:BN:114:ILE:CD1	35:BN:121:CYS:SG	2.92	0.55
35:BN:167:VAL:CG1	35:BN:169:SER:O	2.55	0.55
38:BQ:15:LYS:HB3	38:BQ:154:GLU:HG2	1.88	0.55
24:BC:203:ASN:HD21	40:BS:10:ALA:HA	1.72	0.55
21:C3:5:U:H2'	21:C3:6:C:C6	2.41	0.55
21:C3:83:G:C5'	50:C3:304:HOH:O	2.55	0.55
24:CC:191:THR:HG21	24:CC:209:ARG:NH1	2.21	0.55
24:CC:251:HIS:CE1	14:DO:12:ASN:OD1	2.60	0.55
26:CE:42:SER:O	1:D1:3168:A:C4	2.60	0.55
30:CI:92:PRO:HG2	1:D1:656:C:P	2.47	0.55
34:CM:64:ILE:CD1	34:CM:109:LEU:HD22	2.35	0.55
37:CP:150:PRO:HG2	19:DX:138:ILE:HA	1.89	0.55
39:CR:147:ILE:HG23	42:CU:34:ILE:HD13	1.88	0.55
1:D1:1190:U:H2'	1:D1:1191:G:H8	1.71	0.55
1:D1:1446:C:C5'	1:D1:1446:C:C6	2.88	0.55
1:D1:1724:U:O2'	1:D1:1725:A:H5'	2.07	0.55
1:D1:2292:U:H2'	1:D1:2294:A:N7	2.21	0.55
1:D1:114:A:C6	1:D1:264:A:C6	2.95	0.55
44:CW:64:ARG:NH1	1:D1:3069:G:OP2	2.39	0.55
1:D1:790:C:HO2'	1:D1:791:C:H6	1.52	0.55
11:DL:5:ILE:CG2	11:DL:32:ALA:HB2	2.36	0.55
11:DL:74:VAL:HG12	11:DL:75:SER:H	1.71	0.55
13:DN:96:LEU:HD13	13:DN:113:THR:HG22	1.89	0.55
20:E2:134:C:C6	20:E2:134:C:H3'	2.42	0.55
22:EA:32:VAL:HA	22:EA:124:ARG:HH11	1.72	0.55
34:EM:121:GLY:HA2	34:EM:130:PHE:CZ	2.42	0.55
35:EN:45:PHE:CE1	35:EN:139:LEU:HD22	2.42	0.55
35:EN:49:ILE:O	35:EN:53:LEU:HG	2.07	0.55
38:EQ:8:ARG:NH1	38:EQ:118:HIS:HB2	2.03	0.55
1:F1:1228:C:H2'	1:F1:1228:C:O2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1490:G:N2	1:F1:1493:A:OP2	2.38	0.55
1:F1:153:C:O2'	1:F1:154:U:H5'	2.07	0.55
44:EW:33:ARG:HH22	1:F1:1906:G:H5''	1.72	0.55
1:F1:37:A:H5'	1:F1:38:A:OP2	2.07	0.55
1:F1:488:U:C2	1:F1:490:A:OP2	2.60	0.55
1:F1:619:G:HO2'	1:F1:620:A:H2	1.49	0.55
1:F1:848:C:H2'	1:F1:849:U:C6	2.42	0.55
13:FN:70:PRO:CD	13:FN:115:LYS:HG2	2.37	0.55
1:F1:527:A:HO2'	14:FO:88:GLN:HE21	1.53	0.55
1:F1:249:G:O6	18:FU:126:ARG:NH1	2.40	0.55
19:FX:88:THR:HG22	19:FX:143:LEU:HD12	1.88	0.55
22:GA:248:ARG:HA	22:GA:251:GLN:HE21	1.70	0.55
28:GG:7:UNK:HB1	1:H1:1248:G:H1'	1.89	0.55
30:GI:184:PRO:HA	30:GI:187:LYS:CD	2.36	0.55
30:GI:64:ASN:HD22	30:GI:64:ASN:C	2.10	0.55
33:GL:80:VAL:HG11	33:GL:87:VAL:HA	1.87	0.55
34:GM:122:GLN:HB2	34:GM:130:PHE:CD2	2.40	0.55
38:GQ:117:GLN:HA	38:GQ:117:GLN:OE1	2.06	0.55
38:GQ:24:LEU:HD13	38:GQ:92:VAL:HG11	1.89	0.55
40:GS:82:GLU:HG2	40:GS:83:LYS:HG3	1.89	0.55
1:H1:1051:C:C2'	1:H1:1052:A:O4'	2.47	0.55
1:H1:1411:U:C2	1:H1:1412:U:C5	2.95	0.55
1:H1:146:U:C4'	1:H1:147:U:H5'	2.31	0.55
1:H1:167:U:H2'	1:H1:168:G:C8	2.42	0.55
1:H1:2134:A:H3'	1:H1:2135:A:H2'	1.88	0.55
1:H1:2882:U:H2'	1:H1:2883:G:C8	2.42	0.55
1:H1:2416:U:OP1	4:HC:57:ARG:NH2	2.39	0.55
5:HE:78:GLY:H	5:HE:85:VAL:HG12	1.71	0.55
8:HH:15:TRP:CE2	8:HH:105:ARG:HG2	2.42	0.55
8:HH:11:PRO:HG2	8:HH:12:THR:N	2.21	0.55
9:HJ:39:GLU:HA	9:HJ:43:VAL:HG23	1.89	0.55
3:HB:3:ALA:HB2	11:HL:10:ARG:NH1	2.21	0.55
1:H1:1732:C:H1'	11:HL:54:ASN:HD21	1.72	0.55
19:HX:45:ALA:CB	19:HX:50:HIS:HD2	2.20	0.55
19:HX:58:ASN:HD21	19:HX:136:GLN:NE2	2.05	0.55
1:A1:105:A:O2'	1:A1:323:A:N3	2.39	0.55
1:A1:1106:U:O2	1:A1:1110:U:C2	2.60	0.55
1:A1:1375:A:O2'	24:BC:300:ASN:OD1	2.24	0.55
1:A1:1752:G:H2'	7:AG:85:HIS:NE2	2.22	0.55
1:A1:1853:G:H5''	1:A1:1854:U:H5'	1.89	0.55
1:A1:1902:C:HO2'	1:A1:1903:A:P	2.28	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2958:C:C4'	1:A1:2959:A:N7	2.66	0.55
1:A1:359:G:OP1	3:AB:50:LYS:NZ	2.38	0.55
1:A1:581:C:H2'	1:A1:582:A:H5''	1.87	0.55
1:A1:619:G:O5'	1:A1:619:G:H8	1.90	0.55
1:A1:679:C:H5''	45:BX:28:ALA:HB3	1.89	0.55
3:AB:28:ARG:CZ	3:AB:36:ARG:O	2.55	0.55
5:AE:69:LEU:HD21	5:AE:114:ASP:CG	2.27	0.55
18:AU:54:PRO:HG3	18:AU:72:GLY:O	2.07	0.55
22:BA:243:ARG:CZ	22:BA:247:VAL:HG12	2.36	0.55
23:BB:220:LYS:HG2	23:BB:329:PRO:HD3	1.87	0.55
24:BC:14:GLU:HB3	24:BC:17:LYS:HG3	1.88	0.55
25:BD:12:VAL:CG2	25:BD:162:TRP:HD1	2.20	0.55
25:BD:37:LEU:CD1	25:BD:69:VAL:HG23	2.37	0.55
25:BD:16:LYS:HB3	25:BD:72:ARG:HE	1.72	0.55
25:BD:8:LYS:O	25:BD:11:GLU:HG3	2.06	0.55
26:BE:132:ILE:HG23	26:BE:144:LEU:CD2	2.37	0.55
26:BE:1:MET:CG	26:BE:2:ARG:N	2.42	0.55
28:BG:22:UNK:O	28:BG:119:UNK:N	2.40	0.55
1:A1:2841:G:O2'	29:BH:158:LYS:O	2.19	0.55
30:BI:81:ARG:HG3	30:BI:81:ARG:NH1	2.21	0.55
33:BL:179:HIS:O	33:BL:182:LYS:HD3	2.07	0.55
46:BY:73:THR:C	46:BY:75:PRO:HD2	2.26	0.55
23:CB:106:TRP:HB2	23:CB:133:HIS:CE1	2.42	0.55
23:CB:66:ARG:NH1	31:CJ:13:THR:O	2.39	0.55
24:CC:32:PRO:HG2	24:CC:286:GLN:HB3	1.88	0.55
24:CC:300:ASN:OD1	1:D1:1375:A:O2'	2.24	0.55
25:CD:57:PHE:CD1	1:D1:2669:A:C6	2.95	0.55
29:CH:208:ARG:HG3	29:CH:209:LEU:N	2.22	0.55
30:CI:35:VAL:HG12	30:CI:36:ARG:N	2.21	0.55
32:CK:73:PRO:HB2	32:CK:109:PHE:HA	1.89	0.55
35:CN:38:VAL:HG22	35:CN:47:GLN:HA	1.89	0.55
35:CN:53:LEU:O	35:CN:60:LYS:NZ	2.40	0.55
47:CO:120:TYR:HE2	1:D1:1744:A:OP2	1.90	0.55
38:CQ:29:LYS:O	38:CQ:32:TYR:HB3	2.07	0.55
40:CS:107:LYS:O	40:CS:107:LYS:HG3	2.06	0.55
1:D1:1060:C:H2'	1:D1:1061:G:O4'	2.07	0.55
29:CH:15:LYS:HE3	1:D1:1152:U:OP1	2.06	0.55
32:CK:3:SER:OG	1:D1:1454:A:C8	2.58	0.55
39:CR:51:TYR:CE1	1:D1:16:G:OP2	2.60	0.55
1:D1:1972:G:C2	1:D1:1973:A:N7	2.75	0.55
1:D1:302:G:C2	1:D1:2766:A:N7	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:298:G:C2'	1:D1:299:G:H5'	2.36	0.55
1:D1:514:U:H2'	1:D1:515:A:C8	2.41	0.55
1:D1:777:C:H2'	1:D1:778:G:C8	2.42	0.55
3:DB:2:GLY:N	50:DB:103:HOH:O	2.39	0.55
1:D1:439:A:C5'	5:DE:126:HIS:HB3	2.37	0.55
5:DE:142:GLU:OE1	5:DE:142:GLU:HA	2.05	0.55
5:DE:69:LEU:HD21	5:DE:114:ASP:CA	2.37	0.55
7:DG:38:THR:O	7:DG:40:LYS:HE2	2.07	0.55
9:DJ:126:GLU:HG3	9:DJ:137:VAL:HG11	1.87	0.55
1:D1:1880:C:H1'	11:DL:7:TYR:CE1	2.42	0.55
13:DN:104:ASN:O	13:DN:105:ASN:HB3	2.06	0.55
24:CC:18:GLN:NE2	14:DO:70:VAL:O	2.32	0.55
18:DU:52:LEU:HB3	18:DU:93:ILE:HA	1.87	0.55
19:DX:187:THR:HG22	19:DX:188:THR:N	2.21	0.55
22:EA:169:ILE:HG22	22:EA:170:VAL:O	2.07	0.55
24:EC:32:PRO:HG2	24:EC:286:GLN:HB3	1.89	0.55
26:EE:45:ILE:HG12	26:EE:55:LEU:HD22	1.89	0.55
28:EG:97:UNK:O	28:EG:101:UNK:HG3	2.07	0.55
30:EI:81:ARG:HG3	30:EI:81:ARG:NH1	2.22	0.55
36:EO:134:ASN:ND2	1:F1:1971:G:H5''	2.22	0.55
37:EP:91:VAL:CG1	37:EP:96:VAL:HG23	2.36	0.55
46:EY:74:PRO:N	46:EY:75:PRO:HD2	2.21	0.55
1:F1:1148:U:H2'	1:F1:1149:U:C6	2.42	0.55
27:EF:130:ASN:HB2	1:F1:148:G:O6	2.07	0.55
1:F1:2100:A:C3'	1:F1:2101:G:H5''	2.36	0.55
1:F1:2271:G:C5	1:F1:2272:C:C5	2.95	0.55
42:EU:98:LYS:CG	1:F1:242:G:OP1	2.54	0.55
1:F1:114:A:C6	1:F1:264:A:C6	2.94	0.55
1:F1:3055:U:H2'	1:F1:3056:C:C6	2.42	0.55
1:F1:3189:G:H5''	50:F1:4533:HOH:O	2.06	0.55
38:EQ:57:LYS:HE2	1:F1:3259:U:O2'	2.06	0.55
23:EB:170:ARG:NH2	1:F1:3261:U:O2'	2.40	0.55
1:F1:433:C:O2	1:F1:433:C:H2'	2.05	0.55
1:F1:582:A:C2'	1:F1:583:G:H5'	2.37	0.55
5:FE:173:TYR:CE2	6:FF:106:PHE:CA	2.90	0.55
19:FX:124:MET:HE3	19:FX:124:MET:HA	1.89	0.55
6:FF:30:ILE:CG2	19:FX:163:PHE:HE2	2.20	0.55
19:FX:55:PHE:CZ	19:FX:59:MET:HE3	2.42	0.55
21:G3:90:A:C2	29:GH:162:ARG:NH2	2.74	0.55
22:GA:205:MET:HB3	22:GA:209:ASP:HB2	1.88	0.55
23:GB:56:ILE:HD12	23:GB:76:VAL:HG21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:GN:114:ILE:CD1	35:GN:121:CYS:SG	2.94	0.55
35:GN:29:LEU:HA	35:GN:32:LYS:HG3	1.89	0.55
35:GN:30:LEU:HD11	35:GN:124:PHE:HB2	1.89	0.55
43:GV:150:PHE:CD1	43:GV:159:PRO:HA	2.42	0.55
1:H1:1106:U:O2	1:H1:1110:U:C2	2.59	0.55
1:H1:1348:G:H2'	1:H1:1349:U:O5'	2.05	0.55
1:H1:153:C:O2'	1:H1:154:U:H5'	2.07	0.55
1:H1:1745:U:C2	1:H1:1748:U:C5	2.95	0.55
1:H1:1901:C:H5'	1:H1:1902:C:C5	2.42	0.55
1:H1:2324:A:H5''	1:H1:2324:A:C8	2.41	0.55
1:H1:2664:C:O5'	1:H1:2664:C:H6	1.90	0.55
1:H1:2665:G:C5	1:H1:2669:A:N6	2.74	0.55
26:GE:171:ARG:HH22	1:H1:2886:G:P	2.30	0.55
1:H1:53:G:H5'	1:H1:1573:A:O2'	2.07	0.55
1:H1:858:G:H2'	1:H1:859:U:O4'	2.06	0.55
2:HA:21:ARG:NH1	2:HA:39:TYR:HA	2.22	0.55
1:H1:1519:G:N3	3:HB:13:PHE:CE1	2.74	0.55
9:HJ:58:ILE:HG13	9:HJ:62:VAL:CG2	2.37	0.55
1:H1:1828:C:H1'	11:HL:61:PRO:O	2.07	0.55
17:HT:12:GLN:OE1	17:HT:15:LYS:HD2	2.07	0.55
1:A1:1190:U:H2'	1:A1:1191:G:H8	1.72	0.55
1:A1:1375:A:H2'	35:BN:36:PHE:CE2	2.42	0.55
1:A1:1464:U:H2'	1:A1:1465:U:C6	2.42	0.55
1:A1:1576:C:O2'	1:A1:1577:C:H5'	2.07	0.55
1:A1:1599:G:H2'	1:A1:1600:U:O4'	2.07	0.55
1:A1:1729:U:C5	1:A1:1812:G:H1'	2.42	0.55
1:A1:418:G:C6	1:A1:2378:A:O2'	2.59	0.55
1:A1:690:U:H2'	1:A1:691:C:C6	2.42	0.55
5:AE:67:LYS:HB2	5:AE:109:THR:HG21	1.88	0.55
11:AL:9:ARG:O	11:AL:10:ARG:HB2	2.07	0.55
18:AU:164:LYS:HZ1	32:BK:88:THR:CG2	2.20	0.55
1:A1:822:U:H1'	18:AU:8:PRO:HB3	1.88	0.55
24:BC:205:ARG:HB3	24:BC:206:TYR:CE2	2.42	0.55
24:BC:26:PRO:HG2	24:BC:29:PHE:CD1	2.42	0.55
26:BE:12:ILE:HD11	26:BE:53:VAL:CG2	2.37	0.55
34:BM:122:GLN:HB2	34:BM:130:PHE:CE2	2.42	0.55
35:BN:98:LYS:HG3	35:BN:98:LYS:O	2.07	0.55
36:BO:123:PHE:HD2	36:BO:138:LEU:HD11	1.71	0.55
1:A1:1431:U:H1'	45:BX:56:LYS:O	2.07	0.55
20:C2:1:A:H5''	20:C2:2:G:OP1	2.07	0.55
22:CA:104:PRO:HB2	22:CA:106:ASN:OD1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:245:ARG:HG3	1:D1:1913:G:OP2	2.07	0.55
23:CB:253:TRP:CD2	1:D1:2929:A:C8	2.95	0.55
23:CB:294:THR:HG22	23:CB:296:GLY:H	1.72	0.55
25:CD:133:ARG:HB3	25:CD:134:PRO:CD	2.21	0.55
32:CK:99:VAL:HB	18:DU:169:ILE:HD13	1.89	0.55
37:CP:63:LYS:HD2	37:CP:63:LYS:N	2.22	0.55
42:CU:14:THR:HG22	42:CU:15:GLU:H	1.72	0.55
1:D1:1249:G:HO2'	1:D1:1250:A:P	2.30	0.55
1:D1:1379:G:C2	5:DE:22:ASP:OD2	2.60	0.55
1:D1:153:C:O2'	1:D1:154:U:H5'	2.07	0.55
1:D1:2278:G:HO2'	1:D1:2279:C:P	2.29	0.55
1:D1:2634:G:H2'	1:D1:2635:C:C5'	2.37	0.55
1:D1:706:U:P	50:D1:4798:HOH:O	2.54	0.55
1:D1:751:C:C5'	1:D1:751:C:H6	2.20	0.55
1:D1:790:C:O2'	1:D1:791:C:C6	2.60	0.55
4:DC:94:ILE:HA	4:DC:97:ILE:HD12	1.88	0.55
14:DO:6:TRP:CZ3	14:DO:40:LEU:HD12	2.36	0.55
19:DX:42:ARG:HE	19:DX:44:PHE:HE1	1.53	0.55
20:E2:107:C:C5	20:E2:135:A:C5	2.95	0.55
24:EC:95:ALA:HB1	24:EC:101:CYS:SG	2.47	0.55
24:EC:172:ALA:O	24:EC:176:LEU:HG	2.06	0.55
25:ED:77:ARG:HH22	25:ED:166:GLU:CG	2.20	0.55
25:ED:89:MET:HE3	25:ED:89:MET:HA	1.89	0.55
1:F1:1078:U:C6	1:F1:1079:A:C8	2.94	0.55
1:F1:1497:U:H2'	1:F1:1498:U:H6	1.72	0.55
1:F1:2188:U:O2'	1:F1:2189:G:OP2	2.23	0.55
1:F1:2400:C:O2	1:F1:2807:A:N1	2.39	0.55
1:F1:3109:C:H5''	10:FK:111:ARG:HH12	1.72	0.55
1:F1:3146:G:C6	1:F1:3248:C:C4	2.95	0.55
1:F1:3256:A:C2	1:F1:3349:U:C2	2.95	0.55
1:F1:373:A:N3	1:F1:375:G:H5''	2.22	0.55
1:F1:589:C:H2'	1:F1:590:A:H8	1.72	0.55
8:FH:33:ASN:HA	8:FH:94:ASN:HD21	1.72	0.55
13:FN:47:GLU:HB3	13:FN:69:LYS:O	2.07	0.55
22:GA:113:VAL:CG1	22:GA:134:TYR:HB2	2.37	0.55
23:GB:163:ASN:HA	23:GB:174:ASN:OD1	2.07	0.55
24:GC:64:GLY:O	24:GC:97:PHE:HB3	2.06	0.55
25:GD:12:VAL:HG21	25:GD:162:TRP:HD1	1.72	0.55
29:GH:174:THR:HG22	29:GH:175:LYS:N	2.22	0.55
31:GJ:108:ASN:HD21	31:GJ:110:LYS:HB2	1.72	0.55
31:GJ:32:ASN:ND2	31:GJ:117:GLN:H	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:GJ:41:ILE:HD13	1:H1:2290:A:C4	2.42	0.55
33:GL:15:GLN:OE1	16:HQ:52:ALA:CB	2.55	0.55
34:GM:56:THR:HB	34:GM:59:ARG:O	2.07	0.55
37:GP:112:ASN:HB3	37:GP:128:THR:OG1	2.07	0.55
45:GX:6:VAL:HG23	45:GX:92:ARG:O	2.06	0.55
1:H1:1226:C:H4'	1:H1:1227:A:OP2	2.04	0.55
1:H1:1211:A:H1'	1:H1:1350:G:N2	2.22	0.55
32:GK:21:ARG:HD2	1:H1:1396:A:H5''	1.89	0.55
1:H1:139:A:HO2'	1:H1:140:A:H8	1.53	0.55
1:H1:1884:G:H2'	1:H1:1885:G:H5'	1.88	0.55
1:H1:2429:U:H1'	1:H1:2430:G:OP1	2.07	0.55
1:H1:2568:G:C6	1:H1:2569:A:N6	2.75	0.55
1:H1:3344:U:C4'	1:H1:3345:A:OP2	2.54	0.55
1:H1:489:A:H2'	1:H1:490:A:C8	2.42	0.55
1:H1:511:U:O2'	1:H1:512:G:H5'	2.07	0.55
1:H1:566:U:C2'	1:H1:567:C:H5'	2.37	0.55
1:H1:72:A:C2	1:H1:73:G:C5	2.95	0.55
1:H1:826:A:O3'	50:H1:3784:HOH:O	2.18	0.55
6:HF:13:VAL:HG13	6:HF:53:VAL:HG13	1.89	0.55
8:HH:18:ALA:HB2	8:HH:39:LEU:CD2	2.37	0.55
13:HN:70:PRO:HD2	13:HN:115:LYS:HG2	1.89	0.55
16:HQ:6:ALA:O	16:HQ:7:VAL:CB	2.55	0.55
1:A1:1044:G:C2'	1:A1:1045:G:H5'	2.37	0.54
1:A1:1596:U:H4'	1:A1:1597:U:OP2	2.05	0.54
1:A1:2359:G:H22	1:A1:2391:G:H1'	1.71	0.54
1:A1:3081:C:O2'	1:A1:3083:A:OP2	2.10	0.54
1:A1:3310:U:H4'	1:A1:3311:U:OP2	2.01	0.54
1:A1:373:A:N3	1:A1:375:G:H5''	2.23	0.54
1:A1:752:C:H4'	1:A1:1002:A:C4	2.41	0.54
1:A1:358:C:C4'	1:A1:842:A:N6	2.69	0.54
5:AE:15:ILE:HA	5:AE:18:TRP:CE2	2.42	0.54
5:AE:54:LEU:HB2	5:AE:94:TYR:O	2.06	0.54
5:AE:85:VAL:HG12	5:AE:85:VAL:O	2.06	0.54
6:AF:106:PHE:HD2	6:AF:110:ARG:NE	2.01	0.54
12:AM:38:PHE:CG	12:AM:85:TYR:HD1	2.25	0.54
21:B3:10:C:C4	34:BM:20:TYR:CD1	2.94	0.54
24:BC:32:PRO:HG2	24:BC:286:GLN:HB3	1.89	0.54
24:BC:338:LYS:O	24:BC:341:LYS:HB2	2.07	0.54
33:BL:26:ARG:CZ	33:BL:43:SER:OG	2.55	0.54
34:BM:155:THR:OG1	34:BM:179:ARG:HD3	2.07	0.54
35:BN:13:LYS:HE2	35:BN:15:SER:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:45:G:C2'	20:C2:46:A:H5'	2.37	0.54
22:CA:30:TYR:OH	22:CA:166:THR:OG1	2.25	0.54
23:CB:303:ILE:CD1	23:CB:319:PHE:CE1	2.90	0.54
24:CC:195:ARG:NH1	24:CC:204:ARG:HB3	2.21	0.54
24:CC:229:ASN:HD21	1:D1:211:A:C3'	2.20	0.54
29:CH:47:PRO:HD2	29:CH:141:LYS:HD3	1.89	0.54
47:CO:86:ASN:OD1	47:CO:90:PRO:HA	2.07	0.54
1:D1:1148:U:H2'	1:D1:1149:U:C6	2.42	0.54
1:D1:1600:U:C2'	1:D1:1601:U:H5'	2.37	0.54
1:D1:1932:A:OP2	50:D1:4206:HOH:O	2.17	0.54
1:D1:2388:G:O2'	1:D1:2389:G:OP2	2.22	0.54
1:D1:70:C:C6	1:D1:72:A:H1'	2.42	0.54
1:D1:978:G:H1'	1:D1:1142:G:H5''	1.89	0.54
5:DE:164:VAL:HG13	5:DE:170:LEU:HG	1.89	0.54
22:EA:16:VAL:HG21	1:F1:936:C:H5''	1.87	0.54
23:EB:220:LYS:HG2	23:EB:329:PRO:HD3	1.88	0.54
23:EB:26:ARG:HD2	23:EB:177:LEU:HD21	1.89	0.54
24:EC:137:ALA:C	24:EC:138:LEU:HD23	2.27	0.54
24:EC:161:ASP:OD1	24:EC:260:GLU:HB2	2.07	0.54
32:EK:117:ARG:NH1	32:EK:137:ARG:CZ	2.69	0.54
34:EM:163:LEU:CD1	34:EM:173:ILE:HG21	2.37	0.54
38:EQ:29:LYS:O	38:EQ:32:TYR:HB3	2.07	0.54
46:EY:33:GLN:HG3	46:EY:34:HIS:CD2	2.43	0.54
1:F1:1005:A:O2'	1:F1:1006:C:H5'	2.06	0.54
1:F1:1062:A:C5	1:F1:1063:C:C5	2.95	0.54
1:F1:1187:C:OP1	1:F1:1359:A:H5''	2.06	0.54
1:F1:155:A:H5''	1:F1:156:A:C8	2.43	0.54
1:F1:1592:G:C6	1:F1:1593:A:C6	2.95	0.54
1:F1:1715:U:H2'	1:F1:1716:U:H6	1.72	0.54
1:F1:1819:C:H4'	1:F1:1820:U:OP2	2.07	0.54
1:F1:2264:U:H2'	1:F1:2265:A:O5'	2.07	0.54
1:F1:281:G:C4'	1:F1:282:G:C8	2.89	0.54
1:F1:2862:G:HO2'	1:F1:2863:U:H6	1.51	0.54
1:F1:3110:U:C4	1:F1:3113:G:O6	2.61	0.54
1:F1:3266:G:C2'	1:F1:3267:A:H5''	2.37	0.54
1:F1:430:G:H2'	1:F1:431:A:H8	1.72	0.54
1:F1:790:C:O2'	1:F1:791:C:C6	2.60	0.54
1:F1:926:A:H2'	1:F1:927:G:C8	2.42	0.54
1:F1:528:C:OP1	5:FE:15:ILE:HG12	2.08	0.54
1:F1:3232:A:H4'	5:FE:55:ALA:CB	2.37	0.54
9:FJ:224:LEU:O	9:FJ:225:ASN:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:FK:120:SER:O	10:FK:121:LEU:HD23	2.07	0.54
14:FO:114:PHE:O	14:FO:117:ALA:HB3	2.08	0.54
32:EK:100:PRO:HA	18:FU:164:LYS:CD	2.37	0.54
19:FX:110:ASP:OD1	19:FX:111:VAL:N	2.35	0.54
20:G2:111:A:H4'	20:G2:112:G:OP1	2.07	0.54
23:GB:170:ARG:NH1	1:H1:3273:U:O2	2.40	0.54
23:GB:28:ARG:H	23:GB:272:HIS:CE1	2.24	0.54
23:GB:281:TYR:CB	23:GB:321:MET:HE3	2.37	0.54
25:GD:162:TRP:CZ3	25:GD:167:PHE:HE2	2.25	0.54
32:GK:117:ARG:NH1	32:GK:137:ARG:CZ	2.70	0.54
32:GK:98:LYS:HD2	18:HU:164:LYS:O	2.05	0.54
33:GL:139:HIS:CD2	33:GL:141:ALA:HB3	2.43	0.54
33:GL:80:VAL:CG1	33:GL:87:VAL:HG13	2.34	0.54
21:G3:1:G:H4'	34:GM:275:LYS:CE	2.36	0.54
35:GN:98:LYS:HG3	35:GN:98:LYS:O	2.07	0.54
1:H1:1005:A:O2'	1:H1:1006:C:H5'	2.06	0.54
1:H1:101:G:C8	50:H1:3650:HOH:O	2.53	0.54
1:H1:1191:G:H5''	8:HH:33:ASN:ND2	2.21	0.54
1:H1:1517:G:OP2	50:H1:4125:HOH:O	2.18	0.54
1:H1:1740:U:O3'	1:H1:1741:U:H4'	2.07	0.54
1:H1:1807:C:H2'	1:H1:1808:A:C8	2.43	0.54
1:H1:1845:U:C4'	1:H1:1846:C:OP2	2.55	0.54
1:H1:1973:A:H2'	1:H1:1974:U:C6	2.42	0.54
1:H1:2227:A:H1'	1:H1:2423:U:O2'	2.07	0.54
1:H1:2400:C:H6	1:H1:2400:C:H5'	1.71	0.54
1:H1:2539:A:C2	1:H1:2540:G:C5	2.96	0.54
1:H1:2632:A:H2'	1:H1:2634:G:OP2	2.06	0.54
1:H1:3240:A:H2'	1:H1:3241:U:O4'	2.07	0.54
1:H1:426:A:H4'	8:HH:94:ASN:O	2.06	0.54
1:H1:837:G:N3	2:HA:50:TRP:NE1	2.52	0.54
45:GX:57:ILE:CG1	1:H1:972:U:H5''	2.29	0.54
5:HE:173:TYR:CD2	6:HF:106:PHE:HA	2.42	0.54
8:HH:9:VAL:HG12	8:HH:10:ALA:O	2.07	0.54
8:HH:84:ASN:O	8:HH:86:VAL:N	2.39	0.54
17:HT:17:HIS:CE1	17:HT:21:ILE:HD11	2.42	0.54
1:H1:1321:A:OP1	19:HX:99:THR:HG21	2.07	0.54
1:A1:1055:A:H2'	1:A1:1056:A:H8	1.72	0.54
1:A1:114:A:H4'	16:AQ:37:ARG:NH2	2.14	0.54
1:A1:2384:C:O2'	1:A1:2385:A:H5'	2.06	0.54
1:A1:2537:C:H2'	1:A1:2538:C:C6	2.42	0.54
1:A1:3158:G:H5'	1:A1:3159:A:OP1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3177:G:C8	1:A1:3177:G:H5''	2.41	0.54
1:A1:3178:U:H5''	6:AF:97:LYS:HZ1	1.72	0.54
1:A1:370:G:N2	1:A1:373:A:C8	2.75	0.54
1:A1:701:A:H4'	1:A1:702:G:O5'	2.06	0.54
1:A1:899:U:OP2	23:BB:239:LYS:HG3	2.07	0.54
1:A1:927:G:C5	1:A1:928:U:C5	2.95	0.54
1:A1:832:A:H61	1:A1:959:G:H22	1.56	0.54
20:B2:111:A:H4'	20:B2:112:G:OP1	2.05	0.54
1:A1:2517:G:O6	22:BA:71:LYS:CE	2.54	0.54
24:BC:276:THR:HG21	24:BC:282:GLY:HA2	1.88	0.54
25:BD:32:LYS:HD3	25:BD:119:SER:O	2.07	0.54
27:BF:46:ARG:O	39:BR:37:PHE:HB2	2.07	0.54
29:BH:138:VAL:HG23	29:BH:152:LEU:HD11	1.88	0.54
30:BI:35:VAL:HG13	30:BI:106:GLY:O	2.08	0.54
1:A1:1454:A:C8	32:BK:3:SER:OG	2.59	0.54
33:BL:58:GLY:O	33:BL:142:ILE:HD11	2.06	0.54
38:BQ:8:ARG:HH11	38:BQ:118:HIS:CB	2.10	0.54
1:A1:2107:A:O2'	41:BT:44:ARG:NH2	2.40	0.54
14:AO:31:VAL:O	45:BX:89:MET:CE	2.55	0.54
21:C3:1:G:H4'	34:CM:275:LYS:NZ	2.21	0.54
22:CA:30:TYR:CB	22:CA:164:ARG:HH11	2.19	0.54
22:CA:33:TYR:N	22:CA:164:ARG:NH2	2.53	0.54
23:CB:280:VAL:HG13	23:CB:320:ILE:HG23	1.89	0.54
24:CC:259:THR:HG22	24:CC:260:GLU:H	1.70	0.54
25:CD:6:GLU:HA	25:CD:6:GLU:OE1	2.07	0.54
25:CD:8:LYS:O	25:CD:11:GLU:HG3	2.07	0.54
27:CF:62:GLN:NE2	27:CF:229:ILE:HG21	2.23	0.54
29:CH:190:LEU:HD22	29:CH:197:VAL:HG11	1.89	0.54
32:CK:23:GLY:O	32:CK:24:LYS:O	2.25	0.54
35:CN:173:LYS:CE	1:D1:87:A:OP2	2.56	0.54
38:CQ:107:LYS:CB	38:CQ:109:LEU:HG	2.38	0.54
39:CR:38:PHE:CD2	1:D1:1605:G:C2	2.95	0.54
39:CR:147:ILE:CG2	42:CU:34:ILE:HD13	2.37	0.54
43:CV:42:ILE:HG22	43:CV:46:GLN:NE2	2.22	0.54
44:CW:11:THR:OG1	44:CW:105:THR:HG23	2.07	0.54
1:D1:1088:A:H5''	1:D1:1089:G:H5'	1.90	0.54
1:D1:139:A:HO2'	1:D1:140:A:H8	1.54	0.54
1:D1:1693:U:H2'	1:D1:1694:C:C6	2.42	0.54
1:D1:1919:A:O2'	1:D1:1920:A:C8	2.58	0.54
1:D1:2244:G:O2'	1:D1:2245:G:H5'	2.07	0.54
1:D1:2743:G:C3'	1:D1:2744:C:H5'	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:182:LYS:HE2	1:D1:281:G:O6	2.07	0.54
1:D1:282:G:N2	1:D1:304:U:H5'	2.21	0.54
23:CB:259:ARG:NH1	1:D1:2871:U:O2'	2.41	0.54
1:D1:2884:A:O3'	10:DK:122:ARG:NH2	2.40	0.54
1:D1:2886:G:H8	1:D1:2886:G:H3'	1.71	0.54
1:D1:282:G:N2	1:D1:304:U:C4'	2.62	0.54
1:D1:3104:G:H5''	50:D1:4400:HOH:O	2.07	0.54
1:D1:430:G:H2'	1:D1:431:A:C8	2.42	0.54
1:D1:619:G:H8	1:D1:619:G:O5'	1.90	0.54
5:DE:58:PHE:CD2	5:DE:85:VAL:HG22	2.42	0.54
9:DJ:186:ILE:HD11	9:DJ:206:CYS:HB2	1.89	0.54
15:DP:29:LYS:HB3	15:DP:72:TYR:CE2	2.43	0.54
42:CU:120:PHE:HA	18:DU:122:VAL:O	2.07	0.54
19:DX:88:THR:O	19:DX:143:LEU:HB2	2.08	0.54
20:E2:10:U:H2'	20:E2:11:C:H6	1.72	0.54
20:E2:25:U:C4'	20:E2:26:A:OP1	2.54	0.54
38:EQ:36:ARG:NH1	38:EQ:64:ARG:HG3	2.21	0.54
43:EV:31:SER:O	43:EV:35:LYS:HG2	2.07	0.54
46:EY:57:CYS:SG	46:EY:59:PRO:HD2	2.48	0.54
1:F1:146:U:H5''	1:F1:146:U:H6	1.71	0.54
1:F1:1600:U:C2'	1:F1:1601:U:H5'	2.37	0.54
1:F1:1627:A:C6	1:F1:1628:A:C6	2.96	0.54
1:F1:2394:A:C8	50:F1:4139:HOH:O	2.60	0.54
1:F1:2539:A:C2	1:F1:2540:G:C5	2.96	0.54
1:F1:418:G:C6	1:F1:2378:A:O2'	2.58	0.54
1:F1:530:C:H2'	1:F1:531:C:C6	2.41	0.54
1:F1:3237:C:N3	8:FH:7:SER:OG	2.40	0.54
18:FU:50:GLU:O	18:FU:150:LEU:HD12	2.08	0.54
1:F1:256:A:H4'	18:FU:84:SER:HB3	1.88	0.54
19:FX:45:ALA:CB	19:FX:50:HIS:HD2	2.20	0.54
20:G2:25:U:C4'	20:G2:26:A:OP1	2.53	0.54
23:GB:57:LEU:HB3	23:GB:356:PHE:HB3	1.90	0.54
24:GC:117:HIS:HB2	33:GL:202:ARG:O	2.06	0.54
25:GD:134:PRO:HG2	25:GD:135:GLY:H	1.72	0.54
28:GG:97:UNK:O	28:GG:101:UNK:HG3	2.07	0.54
33:GL:102:ALA:O	33:GL:106:VAL:HG23	2.06	0.54
36:GO:146:LYS:HA	36:GO:149:LYS:CB	2.37	0.54
1:H1:1035:A:H2'	1:H1:1036:G:C8	2.42	0.54
1:H1:1039:G:O2'	1:H1:1041:C:N4	2.29	0.54
1:H1:3071:C:C2'	1:H1:3072:G:H5'	2.37	0.54
1:H1:3257:U:H2'	1:H1:3258:C:H6	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:581:C:H2'	1:H1:582:A:C5'	2.37	0.54
3:HB:33:THR:CG2	3:HB:35:ILE:H	2.06	0.54
7:HG:60:ALA:HB3	7:HG:67:ILE:HD11	1.89	0.54
8:HH:70:TYR:O	8:HH:71:ARG:HG3	2.07	0.54
9:HJ:140:THR:CG2	9:HJ:141:THR:H	2.15	0.54
11:HL:98:GLU:OE1	11:HL:98:GLU:HA	2.07	0.54
7:HG:35:ARG:HH11	13:HN:77:LEU:HB2	1.69	0.54
19:HX:16:MET:HG2	19:HX:17:LYS:H	1.72	0.54
1:A1:1070:U:C2'	1:A1:1071:C:O5'	2.55	0.54
1:A1:1146:C:N4	17:AT:10:LYS:HZ3	2.05	0.54
1:A1:1674:C:C4'	22:BA:70:TYR:HD2	2.20	0.54
1:A1:1866:A:H4'	1:A1:1867:C:OP2	2.07	0.54
1:A1:2208:A:H2'	1:A1:2209:A:C8	2.42	0.54
1:A1:268:G:N2	1:A1:294:A:OP2	2.36	0.54
1:A1:397:A:HO2'	1:A1:400:C:HO2'	1.51	0.54
1:A1:977:A:H2'	1:A1:978:G:H5''	1.89	0.54
11:AL:74:VAL:HG12	11:AL:75:SER:H	1.71	0.54
14:AO:50:LEU:HD13	14:AO:111:LEU:CD2	2.37	0.54
18:AU:54:PRO:HG3	18:AU:72:GLY:C	2.28	0.54
23:BB:46:PHE:CD1	23:BB:206:ILE:HD12	2.42	0.54
24:BC:308:VAL:CG1	35:BN:40:ARG:NH1	2.66	0.54
24:BC:89:THR:CG2	24:BC:91:ARG:HB3	2.37	0.54
19:AX:164:PRO:HG2	26:BE:58:TRP:CE2	2.42	0.54
28:BG:4:UNK:HG3	28:BG:6:UNK:CG	2.25	0.54
1:A1:2633:C:C2'	29:BH:116:ARG:O	2.55	0.54
29:BH:189:LYS:O	29:BH:200:ILE:HG13	2.07	0.54
34:BM:138:GLU:HA	34:BM:138:GLU:OE1	2.06	0.54
34:BM:175:HIS:CD2	34:BM:180:PHE:CE2	2.93	0.54
24:BC:308:VAL:HG12	35:BN:40:ARG:NH1	2.22	0.54
36:BO:145:SER:OG	36:BO:150:ILE:HD11	2.05	0.54
38:BQ:33:GLU:OE1	38:BQ:62:PHE:CA	2.51	0.54
40:BS:15:ARG:O	40:BS:19:PHE:HD1	1.91	0.54
46:BY:13:LYS:HE3	46:BY:14:TYR:CE2	2.43	0.54
20:C2:114:G:C3'	20:C2:114:G:C8	2.91	0.54
25:CD:157:GLU:HA	25:CD:160:ILE:HD12	1.89	0.54
27:CF:152:PRO:HB2	27:CF:154:GLU:OE1	2.07	0.54
29:CH:166:VAL:HG12	29:CH:167:THR:N	2.22	0.54
30:CI:26:LEU:HD11	30:CI:101:LEU:HB2	1.88	0.54
32:CK:21:ARG:HH12	45:CX:40:ILE:HG22	1.72	0.54
33:CL:183:SER:CA	33:CL:191:ASN:ND2	2.65	0.54
35:CN:73:ASN:N	35:CN:76:ASN:HB2	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CN:81:ILE:O	35:CN:102:CYS:N	2.30	0.54
37:CP:17:LYS:HE3	37:CP:47:SER:HB3	1.88	0.54
43:CV:173:PHE:HD1	43:CV:191:HIS:CE1	2.25	0.54
44:CW:71:ARG:HD3	44:CW:103:LEU:HD13	1.89	0.54
46:CY:74:PRO:N	46:CY:75:PRO:HD2	2.22	0.54
35:CN:36:PHE:CE2	1:D1:1375:A:H2'	2.41	0.54
1:D1:1595:A:OP2	1:D1:1596:U:C5	2.60	0.54
1:D1:1819:C:H4'	1:D1:1820:U:OP2	2.06	0.54
1:D1:2521:A:C6	1:D1:2522:A:C6	2.94	0.54
1:D1:2873:C:O2'	1:D1:2874:U:H5'	2.06	0.54
1:D1:752:C:H4'	1:D1:1002:A:C4	2.43	0.54
7:DG:57:GLU:HA	7:DG:67:ILE:HD11	1.89	0.54
22:EA:68:TYR:CD1	1:F1:2519:A:N6	2.75	0.54
23:EB:162:THR:HG22	23:EB:162:THR:O	2.07	0.54
25:ED:162:TRP:CZ3	25:ED:167:PHE:HE2	2.25	0.54
25:ED:8:LYS:O	25:ED:11:GLU:HG3	2.07	0.54
26:EE:70:SER:HB3	1:F1:3101:G:O2'	2.06	0.54
27:EF:143:LEU:HD22	27:EF:211:PHE:CD2	2.42	0.54
21:E3:63:A:H2'	29:EH:202:GLU:O	2.07	0.54
32:EK:74:VAL:CG1	32:EK:113:LEU:HG	2.37	0.54
33:EL:164:LEU:HD23	33:EL:172:ARG:HH22	1.72	0.54
45:EX:79:ARG:NH1	1:F1:1448:G:O4'	2.41	0.54
1:F1:1599:G:H2'	1:F1:1600:U:O4'	2.07	0.54
1:F1:1653:A:C5	1:F1:1839:A:N1	2.75	0.54
1:F1:1752:G:C5'	1:F1:1753:A:H3'	2.34	0.54
1:F1:1802:U:H2'	1:F1:1803:U:C6	2.43	0.54
1:F1:1922:G:C2'	1:F1:1923:G:O5'	2.56	0.54
1:F1:2277:U:O2'	1:F1:2278:G:OP1	2.23	0.54
1:F1:232:C:HO2'	1:F1:233:G:P	2.29	0.54
1:F1:302:G:N2	1:F1:2766:A:C8	2.76	0.54
1:F1:3229:C:O2	1:F1:3229:C:H2'	2.08	0.54
1:F1:919:A:H1'	1:F1:920:A:C2	2.42	0.54
5:FE:126:HIS:CD2	5:FE:127:LYS:HG2	2.41	0.54
9:FJ:135:VAL:CG1	9:FJ:136:GLU:N	2.70	0.54
9:FJ:63:THR:HA	9:FJ:104:LEU:HB2	1.89	0.54
1:F1:1654:G:H5'	13:FN:67:SER:OG	2.06	0.54
16:FQ:68:LYS:HE3	16:FQ:69:ASP:OD1	2.06	0.54
16:FQ:61:LEU:O	16:FQ:69:ASP:HB3	2.08	0.54
32:EK:99:VAL:O	18:FU:164:LYS:HB3	2.08	0.54
22:GA:169:ILE:HG22	22:GA:170:VAL:O	2.08	0.54
24:GC:163:VAL:HG22	24:GC:175:PHE:HE2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:376:TRP:HB3	1:H1:564:A:HO2'	1.72	0.54
31:GJ:75:LYS:HE2	1:H1:2289:U:OP2	2.08	0.54
32:GK:42:HIS:CE1	1:H1:38:A:C2	2.96	0.54
46:GY:33:GLN:HG3	46:GY:34:HIS:CD2	2.42	0.54
1:H1:1803:U:H2'	1:H1:1804:G:C8	2.41	0.54
1:H1:2597:G:O2'	1:H1:2598:A:H5'	2.06	0.54
1:H1:2634:G:H2'	1:H1:2635:C:C5'	2.36	0.54
1:H1:2658:U:H2'	1:H1:2659:G:C8	2.43	0.54
1:H1:3044:A:H5''	1:H1:3045:A:OP2	2.07	0.54
6:HF:56:THR:O	6:HF:57:LYS:CG	2.44	0.54
9:HJ:43:VAL:HG12	9:HJ:44:PRO:HD3	1.90	0.54
15:HP:15:TRP:CZ3	15:HP:69:PRO:HD3	2.41	0.54
1:A1:1027:G:HO2'	1:A1:1028:A:P	2.31	0.54
1:A1:1102:U:H2'	17:AT:45:ARG:HH12	1.72	0.54
1:A1:1519:G:C2	3:AB:13:PHE:CZ	2.94	0.54
1:A1:1595:A:H2	1:A1:1598:C:OP2	1.89	0.54
1:A1:1747:A:N1	1:A1:1814:U:O2'	2.36	0.54
1:A1:2274:A:H5'	1:A1:2300:G:H22	1.73	0.54
1:A1:3298:U:H6	1:A1:3298:U:OP2	1.89	0.54
1:A1:564:A:O2'	24:BC:376:TRP:CB	2.54	0.54
1:A1:582:A:C2'	1:A1:583:G:H5'	2.37	0.54
4:AC:19:THR:HG22	4:AC:20:ASN:O	2.08	0.54
1:A1:3228:U:C4	5:AE:146:LYS:HG3	2.42	0.54
1:A1:2544:U:O4'	7:AG:50:THR:HG21	2.06	0.54
8:AH:15:TRP:CE2	8:AH:105:ARG:HG2	2.41	0.54
8:AH:9:VAL:HG12	8:AH:10:ALA:O	2.06	0.54
14:AO:7:GLU:HB3	35:BN:25:VAL:HG13	1.89	0.54
18:AU:44:VAL:HG12	18:AU:47:ARG:HG3	1.89	0.54
20:B2:114:G:C8	20:B2:114:G:C3'	2.91	0.54
1:A1:1372:A:N3	24:BC:314:THR:HG21	2.23	0.54
25:BD:162:TRP:CH2	25:BD:167:PHE:HE2	2.26	0.54
1:A1:117:G:N2	27:BF:127:TYR:CZ	2.75	0.54
1:A1:967:U:O4	32:BK:24:LYS:CD	2.56	0.54
34:BM:122:GLN:HB2	34:BM:130:PHE:CD2	2.43	0.54
34:BM:56:THR:HB	34:BM:59:ARG:O	2.06	0.54
36:BO:106:LEU:HB3	36:BO:120:TYR:HE1	1.73	0.54
1:A1:242:G:OP1	42:BU:98:LYS:HG2	2.08	0.54
44:BW:75:CYS:O	44:BW:90:THR:HA	2.08	0.54
22:CA:117:VAL:HG11	22:CA:149:ILE:CD1	2.38	0.54
22:CA:20:HIS:ND1	1:D1:848:C:H5'	2.22	0.54
23:CB:381:ASP:HB3	23:CB:384:LYS:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CD:28:ASP:O	25:CD:32:LYS:HG3	2.07	0.54
26:CE:130:VAL:HG22	26:CE:152:VAL:HG22	1.89	0.54
28:CG:22:UNK:O	28:CG:119:UNK:N	2.41	0.54
29:CH:17:TYR:O	29:CH:96:VAL:HG23	2.06	0.54
30:CI:186:LEU:HD11	6:DF:122:SER:CB	2.26	0.54
32:CK:89:ARG:O	32:CK:121:GLN:NE2	2.40	0.54
33:CL:177:LYS:HG2	33:CL:185:ARG:NH2	2.21	0.54
35:CN:13:LYS:HE2	35:CN:15:SER:HB3	1.88	0.54
32:CK:49:LYS:O	35:CN:156:PRO:O	2.26	0.54
37:CP:15:PHE:HE2	37:CP:52:MET:HE1	1.72	0.54
40:CS:57:ILE:HG22	40:CS:63:LYS:HA	1.89	0.54
41:CT:27:ASP:HB2	41:CT:29:ARG:HG3	1.88	0.54
1:D1:1402:G:O2'	1:D1:1403:C:H5'	2.08	0.54
1:D1:141:C:C2'	1:D1:142:A:H5'	2.37	0.54
1:D1:1599:G:C4	1:D1:1600:U:C6	2.96	0.54
1:D1:2177:A:H2'	1:D1:2178:A:C5'	2.37	0.54
1:D1:2225:C:N4	50:D1:4685:HOH:O	1.97	0.54
1:D1:2384:C:O2'	1:D1:2385:A:H5'	2.08	0.54
1:D1:2669:A:H4'	1:D1:2670:U:OP1	2.06	0.54
1:D1:2814:U:H2'	1:D1:2815:U:H5'	1.90	0.54
1:D1:3123:A:P	50:D1:4814:HOH:O	2.66	0.54
1:D1:3146:G:C6	1:D1:3248:C:C4	2.96	0.54
1:D1:589:C:H2'	1:D1:590:A:H8	1.73	0.54
47:CO:95:TRP:CH2	1:D1:880:U:H4'	2.43	0.54
4:DC:65:LYS:HG3	4:DC:85:ARG:HE	1.73	0.54
5:DE:126:HIS:CD2	5:DE:127:LYS:HG2	2.43	0.54
11:DL:59:VAL:HG11	11:DL:63:GLU:HB3	1.88	0.54
14:DO:62:LEU:HD11	14:DO:97:ARG:CD	2.37	0.54
15:DP:53:PHE:HE1	15:DP:55:THR:CG2	2.20	0.54
20:E2:111:A:H4'	20:E2:112:G:OP1	2.08	0.54
22:EA:113:VAL:CG1	22:EA:134:TYR:HB2	2.37	0.54
23:EB:381:ASP:HB3	23:EB:384:LYS:CB	2.38	0.54
23:EB:46:PHE:CD1	23:EB:206:ILE:HD12	2.41	0.54
27:EF:68:PRO:CD	27:EF:225:TRP:HE1	2.20	0.54
29:EH:142:GLU:N	29:EH:143:PRO:HD2	2.22	0.54
35:EN:114:ILE:CD1	35:EN:121:CYS:SG	2.95	0.54
40:ES:43:ASN:O	40:ES:125:LEU:CD1	2.54	0.54
43:EV:41:TRP:HZ3	1:F1:628:A:C2	2.25	0.54
1:F1:63:A:C4	1:F1:108:G:N7	2.75	0.54
1:F1:1185:A:O2'	1:F1:1357:A:H2	1.90	0.54
1:F1:1866:A:H4'	1:F1:1867:C:OP2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:302:G:C2	1:F1:2766:A:N7	2.76	0.54
1:F1:3190:A:C6	1:F1:3191:G:N2	2.76	0.54
1:F1:77:A:H2'	1:F1:78:G:H8	1.73	0.54
1:F1:790:C:H5''	1:F1:791:C:OP1	2.08	0.54
2:FA:21:ARG:HB2	2:FA:39:TYR:HD1	1.73	0.54
1:F1:3227:A:O2'	5:FE:86:PRO:HG3	2.08	0.54
33:EL:196:GLN:HB3	18:FU:19:ARG:HD2	1.90	0.54
21:G3:20:U:O2'	21:G3:21:G:H5'	2.07	0.54
23:GB:46:PHE:CD1	23:GB:206:ILE:HD12	2.43	0.54
23:GB:281:TYR:HB2	23:GB:321:MET:HE3	1.88	0.54
23:GB:377:PHE:CD2	1:H1:3325:G:N2	2.75	0.54
27:GF:149:ASP:OD1	27:GF:149:ASP:C	2.46	0.54
32:GK:13:GLY:HA2	1:H1:968:U:O5'	2.07	0.54
33:GL:28:TRP:HA	33:GL:31:ARG:NH1	2.23	0.54
34:GM:177:GLU:HA	34:GM:180:PHE:CD2	2.32	0.54
37:GP:52:MET:HG2	37:GP:95:HIS:CE1	2.43	0.54
39:GR:108:GLU:HG2	39:GR:113:VAL:O	2.06	0.54
39:GR:74:PRO:CB	39:GR:149:LEU:HD11	2.38	0.54
44:GW:45:THR:HG21	44:GW:89:TYR:HA	1.88	0.54
46:GY:73:THR:HG22	46:GY:75:PRO:CD	2.37	0.54
1:H1:113:A:H2'	1:H1:114:A:OP1	2.07	0.54
1:H1:1172:G:O6	1:H1:1185:A:H2	1.90	0.54
1:H1:1404:G:H5'	1:H1:1434:G:HO2'	1.71	0.54
1:H1:1839:A:O2'	1:H1:1840:U:C5	2.60	0.54
1:H1:2537:C:H2'	1:H1:2538:C:C6	2.42	0.54
1:H1:302:G:N2	1:H1:2766:A:C8	2.76	0.54
1:H1:2855:C:O2'	1:H1:2856:U:H5'	2.07	0.54
1:H1:2886:G:C8	1:H1:2886:G:H3'	2.42	0.54
1:H1:3005:A:H2'	1:H1:3006:A:H8	1.72	0.54
1:H1:3183:A:O2'	1:H1:3184:A:P	2.66	0.54
1:H1:512:G:N2	1:H1:513:G:C4	2.75	0.54
1:H1:644:A:H2'	1:H1:645:A:H5''	1.90	0.54
1:H1:832:A:H3'	1:H1:833:A:H5''	1.89	0.54
1:H1:882:G:H2'	1:H1:883:A:OP2	2.07	0.54
1:H1:926:A:H2'	1:H1:927:G:C8	2.42	0.54
1:H1:438:A:C4	5:HE:130:PHE:CE1	2.95	0.54
1:H1:3184:A:H5''	5:HE:177:LYS:HG3	1.90	0.54
5:HE:98:THR:HG22	5:HE:100:THR:H	1.73	0.54
7:HG:48:CYS:SG	7:HG:49:PRO:HD2	2.47	0.54
5:HE:179:THR:HA	8:HH:12:THR:HG23	1.90	0.54
18:HU:161:LYS:HG3	18:HU:161:LYS:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1039:G:C2	1:A1:1064:C:N3	2.76	0.54
1:A1:1192:A:O2'	1:A1:1193:G:H5'	2.07	0.54
1:A1:1321:A:OP1	19:AX:99:THR:HG21	2.07	0.54
1:A1:1415:C:O2	1:A1:1415:C:H2'	2.06	0.54
1:A1:1481:U:HO2'	1:A1:1482:A:P	2.30	0.54
1:A1:1949:U:H4'	1:A1:1950:C:OP2	2.07	0.54
1:A1:2219:A:N1	1:A1:2771:U:O2'	2.34	0.54
1:A1:2366:G:H5''	1:A1:2367:A:OP2	2.08	0.54
1:A1:3094:U:H2'	1:A1:3095:A:C8	2.42	0.54
1:A1:3190:A:C6	1:A1:3191:G:N2	2.75	0.54
5:AE:69:LEU:HD21	5:AE:114:ASP:CA	2.38	0.54
16:AQ:58:ILE:O	16:AQ:62:ILE:HG13	2.07	0.54
18:AU:44:VAL:O	18:AU:47:ARG:HG3	2.07	0.54
19:AX:113:LEU:CD1	19:AX:140:THR:HG21	2.37	0.54
20:B2:110:A:H2'	20:B2:111:A:C8	2.42	0.54
22:BA:117:VAL:HG11	22:BA:149:ILE:CD1	2.38	0.54
25:BD:69:VAL:HG12	25:BD:71:ILE:HG13	1.90	0.54
34:BM:79:ASP:OD1	34:BM:79:ASP:N	2.39	0.54
36:BO:173:ARG:NH2	1:H1:2831:U:O4	2.39	0.54
41:BT:52:THR:HA	41:BT:57:ARG:HG2	1.88	0.54
43:BV:105:LEU:CD1	43:BV:131:ILE:HD13	2.38	0.54
22:CA:214:GLY:CA	1:D1:2955:A:OP1	2.56	0.54
24:CC:29:PHE:HD2	24:CC:137:ALA:HB2	1.71	0.54
24:CC:91:ARG:O	24:CC:94:GLN:HB2	2.06	0.54
26:CE:12:ILE:HD11	26:CE:53:VAL:HG23	1.90	0.54
29:CH:174:THR:HG22	29:CH:176:LEU:H	1.72	0.54
30:CI:46:LEU:HA	30:CI:135:CYS:SG	2.47	0.54
32:CK:49:LYS:HD2	35:CN:158:GLN:HE21	1.73	0.54
34:CM:163:LEU:CD1	34:CM:173:ILE:CG2	2.85	0.54
1:D1:1104:C:C2	17:DT:42:ASN:ND2	2.76	0.54
1:D1:1115:U:H6	1:D1:1115:U:H5'	1.72	0.54
1:D1:126:A:H5''	50:D1:3823:HOH:O	2.08	0.54
1:D1:1752:G:O5'	1:D1:1752:G:H8	1.90	0.54
1:D1:2100:A:C3'	1:D1:2101:G:H5''	2.37	0.54
1:D1:2245:G:H2'	1:D1:2246:G:H8	1.70	0.54
23:CB:264:ARG:CZ	1:D1:2387:C:O2'	2.54	0.54
22:CA:68:TYR:CD1	1:D1:2519:A:N6	2.73	0.54
1:D1:2645:A:C8	1:D1:2647:G:C8	2.96	0.54
1:D1:2672:U:H2'	1:D1:2673:C:C6	2.42	0.54
30:CI:96:ALA:HB1	1:D1:3154:A:O2'	2.08	0.54
1:D1:3178:U:H5''	6:DF:97:LYS:NZ	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:333:G:H5'	1:D1:333:G:H8	1.72	0.54
1:D1:90:G:O3'	4:DC:53:LYS:NZ	2.40	0.54
14:DO:62:LEU:HD11	14:DO:97:ARG:CG	2.37	0.54
23:EB:105:VAL:HG21	23:EB:146:LEU:CD2	2.37	0.54
24:EC:105:ARG:CG	24:EC:105:ARG:NH1	2.68	0.54
26:EE:135:LYS:HB2	26:EE:138:GLU:HG2	1.89	0.54
30:EI:81:ARG:HH11	30:EI:81:ARG:HG3	1.72	0.54
32:EK:110:PHE:HE2	32:EK:128:LYS:HZ2	1.55	0.54
32:EK:147:LEU:HD21	18:FU:177:VAL:HG13	1.89	0.54
33:EL:179:HIS:O	33:EL:182:LYS:HD3	2.08	0.54
1:F1:1190:U:H2'	1:F1:1191:G:H8	1.72	0.54
1:F1:1519:G:N3	3:FB:13:PHE:HE1	2.06	0.54
1:F1:1599:G:C4	1:F1:1600:U:C6	2.95	0.54
1:F1:2540:G:C5'	1:F1:2541:U:OP2	2.55	0.54
1:F1:2634:G:H2'	1:F1:2635:C:C5'	2.37	0.54
1:F1:627:U:C2	1:F1:630:G:O6	2.61	0.54
1:F1:777:C:H2'	1:F1:778:G:C8	2.43	0.54
5:FE:88:LYS:HG3	5:FE:89:ARG:N	2.23	0.54
9:FJ:39:GLU:CB	9:FJ:43:VAL:HG23	2.37	0.54
9:FJ:61:ARG:HD3	9:FJ:106:ASN:OD1	2.08	0.54
13:FN:96:LEU:HD13	13:FN:113:THR:HG22	1.89	0.54
15:FP:15:TRP:CZ3	15:FP:69:PRO:HD3	2.42	0.54
23:GB:46:PHE:HB2	23:GB:206:ILE:HD12	1.89	0.54
23:GB:280:VAL:HG13	23:GB:320:ILE:HG23	1.90	0.54
27:GF:196:VAL:HG21	27:GF:204:LEU:HD21	1.90	0.54
27:GF:62:GLN:NE2	27:GF:229:ILE:HG21	2.23	0.54
37:GP:17:LYS:HE3	37:GP:47:SER:HB3	1.89	0.54
43:GV:84:ILE:O	43:GV:131:ILE:HG23	2.08	0.54
27:GF:128:GLY:CA	1:H1:146:U:O2'	2.46	0.54
1:H1:1596:U:H4'	1:H1:1597:U:OP2	2.06	0.54
1:H1:1600:U:C2'	1:H1:1601:U:H5'	2.38	0.54
1:H1:1734:A:OP1	13:HN:79:HIS:HE1	1.89	0.54
1:H1:1775:A:C5'	15:HP:34:LYS:NZ	2.71	0.54
1:H1:2255:U:C2'	1:H1:2256:G:H8	2.21	0.54
1:H1:2261:U:O2'	1:H1:2262:C:H5'	2.08	0.54
1:H1:2278:G:O2'	1:H1:2279:C:P	2.66	0.54
1:H1:236:G:H2'	1:H1:237:A:H8	1.72	0.54
23:GB:378:PHE:HA	1:H1:3325:G:H22	1.70	0.54
1:H1:606:U:H2'	1:H1:607:U:C6	2.42	0.54
1:H1:619:G:H5''	1:H1:620:A:OP1	2.07	0.54
1:H1:866:A:H8	1:H1:866:A:C5'	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HF:18:GLY:O	6:HF:21:LYS:HG2	2.08	0.54
12:HM:24:PRO:HA	12:HM:109:TYR:OH	2.08	0.54
13:HN:104:ASN:O	13:HN:105:ASN:HB3	2.07	0.54
13:HN:47:GLU:HB3	13:HN:69:LYS:O	2.07	0.54
18:HU:100:LYS:HE3	18:HU:102:ARG:HH21	1.73	0.54
18:HU:25:ASN:OD1	18:HU:26:GLN:N	2.41	0.54
19:HX:96:GLN:H	19:HX:134:THR:CG2	2.19	0.54
1:A1:1070:U:H2'	1:A1:1071:C:O5'	2.06	0.54
1:A1:1166:G:N2	1:A1:1167:G:H1'	2.23	0.54
1:A1:135:A:H2'	1:A1:242:G:N7	2.22	0.54
1:A1:2617:G:H5''	1:A1:2618:C:OP2	2.07	0.54
1:A1:2624:A:H4'	1:A1:2625:A:O5'	2.07	0.54
1:A1:333:G:H8	1:A1:333:G:H5'	1.72	0.54
1:A1:489:A:H2'	1:A1:490:A:C8	2.43	0.54
2:AA:68:MET:HG2	20:B2:44:A:OP1	2.08	0.54
9:AJ:135:VAL:CG1	9:AJ:136:GLU:N	2.71	0.54
9:AJ:58:ILE:HG13	9:AJ:62:VAL:HG21	1.89	0.54
1:A1:3096:U:P	10:AK:112:LYS:HD3	2.48	0.54
1:A1:1681:C:OP1	11:AL:40:ASN:ND2	2.40	0.54
16:AQ:16:THR:OG1	18:AU:105:GLU:OE2	2.26	0.54
20:B2:134:C:C6	20:B2:134:C:H3'	2.43	0.54
1:A1:2:U:H3	20:B2:153:A:H62	1.53	0.54
22:BA:20:HIS:CD2	22:BA:193:LYS:O	2.61	0.54
24:BC:163:VAL:HA	24:BC:166:TYR:HE2	1.67	0.54
24:BC:65:MET:HE2	24:BC:105:ARG:HG2	1.90	0.54
27:BF:196:VAL:CG2	27:BF:204:LEU:HD11	2.37	0.54
6:AF:111:VAL:HG22	30:BI:196:PHE:CD1	2.43	0.54
33:BL:177:LYS:HG2	33:BL:185:ARG:NH2	2.23	0.54
33:BL:64:VAL:CG2	33:BL:106:VAL:HG22	2.37	0.54
1:A1:86:A:OP1	35:BN:173:LYS:HE3	2.06	0.54
1:A1:1128:G:C5'	43:BV:104:ARG:HD2	2.34	0.54
43:BV:200:TRP:CG	43:BV:201:PRO:HD2	2.42	0.54
24:CC:269:ILE:HG22	24:CC:270:PHE:CD1	2.42	0.54
24:CC:276:THR:HG22	24:CC:277:GLY:O	2.08	0.54
30:CI:35:VAL:HG13	30:CI:106:GLY:O	2.07	0.54
32:CK:75:VAL:CG2	32:CK:109:PHE:CD2	2.91	0.54
47:CO:133:LYS:HG3	47:CO:134:ASN:N	2.22	0.54
43:CV:207:PRO:HG3	43:CV:211:PHE:CE1	2.42	0.54
46:CY:4:ARG:NH1	1:D1:881:G:H22	2.05	0.54
1:D1:1047:G:C2'	1:D1:1048:U:C5'	2.85	0.54
43:CV:206:THR:HG21	1:D1:1195:U:O4'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:123:C:H2'	1:D1:124:U:C6	2.42	0.54
1:D1:1543:A:H2'	1:D1:1544:U:H6	1.71	0.54
46:CY:44:LYS:NZ	1:D1:1751:A:OP1	2.40	0.54
1:D1:2140:A:P	50:D1:4189:HOH:O	2.65	0.54
1:D1:2537:C:H2'	1:D1:2538:C:C6	2.43	0.54
1:D1:3100:U:O2'	1:D1:3101:G:H5'	2.08	0.54
1:D1:3256:A:C2	1:D1:3349:U:C2	2.95	0.54
1:D1:467:A:N1	1:D1:512:G:N3	2.56	0.54
4:DC:19:THR:HG22	4:DC:20:ASN:O	2.07	0.54
6:DF:4:ASN:OD1	6:DF:5:LYS:N	2.40	0.54
9:DJ:161:VAL:CG1	9:DJ:162:HIS:N	2.70	0.54
1:D1:1507:A:N1	11:DL:2:ALA:HB3	2.22	0.54
1:D1:1380:C:H2'	14:DO:36:THR:HG21	1.90	0.54
15:DP:15:TRP:CZ3	15:DP:69:PRO:HD3	2.42	0.54
15:DP:53:PHE:CE1	15:DP:55:THR:HG22	2.42	0.54
18:DU:23:PHE:O	18:DU:26:GLN:HB3	2.08	0.54
22:EA:33:TYR:CA	22:EA:164:ARG:NH2	2.69	0.54
22:EA:210:HIS:CD2	22:EA:212:HIS:HB2	2.42	0.54
22:EA:243:ARG:CZ	22:EA:247:VAL:HG12	2.38	0.54
22:EA:86:GLY:CA	1:F1:2545:A:N3	2.71	0.54
23:EB:110:ILE:O	23:EB:115:LYS:HE3	2.07	0.54
23:EB:56:ILE:HD11	23:EB:321:MET:HE3	1.88	0.54
23:EB:337:ARG:HH21	23:EB:340:ILE:HG23	1.71	0.54
29:EH:139:ARG:HG2	29:EH:173:PHE:HE1	1.72	0.54
30:EI:152:ILE:CG2	30:EI:153:GLU:N	2.70	0.54
34:EM:125:VAL:HG21	34:EM:205:PHE:CZ	2.42	0.54
1:F1:1186:A:HO2'	1:F1:1187:C:P	2.27	0.54
1:F1:1244:A:H2'	1:F1:1245:U:H5''	1.89	0.54
43:EV:15:ARG:NH2	1:F1:1376:A:OP2	2.39	0.54
39:ER:43:LEU:CD1	1:F1:1599:G:C5'	2.85	0.54
1:F1:1662:A:H4'	11:FL:76:ARG:HH22	1.72	0.54
1:F1:1884:G:H2'	1:F1:1885:G:H5'	1.90	0.54
1:F1:2148:A:H2'	1:F1:2149:U:H6	1.73	0.54
1:F1:2984:A:C4	1:F1:2985:C:H5	2.26	0.54
1:F1:298:G:C2'	1:F1:299:G:H5'	2.36	0.54
35:EN:91:GLU:OE2	1:F1:701:A:H2'	2.08	0.54
2:FA:25:ALA:HB1	3:FB:52:TYR:HD2	1.73	0.54
5:FE:91:ASN:OD1	5:FE:92:GLN:N	2.40	0.54
11:FL:98:GLU:HA	11:FL:98:GLU:OE1	2.07	0.54
12:FM:66:ASN:HD21	12:FM:68:GLN:NE2	2.06	0.54
1:F1:1091:G:H1'	17:FT:28:ARG:NH1	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:EP:66:ASN:ND2	17:FT:34:GLY:O	2.37	0.54
20:G2:111:A:C5	2:HA:20:ARG:NH2	2.75	0.54
22:GA:45:CYS:O	22:GA:62:VAL:HA	2.07	0.54
23:GB:17:ARG:HB3	23:GB:18:PRO:HA	1.88	0.54
24:GC:105:ARG:CG	24:GC:105:ARG:NH1	2.71	0.54
24:GC:163:VAL:O	24:GC:166:TYR:CD2	2.57	0.54
31:GJ:41:ILE:HG13	31:GJ:64:CYS:HA	1.90	0.54
32:GK:81:TRP:CD1	32:GK:119:PRO:HG2	2.42	0.54
33:GL:175:ARG:CZ	1:H1:317:A:H4'	2.38	0.54
35:GN:167:VAL:CG1	35:GN:169:SER:O	2.55	0.54
38:GQ:61:PRO:HG3	38:GQ:78:PHE:CG	2.43	0.54
38:GQ:93:ILE:O	38:GQ:96:LEU:HB2	2.08	0.54
44:GW:11:THR:OG1	44:GW:105:THR:HG23	2.07	0.54
44:GW:49:ARG:HB2	44:GW:91:LEU:HD23	1.88	0.54
1:H1:2101:G:H5'	1:H1:2101:G:C8	2.41	0.54
1:H1:2634:G:H2'	1:H1:2635:C:H5'	1.90	0.54
1:H1:2727:A:H5''	17:HT:36:ASN:HB2	1.90	0.54
1:H1:2830:U:O2	1:H1:2830:U:C2'	2.55	0.54
1:H1:2886:G:H4'	1:H1:2887:C:OP2	2.08	0.54
1:H1:2922:A:H5''	1:H1:2923:U:OP2	2.08	0.54
2:HA:62:THR:CG2	2:HA:63:GLY:N	2.70	0.54
7:HG:43:PHE:CD2	7:HG:90:MET:HE2	2.42	0.54
9:HJ:200:ASN:OD1	9:HJ:200:ASN:C	2.45	0.54
11:HL:92:ILE:HG12	13:HN:81:MET:HE2	1.90	0.54
12:HM:66:ASN:HD21	12:HM:68:GLN:NE2	2.05	0.54
1:A1:1446:C:C5'	1:A1:1446:C:C6	2.88	0.54
1:A1:1767:U:C4'	1:A1:1768:G:OP2	2.56	0.54
1:A1:213:A:H61	1:A1:227:G:C2'	2.21	0.54
1:A1:2390:G:H5''	23:BB:253:TRP:CD1	2.43	0.54
1:A1:90:G:OP1	4:AC:53:LYS:NZ	2.41	0.54
7:AG:43:PHE:HE1	7:AG:68:HIS:CD2	2.25	0.54
9:AJ:58:ILE:O	9:AJ:60:GLY:N	2.40	0.54
19:AX:3:ARG:O	19:AX:19:ARG:NH2	2.41	0.54
19:AX:45:ALA:HB1	19:AX:50:HIS:HD2	1.71	0.54
20:B2:100:C:H5''	20:B2:101:U:OP1	2.08	0.54
21:B3:27:A:OP2	34:BM:56:THR:HG23	2.06	0.54
24:BC:137:ALA:C	24:BC:138:LEU:HD23	2.28	0.54
24:BC:149:ILE:HG23	24:BC:152:VAL:HB	1.89	0.54
14:AO:12:ASN:OD1	24:BC:251:HIS:ND1	2.40	0.54
24:BC:275:THR:HG22	24:BC:276:THR:N	2.20	0.54
26:BE:135:LYS:H	26:BE:138:GLU:HG2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BE:34:ILE:HD11	26:BE:147:ILE:CG2	2.36	0.54
27:BF:69:GLN:HG2	27:BF:222:ARG:NH1	2.23	0.54
29:BH:139:ARG:HG2	29:BH:173:PHE:HE1	1.71	0.54
29:BH:66:GLU:HA	29:BH:66:GLU:OE1	2.07	0.54
29:BH:68:ALA:HA	29:BH:158:LYS:HG3	1.89	0.54
33:BL:64:VAL:HG21	33:BL:106:VAL:HG23	1.89	0.54
34:BM:216:LEU:HD12	34:BM:228:PHE:CE1	2.42	0.54
38:BQ:25:ARG:HG3	38:BQ:143:ASN:HD21	1.73	0.54
42:BU:36:LYS:HZ3	42:BU:45:LEU:CD2	2.20	0.54
21:C3:1:G:N3	34:CM:274:HIS:NE2	2.45	0.54
23:CB:40:LYS:HB3	23:CB:41:PRO:HD2	1.89	0.54
25:CD:12:VAL:CG2	25:CD:162:TRP:HD1	2.20	0.54
25:CD:89:MET:HE3	25:CD:89:MET:HA	1.90	0.54
26:CE:154:GLN:HE22	1:D1:3115:C:H1'	1.71	0.54
27:CF:146:ILE:CG2	27:CF:156:VAL:HG11	2.38	0.54
26:CE:2:ARG:HH12	30:CI:129:ARG:CZ	2.20	0.54
47:CO:42:ARG:NH2	1:D1:1626:U:OP2	2.40	0.54
43:CV:215:ARG:NH1	1:D1:1183:C:O3'	2.40	0.54
44:CW:43:MET:HA	44:CW:43:MET:CE	2.38	0.54
37:CP:130:ARG:NH2	1:D1:1088:A:N3	2.56	0.54
1:D1:1090:A:OP1	1:D1:1091:G:H3'	2.08	0.54
1:D1:1196:A:C6	1:D1:1357:A:C8	2.95	0.54
1:D1:2540:G:C5'	1:D1:2541:U:OP2	2.56	0.54
1:D1:304:U:O2'	1:D1:305:A:H8	1.91	0.54
1:D1:811:A:H4'	1:D1:812:G:O5'	2.07	0.54
1:D1:926:A:H2'	1:D1:927:G:C8	2.42	0.54
9:AJ:93:ARG:NH2	9:DJ:93:ARG:HG3	2.23	0.54
15:DP:15:TRP:O	15:DP:72:TYR:CZ	2.61	0.54
18:DU:146:ALA:HB1	18:DU:148:ASN:HD22	1.71	0.54
21:E3:102:G:O5'	21:E3:102:G:H8	1.90	0.54
21:E3:105:C:H5'	21:E3:105:C:C6	2.37	0.54
21:E3:10:C:C2	34:EM:20:TYR:CD1	2.93	0.54
22:EA:30:TYR:CB	22:EA:164:ARG:HH11	2.21	0.54
22:EA:205:MET:HB3	22:EA:209:ASP:HB2	1.89	0.54
23:EB:106:TRP:HB2	23:EB:133:HIS:CE1	2.43	0.54
33:EL:59:TYR:OH	33:EL:148:ILE:HD13	2.07	0.54
33:EL:80:VAL:HG11	33:EL:87:VAL:HA	1.89	0.54
46:EY:4:ARG:HH12	1:F1:881:G:N2	2.05	0.54
30:EI:132:ARG:NH1	1:F1:1216:C:C2'	2.70	0.54
24:EC:311:ALA:HB1	1:F1:1374:C:H5'	1.90	0.54
39:ER:121:LEU:HD21	1:F1:1549:U:C4'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2348:G:C5	1:F1:2349:C:C5	2.95	0.54
1:F1:2521:A:C2	1:F1:2522:A:C4	2.95	0.54
1:F1:467:A:N1	1:F1:512:G:N3	2.56	0.54
43:EV:64:ARG:HD3	1:F1:565:G:C5	2.43	0.54
35:EN:91:GLU:CG	1:F1:701:A:H3'	2.34	0.54
9:FJ:106:ASN:HB3	9:FJ:147:LEU:HD22	1.90	0.54
26:EE:179:VAL:HB	10:FK:89:TYR:OH	2.07	0.54
16:FQ:29:GLN:O	16:FQ:31:LYS:HD3	2.08	0.54
26:EE:58:TRP:NE1	19:FX:164:PRO:HG2	2.23	0.54
21:G3:93:G:H4'	19:HX:96:GLN:CD	2.28	0.54
23:GB:253:TRP:CD2	1:H1:2929:A:C8	2.95	0.54
23:GB:311:HIS:CD2	1:H1:3334:C:H4'	2.43	0.54
24:GC:195:ARG:NH2	1:H1:1409:C:P	2.81	0.54
26:GE:171:ARG:HB3	10:HK:91:CYS:SG	2.48	0.54
30:GI:11:LYS:HD3	30:GI:36:ARG:NH1	2.22	0.54
32:GK:27:LYS:HB2	1:H1:961:A:H5''	1.89	0.54
34:GM:138:GLU:HA	34:GM:138:GLU:OE1	2.08	0.54
36:GO:4:LEU:CD2	36:GO:7:GLN:HG3	2.35	0.54
38:GQ:134:ALA:O	38:GQ:135:HIS:HB2	2.08	0.54
38:GQ:25:ARG:HG3	38:GQ:143:ASN:HD21	1.73	0.54
40:GS:55:VAL:HG11	40:GS:103:LEU:HB3	1.90	0.54
41:GT:27:ASP:HB2	41:GT:29:ARG:HG3	1.90	0.54
46:GY:57:CYS:SG	46:GY:59:PRO:HD2	2.48	0.54
1:H1:1446:C:C6	1:H1:1446:C:C5'	2.88	0.54
1:H1:1754:G:O6	7:HG:29:SER:HB2	2.07	0.54
1:H1:1074:A:H2	1:H1:2635:C:O2	1.91	0.54
1:H1:2715:C:H3'	1:H1:2717:G:N2	2.22	0.54
1:H1:2817:U:C2'	1:H1:2818:G:H5'	2.37	0.54
1:H1:296:G:C3'	16:HQ:34:LEU:HD21	2.37	0.54
1:H1:442:G:N2	1:H1:536:A:N3	2.56	0.54
1:H1:940:A:N3	1:H1:940:A:H2'	2.23	0.54
6:HF:26:VAL:HG12	6:HF:27:ILE:N	2.23	0.54
13:HN:98:LYS:HB2	13:HN:101:LYS:HB2	1.90	0.54
14:HO:122:GLN:HA	14:HO:122:GLN:OE1	2.08	0.54
1:H1:2761:U:O2	18:HU:190:TRP:HZ2	1.91	0.54
1:A1:1038:G:C2'	1:A1:1039:G:H5'	2.38	0.54
1:A1:1510:U:N1	50:A1:4354:HOH:O	2.41	0.54
1:A1:1595:A:OP2	1:A1:1596:U:C5	2.61	0.54
1:A1:2309:U:C4'	1:A1:2310:G:OP2	2.56	0.54
1:A1:1179:G:H1'	1:A1:2365:G:O2'	2.07	0.54
1:A1:170:A:C4	1:A1:250:U:N3	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2737:A:C2	34:BM:35:ARG:CB	2.89	0.54
1:A1:287:C:O2'	1:A1:288:A:H5'	2.07	0.54
1:A1:3168:A:N7	19:AX:166:VAL:CG1	2.71	0.54
1:A1:3183:A:O2'	1:A1:3184:A:P	2.65	0.54
1:A1:660:C:H3'	45:BX:43:ARG:NH1	2.23	0.54
1:A1:936:C:OP2	22:BA:9:ARG:HD3	2.08	0.54
2:AA:14:LYS:NZ	3:AB:52:TYR:HE1	2.06	0.54
7:AG:49:PRO:HG2	7:AG:52:ARG:HB2	1.90	0.54
12:AM:35:PHE:HD1	12:AM:65:ILE:CD1	2.21	0.54
1:A1:2563:U:OP2	13:AN:56:ARG:HD3	2.08	0.54
1:A1:1380:C:N3	14:AO:32:THR:HG21	2.22	0.54
20:B2:2:G:H4'	20:B2:3:A:OP2	2.08	0.54
21:B3:81:A:C2'	21:B3:82:G:C5'	2.85	0.54
23:BB:26:ARG:HD2	23:BB:177:LEU:HD21	1.89	0.54
23:BB:294:THR:HG22	23:BB:296:GLY:H	1.72	0.54
24:BC:29:PHE:CE2	24:BC:156:PRO:HG3	2.43	0.54
29:BH:142:GLU:N	29:BH:143:PRO:HD2	2.22	0.54
35:BN:146:ARG:HB3	35:BN:149:TYR:CD2	2.43	0.54
23:CB:17:ARG:HB3	23:CB:18:PRO:HA	1.89	0.54
24:CC:272:THR:CG2	24:CC:273:TYR:H	2.19	0.54
24:CC:41:VAL:O	24:CC:45:LEU:HG	2.08	0.54
26:CE:45:ILE:HG12	26:CE:55:LEU:CD2	2.37	0.54
29:CH:138:VAL:HG23	29:CH:152:LEU:HD11	1.90	0.54
37:CP:118:GLU:O	37:CP:121:LYS:HB2	2.08	0.54
43:CV:207:PRO:HB2	43:CV:209:GLY:O	2.08	0.54
1:D1:1047:G:OP1	13:FN:3:LYS:HE3	2.07	0.54
1:D1:1196:A:N6	1:D1:1357:A:C8	2.75	0.54
1:D1:126:A:C6	1:D1:139:A:C6	2.96	0.54
1:D1:1567:A:N6	1:D1:1578:U:H3	2.06	0.54
1:D1:1922:G:O2'	1:D1:1923:G:H5'	2.08	0.54
1:D1:2161:C:OP1	50:D1:4258:HOH:O	2.17	0.54
1:D1:2239:A:OP2	50:D1:4291:HOH:O	2.18	0.54
1:D1:2354:C:O2'	1:D1:2355:C:H5'	2.07	0.54
1:D1:2814:U:C2'	1:D1:2815:U:H5'	2.37	0.54
1:D1:2913:C:C2'	1:D1:2914:A:H5'	2.37	0.54
1:D1:3055:U:H2'	1:D1:3056:C:C6	2.43	0.54
1:D1:40:C:C6	1:D1:40:C:C3'	2.91	0.54
1:D1:803:C:O2'	1:D1:804:G:H5'	2.08	0.54
1:D1:1239:G:N3	19:DX:128:HIS:CE1	2.74	0.54
21:E3:6:C:O2'	34:EM:50:ARG:NH2	2.41	0.54
23:EB:114:THR:N	23:EB:174:ASN:HD22	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:66:GLY:O	2:FA:53:LYS:NZ	2.30	0.54
29:EH:36:SER:OG	29:EH:87:LEU:HB3	2.08	0.54
30:EI:9:ASP:O	30:EI:13:HIS:CD2	2.60	0.54
43:EV:235:VAL:O	43:EV:239:LEU:HG	2.08	0.54
1:F1:1576:C:O2'	1:F1:1577:C:H5'	2.07	0.54
1:F1:1595:A:H1'	1:F1:1599:G:C2	2.43	0.54
1:F1:2508:U:C4'	1:F1:2509:U:OP1	2.53	0.54
1:F1:2577:G:H2'	1:F1:2578:A:O5'	2.07	0.54
1:F1:2817:U:C2'	1:F1:2818:G:H5'	2.38	0.54
1:F1:282:G:H22	1:F1:304:U:H4'	1.70	0.54
1:F1:548:G:C2	1:F1:635:A:C2	2.95	0.54
1:F1:859:U:C4	1:F1:860:G:C6	2.96	0.54
9:FJ:80:GLU:O	9:FJ:84:ILE:HG13	2.07	0.54
13:FN:104:ASN:O	13:FN:105:ASN:HB3	2.07	0.54
20:G2:110:A:H4'	1:H1:1610:C:H5'	1.89	0.54
22:GA:31:ARG:NH1	22:GA:42:ILE:CG1	2.70	0.54
23:GB:183:GLY:O	23:GB:189:LYS:CE	2.55	0.54
25:GD:57:PHE:CD1	1:H1:2669:A:C6	2.96	0.54
26:GE:131:LYS:HE2	26:GE:145:GLN:CG	2.37	0.54
29:GH:16:PRO:HG3	29:GH:128:ARG:HH11	1.73	0.54
29:GH:208:ARG:HG3	29:GH:209:LEU:N	2.23	0.54
38:GQ:107:LYS:CB	38:GQ:109:LEU:HG	2.37	0.54
23:GB:373:GLU:OE2	41:GT:16:TYR:OH	2.24	0.54
42:GU:60:THR:O	42:GU:64:GLU:HG3	2.08	0.54
43:GV:129:PRO:HG2	43:GV:130:PHE:CD2	2.42	0.54
1:H1:1078:U:C5	1:H1:1079:A:N7	2.76	0.54
1:H1:1112:A:H2'	1:H1:1113:A:C8	2.43	0.54
27:GF:131:HIS:CD2	1:H1:117:G:C2	2.95	0.54
36:GO:96:MET:HG2	1:H1:1746:U:C1'	2.38	0.54
1:H1:2254:A:H2'	1:H1:2255:U:C6	2.42	0.54
1:H1:2756:U:H5''	4:HC:30:LYS:O	2.07	0.54
1:H1:3229:C:H4'	1:H1:3230:G:OP2	2.08	0.54
1:H1:870:G:N2	1:H1:874:C:C4	2.76	0.54
9:HJ:119:PRO:HD3	9:HJ:140:THR:O	2.08	0.54
10:HK:92:GLU:O	10:HK:105:PRO:HB3	2.07	0.54
18:HU:168:ASN:O	18:HU:172:LEU:HG	2.07	0.54
19:HX:16:MET:HE3	19:HX:18:VAL:HG22	1.87	0.54
1:A1:1037:A:H2'	1:A1:1038:G:C8	2.42	0.54
1:A1:1088:A:H5''	1:A1:1089:G:H5'	1.90	0.54
1:A1:1393:A:O3'	45:BX:47:ARG:NH2	2.38	0.54
1:A1:2257:A:H2'	1:A1:2258:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2634:G:H2'	1:A1:2635:C:H5''	1.90	0.54
1:A1:304:U:O2'	1:A1:305:A:H8	1.89	0.54
1:A1:3128:G:C5'	1:A1:3128:G:C8	2.88	0.54
1:A1:701:A:H2'	35:BN:91:GLU:OE2	2.07	0.54
6:AF:5:LYS:HD3	6:AF:55:LEU:HB2	1.89	0.54
13:AN:104:ASN:O	13:AN:105:ASN:HB3	2.07	0.54
14:AO:3:GLN:HA	14:AO:3:GLN:OE1	2.08	0.54
1:A1:297:U:O4	16:AQ:33:LYS:HE2	2.08	0.54
23:BB:46:PHE:HB2	23:BB:206:ILE:HD12	1.90	0.54
24:BC:272:THR:CG2	24:BC:273:TYR:N	2.71	0.54
24:BC:283:TYR:HE1	24:BC:285:LEU:HA	1.73	0.54
24:BC:295:ILE:O	24:BC:299:ILE:HG13	2.08	0.54
29:BH:58:GLU:OE2	29:BH:160:PRO:HB2	2.08	0.54
29:BH:174:THR:HG22	29:BH:175:LYS:N	2.22	0.54
21:B3:63:A:C2	29:BH:202:GLU:CG	2.91	0.54
32:BK:75:VAL:CG2	32:BK:109:PHE:CD2	2.91	0.54
38:BQ:107:LYS:HB3	38:BQ:109:LEU:HG	1.89	0.54
39:BR:114:LYS:HD2	39:BR:137:ASP:OD2	2.07	0.54
42:BU:14:THR:HG22	42:BU:15:GLU:H	1.73	0.54
44:BW:45:THR:HG21	44:BW:89:TYR:HA	1.90	0.54
22:BA:181:LEU:HD12	46:BY:14:TYR:CE1	2.42	0.54
24:CC:14:GLU:CB	24:CC:17:LYS:HG3	2.37	0.54
34:CM:160:PHE:O	34:CM:163:LEU:HB3	2.08	0.54
35:CN:102:CYS:SG	35:CN:127:LEU:HG	2.48	0.54
32:CK:60:MET:C	35:CN:172:ARG:HH12	2.10	0.54
43:CV:37:ARG:O	43:CV:40:GLU:N	2.41	0.54
45:CX:44:VAL:HG12	45:CX:54:MET:CE	2.37	0.54
1:D1:113:A:H2'	1:D1:114:A:OP1	2.07	0.54
1:D1:1397:G:O2'	1:D1:1398:G:H5'	2.08	0.54
1:D1:1715:U:H2'	1:D1:1716:U:H6	1.72	0.54
1:D1:2187:C:H2'	1:D1:2188:U:H5'	1.88	0.54
1:D1:2359:G:H22	1:D1:2391:G:H1'	1.72	0.54
1:D1:582:A:C2'	1:D1:583:G:H5'	2.37	0.54
1:D1:820:G:O2'	1:D1:821:U:H5''	2.07	0.54
1:D1:919:A:C1'	1:D1:920:A:C2	2.91	0.54
5:DE:86:PRO:HB2	5:DE:153:GLN:NE2	2.04	0.54
6:DF:41:GLU:OE1	6:DF:73:LYS:HD3	2.08	0.54
9:DJ:39:GLU:HA	9:DJ:43:VAL:HG23	1.89	0.54
12:DM:101:ASP:HB2	12:DM:104:SER:OG	2.08	0.54
12:DM:35:PHE:HD1	12:DM:65:ILE:CD1	2.21	0.54
33:CL:6:TYR:HA	16:DQ:45:ILE:CD1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DX:88:THR:HG22	19:DX:143:LEU:HD12	1.90	0.54
20:E2:111:A:N1	2:FA:20:ARG:NH1	2.56	0.54
22:EA:31:ARG:NH1	22:EA:42:ILE:CG1	2.71	0.54
23:EB:332:ARG:CB	23:EB:332:ARG:HH11	2.20	0.54
24:EC:14:GLU:HB3	24:EC:17:LYS:HG3	1.89	0.54
24:EC:163:VAL:HG22	24:EC:175:PHE:HE2	1.72	0.54
24:EC:195:ARG:HH22	1:F1:1409:C:P	2.31	0.54
24:EC:314:THR:HG21	1:F1:1372:A:C2	2.43	0.54
24:EC:316:THR:O	24:EC:317:HIS:HD2	1.90	0.54
26:EE:4:LEU:HD11	19:FX:163:PHE:HD1	1.70	0.54
34:EM:164:LYS:O	34:EM:168:ASP:HB2	2.08	0.54
36:EO:118:HIS:CD2	1:F1:1742:G:OP1	2.61	0.54
44:EW:14:ASN:O	44:EW:18:GLN:HG2	2.08	0.54
37:EP:61:THR:HB	1:F1:1086:U:O4'	2.08	0.54
1:F1:126:A:C6	1:F1:139:A:C6	2.95	0.54
22:EA:201:ARG:HD2	1:F1:2182:G:O6	2.08	0.54
1:F1:3135:A:H2'	1:F1:3136:A:H8	1.72	0.54
1:F1:3158:G:H3'	1:F1:3159:A:C5'	2.38	0.54
5:FE:62:ARG:CZ	6:FF:105:ASP:OD1	2.55	0.54
9:FJ:39:GLU:HA	9:FJ:43:VAL:HG23	1.88	0.54
14:FO:106:PHE:O	14:FO:109:LYS:HB2	2.07	0.54
15:FP:45:ARG:HD2	15:FP:46:GLY:H	1.71	0.54
6:FF:51:ARG:HG2	19:FX:171:ARG:NH1	2.23	0.54
21:E3:93:G:H4'	19:FX:96:GLN:OE1	2.07	0.54
20:G2:134:C:HO2'	20:G2:135:A:P	2.26	0.54
22:GA:5:ILE:HG22	22:GA:6:ARG:H	1.72	0.54
24:GC:238:VAL:HG21	24:GC:262:ALA:CB	2.37	0.54
24:GC:373:SER:HA	1:H1:564:A:O2'	2.07	0.54
27:GF:68:PRO:CD	27:GF:225:TRP:HE1	2.20	0.54
24:GC:401:GLN:O	29:GH:179:ALA:HB2	2.08	0.54
29:GH:205:PRO:O	29:GH:208:ARG:HG2	2.08	0.54
32:GK:110:PHE:HE2	32:GK:128:LYS:HZ2	1.54	0.54
33:GL:16:SER:CB	16:HQ:49:THR:HG23	2.38	0.54
33:GL:184:LEU:HD23	33:GL:188:ARG:HD2	1.89	0.54
34:GM:175:HIS:CD2	34:GM:180:PHE:CE2	2.90	0.54
21:G3:11:A:O5'	34:GM:18:THR:HG21	2.08	0.54
34:GM:6:VAL:HG13	34:GM:6:VAL:O	2.08	0.54
38:GQ:77:GLU:HB2	38:GQ:78:PHE:CE2	2.43	0.54
40:GS:38:LEU:HD11	40:GS:106:THR:O	2.08	0.54
42:GU:123:LYS:HE2	18:HU:146:ALA:HB2	1.89	0.54
43:GV:156:GLN:OE1	1:H1:1389:G:H1'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1192:A:O2'	1:H1:1193:G:H5'	2.08	0.54
1:H1:121:A:N6	1:H1:150:A:C6	2.76	0.54
1:H1:1802:U:H2'	1:H1:1803:U:C6	2.43	0.54
1:H1:2624:A:H4'	1:H1:2625:A:O5'	2.06	0.54
1:H1:2786:C:H5''	1:H1:2787:A:OP1	2.08	0.54
1:H1:3055:U:H2'	1:H1:3056:C:H6	1.73	0.54
1:H1:705:A:O2'	1:H1:706:U:H5'	2.06	0.54
1:H1:751:C:C5'	1:H1:751:C:H6	2.21	0.54
1:H1:838:G:H4'	2:HA:47:TYR:CE2	2.43	0.54
14:HO:98:PHE:HD2	14:HO:103:LEU:HB3	1.73	0.54
1:A1:1802:U:H2'	1:A1:1803:U:C6	2.43	0.54
1:A1:1951:G:OP1	46:BY:8:VAL:HG23	2.08	0.54
1:A1:2239:A:O2'	1:A1:2240:C:H5'	2.08	0.54
1:A1:2254:A:C4	1:A1:2255:U:C5	2.96	0.54
1:A1:2255:U:C2'	1:A1:2256:G:H5'	2.38	0.54
1:A1:655:A:H2'	1:A1:656:C:H6	1.73	0.54
4:AC:94:ILE:HA	4:AC:97:ILE:HD12	1.89	0.54
6:AF:4:ASN:OD1	6:AF:5:LYS:N	2.41	0.54
1:A1:2883:G:O2'	10:AK:100:TYR:O	2.20	0.54
20:B2:61:G:H2'	20:B2:100:C:O2'	2.08	0.54
1:A1:2929:A:C8	23:BB:253:TRP:CD2	2.96	0.54
23:BB:95:THR:OG1	23:BB:96:PRO:HD2	2.08	0.54
24:BC:195:ARG:O	24:BC:200:LYS:HE2	2.08	0.54
1:A1:2663:A:N1	25:BD:124:GLY:HA3	2.22	0.54
30:BI:114:VAL:O	30:BI:116:LYS:HE3	2.08	0.54
1:A1:62:G:OP1	33:BL:185:ARG:NH1	2.41	0.54
38:BQ:33:GLU:OE1	38:BQ:63:THR:N	2.40	0.54
43:BV:141:ILE:HG21	43:BV:185:ILE:HG21	1.90	0.54
20:C2:40:A:C8	20:C2:42:G:C2	2.96	0.54
21:C3:48:G:H2'	21:C3:49:A:C8	2.42	0.54
24:CC:163:VAL:CG2	24:CC:175:PHE:CE2	2.90	0.54
26:CE:23:ARG:HH11	26:CE:39:ARG:HA	1.73	0.54
33:CL:121:VAL:HG11	33:CL:131:GLU:CD	2.28	0.54
35:CN:29:LEU:HA	35:CN:32:LYS:HG3	1.90	0.54
47:CO:4:LEU:CD2	47:CO:7:GLN:HG3	2.36	0.54
37:CP:74:VAL:CG1	37:CP:75:ILE:H	2.21	0.54
42:CU:99:LYS:O	42:CU:103:ALA:HB2	2.08	0.54
42:CU:76:GLY:HA2	1:D1:133:C:O2'	2.07	0.54
44:CW:85:GLN:OE1	44:CW:85:GLN:HA	2.08	0.54
1:D1:1040:A:H2'	1:D1:1041:C:H5'	1.90	0.54
34:CM:142:PHE:HE1	1:D1:1107:A:C5	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:122:U:H2'	1:D1:123:C:C6	2.43	0.54
1:D1:1599:G:H2'	1:D1:1600:U:O4'	2.08	0.54
1:D1:1775:A:H1'	1:D1:1776:G:H3'	1.89	0.54
1:D1:1811:U:O2'	1:D1:1812:G:H5'	2.08	0.54
1:D1:219:A:N1	1:D1:1416:U:O2'	2.36	0.54
1:D1:2606:U:H4'	1:D1:2633:C:C5	2.43	0.54
1:D1:2956:G:O2'	1:D1:2957:A:H5'	2.07	0.54
24:CC:89:THR:HG23	1:D1:364:A:H1'	1.89	0.54
1:D1:624:G:O2'	1:D1:625:C:P	2.66	0.54
1:D1:632:G:C5	1:D1:633:C:C5	2.96	0.54
35:CN:91:GLU:OE2	1:D1:701:A:H2'	2.08	0.54
1:D1:882:G:O2'	1:D1:883:A:O5'	2.25	0.54
9:DJ:123:ARG:CZ	9:FJ:123:ARG:NE	2.71	0.54
16:DQ:2:ALA:HB2	18:DU:184:GLU:OE2	2.08	0.54
1:D1:3177:G:N2	19:DX:177:TYR:CE2	2.76	0.54
20:E2:2:G:O2'	1:F1:2983:A:H1'	2.08	0.54
24:EC:50:LYS:HB2	24:EC:116:VAL:HG11	1.88	0.54
26:EE:103:VAL:HG23	26:EE:110:ILE:HG23	1.89	0.54
26:EE:7:GLU:HA	26:EE:55:LEU:O	2.07	0.54
27:EF:150:VAL:HG21	27:EF:156:VAL:HG21	1.89	0.54
27:EF:169:PRO:HA	27:EF:216:ASN:HD21	1.72	0.54
28:EG:63:UNK:O	28:EG:67:UNK:HB2	2.08	0.54
29:EH:98:ARG:NH2	29:EH:119:PHE:CZ	2.76	0.54
30:EI:129:ARG:NH2	1:F1:1343:G:C2	2.75	0.54
32:EK:110:PHE:CD2	32:EK:128:LYS:HD2	2.43	0.54
35:EN:30:LEU:HD11	35:EN:124:PHE:HB2	1.90	0.54
43:EV:164:THR:HG22	43:EV:168:LYS:HE3	1.88	0.54
43:EV:196:ASN:O	43:EV:199:LEU:N	2.38	0.54
43:EV:37:ARG:O	43:EV:40:GLU:N	2.41	0.54
1:F1:1005:A:C2'	1:F1:1006:C:OP1	2.56	0.54
1:F1:1255:A:C2	1:F1:1309:G:C6	2.96	0.54
1:F1:1256:G:H2'	1:F1:1257:G:H8	1.72	0.54
1:F1:1807:C:H2'	1:F1:1808:A:C8	2.43	0.54
1:F1:209:A:H4'	1:F1:211:A:C8	2.42	0.54
1:F1:2149:U:C2'	1:F1:2150:U:H5'	2.36	0.54
1:F1:2259:U:H2'	1:F1:2260:C:C6	2.43	0.54
1:F1:2634:G:H2'	1:F1:2635:C:H5'	1.90	0.54
1:F1:296:G:H4'	1:F1:297:U:O5'	2.08	0.54
1:F1:3193:G:N2	1:F1:3218:U:H1'	2.23	0.54
1:F1:624:G:O2'	1:F1:625:C:P	2.66	0.54
1:F1:751:C:H6	1:F1:751:C:C5'	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:752:C:H4'	1:F1:1002:A:C4	2.43	0.54
1:F1:940:A:N3	1:F1:940:A:H2'	2.21	0.54
9:FJ:200:ASN:C	9:FJ:200:ASN:OD1	2.46	0.54
13:FN:118:PHE:HE2	13:FN:138:PHE:CE2	2.26	0.54
13:FN:91:CYS:SG	13:FN:96:LEU:HD12	2.48	0.54
50:F1:3657:HOH:O	18:FU:15:HIS:HE1	1.89	0.54
19:FX:113:LEU:HD11	19:FX:140:THR:CG2	2.38	0.54
19:FX:96:GLN:H	19:FX:134:THR:CG2	2.18	0.54
21:G3:35:C:N4	21:G3:46:C:H1'	2.23	0.54
24:GC:152:VAL:CG1	24:GC:157:TYR:HE2	2.05	0.54
26:GE:113:LYS:HE3	26:GE:114:HIS:HB2	1.90	0.54
26:GE:46:GLN:NE2	26:GE:56:GLN:NE2	2.56	0.54
28:GG:28:UNK:HB1	28:GG:112:UNK:HG3	1.88	0.54
29:GH:171:TRP:CE2	29:GH:181:TYR:CE2	2.95	0.54
30:GI:26:LEU:HD11	30:GI:101:LEU:HB2	1.89	0.54
30:GI:109:THR:HG22	1:H1:3206:A:H2'	1.90	0.54
30:GI:196:PHE:CZ	6:HF:110:ARG:HB2	2.43	0.54
43:GV:185:ILE:HA	43:GV:192:PHE:CE1	2.42	0.54
1:H1:1026:C:H5'	1:H1:1027:G:H5''	1.89	0.54
1:H1:1041:C:O2	1:H1:1041:C:H2'	2.07	0.54
30:GI:17:ARG:HH22	1:H1:1344:A:H4'	1.73	0.54
1:H1:1492:G:C2'	1:H1:1493:A:H5''	2.38	0.54
1:H1:149:U:H2'	1:H1:150:A:H8	1.73	0.54
1:H1:1595:A:OP2	1:H1:1596:U:C5	2.61	0.54
1:H1:1696:C:O2'	1:H1:1697:U:H5'	2.08	0.54
1:H1:2106:G:C2'	1:H1:2107:A:OP1	2.56	0.54
1:H1:2239:A:O2'	1:H1:2240:C:H5'	2.07	0.54
1:H1:2263:U:H3'	1:H1:2264:U:C5'	2.38	0.54
1:H1:302:G:C2	1:H1:2766:A:N7	2.76	0.54
1:H1:297:U:O4'	16:HQ:32:GLY:HA3	2.07	0.54
1:H1:2993:C:O2'	1:H1:2994:G:H5'	2.08	0.54
23:GB:363:ILE:O	1:H1:3075:A:O3'	2.26	0.54
1:H1:3183:A:HO2'	1:H1:3184:A:P	2.31	0.54
1:H1:3251:C:C4'	1:H1:3252:G:OP2	2.54	0.54
1:H1:578:G:C2'	1:H1:579:G:H5''	2.37	0.54
2:HA:18:LEU:HA	2:HA:24:LYS:O	2.06	0.54
1:H1:3228:U:C4	5:HE:146:LYS:HG3	2.43	0.54
12:HM:35:PHE:CD1	12:HM:65:ILE:CD1	2.91	0.54
1:H1:1380:C:H2'	14:HO:36:THR:HG21	1.90	0.54
14:HO:44:HIS:HD2	14:HO:46:HIS:CD2	2.25	0.54
1:A1:126:A:C6	1:A1:139:A:C6	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1775:A:C8	1:A1:1776:G:H2'	2.35	0.53
1:A1:1901:C:C5'	1:A1:1902:C:H5'	2.32	0.53
1:A1:1907:A:C2'	1:A1:1908:A:O5'	2.56	0.53
1:A1:2163:A:C6	1:A1:2164:C:N4	2.77	0.53
1:A1:2517:G:O6	22:BA:71:LYS:NZ	2.40	0.53
1:A1:302:G:C2	1:A1:2766:A:N7	2.76	0.53
1:A1:2922:A:H5''	1:A1:2923:U:OP2	2.08	0.53
1:A1:3109:C:O3'	1:A1:3110:U:H6	1.91	0.53
1:A1:485:A:C4'	1:A1:486:C:OP1	2.40	0.53
1:A1:508:A:O2'	1:A1:509:A:H8	1.91	0.53
1:A1:565:G:C5	43:BV:64:ARG:HD3	2.43	0.53
1:A1:627:U:C2	1:A1:630:G:O6	2.60	0.53
1:A1:675:G:C6	1:A1:676:G:C6	2.96	0.53
11:AL:88:ARG:HG3	13:AN:14:LEU:HD13	1.89	0.53
15:AP:53:PHE:CE1	15:AP:55:THR:HG22	2.43	0.53
1:A1:979:U:C1'	17:AT:12:GLN:HE21	2.16	0.53
20:B2:30:U:OP1	24:BC:56:LYS:HA	2.08	0.53
21:B3:102:G:O5'	21:B3:102:G:H8	1.91	0.53
1:A1:209:A:OP2	24:BC:170:LYS:HE3	2.07	0.53
24:BC:191:THR:OG1	24:BC:209:ARG:HD2	2.08	0.53
26:BE:113:LYS:HD2	26:BE:114:HIS:N	2.23	0.53
26:BE:23:ARG:HH11	26:BE:39:ARG:HA	1.73	0.53
27:BF:146:ILE:CG2	27:BF:156:VAL:HG11	2.38	0.53
34:BM:156:GLY:CA	34:BM:181:PRO:HG3	2.36	0.53
1:A1:2737:A:H1'	34:BM:36:LEU:HD23	1.90	0.53
35:BN:41:THR:HG22	35:BN:43:SER:H	1.73	0.53
38:BQ:59:CYS:HB3	38:BQ:74:GLN:HB2	1.91	0.53
42:BU:87:LYS:HA	42:BU:93:ARG:HH21	1.73	0.53
44:BW:14:ASN:CG	44:BW:17:LYS:HG3	2.28	0.53
21:C3:81:A:C2'	21:C3:82:G:C5'	2.86	0.53
23:CB:378:PHE:CG	1:D1:3325:G:N2	2.76	0.53
23:CB:56:ILE:CD1	23:CB:76:VAL:HG21	2.38	0.53
26:CE:113:LYS:HE3	26:CE:114:HIS:HB2	1.90	0.53
29:CH:147:TYR:H	29:CH:147:TYR:HD1	1.54	0.53
38:CQ:133:ARG:HG3	38:CQ:139:ASN:HD21	1.68	0.53
35:CN:141:ARG:NH2	1:D1:1002:A:OP2	2.39	0.53
1:D1:1113:A:H2'	1:D1:1114:C:C6	2.43	0.53
1:D1:1244:A:H2'	1:D1:1245:U:H5''	1.90	0.53
1:D1:1596:U:H4'	1:D1:1597:U:O5'	2.08	0.53
1:D1:1596:U:H4'	1:D1:1597:U:OP2	2.05	0.53
1:D1:1592:G:C2	1:D1:1602:U:C2	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1737:A:O2'	1:D1:1738:A:H8	1.83	0.53
1:D1:2133:U:H5	1:D1:2138:A:N7	2.06	0.53
1:D1:2148:A:HO2'	1:D1:2238:A:HO2'	1.50	0.53
1:D1:606:U:H2'	1:D1:607:U:C6	2.44	0.53
1:D1:624:G:O2'	1:D1:625:C:O4'	2.26	0.53
1:D1:644:A:H2'	1:D1:645:A:H5''	1.90	0.53
4:DC:44:LYS:CD	4:DC:52:THR:HG21	2.19	0.53
1:D1:3227:A:N3	5:DE:80:TYR:CE2	2.75	0.53
1:D1:1513:A:O2'	11:DL:6:THR:HG23	2.07	0.53
15:DP:45:ARG:HD2	15:DP:46:GLY:N	2.23	0.53
17:DT:12:GLN:OE1	17:DT:15:LYS:HD2	2.07	0.53
21:E3:98:G:OP2	19:FX:66:LYS:CE	2.55	0.53
23:EB:56:ILE:CD1	23:EB:76:VAL:HG21	2.38	0.53
24:EC:138:LEU:HD23	24:EC:138:LEU:N	2.22	0.53
24:EC:152:VAL:HG11	24:EC:155:LEU:HD21	1.90	0.53
24:EC:14:GLU:CB	24:EC:17:LYS:HG3	2.38	0.53
24:EC:276:THR:HG23	24:EC:277:GLY:H	1.72	0.53
24:EC:295:ILE:O	24:EC:299:ILE:HG13	2.08	0.53
25:ED:108:GLU:HA	25:ED:122:ILE:CG2	2.38	0.53
27:EF:149:ASP:C	27:EF:149:ASP:OD1	2.45	0.53
28:EG:4:UNK:HG3	28:EG:6:UNK:CG	2.29	0.53
29:EH:75:ASN:O	29:EH:79:PHE:CD1	2.56	0.53
34:EM:38:ILE:HG13	34:EM:38:ILE:O	2.08	0.53
35:EN:53:LEU:HD23	35:EN:84:THR:HG22	1.89	0.53
37:EP:74:VAL:HG12	37:EP:75:ILE:H	1.73	0.53
42:EU:22:LEU:HD21	42:EU:59:LEU:HD21	1.90	0.53
43:EV:150:PHE:CD1	43:EV:159:PRO:HA	2.43	0.53
1:F1:1041:C:H3'	1:F1:1042:U:H5''	1.91	0.53
1:F1:1606:U:C2'	1:F1:1607:U:H5'	2.38	0.53
1:F1:1944:U:N3	1:F1:1954:A:C2	2.76	0.53
36:EO:135:LYS:HB3	1:F1:1972:G:OP1	2.09	0.53
24:EC:77:ALA:CA	1:F1:2397:A:OP2	2.56	0.53
1:F1:2645:A:N3	1:F1:2645:A:H2'	2.24	0.53
1:F1:2907:A:H5''	1:F1:2907:A:H8	1.73	0.53
1:F1:3293:A:C2	1:F1:3294:A:C4	2.96	0.53
1:F1:909:A:OP1	2:FA:5:THR:OG1	2.20	0.53
15:FP:45:ARG:HD2	15:FP:46:GLY:N	2.24	0.53
24:EC:376:TRP:HZ2	19:FX:76:ASN:HD22	1.56	0.53
26:GE:130:VAL:HG22	26:GE:152:VAL:HG22	1.89	0.53
29:GH:142:GLU:N	29:GH:143:PRO:HD2	2.23	0.53
37:GP:65:PHE:HB3	37:GP:75:ILE:HG13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GU:119:LYS:HB2	18:HU:124:PHE:HB2	1.89	0.53
42:GU:13:GLN:HB3	42:GU:17:GLN:OE1	2.08	0.53
43:GV:105:LEU:HD22	43:GV:110:ASN:O	2.08	0.53
45:GX:121:LEU:CB	45:GX:124:ALA:HB2	2.38	0.53
45:GX:43:ARG:HH22	1:H1:660:C:C2'	2.21	0.53
1:H1:1187:C:OP1	1:H1:1359:A:H5''	2.07	0.53
1:H1:1595:A:H2	1:H1:1598:C:OP2	1.90	0.53
1:H1:1606:U:C2'	1:H1:1607:U:H5'	2.38	0.53
1:H1:2163:A:C6	1:H1:2164:C:N4	2.75	0.53
31:GJ:16:LYS:HZ2	1:H1:3081:C:H5	1.55	0.53
1:H1:3191:G:C5	1:H1:3218:U:O4	2.61	0.53
23:GB:378:PHE:CA	1:H1:3325:G:N2	2.70	0.53
1:H1:370:G:N2	1:H1:373:A:C8	2.76	0.53
1:H1:625:C:C4	1:H1:626:C:C5	2.97	0.53
1:H1:675:G:C6	1:H1:676:G:C6	2.96	0.53
1:H1:790:C:H5''	1:H1:791:C:OP1	2.08	0.53
1:H1:837:G:N7	50:H1:3810:HOH:O	2.34	0.53
1:H1:943:C:C2'	1:H1:944:U:H5'	2.38	0.53
6:HF:4:ASN:OD1	6:HF:5:LYS:N	2.41	0.53
1:H1:1175:G:OP2	8:HH:28:HIS:HD2	1.90	0.53
9:HJ:126:GLU:HG3	9:HJ:137:VAL:HG11	1.90	0.53
12:HM:38:PHE:CG	12:HM:85:TYR:HD1	2.26	0.53
12:HM:89:GLN:HB2	12:HM:91:LEU:HG	1.90	0.53
16:HQ:13:PHE:CD1	16:HQ:14:ILE:N	2.76	0.53
1:H1:45:C:H5''	18:HU:14:LYS:HG2	1.88	0.53
18:HU:54:PRO:HG3	18:HU:72:GLY:C	2.29	0.53
1:A1:1073:A:C2'	1:A1:1074:A:O5'	2.56	0.53
1:A1:1308:U:C5'	28:BG:58:UNK:CG	2.85	0.53
1:A1:1185:A:O2'	1:A1:1357:A:H2	1.91	0.53
1:A1:1507:A:H1'	11:AL:4:ARG:NH2	2.23	0.53
1:A1:155:A:O2'	16:AQ:28:VAL:HG22	2.08	0.53
1:A1:155:A:H5''	1:A1:156:A:C8	2.43	0.53
1:A1:1601:U:H2'	1:A1:1602:U:H6	1.74	0.53
1:A1:1870:C:H2'	1:A1:1870:C:O2	2.07	0.53
1:A1:2241:G:OP1	22:BA:221:GLY:HA2	2.07	0.53
1:A1:2255:U:C6	1:A1:2256:G:C8	2.96	0.53
1:A1:23:U:O2'	1:A1:24:A:H5''	2.08	0.53
1:A1:2572:U:O2'	1:A1:2573:U:H5'	2.08	0.53
1:A1:2669:A:H4'	1:A1:2670:U:OP1	2.09	0.53
1:A1:2984:A:C4	1:A1:2985:C:H5	2.26	0.53
1:A1:3096:U:O2'	1:A1:3097:G:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:471:A:H2'	1:A1:472:C:O5'	2.08	0.53
1:A1:644:A:H2'	1:A1:645:A:H5''	1.89	0.53
1:A1:685:G:C4	1:A1:827:C:O4'	2.61	0.53
2:AA:21:ARG:HD3	2:AA:44:MET:HE1	1.90	0.53
7:AG:9:ASN:O	7:AG:13:LYS:HB3	2.08	0.53
9:AJ:117:ILE:HD11	9:AJ:139:ARG:HE	1.73	0.53
9:AJ:161:VAL:CG1	9:AJ:162:HIS:N	2.71	0.53
12:AM:24:PRO:HA	12:AM:109:TYR:OH	2.09	0.53
1:A1:1660:U:O2'	13:AN:79:HIS:HD2	1.90	0.53
15:AP:53:PHE:HE1	15:AP:55:THR:CG2	2.21	0.53
19:AX:175:LYS:HZ2	19:AX:178:ARG:NH1	1.94	0.53
19:AX:58:ASN:HD21	19:AX:136:GLN:NE2	2.05	0.53
2:AA:68:MET:CG	20:B2:44:A:OP1	2.56	0.53
21:B3:63:A:C6	29:BH:202:GLU:HA	2.43	0.53
1:A1:1913:G:OP2	23:BB:245:ARG:HG3	2.09	0.53
24:BC:152:VAL:CG1	24:BC:157:TYR:HE2	2.06	0.53
24:BC:163:VAL:HG22	24:BC:175:PHE:CE2	2.43	0.53
1:A1:564:A:C1'	24:BC:376:TRP:CD1	2.76	0.53
21:B3:63:A:C2	29:BH:202:GLU:HB3	2.43	0.53
19:AX:185:ARG:HG2	30:BI:118:VAL:HG21	1.90	0.53
30:BI:152:ILE:CG2	30:BI:153:GLU:N	2.71	0.53
32:BK:81:TRP:CD1	32:BK:119:PRO:HG2	2.43	0.53
1:A1:1077:U:H4'	37:BP:19:TYR:CE2	2.43	0.53
1:A1:1533:G:N2	38:BQ:131:THR:OG1	2.41	0.53
43:BV:207:PRO:HB2	43:BV:209:GLY:O	2.08	0.53
44:BW:43:MET:HA	44:BW:43:MET:HE2	1.90	0.53
20:C2:22:A:H2'	20:C2:23:U:H6	1.73	0.53
20:C2:99:U:H5''	20:C2:100:C:OP2	2.08	0.53
23:CB:220:LYS:HG2	23:CB:329:PRO:HD3	1.90	0.53
23:CB:28:ARG:H	23:CB:272:HIS:CE1	2.27	0.53
23:CB:95:THR:OG1	23:CB:96:PRO:HD2	2.09	0.53
33:CL:196:GLN:HB3	18:DU:19:ARG:HH11	1.73	0.53
38:CQ:58:ARG:HE	38:CQ:77:GLU:CD	2.11	0.53
39:CR:145:ASN:HA	39:CR:150:ILE:CG1	2.38	0.53
41:CT:58:ARG:CZ	1:D1:3325:G:C4	2.91	0.53
1:D1:1038:G:H2'	1:D1:1039:G:C8	2.43	0.53
1:D1:1109:A:C1'	1:D1:1110:U:OP2	2.52	0.53
1:D1:152:U:C5'	1:D1:153:C:OP2	2.56	0.53
1:D1:2203:A:H2'	1:D1:2204:U:C6	2.43	0.53
40:CS:3:THR:HG21	1:D1:230:G:OP1	2.08	0.53
1:D1:2539:A:C2	1:D1:2540:G:C5	2.95	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CD:59:ILE:HD11	1:D1:2669:A:N3	2.23	0.53
1:D1:3044:A:H5''	1:D1:3045:A:OP2	2.08	0.53
1:D1:3183:A:O2'	1:D1:3184:A:P	2.65	0.53
1:D1:38:A:H1'	50:D1:3762:HOH:O	2.07	0.53
1:D1:485:A:C4'	1:D1:486:C:OP1	2.43	0.53
1:D1:49:A:H2'	1:D1:50:A:H8	1.73	0.53
24:CC:107:PHE:CD1	1:D1:684:A:H4'	2.43	0.53
1:D1:90:G:H4'	4:DC:53:LYS:NZ	2.23	0.53
4:DC:98:LYS:O	4:DC:102:VAL:HG23	2.09	0.53
1:D1:3096:U:H5''	10:DK:112:LYS:NZ	2.23	0.53
33:CL:13:LYS:HZ2	16:DQ:46:ARG:HA	1.73	0.53
17:DT:41:ARG:O	17:DT:45:ARG:HG3	2.08	0.53
20:E2:2:G:H4'	20:E2:3:A:OP2	2.07	0.53
21:E3:28:C:C2'	21:E3:29:C:H5'	2.34	0.53
23:EB:114:THR:HG23	23:EB:115:LYS:N	2.22	0.53
23:EB:337:ARG:HG2	23:EB:338:LYS:O	2.08	0.53
29:EH:66:GLU:HA	29:EH:66:GLU:OE1	2.09	0.53
33:EL:64:VAL:HG21	33:EL:106:VAL:CG2	2.39	0.53
35:EN:162:HIS:O	1:F1:805:A:H5'	2.07	0.53
43:EV:170:LEU:HD11	43:EV:198:PHE:HB2	1.89	0.53
1:F1:1567:A:N6	1:F1:1578:U:H3	2.06	0.53
1:F1:157:A:O5'	16:FQ:25:HIS:CE1	2.61	0.53
1:F1:1601:U:H2'	1:F1:1602:U:H6	1.73	0.53
1:F1:167:U:H2'	1:F1:168:G:C8	2.43	0.53
1:F1:1919:A:O2'	1:F1:1920:A:C8	2.59	0.53
1:F1:2672:U:H2'	1:F1:2673:C:C6	2.43	0.53
1:F1:2789:A:C3'	1:F1:2790:A:H5''	2.37	0.53
1:F1:3100:U:O2'	1:F1:3101:G:H5'	2.07	0.53
1:F1:35:U:H1'	50:F1:3656:HOH:O	2.08	0.53
1:F1:436:U:H6	1:F1:436:U:O5'	1.91	0.53
1:F1:606:U:H2'	1:F1:607:U:C6	2.43	0.53
8:FH:107:MET:SD	8:FH:109:TYR:HE2	2.31	0.53
9:FJ:126:GLU:HG3	9:FJ:137:VAL:HG11	1.89	0.53
15:FP:31:VAL:HG22	15:FP:44:LEU:HD23	1.90	0.53
18:FU:91:ILE:CG2	18:FU:117:TYR:HE2	2.21	0.53
18:FU:132:LYS:HA	18:FU:135:LEU:CD1	2.34	0.53
23:GB:294:THR:HG22	23:GB:296:GLY:H	1.74	0.53
30:GI:13:HIS:CE1	30:GI:118:VAL:HG13	2.42	0.53
30:GI:18:LEU:O	30:GI:22:VAL:HG23	2.07	0.53
32:GK:18:GLY:HA2	1:H1:1397:G:H5''	1.91	0.53
32:GK:63:PHE:CE1	1:H1:282:G:C4	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:GM:136:GLN:HB3	34:GM:141:PRO:HD3	1.90	0.53
34:GM:156:GLY:CA	34:GM:181:PRO:HG3	2.38	0.53
34:GM:18:THR:O	34:GM:18:THR:HG23	2.08	0.53
36:GO:150:ILE:HA	36:GO:153:ASP:CG	2.28	0.53
1:H1:1049:U:C4	1:H1:1050:C:N4	2.76	0.53
30:GI:132:ARG:NH1	1:H1:1216:C:C2'	2.71	0.53
1:H1:1481:U:HO2'	1:H1:1482:A:P	2.31	0.53
1:H1:1599:G:H2'	1:H1:1600:U:O4'	2.08	0.53
1:H1:1683:U:H2'	1:H1:1684:C:C6	2.44	0.53
1:H1:1747:A:N1	1:H1:1814:U:O2'	2.38	0.53
1:H1:1907:A:C2'	1:H1:1908:A:O5'	2.56	0.53
1:H1:2258:C:O2'	1:H1:2259:U:H5'	2.08	0.53
1:H1:2354:C:O2'	1:H1:2355:C:H5'	2.08	0.53
1:H1:2649:G:H2'	1:H1:2650:U:C6	2.43	0.53
1:H1:2718:U:C2	1:H1:2719:A:C8	2.96	0.53
1:H1:3291:G:HO2'	1:H1:3292:U:P	2.23	0.53
14:HO:75:THR:HG21	14:HO:77:GLU:CG	2.37	0.53
18:HU:146:ALA:HB1	18:HU:148:ASN:HD22	1.72	0.53
1:A1:1148:U:H2'	1:A1:1149:U:C6	2.43	0.53
1:A1:1239:G:N3	19:AX:128:HIS:HE1	2.06	0.53
1:A1:1782:C:H2'	1:A1:1783:U:H5''	1.90	0.53
1:A1:169:A:C5	1:A1:251:A:C6	2.96	0.53
1:A1:2886:G:H3'	1:A1:2886:G:H8	1.73	0.53
1:A1:291:C:OP2	33:BL:68:ARG:NH1	2.36	0.53
1:A1:3071:C:C2'	1:A1:3072:G:H5'	2.39	0.53
1:A1:3230:G:H22	5:AE:142:GLU:CD	2.00	0.53
1:A1:467:A:N6	1:A1:512:G:C5	2.76	0.53
1:A1:74:G:H2'	18:AU:98:ARG:CD	2.38	0.53
1:A1:880:U:C4	1:A1:881:G:C6	2.96	0.53
1:A1:880:U:O4	1:A1:881:G:C6	2.61	0.53
1:A1:882:G:H2'	1:A1:883:A:OP2	2.08	0.53
6:AF:11:ARG:HG2	6:AF:55:LEU:HD22	1.90	0.53
7:AG:13:LYS:CB	7:AG:100:ILE:CD1	2.86	0.53
14:AO:58:ILE:HG21	14:AO:90:VAL:HG21	1.89	0.53
19:AX:42:ARG:HE	19:AX:44:PHE:HE1	1.55	0.53
19:AX:45:ALA:HA	19:AX:50:HIS:HD2	1.73	0.53
1:A1:403:G:H1'	20:B2:19:G:N2	2.22	0.53
27:BF:92:TYR:HE2	27:BF:123:ILE:CG2	2.21	0.53
24:BC:34:ARG:CZ	35:BN:24:ASN:HB3	2.38	0.53
37:BP:41:ASP:HB3	37:BP:97:ARG:NH1	2.23	0.53
40:BS:82:GLU:HG2	40:BS:83:LYS:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:33:PRO:HA	23:CB:340:ILE:HA	1.90	0.53
27:CF:169:PRO:HA	27:CF:216:ASN:HD21	1.73	0.53
31:CJ:11:VAL:CG1	31:CJ:11:VAL:O	2.55	0.53
32:CK:24:LYS:CD	1:D1:967:U:O4	2.57	0.53
35:CN:68:ILE:CG2	35:CN:81:ILE:HD13	2.39	0.53
47:CO:84:THR:O	47:CO:88:ARG:HG3	2.07	0.53
1:D1:1226:C:H4'	1:D1:1227:A:OP2	2.05	0.53
1:D1:2189:G:N7	50:D1:4666:HOH:O	2.33	0.53
1:D1:2508:U:C4'	1:D1:2509:U:OP1	2.53	0.53
1:D1:2817:U:C2'	1:D1:2818:G:H5'	2.39	0.53
1:D1:3100:U:H2'	1:D1:3101:G:C5'	2.37	0.53
1:D1:3110:U:OP2	10:DK:111:ARG:NH1	2.42	0.53
1:D1:909:A:OP1	2:DA:5:THR:OG1	2.22	0.53
3:DB:44:TRP:CZ3	3:DB:45:ARG:HD2	2.43	0.53
13:DN:98:LYS:HB2	13:DN:101:LYS:HB2	1.90	0.53
20:E2:114:G:C3'	20:E2:114:G:C8	2.90	0.53
20:E2:140:U:H2'	20:E2:141:G:O4'	2.08	0.53
23:EB:28:ARG:H	23:EB:272:HIS:CE1	2.27	0.53
24:EC:202:ARG:O	24:EC:203:ASN:HB2	2.08	0.53
1:F1:1062:A:C6	1:F1:1063:C:C4	2.97	0.53
1:F1:1113:A:H2'	1:F1:1114:C:C6	2.42	0.53
1:F1:1922:G:O2'	1:F1:1923:G:H5'	2.08	0.53
1:F1:2132:U:H2'	1:F1:2138:A:N6	2.23	0.53
1:F1:915:C:O2'	1:F1:2319:A:N3	2.35	0.53
1:F1:1475:A:C2	1:F1:2351:A:C4	2.96	0.53
1:F1:2632:A:H2'	1:F1:2634:G:OP2	2.08	0.53
1:F1:2665:G:C5	1:F1:2669:A:N6	2.76	0.53
34:EM:38:ILE:HD11	1:F1:2738:G:O3'	2.08	0.53
1:F1:3100:U:H2'	1:F1:3101:G:H5'	1.89	0.53
1:F1:3191:G:C5	1:F1:3218:U:O4	2.61	0.53
1:F1:511:U:H5''	14:FO:70:VAL:CG2	2.38	0.53
24:EC:319:ARG:HD2	1:F1:634:G:C8	2.44	0.53
1:F1:766:G:O2'	1:F1:767:C:P	2.66	0.53
2:FA:21:ARG:CZ	2:FA:44:MET:CE	2.87	0.53
1:F1:838:G:H1'	2:FA:50:TRP:CZ2	2.43	0.53
9:FJ:201:ASP:O	9:FJ:224:LEU:CD2	2.56	0.53
13:FN:41:VAL:HG23	13:FN:77:LEU:CD2	2.37	0.53
24:EC:152:VAL:HG12	14:FO:76:ILE:HD11	1.91	0.53
19:FX:167:LYS:CG	19:FX:188:THR:HG21	2.37	0.53
21:G3:83:G:C5'	50:G3:303:HOH:O	2.56	0.53
24:GC:27:ALA:HB2	24:GC:272:THR:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:GE:103:VAL:HG23	26:GE:110:ILE:HG23	1.91	0.53
26:GE:67:VAL:O	26:GE:71:ILE:HG13	2.08	0.53
27:GF:22:PHE:O	1:H1:2553:G:H5''	2.08	0.53
27:GF:36:GLN:HG3	27:GF:37:PRO:CD	2.32	0.53
28:GG:22:UNK:O	28:GG:119:UNK:N	2.40	0.53
32:GK:100:PRO:HA	18:HU:164:LYS:CE	2.39	0.53
33:GL:53:TYR:O	33:GL:54:LYS:HG2	2.08	0.53
34:GM:79:ASP:OD1	34:GM:79:ASP:N	2.41	0.53
44:GW:43:MET:CE	44:GW:43:MET:HA	2.38	0.53
1:H1:1048:U:C2'	1:H1:1049:U:H5''	2.29	0.53
1:H1:1433:A:H5'	1:H1:1434:G:OP2	2.08	0.53
1:H1:1592:G:C6	1:H1:1593:A:C6	2.96	0.53
1:H1:158:G:H2'	1:H1:159:G:H8	1.73	0.53
1:H1:1922:G:O2'	1:H1:1923:G:H5'	2.08	0.53
1:H1:2309:U:C4'	1:H1:2310:G:OP2	2.56	0.53
1:H1:2391:G:H5'	1:H1:2392:A:C5'	2.38	0.53
1:H1:2545:A:O2'	1:H1:2546:A:OP1	2.23	0.53
1:H1:2731:C:O4'	4:HC:18:HIS:CD2	2.62	0.53
1:H1:3022:A:H2'	1:H1:3023:C:C6	2.44	0.53
1:H1:3080:A:N3	1:H1:3082:C:O2'	2.40	0.53
1:H1:3235:U:N3	8:HH:12:THR:O	2.42	0.53
24:GC:60:ARG:NH1	1:H1:352:G:O6	2.37	0.53
1:H1:436:U:H6	1:H1:436:U:O5'	1.92	0.53
35:GN:173:LYS:HE2	1:H1:87:A:OP2	2.09	0.53
6:HF:121:THR:O	6:HF:121:THR:HG22	2.09	0.53
7:HG:9:ASN:O	7:HG:13:LYS:HB3	2.08	0.53
9:HJ:118:HIS:HE1	9:HJ:146:VAL:HB	1.69	0.53
15:HP:32:TYR:CD1	15:HP:32:TYR:N	2.75	0.53
33:GL:201:ARG:HG2	18:HU:23:PHE:CD2	2.44	0.53
19:HX:58:ASN:O	19:HX:62:LEU:HG	2.08	0.53
1:A1:1223:U:C2'	1:A1:1223:U:O2	2.54	0.53
1:A1:1367:A:H2'	1:A1:1368:U:H6	1.72	0.53
1:A1:1411:U:C2	1:A1:1412:U:C5	2.96	0.53
1:A1:1600:U:C4	1:A1:1601:U:C5	2.96	0.53
1:A1:167:U:O2'	42:BU:113:ASN:HB3	2.09	0.53
1:A1:2278:G:O2'	1:A1:2279:C:O5'	2.27	0.53
1:A1:2308:A:OP2	50:A1:4538:HOH:O	2.18	0.53
1:A1:2508:U:C4'	1:A1:2509:U:OP1	2.55	0.53
1:A1:302:G:N2	1:A1:2766:A:C8	2.75	0.53
1:A1:3161:A:C2	1:A1:3176:A:C6	2.96	0.53
1:A1:578:G:C2'	1:A1:579:G:H5''	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:90:G:O3'	4:AC:53:LYS:NZ	2.41	0.53
6:AF:8:GLN:NE2	6:AF:11:ARG:NH1	2.56	0.53
7:AG:13:LYS:CG	7:AG:14:LEU:N	2.71	0.53
1:A1:3096:U:H5''	10:AK:112:LYS:HZ3	1.73	0.53
21:B3:48:G:O2'	34:BM:227:GLN:HG3	2.08	0.53
25:BD:20:ASN:HB2	25:BD:68:HIS:HB3	1.91	0.53
26:BE:135:LYS:H	26:BE:138:GLU:HG3	1.73	0.53
29:BH:16:PRO:HG3	29:BH:128:ARG:HH11	1.73	0.53
32:BK:74:VAL:CG1	32:BK:113:LEU:HG	2.39	0.53
32:BK:91:LYS:HG2	32:BK:92:TYR:CD1	2.44	0.53
44:BW:14:ASN:HD21	44:BW:17:LYS:HE3	1.73	0.53
21:C3:83:G:H5''	50:C3:304:HOH:O	2.08	0.53
22:CA:180:ILE:O	1:D1:2145:A:O3'	2.27	0.53
24:CC:14:GLU:HB3	24:CC:17:LYS:HG3	1.90	0.53
24:CC:33:ILE:HD13	24:CC:135:ALA:HA	1.90	0.53
29:CH:213:ARG:HH12	1:D1:1040:A:H1'	1.74	0.53
30:CI:55:GLU:O	30:CI:59:LYS:HE2	2.07	0.53
37:CP:112:ASN:HB3	37:CP:128:THR:OG1	2.08	0.53
38:CQ:38:ILE:CD1	38:CQ:93:ILE:HG21	2.37	0.53
40:CS:24:HIS:CD2	40:CS:25:LEU:N	2.77	0.53
45:CX:22:PHE:O	45:CX:23:GLU:HB2	2.08	0.53
45:CX:43:ARG:HA	45:CX:48:PHE:CD2	2.44	0.53
1:D1:2886:G:H3'	1:D1:2886:G:C8	2.43	0.53
1:D1:3045:A:H4'	1:D1:3046:A:OP1	2.07	0.53
1:D1:3120:U:H2'	1:D1:3120:U:O2	2.06	0.53
1:D1:25:C:O2'	1:D1:326:A:N3	2.39	0.53
1:D1:568:A:N1	1:D1:602:A:C2	2.77	0.53
33:CL:185:ARG:NH1	1:D1:62:G:OP1	2.40	0.53
2:DA:14:LYS:NZ	3:DB:52:TYR:HE1	2.06	0.53
1:D1:3230:G:C6	5:DE:119:ARG:HD2	2.42	0.53
1:D1:3228:U:C4	5:DE:146:LYS:HG3	2.43	0.53
18:DU:132:LYS:HA	18:DU:135:LEU:CD1	2.34	0.53
19:DX:16:MET:HE3	19:DX:121:ILE:HD12	1.89	0.53
22:EA:104:PRO:HB2	22:EA:106:ASN:OD1	2.08	0.53
24:EC:289:LEU:HD12	35:EN:24:ASN:HD22	1.74	0.53
26:EE:45:ILE:HG12	26:EE:55:LEU:CD2	2.38	0.53
30:EI:80:TRP:CH2	30:EI:84:ARG:NH1	2.77	0.53
33:EL:177:LYS:HG2	33:EL:185:ARG:HH21	1.72	0.53
1:F1:1376:A:H5''	1:F1:1377:A:O5'	2.07	0.53
33:EL:54:LYS:HD3	1:F1:149:U:OP1	2.08	0.53
1:F1:1767:U:C4'	1:F1:1768:G:OP2	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2247:A:C2	1:F1:2260:C:O2	2.60	0.53
1:F1:2617:G:H5''	1:F1:2618:C:OP2	2.07	0.53
1:F1:2907:A:P	50:F1:4327:HOH:O	2.66	0.53
23:EB:364:GLY:HA3	1:F1:3288:A:H4'	1.90	0.53
1:F1:70:C:N4	1:F1:72:A:C6	2.76	0.53
4:FC:10:THR:O	4:FC:18:HIS:HA	2.09	0.53
7:FG:13:LYS:CB	7:FG:100:ILE:CD1	2.86	0.53
1:F1:296:G:C3'	16:FQ:34:LEU:HD21	2.39	0.53
22:GA:49:ILE:HA	22:GA:59:LEU:O	2.09	0.53
24:GC:205:ARG:HH21	40:GS:11:ARG:NH1	2.07	0.53
29:GH:182:SER:O	29:GH:185:ARG:HB2	2.08	0.53
33:GL:115:VAL:HG22	33:GL:134:LEU:CD2	2.38	0.53
33:GL:192:TRP:CZ2	33:GL:196:GLN:HG3	2.44	0.53
34:GM:166:ALA:HB3	34:GM:173:ILE:CD1	2.39	0.53
34:GM:240:VAL:HG12	34:GM:242:SER:H	1.73	0.53
42:GU:97:THR:HG22	42:GU:98:LYS:H	1.73	0.53
44:GW:54:LEU:HA	44:GW:94:HIS:HB2	1.89	0.53
45:GX:75:LYS:NZ	45:GX:97:GLU:OE1	2.41	0.53
1:H1:1736:G:C2	1:H1:1737:A:C2	2.96	0.53
1:H1:2219:A:N1	1:H1:2771:U:O2'	2.34	0.53
23:GB:250:ILE:CG1	1:H1:2388:G:H4'	2.39	0.53
1:H1:2737:A:C2'	1:H1:2738:G:H5'	2.38	0.53
1:H1:2865:G:H2'	1:H1:2866:G:H8	1.72	0.53
1:H1:2962:U:H2'	1:H1:2963:U:C6	2.43	0.53
26:GE:42:SER:O	1:H1:3168:A:N3	2.40	0.53
1:H1:430:G:H2'	1:H1:431:A:C8	2.44	0.53
35:GN:107:THR:HG21	1:H1:700:G:H3'	1.91	0.53
6:HF:38:ILE:HD12	6:HF:48:ILE:HB	1.90	0.53
9:HJ:186:ILE:CD1	9:HJ:197:LEU:HB2	2.38	0.53
9:HJ:61:ARG:HD3	9:HJ:106:ASN:OD1	2.08	0.53
16:HQ:15:THR:HG21	18:HU:103:CYS:SG	2.48	0.53
32:GK:142:GLY:C	18:HU:173:ARG:NH2	2.54	0.53
1:A1:1627:A:C6	1:A1:1628:A:C6	2.97	0.53
1:A1:1937:G:HO2'	1:A1:2116:A:H1'	1.72	0.53
1:A1:253:G:C2'	1:A1:254:G:H5''	2.33	0.53
1:A1:2571:U:H2'	1:A1:2572:U:C6	2.44	0.53
1:A1:2719:A:C4	1:A1:2720:G:C8	2.97	0.53
1:A1:2819:G:N7	50:A1:4303:HOH:O	2.33	0.53
1:A1:2863:U:H2'	1:A1:2863:U:O2	2.07	0.53
1:A1:3005:A:H2'	1:A1:3006:A:H8	1.73	0.53
1:A1:3120:U:O2	1:A1:3120:U:H2'	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3157:C:OP1	1:A1:3159:A:H1'	2.09	0.53
1:A1:3240:A:H2'	1:A1:3241:U:O4'	2.09	0.53
1:A1:512:G:C2	1:A1:513:G:C5	2.96	0.53
1:A1:556:A:N1	1:A1:611:A:H2	2.07	0.53
1:A1:581:C:H2'	1:A1:582:A:C5'	2.37	0.53
6:AF:121:THR:HG22	6:AF:121:THR:O	2.08	0.53
8:AH:19:ALA:O	8:AH:37:LEU:HA	2.09	0.53
2:AA:67:TYR:HB3	20:B2:44:A:OP1	2.09	0.53
1:A1:2931:G:OP2	23:BB:2:SER:HB2	2.09	0.53
24:BC:149:ILE:HG22	24:BC:149:ILE:O	2.09	0.53
1:A1:267:A:H5''	33:BL:47:LYS:NZ	2.22	0.53
34:BM:48:LYS:HE2	34:BM:145:ILE:CD1	2.38	0.53
34:BM:54:ARG:NH1	34:BM:149:GLY:HA3	2.24	0.53
36:BO:149:LYS:CD	36:BO:151:LYS:HE2	2.38	0.53
36:BO:84:THR:O	36:BO:88:ARG:HG3	2.07	0.53
18:AU:122:VAL:O	42:BU:120:PHE:HA	2.08	0.53
46:BY:60:CYS:SG	46:BY:62:LYS:HG2	2.48	0.53
20:C2:107:C:C5	20:C2:135:A:C5	2.96	0.53
20:C2:3:A:C2	1:D1:3243:A:O4'	2.61	0.53
23:CB:162:THR:HG22	23:CB:162:THR:O	2.07	0.53
27:CF:183:VAL:HG12	27:CF:185:LYS:HE3	1.89	0.53
27:CF:22:PHE:CE1	13:DN:54:THR:O	2.62	0.53
29:CH:182:SER:O	29:CH:185:ARG:HB2	2.08	0.53
29:CH:80:ILE:HG22	29:CH:81:SER:N	2.23	0.53
34:CM:125:VAL:HG21	34:CM:205:PHE:CZ	2.43	0.53
35:CN:167:VAL:HG13	35:CN:169:SER:H	1.74	0.53
20:C2:7:U:OP1	38:CQ:64:ARG:HG3	2.08	0.53
1:D1:1054:G:C6	1:D1:1055:A:N6	2.76	0.53
1:D1:1172:G:O6	1:D1:1185:A:H2	1.92	0.53
1:D1:1593:A:C5	1:D1:1594:C:N4	2.77	0.53
1:D1:282:G:H22	1:D1:304:U:H4'	1.68	0.53
1:D1:2841:G:O6	50:D1:4316:HOH:O	2.17	0.53
1:D1:2889:G:P	50:D1:4732:HOH:O	2.67	0.53
1:D1:2934:A:H1'	1:D1:2969:U:C4	2.43	0.53
3:DB:33:THR:CG2	3:DB:35:ILE:H	2.06	0.53
5:DE:115:ASP:OD1	5:DE:115:ASP:N	2.41	0.53
1:D1:527:A:H5'	5:DE:13:SER:OG	2.09	0.53
14:DO:114:PHE:O	14:DO:117:ALA:HB3	2.08	0.53
22:EA:212:HIS:O	22:EA:213:GLY:C	2.45	0.53
22:EA:214:GLY:CA	1:F1:2955:A:OP1	2.57	0.53
24:EC:99:ASN:HD22	24:EC:100:GLN:NE2	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ED:20:ASN:HB2	25:ED:68:HIS:HB3	1.90	0.53
44:EW:28:ALA:CA	44:EW:66:ILE:HD11	2.34	0.53
45:EX:3:ILE:HG22	45:EX:3:ILE:O	2.09	0.53
1:F1:105:A:O2'	1:F1:323:A:N3	2.40	0.53
1:F1:1078:U:C5	1:F1:1079:A:C5	2.97	0.53
1:F1:1091:G:O2'	1:F1:1092:C:OP1	2.23	0.53
1:F1:1130:A:H2	1:F1:1390:A:HO2'	1.53	0.53
1:F1:1435:C:O3'	50:F1:4190:HOH:O	2.19	0.53
1:F1:1621:G:H2'	1:F1:1622:A:C8	2.44	0.53
22:EA:239:ARG:HH12	1:F1:2158:C:H5'	1.67	0.53
1:F1:2300:G:C4'	1:F1:2301:C:OP2	2.46	0.53
1:F1:2651:A:C5	50:F1:4674:HOH:O	2.55	0.53
1:F1:2886:G:H4'	1:F1:2887:C:OP2	2.09	0.53
1:F1:2934:A:H1'	1:F1:2969:U:C4	2.43	0.53
1:F1:3030:A:H2'	1:F1:3031:U:C6	2.44	0.53
1:F1:3161:A:C2	1:F1:3176:A:C6	2.96	0.53
1:F1:512:G:N2	1:F1:513:G:C4	2.76	0.53
1:F1:629:A:OP1	1:F1:629:A:H4'	2.08	0.53
1:F1:838:G:H4'	2:FA:47:TYR:CE2	2.44	0.53
1:F1:871:A:H2'	1:F1:872:A:H8	1.72	0.53
5:FE:56:GLY:C	5:FE:58:PHE:N	2.60	0.53
6:FF:13:VAL:HG22	6:FF:55:LEU:HD23	1.91	0.53
6:FF:41:GLU:OE1	6:FF:73:LYS:HD3	2.08	0.53
24:EC:251:HIS:CE1	14:FO:12:ASN:OD1	2.62	0.53
22:GA:117:VAL:HG11	22:GA:149:ILE:CD1	2.38	0.53
26:GE:5:LEU:HB2	26:GE:58:TRP:CZ3	2.44	0.53
33:GL:38:LYS:HB2	33:GL:62:TRP:CZ2	2.43	0.53
35:GN:37:LEU:O	35:GN:41:THR:CB	2.57	0.53
39:GR:75:LEU:HD21	39:GR:93:TYR:CE2	2.43	0.53
39:GR:75:LEU:HB2	39:GR:91:VAL:HB	1.90	0.53
40:GS:55:VAL:HG12	40:GS:56:LEU:N	2.22	0.53
42:GU:33:ARG:O	42:GU:37:ILE:HG13	2.08	0.53
35:GN:3:ILE:HG23	43:GV:106:ARG:O	2.09	0.53
1:H1:2123:U:C2'	1:H1:2124:C:H5'	2.38	0.53
1:H1:223:C:HO2'	1:H1:224:C:P	2.31	0.53
1:H1:2521:A:C6	1:H1:2522:A:C6	2.97	0.53
1:H1:2577:G:H2'	1:H1:2578:A:O5'	2.08	0.53
1:H1:3191:G:HO2'	1:H1:3192:C:P	2.31	0.53
35:GN:57:ARG:NH1	1:H1:697:A:H5'	2.24	0.53
1:H1:70:C:N4	1:H1:72:A:C6	2.76	0.53
50:H1:4001:HOH:O	17:HT:19:ASN:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:100:A:O2'	18:AU:60:THR:OG1	2.04	0.53
1:A1:1196:A:N6	1:A1:1357:A:C8	2.76	0.53
1:A1:1187:C:OP1	1:A1:1359:A:H5''	2.09	0.53
1:A1:1599:G:C4	1:A1:1600:U:C6	2.96	0.53
1:A1:1919:A:O2'	1:A1:1920:A:C8	2.59	0.53
1:A1:223:C:HO2'	1:A1:224:C:P	2.30	0.53
1:A1:2521:A:C6	27:BF:43:ARG:NH1	2.77	0.53
1:A1:2726:C:C2'	1:A1:2727:A:H5'	2.38	0.53
1:A1:2919:C:N3	1:A1:2923:U:H5	2.04	0.53
1:A1:3259:U:O2'	38:BQ:57:LYS:HE2	2.08	0.53
1:A1:800:G:O2'	1:A1:801:U:C5	2.62	0.53
1:A1:986:C:H4'	1:A1:987:A:C5'	2.38	0.53
2:AA:77:ASN:ND2	20:B2:95:C:H5''	2.23	0.53
3:AB:7:LEU:O	3:AB:8:ASN:C	2.47	0.53
18:AU:44:VAL:O	18:AU:44:VAL:HG12	2.08	0.53
20:B2:130:C:O2'	39:BR:64:HIS:HD2	1.92	0.53
22:BA:48:ASP:OD1	22:BA:49:ILE:N	2.42	0.53
23:BB:337:ARG:HG2	23:BB:338:LYS:O	2.08	0.53
23:BB:381:ASP:HB3	23:BB:384:LYS:CB	2.39	0.53
27:BF:92:TYR:CE1	27:BF:200:ASP:OD2	2.62	0.53
30:BI:35:VAL:HG12	30:BI:36:ARG:N	2.23	0.53
1:A1:656:C:OP1	30:BI:92:PRO:HG2	2.09	0.53
31:BJ:32:ASN:HD21	31:BJ:117:GLN:H	1.56	0.53
33:BL:19:MET:CE	33:BL:19:MET:HA	2.38	0.53
33:BL:38:LYS:HB2	33:BL:62:TRP:CZ2	2.43	0.53
37:BP:17:LYS:NZ	37:BP:47:SER:HB3	2.24	0.53
37:BP:57:TYR:OH	37:BP:87:LYS:HD2	2.08	0.53
45:BX:45:ARG:HA	45:BX:54:MET:CE	2.39	0.53
20:C2:134:C:C6	20:C2:134:C:H3'	2.43	0.53
22:CA:70:TYR:OH	1:D1:2548:G:OP1	2.27	0.53
23:CB:360:SER:O	23:CB:362:LYS:HE2	2.08	0.53
25:CD:93:LYS:HE2	25:CD:156:LYS:NZ	2.23	0.53
29:CH:139:ARG:HG2	29:CH:173:PHE:HE1	1.74	0.53
29:CH:48:TYR:CE2	29:CH:142:GLU:CG	2.92	0.53
32:CK:98:LYS:HD2	18:DU:164:LYS:O	2.08	0.53
33:CL:47:LYS:NZ	1:D1:267:A:H5''	2.23	0.53
35:CN:128:ALA:O	35:CN:132:PRO:HD3	2.09	0.53
38:CQ:134:ALA:O	38:CQ:135:HIS:HB2	2.08	0.53
40:CS:82:GLU:HG2	40:CS:83:LYS:HG3	1.90	0.53
42:CU:21:GLU:HG2	42:CU:58:TYR:OH	2.08	0.53
46:CY:33:GLN:HG3	46:CY:34:HIS:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1106:U:O2	1:D1:1110:U:C2	2.62	0.53
1:D1:135:A:H2'	1:D1:242:G:N7	2.24	0.53
1:D1:155:A:H1'	16:DQ:27:ALA:CB	2.39	0.53
1:D1:1839:A:O2'	1:D1:1840:U:C5	2.62	0.53
1:D1:3109:C:H5''	10:DK:111:ARG:HH12	1.74	0.53
1:D1:766:G:O2'	1:D1:767:C:P	2.66	0.53
1:D1:848:C:H2'	1:D1:849:U:C6	2.44	0.53
2:DA:21:ARG:NH1	2:DA:39:TYR:HA	2.23	0.53
1:D1:3226:A:C2	5:DE:83:ASN:O	2.61	0.53
9:DJ:99:GLU:HG3	9:DJ:101:LEU:N	2.23	0.53
9:DJ:143:ALA:C	9:DJ:144:ASN:ND2	2.57	0.53
12:DM:77:TYR:O	12:DM:77:TYR:HD1	1.92	0.53
18:DU:123:LEU:HD23	18:DU:136:VAL:HG22	1.89	0.53
21:E3:48:G:H2'	21:E3:49:A:C8	2.44	0.53
21:E3:92:C:H2'	21:E3:93:G:C8	2.44	0.53
22:EA:133:CYS:SG	1:F1:2173:A:H5''	2.48	0.53
24:EC:272:THR:CG2	24:EC:273:TYR:H	2.22	0.53
26:EE:23:ARG:HH11	26:EE:39:ARG:HA	1.74	0.53
27:EF:69:GLN:HG2	27:EF:222:ARG:HH12	1.74	0.53
33:EL:110:VAL:CG1	33:EL:113:LEU:HG	2.36	0.53
33:EL:121:VAL:HG11	33:EL:131:GLU:CD	2.29	0.53
33:EL:149:ASN:O	33:EL:152:CYS:HB2	2.08	0.53
21:E3:10:C:N3	34:EM:20:TYR:HD1	2.05	0.53
34:EM:240:VAL:HG12	34:EM:242:SER:H	1.72	0.53
21:E3:27:A:H5''	34:EM:57:ASN:ND2	2.20	0.53
35:EN:10:ARG:O	1:F1:1369:C:H4'	2.09	0.53
32:EK:60:MET:C	35:EN:172:ARG:NH1	2.61	0.53
38:EQ:107:LYS:CB	38:EQ:109:LEU:HG	2.38	0.53
38:EQ:66:THR:HG22	38:EQ:66:THR:O	2.07	0.53
39:ER:145:ASN:HA	39:ER:150:ILE:CG1	2.39	0.53
40:ES:50:ARG:HB2	40:ES:114:ARG:NH2	2.24	0.53
1:F1:1394:G:H8	1:F1:1394:G:O5'	1.92	0.53
1:F1:1492:G:C2'	1:F1:1493:A:H5''	2.38	0.53
38:EQ:131:THR:OG1	1:F1:1533:G:N2	2.42	0.53
1:F1:1595:A:OP2	1:F1:1596:U:C5	2.61	0.53
1:F1:1650:U:O2	1:F1:1668:A:H5'	2.08	0.53
1:F1:1745:U:C2	1:F1:1748:U:C5	2.96	0.53
1:F1:1821:U:H1'	1:F1:1822:G:C2	2.43	0.53
1:F1:2187:C:H2'	1:F1:2188:U:H5'	1.90	0.53
1:F1:2203:A:H2'	1:F1:2204:U:C6	2.43	0.53
1:F1:2750:G:H4'	1:F1:2751:A:OP1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2814:U:C2'	1:F1:2815:U:H5'	2.38	0.53
1:F1:3008:U:OP1	9:FJ:31:SER:HB3	2.09	0.53
1:F1:644:A:H2'	1:F1:645:A:H5''	1.90	0.53
4:FC:63:THR:HG22	4:FC:87:LYS:HG2	1.90	0.53
5:FE:86:PRO:HB2	5:FE:153:GLN:NE2	2.02	0.53
6:FF:121:THR:HG22	6:FF:121:THR:O	2.09	0.53
12:FM:24:PRO:HA	12:FM:109:TYR:OH	2.07	0.53
42:EU:122:LEU:O	18:FU:148:ASN:ND2	2.41	0.53
32:EK:142:GLY:C	18:FU:173:ARG:NH2	2.61	0.53
18:FU:54:PRO:HG3	18:FU:72:GLY:O	2.08	0.53
22:GA:181:LEU:HD12	46:GY:14:TYR:CE1	2.44	0.53
22:GA:188:HIS:O	22:GA:191:ALA:HB3	2.09	0.53
22:GA:219:HIS:HA	50:GA:403:HOH:O	2.08	0.53
23:GB:106:TRP:HB2	23:GB:133:HIS:CE1	2.44	0.53
25:GD:106:ILE:HD12	25:GD:127:PHE:CE1	2.43	0.53
29:GH:48:TYR:CE2	29:GH:142:GLU:CG	2.92	0.53
40:GS:107:LYS:O	40:GS:107:LYS:HG3	2.07	0.53
42:GU:44:LYS:HA	42:GU:47:ARG:HD2	1.91	0.53
43:GV:129:PRO:HA	43:GV:224:TRP:CG	2.43	0.53
43:GV:132:THR:CG2	43:GV:227:ARG:HG3	2.39	0.53
1:H1:1051:C:C2'	1:H1:1052:A:H8	2.21	0.53
1:H1:1102:U:H2'	17:HT:45:ARG:HH12	1.73	0.53
1:H1:1693:U:H2'	1:H1:1694:C:C6	2.43	0.53
1:H1:1702:G:H2'	1:H1:1703:A:H8	1.73	0.53
1:H1:2264:U:O2	1:H1:2264:U:C2'	2.56	0.53
1:H1:2669:A:H3'	1:H1:2670:U:C6	2.44	0.53
1:H1:3109:C:O3'	1:H1:3110:U:H6	1.92	0.53
1:H1:3140:C:H4'	1:H1:3254:A:O4'	2.09	0.53
1:H1:76:U:C2'	1:H1:77:A:H5'	2.39	0.53
5:HE:55:ALA:HB2	8:HH:109:TYR:CE1	2.32	0.53
7:HG:35:ARG:HH12	13:HN:77:LEU:C	2.12	0.53
15:HP:58:PRO:O	15:HP:61:ALA:HB3	2.08	0.53
1:A1:1104:C:C6	17:AT:42:ASN:OD1	2.62	0.53
1:A1:1380:C:H42	14:AO:32:THR:HG21	1.73	0.53
1:A1:141:C:C2'	1:A1:142:A:H5'	2.38	0.53
1:A1:1543:A:H2'	1:A1:1544:U:H6	1.73	0.53
1:A1:1601:U:H2'	1:A1:1602:U:C6	2.44	0.53
1:A1:1819:C:H4'	1:A1:1820:U:OP2	2.09	0.53
1:A1:2170:A:H4'	1:A1:2171:U:OP2	2.09	0.53
1:A1:2400:C:O2	1:A1:2807:A:N1	2.42	0.53
1:A1:2577:G:H2'	1:A1:2578:A:O5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2669:A:H3'	1:A1:2670:U:C6	2.44	0.53
1:A1:2944:A:P	50:A1:4193:HOH:O	2.60	0.53
1:A1:316:A:C2	1:A1:317:A:C4	2.97	0.53
1:A1:368:A:C4'	1:A1:369:U:OP1	2.57	0.53
1:A1:559:G:H2'	1:A1:560:A:H8	1.74	0.53
1:A1:606:U:H2'	1:A1:607:U:C6	2.42	0.53
1:A1:624:G:O2'	1:A1:625:C:P	2.67	0.53
1:A1:685:G:O6	32:BK:19:HIS:HD2	1.92	0.53
1:A1:978:G:OP2	17:AT:15:LYS:NZ	2.30	0.53
2:AA:36:ALA:O	2:AA:45:ARG:HD3	2.09	0.53
1:A1:1857:G:OP1	3:AB:10:LYS:HD2	2.09	0.53
1:A1:1708:U:OP1	12:AM:88:LYS:HE2	2.09	0.53
18:AU:146:ALA:HB1	18:AU:148:ASN:HD22	1.73	0.53
18:AU:9:VAL:HG21	35:BN:168:ARG:HH11	1.72	0.53
6:AF:7:VAL:O	19:AX:162:LYS:HA	2.09	0.53
23:BB:55:HIS:CD2	23:BB:55:HIS:N	2.76	0.53
24:BC:195:ARG:NH1	24:BC:204:ARG:HB3	2.24	0.53
10:AK:89:TYR:CE2	26:BE:178:TYR:HB3	2.44	0.53
26:BE:48:PRO:HB3	26:BE:53:VAL:HG22	1.91	0.53
27:BF:149:ASP:C	27:BF:149:ASP:OD1	2.48	0.53
33:BL:189:LYS:O	33:BL:193:ARG:HG3	2.09	0.53
34:BM:163:LEU:CD1	34:BM:173:ILE:HG21	2.38	0.53
34:BM:38:ILE:HD12	37:BP:70:ARG:CZ	2.38	0.53
34:BM:56:THR:HG22	34:BM:58:THR:N	2.14	0.53
35:BN:30:LEU:HD11	35:BN:124:PHE:HB2	1.91	0.53
40:BS:118:LEU:HD23	40:BS:118:LEU:N	2.24	0.53
41:BT:10:PHE:HZ	41:BT:51:ILE:HD12	1.74	0.53
42:BU:33:ARG:O	42:BU:37:ILE:HG13	2.09	0.53
42:BU:44:LYS:HA	42:BU:47:ARG:HD2	1.91	0.53
42:BU:81:PRO:HD2	42:BU:84:ILE:HD12	1.89	0.53
43:BV:103:PHE:C	43:BV:104:ARG:HG2	2.29	0.53
43:BV:223:ASP:OD1	43:BV:223:ASP:N	2.41	0.53
20:C2:100:C:H5''	20:C2:101:U:OP1	2.09	0.53
21:C3:105:C:H5'	21:C3:105:C:C6	2.39	0.53
21:C3:10:C:N3	34:CM:20:TYR:CD1	2.76	0.53
23:CB:332:ARG:CB	23:CB:332:ARG:HH11	2.22	0.53
23:CB:55:HIS:N	23:CB:55:HIS:CD2	2.74	0.53
24:CC:163:VAL:O	24:CC:166:TYR:CD2	2.54	0.53
21:C3:54:A:C2'	25:CD:152:GLN:HE21	2.22	0.53
28:CG:4:UNK:HG3	28:CG:6:UNK:CG	2.27	0.53
29:CH:75:ASN:O	29:CH:79:PHE:CD1	2.53	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:203:ASN:HD21	40:CS:10:ALA:HA	1.74	0.53
45:CX:11:ILE:HB	45:CX:65:THR:HG21	1.90	0.53
45:CX:84:LEU:HD23	45:CX:87:LEU:HD12	1.91	0.53
1:D1:1592:G:C6	1:D1:1593:A:C6	2.97	0.53
1:D1:1805:C:H2'	1:D1:1806:G:OP1	2.09	0.53
1:D1:169:A:C5	1:D1:251:A:C6	2.96	0.53
1:D1:2732:G:H2'	1:D1:2733:C:H6	1.69	0.53
1:D1:3158:G:H3'	1:D1:3159:A:C5'	2.39	0.53
1:D1:3168:A:N7	19:DX:166:VAL:CG1	2.72	0.53
6:DF:121:THR:HG22	6:DF:121:THR:O	2.09	0.53
8:DH:11:PRO:HG2	8:DH:12:THR:N	2.21	0.53
12:DM:89:GLN:HB2	12:DM:91:LEU:HG	1.91	0.53
19:DX:15:GLN:NE2	19:DX:115:GLY:HA2	2.23	0.53
24:EC:191:THR:OG1	24:EC:209:ARG:HD2	2.08	0.53
24:EC:276:THR:HG21	24:EC:282:GLY:HA2	1.90	0.53
24:EC:276:THR:HG22	24:EC:277:GLY:N	2.23	0.53
28:EG:22:UNK:O	28:EG:119:UNK:N	2.42	0.53
29:EH:139:ARG:CD	29:EH:173:PHE:HE1	2.22	0.53
21:E3:13:A:O2'	34:EM:24:ARG:CZ	2.56	0.53
35:EN:38:VAL:HG22	35:EN:47:GLN:HA	1.90	0.53
42:EU:21:GLU:HG2	42:EU:58:TYR:OH	2.09	0.53
43:EV:157:ARG:HG3	43:EV:200:TRP:CE2	2.44	0.53
45:EX:39:GLY:HA3	1:F1:663:G:OP1	2.09	0.53
1:F1:1039:G:C2'	1:F1:1041:C:H41	2.21	0.53
1:F1:1593:A:C6	1:F1:1594:C:C4	2.97	0.53
1:F1:1601:U:H2'	1:F1:1602:U:C6	2.43	0.53
1:F1:2882:U:H2'	1:F1:2883:G:H8	1.73	0.53
1:F1:2991:U:O4	50:F1:4515:HOH:O	2.16	0.53
1:F1:858:G:H2'	1:F1:859:U:O4'	2.09	0.53
1:F1:96:G:OP1	18:FU:14:LYS:NZ	2.41	0.53
1:F1:976:A:OP2	1:F1:1394:G:N2	2.42	0.53
9:FJ:122:ASP:OD1	9:FJ:123:ARG:N	2.41	0.53
12:FM:35:PHE:HD1	12:FM:65:ILE:CD1	2.22	0.53
13:FN:41:VAL:HG12	13:FN:43:VAL:HG22	1.90	0.53
13:FN:54:THR:CB	13:FN:57:MET:HG3	2.33	0.53
13:FN:98:LYS:HB2	13:FN:101:LYS:HB2	1.89	0.53
14:FO:6:TRP:HZ3	14:FO:40:LEU:CD1	2.21	0.53
35:EN:25:VAL:HG13	14:FO:7:GLU:CB	2.39	0.53
1:F1:519:A:OP1	14:FO:89:ARG:NH1	2.41	0.53
19:FX:113:LEU:CD1	19:FX:140:THR:HG21	2.38	0.53
20:G2:100:C:H5''	20:G2:101:U:OP1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:G2:129:A:C5	20:G2:130:C:C5	2.96	0.53
22:GA:212:HIS:O	22:GA:213:GLY:C	2.45	0.53
22:GA:248:ARG:NH2	50:GA:406:HOH:O	2.30	0.53
23:GB:129:ALA:O	23:GB:130:PHE:HB2	2.07	0.53
23:GB:57:LEU:HD11	23:GB:71:GLU:HB3	1.90	0.53
25:GD:89:MET:HA	25:GD:89:MET:HE3	1.89	0.53
26:GE:12:ILE:HD11	26:GE:53:VAL:CG2	2.38	0.53
29:GH:151:ALA:HA	29:GH:154:ARG:HG3	1.91	0.53
34:GM:231:TRP:HZ2	34:GM:243:VAL:HG21	1.73	0.53
38:GQ:33:GLU:OE1	38:GQ:62:PHE:CA	2.50	0.53
41:GT:41:LEU:HD13	41:GT:51:ILE:CD1	2.38	0.53
41:GT:58:ARG:CZ	1:H1:3325:G:C4	2.91	0.53
44:GW:14:ASN:CG	44:GW:17:LYS:HG3	2.28	0.53
1:H1:1808:A:H2'	1:H1:1809:C:C6	2.44	0.53
1:H1:2178:A:H2'	1:H1:2179:U:O5'	2.09	0.53
1:H1:170:A:C4	1:H1:250:U:N3	2.77	0.53
1:H1:3037:A:C2	1:H1:3079:U:C4	2.96	0.53
1:H1:3116:A:N6	1:H1:3117:G:C2	2.77	0.53
23:GB:170:ARG:NH2	1:H1:3261:U:O2'	2.40	0.53
23:GB:378:PHE:CD1	1:H1:3325:G:N2	2.76	0.53
2:HA:44:MET:CA	2:HA:44:MET:CE	2.84	0.53
9:HJ:106:ASN:HB3	9:HJ:147:LEU:HD22	1.91	0.53
9:HJ:201:ASP:O	9:HJ:224:LEU:HD21	2.08	0.53
13:HN:91:CYS:SG	13:HN:96:LEU:HD12	2.48	0.53
19:HX:93:LEU:CD1	19:HX:120:LEU:HD11	2.29	0.53
1:A1:1186:A:HO2'	1:A1:1187:C:P	2.26	0.53
1:A1:236:G:H2'	1:A1:237:A:H8	1.74	0.53
1:A1:2873:C:O2'	1:A1:2874:U:H5'	2.09	0.53
1:A1:296:G:O2'	16:AQ:32:GLY:HA2	2.09	0.53
1:A1:3229:C:HO2'	1:A1:3230:G:P	2.31	0.53
1:A1:611:A:O2'	1:A1:612:C:H5'	2.09	0.53
1:A1:784:G:C2	1:A1:797:A:N6	2.77	0.53
1:A1:790:C:H5''	1:A1:791:C:OP1	2.08	0.53
1:A1:858:G:H2'	1:A1:859:U:O4'	2.09	0.53
9:AJ:99:GLU:HG3	9:AJ:101:LEU:N	2.23	0.53
14:AO:94:ILE:HD13	14:AO:107:ALA:HB1	1.90	0.53
16:AQ:45:ILE:CD1	33:BL:6:TYR:HA	2.39	0.53
18:AU:123:LEU:HD23	18:AU:136:VAL:HG22	1.91	0.53
20:B2:10:U:H2'	20:B2:11:C:H6	1.74	0.53
21:B3:8:G:P	34:BM:33:ARG:NH1	2.76	0.53
23:CB:332:ARG:NH1	1:D1:3264:U:O2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:119:PHE:CE2	1:D1:2635:C:H4'	2.44	0.53
29:CH:68:ALA:HA	29:CH:158:LYS:HG3	1.91	0.53
32:CK:8:THR:HG21	1:D1:685:G:H5'	1.91	0.53
33:CL:135:ALA:O	33:CL:137:PRO:HD3	2.09	0.53
33:CL:28:TRP:O	33:CL:32:GLN:HG2	2.09	0.53
32:CK:61:ARG:CA	35:CN:172:ARG:HH12	2.21	0.53
40:CS:15:ARG:O	40:CS:19:PHE:HD1	1.91	0.53
1:D1:1091:G:HO2'	1:D1:1092:C:P	2.32	0.53
1:D1:137:A:H2'	1:D1:138:C:H6	1.74	0.53
1:D1:1492:G:C2'	1:D1:1493:A:H5''	2.38	0.53
47:CO:96:MET:HG2	1:D1:1746:U:H1'	1.91	0.53
1:D1:2249:U:H3	1:D1:2257:A:N6	2.07	0.53
1:D1:2278:G:O2'	1:D1:2279:C:O5'	2.27	0.53
1:D1:253:G:C2'	1:D1:254:G:H5''	2.33	0.53
1:D1:2658:U:H2'	1:D1:2659:G:C8	2.44	0.53
1:D1:3046:A:C6	1:D1:3048:A:H1'	2.44	0.53
1:D1:3071:C:C2'	1:D1:3072:G:H5'	2.39	0.53
1:D1:37:A:H5'	1:D1:38:A:OP2	2.07	0.53
1:D1:927:G:C5	1:D1:928:U:C5	2.96	0.53
2:DA:28:HIS:O	2:DA:32:LEU:N	2.41	0.53
1:D1:439:A:C5'	5:DE:126:HIS:HD1	2.22	0.53
6:DF:38:ILE:HD12	6:DF:48:ILE:HB	1.91	0.53
6:DF:56:THR:O	6:DF:57:LYS:CG	2.45	0.53
7:DG:13:LYS:HB2	7:DG:100:ILE:CD1	2.34	0.53
15:DP:58:PRO:O	15:DP:61:ALA:HB3	2.09	0.53
16:DQ:84:HIS:O	16:DQ:87:ALA:HB3	2.09	0.53
1:D1:1210:C:H5''	19:DX:171:ARG:HH21	1.73	0.53
20:E2:111:A:O2'	20:E2:112:G:OP1	2.21	0.53
22:EA:30:TYR:OH	22:EA:166:THR:OG1	2.24	0.53
24:EC:195:ARG:NH1	24:EC:204:ARG:CB	2.71	0.53
29:EH:184:LEU:CD2	29:EH:189:LYS:HD3	2.29	0.53
32:EK:148:THR:CG2	32:EK:149:ALA:N	2.72	0.53
34:EM:163:LEU:HD23	34:EM:180:PHE:CZ	2.43	0.53
34:EM:243:VAL:CG1	34:EM:247:PHE:HD2	2.21	0.53
35:EN:146:ARG:HB2	35:EN:149:TYR:CE2	2.43	0.53
37:EP:139:VAL:HG21	19:FX:30:ILE:CD1	2.28	0.53
39:ER:67:ASN:HD21	39:ER:109:LYS:HD2	1.74	0.53
43:EV:129:PRO:HA	43:EV:224:TRP:CG	2.43	0.53
44:EW:85:GLN:OE1	44:EW:85:GLN:HA	2.09	0.53
1:F1:1050:C:C4	1:F1:1051:C:N3	2.76	0.53
1:F1:1073:A:HO2'	1:F1:1074:A:C5'	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1146:C:H42	17:FT:10:LYS:HZ3	1.53	0.53
1:F1:1728:A:H2'	1:F1:1729:U:OP2	2.08	0.53
1:F1:1811:U:O2'	1:F1:1812:G:H5'	2.09	0.53
1:F1:2787:A:H5''	1:F1:2788:G:O5'	2.08	0.53
1:F1:2863:U:O2	1:F1:2863:U:H2'	2.08	0.53
1:F1:832:A:H61	1:F1:959:G:H22	1.57	0.53
1:F1:3227:A:H8	5:FE:146:LYS:HZ1	1.57	0.53
9:FJ:58:ILE:HG13	9:FJ:62:VAL:CG2	2.39	0.53
12:FM:38:PHE:CG	12:FM:85:TYR:HD1	2.26	0.53
15:FP:57:ASP:OD1	15:FP:60:ILE:HG13	2.09	0.53
33:EL:13:LYS:HZ2	16:FQ:46:ARG:HA	1.74	0.53
19:FX:92:VAL:HG12	19:FX:138:ILE:HD12	1.89	0.53
22:GA:175:ARG:HA	46:GY:69:TRP:CZ2	2.44	0.53
22:GA:68:TYR:CD1	1:H1:2519:A:N6	2.75	0.53
24:GC:50:LYS:HB2	24:GC:116:VAL:HG11	1.91	0.53
24:GC:28:VAL:HG11	24:GC:133:LEU:CD1	2.38	0.53
24:GC:174:ALA:O	24:GC:178:ARG:HG3	2.08	0.53
25:GD:104:PHE:HE1	25:GD:106:ILE:CD1	2.21	0.53
35:GN:36:PHE:CE2	1:H1:1375:A:H2'	2.43	0.53
38:GQ:26:VAL:HG21	38:GQ:92:VAL:HG21	1.90	0.53
45:GX:35:ARG:NH1	1:H1:969:C:O5'	2.42	0.53
45:GX:45:ARG:HA	45:GX:54:MET:HE3	1.91	0.53
13:AN:27:LYS:HZ2	1:H1:1045:G:H3'	1.73	0.53
1:H1:1642:G:H2'	1:H1:1643:G:C5'	2.19	0.53
1:H1:1821:U:H1'	1:H1:1822:G:C2	2.44	0.53
1:H1:1972:G:C2	1:H1:1973:A:N7	2.76	0.53
1:H1:2188:U:O2'	1:H1:2189:G:OP2	2.22	0.53
1:H1:169:A:C5	1:H1:251:A:C6	2.97	0.53
1:H1:2540:G:C5'	1:H1:2541:U:OP2	2.56	0.53
1:H1:2751:A:H2'	1:H1:2752:U:C6	2.44	0.53
1:H1:2934:A:H1'	1:H1:2969:U:C4	2.44	0.53
1:H1:3035:A:H4'	1:H1:3036:U:OP2	2.09	0.53
1:H1:405:A:O2'	1:H1:406:A:H5'	2.07	0.53
1:H1:556:A:N1	1:H1:611:A:H2	2.07	0.53
24:GC:119:ARG:HH21	1:H1:705:A:H4'	1.74	0.53
1:H1:777:C:H2'	1:H1:778:G:C8	2.44	0.53
1:H1:876:C:H2'	1:H1:877:U:H6	1.74	0.53
2:HA:36:ALA:O	2:HA:45:ARG:HD3	2.09	0.53
9:HJ:49:ILE:CD1	9:HJ:88:LEU:HD13	2.38	0.53
13:HN:118:PHE:HE2	13:HN:138:PHE:CE2	2.26	0.53
13:HN:54:THR:CB	13:HN:57:MET:HG3	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:HP:45:ARG:HD2	15:HP:46:GLY:H	1.74	0.53
1:A1:146:U:O2	1:A1:148:G:N2	2.42	0.53
1:A1:3046:A:C6	1:A1:3048:A:H1'	2.43	0.53
1:A1:3167:U:O2'	19:AX:188:THR:HB	2.08	0.53
1:A1:3233:A:HO2'	1:A1:3234:U:P	2.27	0.53
5:AE:69:LEU:HD21	5:AE:114:ASP:HB2	1.90	0.53
5:AE:91:ASN:OD1	5:AE:92:GLN:N	2.42	0.53
6:AF:111:VAL:HG12	6:AF:115:LYS:HE3	1.91	0.53
7:AG:48:CYS:SG	7:AG:49:PRO:HD2	2.49	0.53
19:AX:163:PHE:CD1	26:BE:4:LEU:HD11	2.43	0.53
22:BA:33:TYR:CA	22:BA:164:ARG:NH2	2.71	0.53
25:BD:134:PRO:HG2	25:BD:135:GLY:H	1.74	0.53
30:BI:9:ASP:O	30:BI:13:HIS:CD2	2.62	0.53
32:BK:110:PHE:CD2	32:BK:128:LYS:HD2	2.44	0.53
1:A1:1369:C:H4'	35:BN:10:ARG:O	2.09	0.53
42:BU:60:THR:O	42:BU:64:GLU:HG3	2.09	0.53
1:A1:1012:U:H1'	43:BV:123:MET:HG3	1.91	0.53
43:BV:150:PHE:CD1	43:BV:159:PRO:HA	2.44	0.53
43:BV:164:THR:HG22	43:BV:168:LYS:HE3	1.90	0.53
44:BW:85:GLN:OE1	44:BW:85:GLN:HA	2.09	0.53
20:C2:12:A:H2'	20:C2:13:A:H8	1.72	0.53
28:CG:58:UNK:HB1	28:CG:61:UNK:HG2	1.91	0.53
30:CI:152:ILE:CG2	30:CI:153:GLU:N	2.71	0.53
34:CM:138:GLU:OE1	34:CM:138:GLU:HA	2.08	0.53
43:CV:164:THR:HG22	43:CV:168:LYS:HE3	1.91	0.53
45:CX:45:ARG:HA	45:CX:54:MET:HE3	1.91	0.53
46:CY:25:VAL:O	46:CY:28:LYS:HB3	2.08	0.53
1:D1:1101:U:H5''	1:D1:1102:U:OP2	2.09	0.53
1:D1:1123:A:H1'	1:D1:1124:G:OP1	2.09	0.53
30:CI:132:ARG:HH12	1:D1:1216:C:C2'	2.20	0.53
1:D1:1256:G:H2'	1:D1:1257:G:H8	1.72	0.53
1:D1:1580:G:H5''	1:D1:1581:C:OP2	2.09	0.53
1:D1:1593:A:C6	1:D1:1594:C:C4	2.97	0.53
1:D1:1600:U:C4	1:D1:1601:U:C5	2.97	0.53
1:D1:2714:U:C2'	1:D1:2715:C:H5'	2.38	0.53
1:D1:2719:A:C4	1:D1:2720:G:C8	2.96	0.53
1:D1:2703:G:HO2'	1:D1:2740:G:H2'	1.67	0.53
1:D1:2882:U:H2'	1:D1:2883:G:H8	1.73	0.53
1:D1:3110:U:C4	1:D1:3113:G:O6	2.61	0.53
1:D1:512:G:C2	1:D1:513:G:C5	2.97	0.53
1:D1:566:U:C2'	1:D1:567:C:H5'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:579:G:H1'	19:DX:158:ASN:CA	2.39	0.53
2:DA:21:ARG:HD3	2:DA:44:MET:HE1	1.89	0.53
18:DU:45:PHE:O	18:DU:147:GLN:OE1	2.26	0.53
1:D1:71:U:H5	18:DU:64:ASN:HB3	1.73	0.53
21:E3:2:U:H4'	34:EM:278:TYR:CZ	2.44	0.53
23:EB:363:ILE:O	1:F1:3075:A:O3'	2.27	0.53
24:EC:195:ARG:NH1	24:EC:204:ARG:HB3	2.23	0.53
27:EF:43:ARG:NH1	1:F1:2521:A:C6	2.77	0.53
29:EH:169:GLN:O	29:EH:178:ARG:HG3	2.08	0.53
30:EI:152:ILE:HG22	30:EI:153:GLU:N	2.24	0.53
37:EP:82:GLY:HA3	50:FT:204:HOH:O	2.09	0.53
41:ET:27:ASP:HB2	41:ET:29:ARG:HG3	1.91	0.53
43:EV:227:ARG:HH12	43:EV:234:LEU:HD13	1.74	0.53
43:EV:38:LYS:O	43:EV:42:ILE:HG13	2.08	0.53
1:F1:1051:C:C2'	1:F1:1052:A:O4'	2.52	0.53
1:F1:1196:A:N6	1:F1:1357:A:C8	2.77	0.53
1:F1:2278:G:O2'	1:F1:2279:C:P	2.67	0.53
42:EU:98:LYS:NZ	1:F1:242:G:OP1	2.39	0.53
1:F1:284:U:H5	1:F1:305:A:C5'	2.04	0.53
1:F1:3155:A:N7	8:FH:101:GLY:C	2.63	0.53
5:FE:67:LYS:HB2	5:FE:109:THR:HG21	1.91	0.53
30:EI:196:PHE:CE1	6:FF:111:VAL:CG2	2.87	0.53
18:FU:52:LEU:HB3	18:FU:93:ILE:HA	1.89	0.53
26:EE:58:TRP:CE2	19:FX:164:PRO:HG2	2.44	0.53
20:G2:114:G:C3'	20:G2:114:G:C8	2.90	0.53
22:GA:71:LYS:HE3	22:GA:73:ASN:CG	2.29	0.53
22:GA:86:GLY:CA	1:H1:2545:A:N3	2.71	0.53
23:GB:332:ARG:HB2	23:GB:332:ARG:HH11	1.72	0.53
24:GC:155:LEU:HA	24:GC:156:PRO:C	2.30	0.53
24:GC:89:THR:CG2	24:GC:91:ARG:HB3	2.39	0.53
25:GD:108:GLU:HA	25:GD:122:ILE:CG2	2.38	0.53
28:GG:63:UNK:O	28:GG:67:UNK:HB2	2.09	0.53
29:GH:48:TYR:HE2	29:GH:142:GLU:HG3	1.70	0.53
21:G3:63:A:C8	29:GH:206:LEU:CD2	2.92	0.53
30:GI:114:VAL:O	30:GI:116:LYS:HE3	2.09	0.53
33:GL:58:GLY:O	33:GL:142:ILE:HD11	2.09	0.53
34:GM:155:THR:OG1	34:GM:179:ARG:HD3	2.08	0.53
36:GO:21:ARG:O	36:GO:53:ARG:HG3	2.09	0.53
37:GP:8:ARG:C	37:GP:11:THR:HG1	2.09	0.53
43:GV:166:VAL:HG12	43:GV:175:ILE:HG22	1.90	0.53
43:GV:37:ARG:O	43:GV:40:GLU:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GY:64:ILE:HD11	46:GY:71:LEU:CD1	2.23	0.53
1:H1:63:A:C4	1:H1:108:G:N7	2.76	0.53
27:GF:127:TYR:HE1	1:H1:146:U:O2	1.91	0.53
39:GR:38:PHE:CD2	1:H1:1605:G:C2	2.97	0.53
1:H1:2263:U:H5''	1:H1:2264:U:OP1	2.09	0.53
1:H1:2634:G:C2'	1:H1:2635:C:H5''	2.39	0.53
1:H1:368:A:C4'	1:H1:369:U:OP1	2.57	0.53
1:H1:197:G:N2	1:H1:371:A:C8	2.76	0.53
1:H1:687:C:H2'	1:H1:688:U:H6	1.74	0.53
24:GC:126:ARG:NH2	1:H1:720:C:H5''	2.24	0.53
1:H1:89:G:H1'	1:H1:93:A:N6	2.24	0.53
3:HB:44:TRP:CZ3	3:HB:45:ARG:HD2	2.44	0.53
8:HH:19:ALA:O	8:HH:37:LEU:HA	2.08	0.53
9:HJ:198:VAL:HG23	9:HJ:205:PHE:HB2	1.90	0.53
42:GU:124:ALA:HB2	18:HU:153:SER:OG	2.09	0.53
42:GU:120:PHE:CE2	18:HU:90:SER:O	2.61	0.53
1:A1:122:U:H2'	1:A1:123:C:C6	2.44	0.53
1:A1:1244:A:H2'	1:A1:1245:U:H5''	1.91	0.53
1:A1:1433:A:H5'	1:A1:1434:G:OP2	2.09	0.53
1:A1:2414:A:N6	50:A1:4020:HOH:O	2.42	0.53
1:A1:2540:G:C5'	1:A1:2541:U:OP2	2.57	0.53
1:A1:281:G:C4'	1:A1:282:G:C8	2.91	0.53
1:A1:2886:G:C8	1:A1:2886:G:H3'	2.44	0.53
1:A1:2899:C:H4'	1:A1:2900:G:O5'	2.09	0.53
1:A1:3070:C:H2'	1:A1:3071:C:H6	1.73	0.53
1:A1:3198:A:N6	1:A1:3199:G:C6	2.76	0.53
1:A1:49:A:H2'	1:A1:50:A:C8	2.44	0.53
2:AA:28:HIS:CD2	2:AA:31:LYS:HG3	2.44	0.53
8:AH:73:ILE:HG22	8:AH:91:PHE:HD2	1.73	0.53
18:AU:25:ASN:OD1	18:AU:26:GLN:N	2.42	0.53
22:BA:3:ARG:HG2	22:BA:4:VAL:H	1.73	0.53
23:BB:292:ALA:HB2	23:BB:303:ILE:N	2.24	0.53
23:BB:203:VAL:CG1	23:BB:320:ILE:HD11	2.37	0.53
23:BB:62:ARG:HG3	23:BB:62:ARG:NH1	2.13	0.53
24:BC:259:THR:HG22	24:BC:260:GLU:H	1.73	0.53
24:BC:289:LEU:HD12	35:BN:24:ASN:ND2	2.24	0.53
25:BD:93:LYS:HE2	25:BD:156:LYS:NZ	2.24	0.53
26:BE:131:LYS:HE2	26:BE:145:GLN:CG	2.39	0.53
32:BK:109:PHE:C	32:BK:110:PHE:HD1	2.12	0.53
1:A1:743:A:C2	32:BK:120:ASN:ND2	2.77	0.53
33:BL:110:VAL:CG1	33:BL:113:LEU:HG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:156:GLY:HA2	34:BM:181:PRO:CG	2.37	0.53
34:BM:163:LEU:HD23	34:BM:180:PHE:CZ	2.44	0.53
37:BP:5:TYR:CD1	37:BP:5:TYR:N	2.77	0.53
37:BP:62:GLY:HA3	37:BP:74:VAL:CG1	2.39	0.53
21:B3:84:U:OP2	43:BV:215:ARG:HD3	2.08	0.53
20:C2:19:G:N2	1:D1:403:G:H1'	2.24	0.53
21:C3:52:U:H2'	21:C3:53:U:C6	2.44	0.53
22:CA:210:HIS:CD2	22:CA:211:PRO:HD2	2.44	0.53
33:CL:183:SER:CA	33:CL:191:ASN:HD22	2.20	0.53
33:CL:80:VAL:CG1	33:CL:87:VAL:HG13	2.36	0.53
47:CO:92:LYS:HE3	1:D1:881:G:OP1	2.09	0.53
42:CU:87:LYS:HA	42:CU:93:ARG:HH21	1.74	0.53
1:D1:1005:A:O2'	1:D1:1006:C:H5'	2.08	0.53
29:CH:90:ARG:O	1:D1:1070:U:H5'	2.08	0.53
1:D1:1110:U:H5'	1:D1:1111:G:OP2	2.09	0.53
38:CQ:27:HIS:ND1	1:D1:1473:G:O6	2.41	0.53
1:D1:1594:C:N4	1:D1:1595:A:C5	2.77	0.53
1:D1:1740:U:O3'	1:D1:1741:U:H4'	2.09	0.53
1:D1:1729:U:C5	1:D1:1812:G:H1'	2.43	0.53
1:D1:2274:A:C5'	1:D1:2300:G:H22	2.22	0.53
1:D1:287:C:O2'	1:D1:288:A:H5'	2.08	0.53
1:D1:40:C:O2'	1:D1:41:A:OP1	2.27	0.53
1:D1:49:A:O2'	1:D1:50:A:H5'	2.09	0.53
1:D1:548:G:C2	1:D1:635:A:C2	2.97	0.53
1:D1:70:C:N4	1:D1:72:A:C6	2.76	0.53
1:D1:784:G:H1'	1:D1:796:A:H61	1.72	0.53
7:DG:11:GLN:HG3	7:DG:12:SER:N	2.25	0.53
1:D1:1828:C:H1'	11:DL:61:PRO:O	2.08	0.53
12:DM:19:ILE:HD13	12:DM:105:TYR:HB2	1.91	0.53
19:DX:156:MET:HE2	19:DX:161:LEU:HD21	1.90	0.53
20:E2:129:A:C5	20:E2:130:C:C5	2.97	0.53
22:EA:175:ARG:HA	46:EY:69:TRP:CZ2	2.44	0.53
23:EB:118:PHE:CE2	1:F1:2989:G:N2	2.57	0.53
25:ED:133:ARG:HB3	25:ED:134:PRO:CD	2.23	0.53
29:EH:48:TYR:CE2	29:EH:142:GLU:CG	2.92	0.53
32:EK:15:VAL:HG21	32:EK:21:ARG:HH21	1.74	0.53
34:EM:122:GLN:HB2	34:EM:130:PHE:CD2	2.43	0.53
38:EQ:61:PRO:HG3	38:EQ:78:PHE:CG	2.44	0.53
39:ER:35:VAL:CG1	1:F1:2518:A:H3'	2.38	0.53
43:EV:41:TRP:CD1	43:EV:177:CYS:SG	3.02	0.53
44:EW:49:ARG:HB2	44:EW:91:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EX:42:ASN:HD21	45:EX:44:VAL:HB	1.73	0.53
1:F1:1226:C:H4'	1:F1:1227:A:OP2	2.02	0.53
1:F1:1397:G:O2'	1:F1:1398:G:H5'	2.09	0.53
39:ER:43:LEU:HD11	1:F1:1599:G:C5'	2.39	0.53
1:F1:1740:U:O3'	1:F1:1741:U:H4'	2.09	0.53
1:F1:1686:G:H22	1:F1:1813:A:H2	1.57	0.53
1:F1:1973:A:H2'	1:F1:1974:U:C6	2.44	0.53
1:F1:219:A:C2	1:F1:1416:U:C2'	2.88	0.53
42:EU:98:LYS:HZ2	1:F1:242:G:H5'	1.74	0.53
1:F1:2551:A:H3'	1:F1:2552:A:H5''	1.90	0.53
1:F1:2993:C:O2'	1:F1:2994:G:H5'	2.08	0.53
1:F1:3100:U:H2'	1:F1:3101:G:C5'	2.39	0.53
1:F1:866:A:H8	1:F1:866:A:H5''	1.74	0.53
4:FC:98:LYS:O	4:FC:102:VAL:HG23	2.08	0.53
5:FE:69:LEU:HD21	5:FE:114:ASP:HB2	1.91	0.53
8:FH:26:SER:OG	8:FH:29:THR:HB	2.09	0.53
9:FJ:66:ASN:H	9:FJ:133:LEU:HD22	1.72	0.53
11:FL:59:VAL:HG11	11:FL:63:GLU:HB3	1.90	0.53
13:FN:25:ILE:HG23	13:FN:41:VAL:CG1	2.36	0.53
35:EN:25:VAL:HG13	14:FO:7:GLU:HB3	1.89	0.53
19:FX:3:ARG:O	19:FX:19:ARG:NH2	2.41	0.53
23:GB:218:VAL:HB	23:GB:332:ARG:HE	1.73	0.53
24:GC:272:THR:CG2	24:GC:273:TYR:N	2.71	0.53
29:GH:189:LYS:O	29:GH:200:ILE:HG13	2.09	0.53
32:GK:91:LYS:HG2	32:GK:92:TYR:CD1	2.44	0.53
34:GM:125:VAL:HG21	34:GM:205:PHE:CZ	2.42	0.53
35:GN:63:LEU:CD2	35:GN:140:LEU:HB3	2.38	0.53
39:GR:145:ASN:HA	39:GR:150:ILE:CG1	2.39	0.53
43:GV:173:PHE:HD1	43:GV:191:HIS:CE1	2.27	0.53
1:H1:1397:G:C8	50:H1:3998:HOH:O	2.54	0.53
1:H1:1402:G:O2'	1:H1:1403:C:H5'	2.08	0.53
1:H1:1490:G:N2	1:H1:1493:A:H5'	2.24	0.53
1:H1:2391:G:H4'	1:H1:2392:A:OP2	2.08	0.53
1:H1:281:G:H2'	1:H1:285:U:H6	1.73	0.53
1:H1:2945:G:C2'	1:H1:2946:A:H5'	2.39	0.53
1:H1:296:G:H4'	1:H1:297:U:O5'	2.09	0.53
1:H1:514:U:H2'	1:H1:515:A:C8	2.40	0.53
1:H1:607:U:C2'	1:H1:608:C:H5'	2.39	0.53
3:HB:4:ASN:ND2	3:HB:4:ASN:H	2.05	0.53
5:HE:126:HIS:CD2	5:HE:127:LYS:HG2	2.44	0.53
1:H1:3227:A:H5'	5:HE:58:PHE:HZ	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HF:5:LYS:HD3	6:HF:55:LEU:HB2	1.91	0.53
9:FJ:93:ARG:NH1	9:HJ:93:ARG:NE	2.57	0.53
13:HN:118:PHE:HD2	13:HN:139:PHE:CE1	2.27	0.53
13:HN:41:VAL:HG23	13:HN:77:LEU:CD2	2.39	0.53
16:HQ:68:LYS:HZ2	16:HQ:72:LYS:HG3	1.74	0.53
16:HQ:83:THR:HG22	16:HQ:86:ARG:H	1.74	0.53
1:A1:1167:G:H2'	1:A1:1168:C:H6	1.73	0.52
1:A1:1805:C:C2'	1:A1:1806:G:OP1	2.57	0.52
1:A1:1506:G:N2	1:A1:1896:C:C5	2.78	0.52
1:A1:1923:G:H2'	50:A1:4453:HOH:O	2.10	0.52
1:A1:2173:A:H5''	22:BA:133:CYS:SG	2.49	0.52
1:A1:2408:A:N6	50:A1:3770:HOH:O	2.35	0.52
1:A1:2714:U:H2'	1:A1:2715:C:H5'	1.90	0.52
1:A1:2802:G:OP1	24:BC:80:ARG:NH2	2.32	0.52
1:A1:3283:C:H4'	44:BW:103:LEU:O	2.09	0.52
1:A1:467:A:N1	1:A1:512:G:N3	2.57	0.52
1:A1:862:A:O2'	46:BY:10:ILE:CG2	2.53	0.52
5:AE:62:ARG:NH1	6:AF:105:ASP:OD1	2.42	0.52
8:AH:13:ARG:CG	8:AH:15:TRP:CZ3	2.92	0.52
9:AJ:39:GLU:CB	9:AJ:43:VAL:HG23	2.39	0.52
19:AX:156:MET:HE2	19:AX:161:LEU:HD21	1.91	0.52
19:AX:164:PRO:HG2	26:BE:58:TRP:NE1	2.25	0.52
20:B2:140:U:H6	20:B2:140:U:H5''	1.74	0.52
1:A1:958:A:C6	24:BC:105:ARG:NE	2.77	0.52
24:BC:161:ASP:OD1	24:BC:260:GLU:HB2	2.09	0.52
24:BC:272:THR:CG2	24:BC:273:TYR:H	2.21	0.52
1:A1:146:U:H2'	27:BF:185:LYS:NZ	2.23	0.52
27:BF:197:ARG:O	27:BF:198:ASN:C	2.47	0.52
1:A1:317:A:H4'	33:BL:175:ARG:CZ	2.39	0.52
34:BM:177:GLU:O	34:BM:177:GLU:HG3	2.10	0.52
1:A1:867:G:H5'	36:BO:131:LEU:HD11	1.90	0.52
38:BQ:85:TRP:O	38:BQ:87:VAL:N	2.42	0.52
42:BU:89:THR:O	42:BU:93:ARG:HD2	2.09	0.52
45:BX:6:VAL:HG23	45:BX:92:ARG:O	2.08	0.52
23:CB:183:GLY:O	23:CB:189:LYS:CE	2.57	0.52
24:CC:259:THR:CG2	24:CC:260:GLU:H	2.21	0.52
25:CD:20:ASN:HB2	25:CD:68:HIS:HB3	1.91	0.52
31:CJ:19:LEU:HB3	31:CJ:55:SER:HB3	1.91	0.52
35:CN:180:LEU:O	35:CN:181:LYS:C	2.46	0.52
47:CO:161:UNK:O	47:CO:164:UNK:CG	2.52	0.52
37:CP:61:THR:HB	1:D1:1086:U:O4'	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1367:A:H2'	1:D1:1368:U:H6	1.73	0.52
1:D1:165:C:H5''	18:DU:132:LYS:HD2	1.90	0.52
1:D1:1919:A:O2'	1:D1:1920:A:H8	1.93	0.52
1:D1:2133:U:C5	1:D1:2138:A:N7	2.76	0.52
1:D1:2134:A:H3'	1:D1:2135:A:H2'	1.92	0.52
1:D1:2251:A:O4'	46:EY:74:PRO:HG2	2.09	0.52
1:D1:2550:U:C5'	1:D1:2551:A:O5'	2.57	0.52
1:D1:2576:C:C2'	1:D1:2577:G:C5'	2.86	0.52
4:DC:77:THR:HG22	4:DC:78:LYS:N	2.24	0.52
5:DE:54:LEU:HB2	5:DE:94:TYR:O	2.08	0.52
7:DG:83:LYS:HD2	7:DG:85:HIS:CE1	2.44	0.52
8:DH:11:PRO:CG	8:DH:12:THR:H	2.20	0.52
9:DJ:25:LEU:HD23	9:DJ:49:ILE:HB	1.90	0.52
13:DN:33:THR:HB	13:DN:35:ASP:H	1.73	0.52
19:DX:3:ARG:O	19:DX:19:ARG:NH2	2.42	0.52
23:EB:110:ILE:HG23	23:EB:114:THR:HG21	1.90	0.52
24:EC:272:THR:CG2	24:EC:273:TYR:N	2.72	0.52
32:EK:51:HIS:HE1	18:FU:6:GLN:HA	1.74	0.52
33:EL:26:ARG:O	33:EL:30:TYR:CD1	2.62	0.52
37:EP:8:ARG:HD2	37:EP:11:THR:HG21	1.91	0.52
38:EQ:8:ARG:HD3	38:EQ:118:HIS:HB2	1.91	0.52
39:ER:61:VAL:O	39:ER:61:VAL:HG23	2.09	0.52
40:ES:21:SER:HB2	40:ES:26:ARG:HG2	1.91	0.52
40:ES:82:GLU:HG2	40:ES:83:LYS:HG3	1.91	0.52
41:ET:11:CYS:SG	41:ET:13:TYR:CD2	3.02	0.52
41:ET:58:ARG:NH2	1:F1:3325:G:N9	2.57	0.52
44:EW:20:HIS:CD2	44:EW:21:LYS:HB2	2.44	0.52
44:EW:54:LEU:HA	44:EW:94:HIS:HB2	1.91	0.52
1:F1:1478:A:N7	50:F1:4034:HOH:O	2.33	0.52
27:EF:155:LEU:CD1	1:F1:147:U:H1'	2.39	0.52
1:F1:1543:A:H2'	1:F1:1544:U:C6	2.45	0.52
1:F1:1642:G:C3'	1:F1:1643:G:H5''	2.39	0.52
1:F1:185:A:H2	1:F1:233:G:H22	1.55	0.52
1:F1:1918:U:C2'	1:F1:1919:A:C5'	2.70	0.52
1:F1:2148:A:HO2'	1:F1:2238:A:HO2'	1.54	0.52
1:F1:1179:G:H1'	1:F1:2365:G:O2'	2.09	0.52
22:EA:71:LYS:CE	1:F1:2517:G:O6	2.57	0.52
23:EB:5:LYS:NZ	1:F1:2866:G:H5''	2.24	0.52
1:F1:3158:G:H5'	1:F1:3159:A:OP1	2.09	0.52
1:F1:652:U:C2	1:F1:653:C:C6	2.97	0.52
1:F1:90:G:O3'	4:FC:53:LYS:NZ	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3228:U:C2	5:FE:142:GLU:HG3	2.43	0.52
8:FH:70:TYR:O	8:FH:71:ARG:HG3	2.09	0.52
14:FO:122:GLN:OE1	14:FO:122:GLN:HA	2.09	0.52
18:FU:146:ALA:HB1	18:FU:148:ASN:HD22	1.73	0.52
20:G2:3:A:N3	20:G2:3:A:H2'	2.25	0.52
22:GA:31:ARG:NH1	22:GA:42:ILE:HG13	2.24	0.52
23:GB:381:ASP:HB3	23:GB:384:LYS:CB	2.38	0.52
24:GC:14:GLU:HB3	24:GC:17:LYS:HG3	1.91	0.52
24:GC:276:THR:HG21	24:GC:282:GLY:HA2	1.92	0.52
34:GM:109:LEU:HD21	34:GM:142:PHE:CD2	2.44	0.52
1:H1:1057:U:H2'	1:H1:1058:C:H6	1.74	0.52
1:H1:1105:U:H6	1:H1:1105:U:O5'	1.92	0.52
28:GG:81:UNK:N	1:H1:1309:G:C4'	2.72	0.52
1:H1:219:A:N1	1:H1:1416:U:H2'	2.24	0.52
1:H1:1715:U:H2'	1:H1:1716:U:H6	1.73	0.52
1:H1:2274:A:C5'	1:H1:2300:G:H22	2.22	0.52
1:H1:2508:U:O2'	1:H1:2509:U:H2'	2.09	0.52
1:H1:2521:A:C2	1:H1:2522:A:C4	2.97	0.52
1:H1:2617:G:H1'	1:H1:2786:C:C2	2.43	0.52
1:H1:2870:U:H2'	1:H1:2871:U:C6	2.44	0.52
1:H1:1966:U:O2'	1:H1:3303:G:H1'	2.09	0.52
35:GN:141:ARG:HD3	1:H1:768:A:O4'	2.08	0.52
5:HE:173:TYR:CE2	6:HF:106:PHE:CA	2.92	0.52
1:H1:3232:A:H1'	5:HE:94:TYR:CE2	2.44	0.52
6:HF:111:VAL:HG12	6:HF:115:LYS:HE3	1.91	0.52
1:H1:1753:A:OP2	7:HG:26:GLY:HA2	2.09	0.52
1:H1:3237:C:H41	8:HH:10:ALA:CA	2.22	0.52
8:HH:44:THR:O	8:HH:48:VAL:HG23	2.10	0.52
8:HH:54:LYS:HA	8:HH:110:PRO:HG2	1.86	0.52
18:HU:54:PRO:HG3	18:HU:72:GLY:O	2.09	0.52
1:A1:114:A:C4'	16:AQ:37:ARG:NH2	2.63	0.52
1:A1:1567:A:N6	1:A1:1578:U:H3	2.05	0.52
1:A1:1599:G:C2	1:A1:1600:U:C2	2.97	0.52
1:A1:1600:U:C2'	1:A1:1601:U:H5'	2.38	0.52
1:A1:1540:U:H5	1:A1:1865:A:O2'	1.91	0.52
1:A1:2149:U:C2'	1:A1:2150:U:H5''	2.39	0.52
1:A1:2255:U:H2'	1:A1:2256:G:O4'	2.08	0.52
1:A1:2242:G:N3	1:A1:2266:A:H2	2.07	0.52
1:A1:2397:A:OP2	24:BC:77:ALA:CA	2.56	0.52
1:A1:3055:U:H2'	1:A1:3056:C:H6	1.73	0.52
1:A1:549:G:C6	1:A1:619:G:N2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:976:A:OP2	1:A1:1394:G:N2	2.41	0.52
4:AC:19:THR:HB	4:AC:21:HIS:NE2	2.24	0.52
5:AE:180:LEU:HD21	5:AE:186:PRO:HG3	1.91	0.52
5:AE:56:GLY:C	5:AE:58:PHE:N	2.61	0.52
1:A1:3227:A:N3	5:AE:80:TYR:CE2	2.77	0.52
9:AJ:119:PRO:HD3	9:AJ:140:THR:O	2.09	0.52
16:AQ:61:LEU:O	16:AQ:69:ASP:HB3	2.09	0.52
50:A1:4233:HOH:O	17:AT:19:ASN:HB2	2.09	0.52
18:AU:23:PHE:O	18:AU:26:GLN:HB3	2.09	0.52
20:B2:99:U:H5''	20:B2:100:C:OP2	2.08	0.52
2:AA:64:ARG:NH1	20:B2:60:C:N4	2.58	0.52
22:BA:186:GLN:NE2	22:BA:190:TYR:HE2	2.07	0.52
23:BB:105:VAL:HG21	23:BB:146:LEU:CD2	2.38	0.52
24:BC:138:LEU:HD23	24:BC:138:LEU:N	2.24	0.52
24:BC:238:VAL:HG21	24:BC:262:ALA:CB	2.39	0.52
26:BE:46:GLN:NE2	26:BE:56:GLN:NE2	2.56	0.52
30:BI:74:ALA:O	30:BI:78:ILE:HG12	2.09	0.52
32:BK:122:PRO:CB	32:BK:142:GLY:O	2.57	0.52
34:BM:38:ILE:O	34:BM:38:ILE:HG13	2.09	0.52
36:BO:114:LYS:HB3	36:BO:146:LYS:HZ3	1.72	0.52
43:BV:98:ARG:NH1	43:BV:98:ARG:HG3	2.22	0.52
44:BW:43:MET:HG3	44:BW:90:THR:HG21	1.90	0.52
22:CA:35:PHE:CE1	1:D1:2520:G:C2'	2.91	0.52
23:CB:114:THR:HG23	23:CB:115:LYS:N	2.24	0.52
24:CC:155:LEU:HA	24:CC:156:PRO:C	2.29	0.52
24:CC:44:ASP:N	24:CC:44:ASP:OD1	2.40	0.52
27:CF:69:GLN:HG2	27:CF:222:ARG:NH1	2.24	0.52
32:CK:81:TRP:CE3	32:CK:89:ARG:HB3	2.44	0.52
34:CM:18:THR:O	34:CM:18:THR:HG23	2.08	0.52
21:C3:116:A:H4'	34:CM:260:ARG:NH2	2.24	0.52
47:CO:172:UNK:CG	47:CO:173:UNK:N	2.73	0.52
37:CP:17:LYS:CE	37:CP:47:SER:HB3	2.38	0.52
37:CP:17:LYS:NZ	37:CP:47:SER:HB3	2.23	0.52
1:D1:1102:U:H2'	17:DT:45:ARG:HH12	1.73	0.52
45:CX:47:ARG:NH1	1:D1:1187:C:N3	2.57	0.52
1:D1:1344:A:P	50:D1:4386:HOH:O	2.67	0.52
1:D1:155:A:H5''	1:D1:156:A:C8	2.43	0.52
1:D1:1642:G:C3'	1:D1:1643:G:H5''	2.38	0.52
1:D1:2348:G:C5	1:D1:2349:C:C5	2.98	0.52
1:D1:2645:A:H2'	1:D1:2645:A:N3	2.25	0.52
1:D1:2750:G:H4'	1:D1:2751:A:OP1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2859:G:C8	50:D1:4455:HOH:O	2.26	0.52
1:D1:777:C:H2'	1:D1:778:G:H8	1.74	0.52
4:DC:19:THR:HG22	4:DC:20:ASN:N	2.25	0.52
7:DG:13:LYS:CB	7:DG:100:ILE:CD1	2.87	0.52
8:DH:70:TYR:O	8:DH:71:ARG:HG3	2.08	0.52
23:EB:57:LEU:HD11	23:EB:71:GLU:HB3	1.89	0.52
25:ED:12:VAL:CG2	25:ED:162:TRP:HD1	2.22	0.52
32:EK:98:LYS:HD2	18:FU:164:LYS:O	2.09	0.52
33:EL:28:TRP:O	33:EL:32:GLN:HG2	2.08	0.52
24:EC:311:ALA:N	35:EN:40:ARG:NH2	2.57	0.52
37:EP:34:TYR:CD1	37:EP:72:ILE:HD11	2.43	0.52
38:EQ:8:ARG:HH22	38:EQ:117:GLN:NE2	2.07	0.52
22:EA:85:SER:HB3	46:EY:63:ILE:HB	1.91	0.52
1:F1:1106:U:O2	1:F1:1110:U:C2	2.62	0.52
1:F1:113:A:O2'	1:F1:114:A:OP1	2.26	0.52
43:EV:156:GLN:OE1	1:F1:1389:G:C1'	2.56	0.52
1:F1:169:A:H2'	1:F1:170:A:H5'	1.91	0.52
1:F1:1868:C:O2	2:FA:9:GLY:HA2	2.09	0.52
1:F1:2251:A:N3	1:F1:2251:A:H2'	2.24	0.52
1:F1:2265:A:H5''	1:F1:2265:A:C8	2.34	0.52
1:F1:2265:A:C5'	1:F1:2265:A:H8	2.19	0.52
46:EY:16:THR:HG21	1:F1:2316:A:O2'	2.09	0.52
1:F1:2702:U:H3'	4:FC:9:LYS:O	2.10	0.52
1:F1:2870:U:H2'	1:F1:2871:U:C6	2.44	0.52
1:F1:2922:A:H5''	1:F1:2923:U:OP2	2.08	0.52
1:F1:556:A:N1	1:F1:611:A:H2	2.07	0.52
1:F1:742:U:H4'	1:F1:743:A:OP1	2.10	0.52
1:F1:827:C:H2'	1:F1:828:C:C6	2.44	0.52
4:FC:14:LYS:HG3	4:FC:77:THR:OG1	2.08	0.52
5:FE:49:THR:CG2	5:FE:50:VAL:N	2.72	0.52
6:FF:17:TYR:CD1	6:FF:17:TYR:O	2.63	0.52
6:FF:62:ASN:O	6:FF:75:LYS:NZ	2.31	0.52
8:FH:84:ASN:O	8:FH:86:VAL:N	2.42	0.52
23:GB:33:PRO:HA	23:GB:340:ILE:HA	1.92	0.52
24:GC:191:THR:OG1	24:GC:209:ARG:HD2	2.09	0.52
25:GD:77:ARG:HH22	25:GD:166:GLU:CG	2.21	0.52
26:GE:22:GLN:HB3	26:GE:39:ARG:NH2	2.24	0.52
7:AG:97:ASP:OD2	29:GH:28:ASP:OD1	2.26	0.52
31:GJ:25:ALA:HA	1:H1:1923:G:OP1	2.08	0.52
31:GJ:86:ARG:HG3	31:GJ:99:PHE:O	2.10	0.52
33:GL:63:ARG:HG2	33:GL:131:GLU:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:GL:160:GLU:HG2	33:GL:161:LEU:N	2.23	0.52
37:GP:152:VAL:HA	19:HX:138:ILE:HD11	1.91	0.52
41:GT:10:PHE:HZ	41:GT:51:ILE:HD12	1.75	0.52
39:GR:147:ILE:HG23	42:GU:34:ILE:HD13	1.91	0.52
45:GX:45:ARG:HA	45:GX:54:MET:CE	2.40	0.52
1:H1:2278:G:O2'	1:H1:2279:C:O5'	2.28	0.52
13:AN:130:LYS:NZ	1:H1:2663:A:P	2.82	0.52
1:H1:3110:U:C4	1:H1:3113:G:O6	2.61	0.52
1:H1:3146:G:C6	1:H1:3248:C:C4	2.96	0.52
1:H1:3175:A:H2'	1:H1:3177:G:N7	2.25	0.52
23:GB:119:TYR:CE1	1:H1:3255:A:H5''	2.44	0.52
1:H1:811:A:H4'	1:H1:812:G:O5'	2.09	0.52
8:HH:11:PRO:CG	8:HH:12:THR:H	2.20	0.52
13:HN:10:VAL:HG13	13:HN:83:THR:HB	1.91	0.52
14:HO:3:GLN:OE1	14:HO:3:GLN:HA	2.08	0.52
18:HU:91:ILE:CG2	18:HU:117:TYR:HE2	2.23	0.52
1:A1:1112:A:C6	1:A1:1113:A:C6	2.97	0.52
1:A1:1216:C:C2'	30:BI:132:ARG:NH1	2.71	0.52
1:A1:146:U:C4'	1:A1:147:U:H5'	2.31	0.52
1:A1:149:U:H2'	1:A1:150:A:H8	1.74	0.52
1:A1:1653:A:C5	1:A1:1839:A:N1	2.78	0.52
1:A1:184:C:H2'	1:A1:185:A:H8	1.73	0.52
1:A1:1858:U:OP1	3:AB:5:LYS:HE3	2.09	0.52
1:A1:2292:U:H2'	1:A1:2294:A:N7	2.23	0.52
1:A1:3257:U:H2'	1:A1:3258:C:H6	1.73	0.52
1:A1:624:G:HO2'	1:A1:625:C:H6	1.55	0.52
1:A1:70:C:N4	1:A1:72:A:C6	2.78	0.52
1:A1:730:A:H4'	1:A1:731:A:OP1	2.10	0.52
1:A1:970:C:H2'	1:A1:971:C:C6	2.45	0.52
6:AF:3:PHE:CD1	19:AX:164:PRO:CB	2.91	0.52
9:AJ:109:VAL:HG23	9:AJ:148:VAL:HG23	1.90	0.52
15:AP:32:TYR:N	15:AP:32:TYR:CD1	2.77	0.52
22:BA:116:ASN:OD1	22:BA:125:GLY:HA3	2.10	0.52
22:BA:205:MET:HB3	22:BA:209:ASP:HB2	1.90	0.52
22:BA:33:TYR:N	22:BA:164:ARG:NH2	2.56	0.52
30:BI:91:THR:HG22	30:BI:93:LYS:N	2.24	0.52
31:BJ:97:ILE:HG22	31:BJ:98:TYR:N	2.23	0.52
34:BM:136:GLN:HB3	34:BM:141:PRO:HD3	1.91	0.52
38:BQ:24:LEU:HD13	38:BQ:92:VAL:HG11	1.91	0.52
1:A1:628:A:OP1	43:BV:31:SER:HA	2.09	0.52
43:BV:37:ARG:O	43:BV:40:GLU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:17:U:H5''	20:C2:18:G:OP2	2.10	0.52
22:CA:186:GLN:NE2	22:CA:190:TYR:HE2	2.08	0.52
22:CA:33:TYR:CA	22:CA:164:ARG:NH2	2.72	0.52
23:CB:121:ASN:HB3	1:D1:3275:A:H62	1.71	0.52
23:CB:163:ASN:HA	23:CB:174:ASN:OD1	2.10	0.52
25:CD:32:LYS:HE2	25:CD:119:SER:HA	1.91	0.52
27:CF:136:ILE:HD13	27:CF:163:CYS:SG	2.48	0.52
27:CF:36:GLN:HG3	27:CF:37:PRO:CD	2.34	0.52
30:CI:86:MET:CE	1:D1:1202:C:H1'	2.39	0.52
32:CK:118:LEU:HB3	32:CK:141:VAL:HG21	1.91	0.52
32:CK:141:VAL:CG1	32:CK:141:VAL:O	2.57	0.52
32:CK:91:LYS:HG2	32:CK:92:TYR:CD1	2.44	0.52
33:CL:55:ASN:HD22	1:D1:148:G:H5''	1.75	0.52
47:CO:153:UNK:HG2	47:CO:154:UNK:N	2.24	0.52
1:D1:1050:C:H3'	1:D1:1051:C:C6	2.44	0.52
1:D1:1049:U:C5	1:D1:1050:C:N4	2.77	0.52
40:CS:36:LYS:NZ	1:D1:190:U:OP1	2.42	0.52
1:D1:1920:A:OP2	50:D1:4595:HOH:O	2.19	0.52
1:D1:2138:A:H4'	1:D1:2139:A:O5'	2.09	0.52
1:D1:2562:U:O2'	1:D1:2563:U:P	2.68	0.52
1:D1:2789:A:C3'	1:D1:2790:A:H5''	2.39	0.52
1:D1:281:G:C4'	1:D1:282:G:C8	2.91	0.52
1:D1:2973:C:H2'	1:D1:2974:U:O4'	2.10	0.52
1:D1:362:G:C2'	1:D1:363:G:H5''	2.39	0.52
35:CN:57:ARG:NH1	1:D1:697:A:H5'	2.25	0.52
5:DE:85:VAL:O	5:DE:85:VAL:HG12	2.07	0.52
6:DF:125:SER:O	6:DF:126:LYS:CB	2.57	0.52
7:DG:43:PHE:CE1	7:DG:68:HIS:HD2	2.27	0.52
9:DJ:122:ASP:OD1	9:DJ:123:ARG:N	2.42	0.52
19:DX:167:LYS:HA	19:DX:188:THR:HG21	1.89	0.52
19:DX:58:ASN:O	19:DX:62:LEU:HG	2.09	0.52
22:EA:104:PRO:HA	22:EA:163:CYS:O	2.10	0.52
24:EC:311:ALA:HB2	35:EN:40:ARG:HH21	1.75	0.52
42:EU:74:PHE:CB	42:EU:80:LYS:HE3	2.39	0.52
43:EV:132:THR:HG21	43:EV:227:ARG:CD	2.39	0.52
43:EV:98:ARG:HH11	43:EV:98:ARG:HG2	1.74	0.52
1:F1:1049:U:C4	1:F1:1050:C:N4	2.78	0.52
34:EM:142:PHE:CD1	1:F1:1107:A:C8	2.97	0.52
1:F1:1595:A:N3	1:F1:1599:G:C6	2.77	0.52
1:F1:1874:A:H5''	50:F1:4044:HOH:O	2.09	0.52
1:F1:2163:A:C6	1:F1:2164:C:N4	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2227:A:H1'	1:F1:2423:U:O2'	2.09	0.52
22:EA:68:TYR:HE1	1:F1:2520:G:O6	1.91	0.52
1:F1:3120:U:O2	1:F1:3120:U:H2'	2.09	0.52
9:FJ:67:LYS:HD2	9:FJ:112:ASP:CG	2.30	0.52
15:FP:29:LYS:HB3	15:FP:72:TYR:CE2	2.44	0.52
35:EN:168:ARG:HH11	18:FU:9:VAL:HG22	1.74	0.52
20:G2:38:C:O4'	2:HA:68:MET:HE1	2.10	0.52
23:GB:56:ILE:HD11	23:GB:321:MET:CE	2.39	0.52
24:GC:380:PHE:HE1	19:HX:22:VAL:HG22	1.74	0.52
26:GE:29:GLY:H	26:GE:82:VAL:HG11	1.73	0.52
28:GG:8:UNK:HG2	1:H1:1248:G:C2	2.42	0.52
30:GI:30:GLN:HG3	30:GI:32:ILE:CD1	2.39	0.52
32:GK:100:PRO:HA	18:HU:164:LYS:HD3	1.91	0.52
33:GL:182:LYS:HG2	33:GL:183:SER:H	1.71	0.52
34:GM:107:ARG:CZ	34:GM:255:ARG:HH11	2.22	0.52
35:GN:146:ARG:HB2	35:GN:149:TYR:CE2	2.44	0.52
24:GC:34:ARG:CZ	35:GN:24:ASN:HB3	2.39	0.52
39:GR:94:VAL:HG12	39:GR:98:SER:OG	2.09	0.52
27:GF:131:HIS:CG	1:H1:117:G:C2	2.97	0.52
1:H1:120:A:C4'	1:H1:121:A:O5'	2.56	0.52
1:H1:165:C:O3'	18:HU:132:LYS:HG3	2.09	0.52
1:H1:1702:G:H2'	1:H1:1703:A:C8	2.44	0.52
1:H1:2255:U:H2'	1:H1:2256:G:C8	2.44	0.52
1:H1:2266:A:N7	1:H1:2267:G:C6	2.78	0.52
1:H1:2274:A:H5'	1:H1:2300:G:H22	1.74	0.52
1:H1:2789:A:C3'	1:H1:2790:A:H5''	2.38	0.52
1:H1:3096:U:O2'	1:H1:3097:G:H5'	2.08	0.52
1:H1:552:U:C2'	1:H1:553:C:H5'	2.38	0.52
1:H1:635:A:HO2'	1:H1:636:U:P	2.27	0.52
46:GY:4:ARG:HH12	1:H1:881:G:N2	2.06	0.52
1:H1:3175:A:H61	6:HF:16:ASN:HD21	1.55	0.52
6:HF:2:VAL:CG1	6:HF:3:PHE:H	2.17	0.52
7:HG:38:THR:O	7:HG:40:LYS:HE2	2.08	0.52
12:HM:75:LYS:O	12:HM:105:TYR:HE2	1.93	0.52
13:HN:7:TYR:OH	13:HN:93:PHE:N	2.41	0.52
1:A1:1599:G:H5''	39:BR:43:LEU:HD11	1.92	0.52
1:A1:1606:U:C2'	1:A1:1607:U:H5'	2.40	0.52
1:A1:1728:A:H2'	1:A1:1729:U:OP2	2.09	0.52
1:A1:196:G:H5''	50:A1:4746:HOH:O	2.09	0.52
1:A1:2171:U:OP1	22:BA:55:ARG:NH2	2.42	0.52
1:A1:2274:A:C5'	1:A1:2300:G:H22	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2539:A:C2	1:A1:2540:G:N7	2.78	0.52
1:A1:2714:U:C2'	1:A1:2715:C:H5'	2.38	0.52
1:A1:69:A:N6	1:A1:302:G:O2'	2.43	0.52
1:A1:3035:A:H4'	1:A1:3036:U:OP2	2.10	0.52
1:A1:197:G:N2	1:A1:371:A:C8	2.78	0.52
1:A1:566:U:C2'	1:A1:567:C:H5'	2.39	0.52
1:A1:632:G:N7	5:AE:32:GLN:NE2	2.58	0.52
2:AA:18:LEU:HA	2:AA:24:LYS:O	2.09	0.52
5:AE:88:LYS:HG3	5:AE:89:ARG:N	2.24	0.52
7:AG:8:ASP:HA	7:AG:11:GLN:HE21	1.75	0.52
8:AH:97:PRO:O	8:AH:100:ILE:HG13	2.08	0.52
9:AJ:119:PRO:CG	9:AJ:146:VAL:HG12	2.39	0.52
1:A1:1662:A:H4'	11:AL:76:ARG:HH22	1.74	0.52
1:A1:298:G:C5	16:AQ:31:LYS:HG3	2.44	0.52
21:B3:83:G:H5''	50:B3:306:HOH:O	2.08	0.52
22:BA:206:ASN:HB3	22:BA:207:PRO:HD2	1.89	0.52
23:BB:114:THR:N	23:BB:174:ASN:HD22	2.08	0.52
1:A1:3275:A:H62	23:BB:121:ASN:HB3	1.73	0.52
24:BC:64:GLY:O	24:BC:97:PHE:HB3	2.09	0.52
25:BD:157:GLU:HA	25:BD:160:ILE:HD12	1.90	0.52
1:A1:666:U:OP1	32:BK:22:VAL:HG22	2.09	0.52
33:BL:26:ARG:O	33:BL:30:TYR:CD1	2.62	0.52
35:BN:81:ILE:O	35:BN:102:CYS:N	2.30	0.52
35:BN:64:SER:HA	35:BN:88:THR:O	2.10	0.52
20:B2:7:U:OP1	38:BQ:64:ARG:HG3	2.09	0.52
38:BQ:76:HIS:C	38:BQ:78:PHE:H	2.12	0.52
20:C2:134:C:HO2'	20:C2:135:A:P	2.28	0.52
23:CB:113:ASN:HB3	23:CB:174:ASN:ND2	2.24	0.52
25:CD:37:LEU:CD1	25:CD:69:VAL:HG23	2.39	0.52
25:CD:94:LYS:O	1:D1:2661:G:O3'	2.27	0.52
30:CI:6:VAL:HG23	30:CI:30:GLN:HE21	1.75	0.52
32:CK:116:GLY:O	32:CK:137:ARG:NH1	2.43	0.52
47:CO:138:LEU:O	47:CO:142:ILE:HG13	2.10	0.52
39:CR:99:THR:O	39:CR:103:ILE:HG13	2.10	0.52
43:CV:98:ARG:HH12	43:CV:101:ARG:NH1	2.08	0.52
43:CV:129:PRO:HA	43:CV:224:TRP:CG	2.45	0.52
46:CY:8:VAL:CG2	1:D1:1951:G:OP1	2.56	0.52
1:D1:1231:A:H2'	1:D1:1232:A:H5'	1.91	0.52
1:D1:1464:U:H2'	1:D1:1465:U:C6	2.44	0.52
1:D1:1606:U:C2'	1:D1:1607:U:H5'	2.39	0.52
1:D1:1734:A:OP1	13:DN:79:HIS:HE1	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1874:A:H5''	50:D1:4255:HOH:O	2.10	0.52
38:CQ:141:TYR:CD1	1:D1:2350:G:H4'	2.43	0.52
1:D1:22:U:H2'	1:D1:23:U:C6	2.44	0.52
1:D1:2551:A:C3'	1:D1:2552:A:H5''	2.39	0.52
1:D1:2551:A:H3'	1:D1:2552:A:H5''	1.92	0.52
25:CD:59:ILE:CD1	1:D1:2669:A:N3	2.73	0.52
1:D1:2787:A:H5''	1:D1:2788:G:O5'	2.10	0.52
1:D1:3047:U:H6	1:D1:3047:U:H3'	1.74	0.52
6:DF:15:ILE:HG21	6:DF:20:ASP:HB2	1.91	0.52
7:DG:13:LYS:CG	7:DG:14:LEU:N	2.72	0.52
7:DG:48:CYS:SG	7:DG:49:PRO:HD2	2.49	0.52
9:DJ:201:ASP:O	9:DJ:224:LEU:CD2	2.57	0.52
13:DN:36:ARG:NH1	13:DN:74:TYR:CD1	2.74	0.52
16:DQ:15:THR:CG2	18:DU:103:CYS:SG	2.98	0.52
18:DU:131:ALA:O	18:DU:135:LEU:HD12	2.09	0.52
19:DX:20:GLN:HE21	19:DX:42:ARG:HG3	1.74	0.52
22:EA:66:ASP:OD2	22:EA:71:LYS:HE2	2.09	0.52
24:EC:107:PHE:CD1	1:F1:684:A:H4'	2.44	0.52
24:EC:149:ILE:HG23	24:EC:152:VAL:HB	1.91	0.52
24:EC:7:ILE:CD1	24:EC:25:LEU:HD13	2.40	0.52
29:EH:182:SER:O	29:EH:185:ARG:HB2	2.09	0.52
29:EH:190:LEU:HD22	29:EH:197:VAL:HG11	1.90	0.52
21:E3:64:A:O2'	29:EH:205:PRO:CG	2.54	0.52
33:EL:55:ASN:HD22	1:F1:148:G:H5''	1.70	0.52
34:EM:21:ARG:HA	34:EM:24:ARG:CZ	2.40	0.52
34:EM:107:ARG:CZ	34:EM:255:ARG:HH11	2.22	0.52
35:EN:36:PHE:CZ	35:EN:40:ARG:HD2	2.44	0.52
37:EP:5:TYR:N	37:EP:5:TYR:CD1	2.78	0.52
43:EV:144:LEU:CD2	43:EV:239:LEU:HD21	2.40	0.52
1:F1:1073:A:C2'	1:F1:1074:A:O5'	2.58	0.52
43:EV:91:GLN:HG2	1:F1:1167:G:H5'	1.90	0.52
1:F1:1539:G:H2'	1:F1:1541:U:C5	2.44	0.52
1:F1:2177:A:H2'	1:F1:2178:A:C5'	2.39	0.52
1:F1:3132:A:H2'	1:F1:3133:G:OP1	2.10	0.52
1:F1:3187:U:C2'	1:F1:3188:A:H5'	2.39	0.52
1:F1:370:G:N2	1:F1:373:A:C8	2.78	0.52
1:F1:439:A:H5''	5:FE:126:HIS:CG	2.45	0.52
1:F1:621:G:N2	1:F1:634:G:H5''	2.22	0.52
1:F1:713:G:H2'	1:F1:715:A:N7	2.25	0.52
32:EK:136:ARG:NH2	1:F1:741:G:C2	2.65	0.52
6:FF:15:ILE:HG21	6:FF:20:ASP:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:71:LEU:HB3	9:FJ:97:ILE:HD11	1.91	0.52
19:FX:15:GLN:NE2	19:FX:115:GLY:HA2	2.24	0.52
21:G3:26:C:P	34:GM:56:THR:HG21	2.49	0.52
21:G3:52:U:H2'	21:G3:53:U:C6	2.43	0.52
36:GO:118:HIS:CD2	1:H1:1742:G:OP1	2.63	0.52
36:GO:84:THR:HB	36:GO:87:ALA:H	1.74	0.52
37:GP:3:HIS:CE1	1:H1:2621:G:O6	2.62	0.52
38:GQ:15:LYS:HB3	38:GQ:154:GLU:HG2	1.91	0.52
1:H1:1255:A:C2	1:H1:1309:G:C6	2.98	0.52
32:GK:9:ARG:NH2	1:H1:1457:G:OP2	2.35	0.52
1:H1:1681:C:C4	1:H1:1823:A:H5''	2.44	0.52
1:H1:2376:A:C2	1:H1:2377:G:C8	2.98	0.52
1:H1:22:U:H2'	1:H1:23:U:C6	2.45	0.52
1:H1:2509:U:P	1:H1:2575:G:N2	2.82	0.52
33:GL:172:ARG:HD3	1:H1:28:G:H5''	1.90	0.52
1:H1:2956:G:O2'	1:H1:2957:A:H5'	2.08	0.52
1:H1:3100:U:H2'	1:H1:3101:G:C5'	2.38	0.52
1:H1:40:C:H3'	1:H1:40:C:C6	2.45	0.52
32:GK:36:LYS:HB2	1:H1:93:A:H5''	1.92	0.52
5:HE:77:THR:HG21	5:HE:157:ASP:OD1	2.09	0.52
30:GI:196:PHE:CE1	6:HF:111:VAL:CG2	2.88	0.52
19:HX:92:VAL:HG12	19:HX:138:ILE:HB	1.92	0.52
1:A1:1107:A:N7	34:BM:142:PHE:HE1	2.08	0.52
1:A1:1402:G:O2'	1:A1:1403:C:H5'	2.09	0.52
1:A1:1513:A:O2'	11:AL:6:THR:HG23	2.10	0.52
1:A1:1626:U:OP1	36:BO:42:ARG:NH2	2.41	0.52
1:A1:1775:A:H1'	1:A1:1776:G:H3'	1.90	0.52
1:A1:2743:G:C3'	1:A1:2744:C:H5'	2.34	0.52
1:A1:3055:U:H2'	1:A1:3056:C:C6	2.45	0.52
1:A1:40:C:C6	1:A1:40:C:C3'	2.93	0.52
1:A1:742:U:H4'	1:A1:743:A:OP1	2.09	0.52
1:A1:751:C:H6	1:A1:751:C:C5'	2.22	0.52
1:A1:77:A:H2'	1:A1:78:G:H8	1.75	0.52
1:A1:810:G:OP1	35:BN:67:ARG:HG2	2.10	0.52
1:A1:926:A:H2'	1:A1:927:G:C8	2.44	0.52
2:AA:21:ARG:HB2	2:AA:39:TYR:CD1	2.45	0.52
1:A1:615:G:N2	8:AH:79:LYS:HE2	2.24	0.52
9:AJ:122:ASP:OD1	9:AJ:123:ARG:N	2.42	0.52
9:AJ:15:VAL:HG21	31:BJ:131:PRO:HB2	1.90	0.52
9:AJ:61:ARG:HD3	9:AJ:106:ASN:OD1	2.10	0.52
14:AO:75:THR:HG21	14:AO:77:GLU:CG	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AU:91:ILE:CG2	18:AU:117:TYR:HE2	2.23	0.52
19:AX:187:THR:HG22	19:AX:188:THR:N	2.24	0.52
22:BA:66:ASP:OD2	22:BA:71:LYS:HE2	2.09	0.52
24:BC:65:MET:HE3	24:BC:105:ARG:CD	2.39	0.52
24:BC:195:ARG:NH1	24:BC:204:ARG:CB	2.72	0.52
25:BD:104:PHE:CE1	25:BD:106:ILE:HD11	2.42	0.52
25:BD:6:GLU:OE1	25:BD:6:GLU:HA	2.10	0.52
33:BL:27:THR:CG2	33:BL:124:ASP:HB3	2.40	0.52
35:BN:146:ARG:HB2	35:BN:149:TYR:CE2	2.44	0.52
19:AX:53:THR:OG1	43:BV:219:HIS:HD2	1.92	0.52
20:C2:143:U:H2'	20:C2:144:U:C6	2.44	0.52
21:C3:43:A:P	25:CD:137:ARG:HH11	2.33	0.52
24:CC:157:TYR:CE1	24:CC:159:PHE:CZ	2.98	0.52
24:CC:205:ARG:HB3	24:CC:206:TYR:CE2	2.45	0.52
24:CC:276:THR:HG21	24:CC:282:GLY:HA2	1.90	0.52
24:CC:369:HIS:CE1	43:CV:68:LYS:NZ	2.74	0.52
27:CF:101:LYS:O	27:CF:105:VAL:HG23	2.09	0.52
27:CF:92:TYR:HE2	27:CF:123:ILE:CG2	2.21	0.52
33:CL:55:ASN:HB3	1:D1:145:A:H4'	1.90	0.52
34:CM:122:GLN:HB2	34:CM:130:PHE:CE2	2.44	0.52
35:CN:93:LEU:O	35:CN:113:ARG:NH2	2.23	0.52
47:CO:166:UNK:HG2	47:CO:167:UNK:N	2.25	0.52
42:CU:44:LYS:HA	42:CU:47:ARG:HD2	1.91	0.52
1:D1:63:A:C4	1:D1:108:G:N7	2.78	0.52
1:D1:1376:A:H5''	1:D1:1377:A:O5'	2.10	0.52
1:D1:1507:A:H1'	11:DL:4:ARG:NH2	2.24	0.52
1:D1:2429:U:H1'	1:D1:2430:G:OP1	2.08	0.52
1:D1:2800:C:O2'	1:D1:2801:A:H5'	2.09	0.52
1:D1:2850:U:O2	1:D1:2850:U:H2'	2.08	0.52
1:D1:2922:A:H5''	1:D1:2923:U:OP2	2.10	0.52
1:D1:3070:C:H2'	1:D1:3071:C:H6	1.74	0.52
1:D1:3228:U:C2	5:DE:142:GLU:HG3	2.45	0.52
1:D1:430:G:H2'	1:D1:431:A:H8	1.74	0.52
1:D1:472:C:O5'	1:D1:472:C:H6	1.93	0.52
1:D1:528:C:O2'	14:DO:115:HIS:HE1	1.92	0.52
1:D1:552:U:C2'	1:D1:553:C:H5'	2.39	0.52
1:D1:77:A:H2'	1:D1:78:G:H8	1.75	0.52
3:DB:7:LEU:O	3:DB:8:ASN:C	2.48	0.52
13:DN:70:PRO:HD2	13:DN:115:LYS:HG2	1.90	0.52
18:DU:166:VAL:CA	18:DU:169:ILE:HD12	2.22	0.52
22:EA:31:ARG:HH12	22:EA:42:ILE:HG12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ED:157:GLU:HA	25:ED:160:ILE:HD12	1.92	0.52
26:EE:29:GLY:H	26:EE:82:VAL:HG11	1.75	0.52
33:EL:19:MET:CE	33:EL:22:ILE:HD12	2.38	0.52
34:EM:163:LEU:CD1	34:EM:173:ILE:CG2	2.87	0.52
35:EN:13:LYS:HE2	35:EN:15:SER:HB3	1.90	0.52
20:E2:7:U:OP1	38:EQ:64:ARG:HG3	2.10	0.52
39:ER:52:SER:O	42:EU:81:PRO:HB3	2.09	0.52
21:E3:84:U:OP2	43:EV:215:ARG:HD3	2.10	0.52
45:EX:11:ILE:HB	45:EX:65:THR:HG21	1.92	0.52
1:F1:1115:U:H2'	1:F1:1116:C:C6	2.44	0.52
1:F1:1192:A:OP1	8:FH:90:ARG:NH2	2.41	0.52
22:EA:19:SER:OG	1:F1:2168:U:H5''	2.10	0.52
1:F1:2714:U:H2'	1:F1:2715:C:H5'	1.91	0.52
1:F1:2973:C:H2'	1:F1:2974:U:O4'	2.09	0.52
1:F1:2990:U:O2'	1:F1:2991:U:H5'	2.10	0.52
23:EB:62:ARG:NH1	1:F1:3027:U:OP1	2.43	0.52
1:F1:3087:G:H5''	1:F1:3088:U:OP1	2.08	0.52
1:F1:566:U:C2'	1:F1:567:C:H5'	2.38	0.52
1:F1:803:C:O2'	1:F1:804:G:H5'	2.09	0.52
1:F1:519:A:C5'	14:FO:89:ARG:HH11	2.23	0.52
21:G3:83:G:H5''	50:G3:303:HOH:O	2.08	0.52
22:GA:192:ARG:CZ	1:H1:1821:U:OP2	2.57	0.52
24:GC:14:GLU:CB	24:GC:17:LYS:HG3	2.39	0.52
29:GH:184:LEU:CD2	29:GH:189:LYS:HD3	2.28	0.52
33:GL:26:ARG:O	33:GL:30:TYR:CD1	2.61	0.52
34:GM:122:GLN:HG2	34:GM:124:LYS:O	2.09	0.52
34:GM:48:LYS:HE2	34:GM:145:ILE:CD1	2.39	0.52
34:GM:98:ALA:HB1	34:GM:162:VAL:HG23	1.92	0.52
37:GP:66:ASN:OD1	37:GP:67:VAL:N	2.42	0.52
38:GQ:53:VAL:HG21	38:GQ:60:ILE:HG13	1.91	0.52
23:GB:377:PHE:CZ	41:GT:13:TYR:HE1	2.28	0.52
43:GV:72:PHE:HD1	43:GV:73:TYR:N	2.08	0.52
45:GX:80:ASN:HB2	45:GX:81:PRO:CD	2.35	0.52
1:H1:1162:A:O5'	1:H1:2631:A:H1'	2.09	0.52
1:H1:1595:A:N3	1:H1:1599:G:C6	2.78	0.52
1:H1:2411:U:H2'	1:H1:2412:U:H6	1.73	0.52
1:H1:2784:G:H4'	1:H1:2786:C:C6	2.45	0.52
1:H1:3298:U:H4'	1:H1:3299:G:OP2	2.08	0.52
1:H1:467:A:N1	1:H1:512:G:N3	2.58	0.52
24:GC:319:ARG:HD2	1:H1:634:G:C8	2.44	0.52
1:H1:713:G:H2'	1:H1:715:A:N7	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:986:C:H4'	1:H1:987:A:C5'	2.39	0.52
5:HE:134:LEU:HD22	5:HE:138:GLN:OE1	2.10	0.52
5:HE:49:THR:CG2	5:HE:50:VAL:N	2.71	0.52
9:HJ:99:GLU:HG3	9:HJ:101:LEU:N	2.24	0.52
9:HJ:224:LEU:O	9:HJ:225:ASN:CB	2.57	0.52
13:HN:96:LEU:HD13	13:HN:113:THR:HG22	1.92	0.52
16:HQ:60:GLU:CG	16:HQ:61:LEU:N	2.73	0.52
37:GP:88:ARG:HH22	17:HT:30:ILE:HG22	1.74	0.52
19:HX:22:VAL:HG11	19:HX:40:GLN:NE2	2.21	0.52
1:A1:1042:U:O2'	1:A1:1043:C:H5'	2.09	0.52
1:A1:1165:U:H2'	1:A1:1166:G:H5''	1.91	0.52
1:A1:1715:U:H2'	1:A1:1716:U:H6	1.75	0.52
1:A1:1740:U:O3'	1:A1:1741:U:H4'	2.08	0.52
1:A1:2255:U:C5	1:A1:2256:G:C8	2.98	0.52
1:A1:2336:A:OP2	23:BB:245:ARG:NH2	2.43	0.52
1:A1:2562:U:O2'	1:A1:2563:U:P	2.66	0.52
1:A1:2597:G:O2'	1:A1:2598:A:H5'	2.10	0.52
1:A1:275:U:O2	33:BL:93:LYS:HE3	2.10	0.52
1:A1:3037:A:C2	1:A1:3079:U:C4	2.97	0.52
1:A1:803:C:O2'	1:A1:804:G:H5'	2.08	0.52
13:AN:130:LYS:HZ3	1:H1:2663:A:P	2.30	0.52
1:A1:315:U:C6	16:AQ:28:VAL:HG11	2.44	0.52
19:AX:58:ASN:O	19:AX:62:LEU:HG	2.08	0.52
21:B3:120:U:H4'	34:BM:265:LYS:NZ	2.24	0.52
24:BC:233:VAL:O	24:BC:234:ASP:OD1	2.27	0.52
1:A1:815:U:H1'	24:BC:40:LYS:HZ1	1.75	0.52
24:BC:91:ARG:O	24:BC:94:GLN:HB2	2.10	0.52
26:BE:103:VAL:HG22	26:BE:110:ILE:HG12	1.92	0.52
29:BH:151:ALA:HA	29:BH:154:ARG:HG3	1.91	0.52
30:BI:61:MET:HE3	30:BI:68:GLY:HA3	1.90	0.52
33:BL:135:ALA:O	33:BL:137:PRO:HD3	2.09	0.52
34:BM:163:LEU:CD1	34:BM:173:ILE:CG2	2.87	0.52
38:BQ:61:PRO:HG3	38:BQ:78:PHE:CG	2.44	0.52
43:BV:103:PHE:CZ	43:BV:124:ILE:HG12	2.45	0.52
45:BX:121:LEU:CB	45:BX:124:ALA:HB2	2.39	0.52
46:BY:22:LEU:O	46:BY:26:VAL:HG23	2.10	0.52
20:C2:27:G:OP2	40:CS:12:ARG:NH1	2.42	0.52
24:CC:152:VAL:HG11	24:CC:155:LEU:HD21	1.91	0.52
24:CC:233:VAL:O	24:CC:234:ASP:OD1	2.28	0.52
27:CF:149:ASP:OD1	27:CF:149:ASP:C	2.47	0.52
33:CL:22:ILE:O	33:CL:26:ARG:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:54:LYS:HD3	1:D1:149:U:OP1	2.10	0.52
37:CP:5:TYR:CD1	37:CP:5:TYR:N	2.77	0.52
39:CR:52:SER:O	42:CU:81:PRO:HB3	2.10	0.52
46:CY:22:LEU:O	46:CY:26:VAL:HG23	2.09	0.52
1:D1:1050:C:H2'	1:D1:1051:C:H1'	1.90	0.52
1:D1:181:U:C2'	1:D1:182:C:H5'	2.39	0.52
1:D1:1866:A:H4'	1:D1:1867:C:OP2	2.09	0.52
1:D1:2790:A:C4	4:DC:54:PRO:HA	2.45	0.52
1:D1:2854:C:N3	50:D1:4355:HOH:O	2.43	0.52
1:D1:296:G:H4'	1:D1:297:U:O5'	2.08	0.52
1:D1:3140:C:H4'	1:D1:3254:A:O4'	2.09	0.52
1:D1:3240:A:H2'	1:D1:3241:U:O4'	2.08	0.52
1:D1:363:G:C5'	1:D1:363:G:C8	2.91	0.52
1:D1:459:G:H5''	1:D1:460:A:OP2	2.10	0.52
1:D1:471:A:H2'	1:D1:472:C:O5'	2.10	0.52
1:D1:607:U:C2'	1:D1:608:C:H5'	2.40	0.52
1:D1:970:C:C2	1:D1:971:C:C5	2.97	0.52
1:D1:838:G:H4'	2:DA:47:TYR:CE2	2.44	0.52
9:DJ:215:ILE:O	9:DJ:219:GLU:HG3	2.10	0.52
13:DN:41:VAL:HG12	13:DN:43:VAL:HG22	1.92	0.52
13:DN:10:VAL:HG13	13:DN:83:THR:HB	1.92	0.52
23:EB:46:PHE:HB2	23:EB:206:ILE:HD12	1.92	0.52
31:EJ:97:ILE:HG22	31:EJ:98:TYR:N	2.25	0.52
34:EM:79:ASP:OD1	34:EM:79:ASP:N	2.39	0.52
35:EN:92:ARG:NH2	1:F1:810:G:C8	2.78	0.52
37:EP:65:PHE:HB3	37:EP:75:ILE:HG13	1.91	0.52
38:EQ:25:ARG:HG3	38:EQ:143:ASN:HD21	1.73	0.52
42:EU:97:THR:HG22	42:EU:98:LYS:H	1.73	0.52
45:EX:47:ARG:NH1	1:F1:1187:C:C2	2.77	0.52
21:E3:103:U:H5''	1:F1:1027:G:N2	2.24	0.52
1:F1:1041:C:C3'	1:F1:1042:U:H5''	2.39	0.52
1:F1:1088:A:H5''	1:F1:1089:G:H5'	1.91	0.52
1:F1:146:U:C4'	1:F1:147:U:H5'	2.30	0.52
1:F1:1736:G:C6	1:F1:1737:A:C6	2.98	0.52
1:F1:2149:U:C2'	1:F1:2150:U:H5''	2.39	0.52
40:ES:3:THR:H	1:F1:229:A:H5''	1.73	0.52
1:F1:2305:U:H6	1:F1:2305:U:O5'	1.92	0.52
1:F1:2551:A:C3'	1:F1:2552:A:H5''	2.40	0.52
1:F1:2562:U:O2'	1:F1:2563:U:P	2.68	0.52
1:F1:1162:A:O5'	1:F1:2631:A:H1'	2.09	0.52
1:F1:281:G:H2'	1:F1:285:U:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2830:U:C2'	1:F1:2830:U:O2	2.55	0.52
23:EB:240:THR:HA	1:F1:2936:C:O2'	2.08	0.52
1:F1:3240:A:H2'	1:F1:3241:U:O4'	2.08	0.52
1:F1:559:G:H2'	1:F1:560:A:H8	1.75	0.52
1:F1:766:G:HO2'	1:F1:767:C:P	2.33	0.52
5:FE:179:THR:CG2	5:FE:180:LEU:N	2.73	0.52
6:FF:28:VAL:HG12	6:FF:66:ASN:N	2.25	0.52
7:FG:49:PRO:HG2	7:FG:52:ARG:HB2	1.91	0.52
1:F1:2563:U:OP2	13:FN:56:ARG:HD3	2.09	0.52
14:FO:94:ILE:HD13	14:FO:107:ALA:HB1	1.91	0.52
33:EL:6:TYR:CE1	16:FQ:41:VAL:HG13	2.45	0.52
42:EU:123:LYS:HE2	18:FU:146:ALA:HB2	1.91	0.52
19:FX:22:VAL:HG11	19:FX:40:GLN:NE2	2.21	0.52
19:FX:45:ALA:HB1	19:FX:50:HIS:HD2	1.75	0.52
22:GA:205:MET:O	22:GA:213:GLY:HA3	2.09	0.52
23:GB:102:LEU:O	23:GB:103:THR:OG1	2.27	0.52
23:GB:105:VAL:HG21	23:GB:146:LEU:CD2	2.40	0.52
24:GC:314:THR:HG21	1:H1:1372:A:C2	2.44	0.52
32:GK:75:VAL:HG22	32:GK:109:PHE:CG	2.43	0.52
32:GK:122:PRO:CB	32:GK:142:GLY:O	2.58	0.52
1:H1:1213:G:N3	19:HX:126:GLY:HA3	2.24	0.52
1:H1:1507:A:C4'	1:H1:1507:A:OP2	2.57	0.52
1:H1:2132:U:H2'	1:H1:2138:A:H62	1.74	0.52
1:H1:2409:G:H2'	1:H1:2410:C:O5'	2.10	0.52
1:H1:2726:C:C2'	1:H1:2727:A:H5'	2.40	0.52
1:H1:2814:U:H2'	1:H1:2815:U:H5'	1.90	0.52
1:H1:2973:C:H2'	1:H1:2974:U:O4'	2.10	0.52
1:H1:772:U:C2'	1:H1:773:C:H5'	2.40	0.52
24:GC:105:ARG:NH2	1:H1:829:C:OP1	2.42	0.52
1:H1:859:U:C4	1:H1:860:G:C6	2.97	0.52
5:HE:91:ASN:OD1	5:HE:92:GLN:N	2.43	0.52
1:H1:1353:G:O2'	8:HH:83:ASN:ND2	2.42	0.52
1:H1:519:A:H5''	14:HO:89:ARG:NH1	2.23	0.52
18:HU:108:GLU:HA	18:HU:108:GLU:OE1	2.10	0.52
1:A1:120:A:C4'	1:A1:121:A:O5'	2.56	0.52
1:A1:1595:A:H1'	1:A1:1599:G:C2	2.44	0.52
1:A1:218:G:H1	40:BS:61:LYS:HE2	1.74	0.52
1:A1:296:G:H4'	1:A1:297:U:O5'	2.09	0.52
1:A1:3165:A:O2'	1:A1:3166:A:H5'	2.10	0.52
1:A1:3191:G:C5	1:A1:3218:U:O4	2.63	0.52
1:A1:589:C:H2'	1:A1:590:A:H8	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:74:G:H2'	18:AU:98:ARG:HD2	1.91	0.52
1:A1:634:G:H5'	5:AE:30:ARG:NH2	2.24	0.52
8:AH:31:ASN:OD1	8:AH:33:ASN:HB2	2.10	0.52
12:AM:32:ILE:CG2	12:AM:60:ASN:HB2	2.39	0.52
20:B2:124:U:O2'	20:B2:126:A:N7	2.28	0.52
1:A1:2168:U:H5''	22:BA:19:SER:OG	2.09	0.52
24:BC:155:LEU:HA	24:BC:156:PRO:C	2.30	0.52
24:BC:259:THR:CG2	24:BC:260:GLU:H	2.22	0.52
34:BM:179:ARG:NE	34:BM:185:ARG:HH22	2.02	0.52
37:BP:91:VAL:CG1	37:BP:96:VAL:HG23	2.39	0.52
39:BR:145:ASN:HA	39:BR:150:ILE:CG1	2.40	0.52
41:BT:48:ALA:HB1	41:BT:54:THR:HG21	1.90	0.52
42:BU:21:GLU:HG2	42:BU:58:TYR:OH	2.08	0.52
42:BU:97:THR:HG22	42:BU:98:LYS:H	1.72	0.52
22:CA:105:ILE:HD11	22:CA:117:VAL:HG13	1.92	0.52
23:CB:171:GLN:NE2	1:D1:3273:U:H5''	2.24	0.52
23:CB:46:PHE:HB2	23:CB:206:ILE:HD12	1.92	0.52
24:CC:157:TYR:CE1	24:CC:179:VAL:HG13	2.44	0.52
24:CC:147:HIS:NE2	24:CC:254:ARG:HG3	2.24	0.52
24:CC:333:LEU:HA	43:CV:163:ASN:HD21	1.74	0.52
29:CH:16:PRO:HG3	29:CH:128:ARG:HH11	1.75	0.52
38:CQ:134:ALA:HB2	1:D1:905:G:H5''	1.90	0.52
38:CQ:22:SER:HB3	50:CQ:304:HOH:O	2.10	0.52
38:CQ:8:ARG:HH22	38:CQ:117:GLN:NE2	2.08	0.52
39:CR:74:PRO:CB	39:CR:149:LEU:HD11	2.39	0.52
40:CS:116:SER:O	40:CS:120:ARG:HG3	2.10	0.52
40:CS:118:LEU:N	40:CS:118:LEU:HD23	2.23	0.52
44:CW:19:CYS:CA	44:CW:22:ILE:HD12	2.39	0.52
24:CC:200:LYS:NZ	1:D1:1445:G:H5''	2.24	0.52
1:D1:2343:A:O5'	1:D1:2343:A:H8	1.93	0.52
1:D1:2572:U:O2'	1:D1:2573:U:H5'	2.09	0.52
1:D1:700:G:H8	1:D1:700:G:O5'	1.92	0.52
8:DH:15:TRP:CE2	8:DH:105:ARG:HG2	2.45	0.52
9:DJ:63:THR:HA	9:DJ:104:LEU:HB2	1.91	0.52
45:CX:89:MET:HE2	14:DO:31:VAL:O	2.09	0.52
1:D1:1850:C:OP2	15:DP:47:LYS:HG3	2.10	0.52
16:DQ:7:VAL:CG1	16:DQ:7:VAL:O	2.58	0.52
1:D1:2727:A:C4'	17:DT:37:PRO:HD2	2.40	0.52
32:CK:36:LYS:HA	18:DU:1:MET:CE	2.40	0.52
19:DX:94:LYS:HE2	19:DX:136:GLN:HG2	1.92	0.52
19:DX:15:GLN:HE21	19:DX:115:GLY:HA2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DX:175:LYS:HZ2	19:DX:178:ARG:NH1	1.95	0.52
19:DX:7:GLN:HE22	19:DX:80:GLU:N	2.07	0.52
21:E3:10:C:C6	34:EM:20:TYR:HE1	2.27	0.52
23:EB:17:ARG:HB3	23:EB:18:PRO:HA	1.92	0.52
24:EC:233:VAL:O	24:EC:234:ASP:OD1	2.28	0.52
31:EJ:41:ILE:HG13	31:EJ:64:CYS:HA	1.92	0.52
32:EK:36:LYS:HA	18:FU:1:MET:HE1	1.92	0.52
33:EL:64:VAL:CG2	33:EL:106:VAL:HG22	2.39	0.52
34:EM:54:ARG:NH1	34:EM:149:GLY:HA3	2.24	0.52
36:EO:97:ARG:HH21	1:F1:1805:C:C5'	2.21	0.52
37:EP:136:LEU:HD11	19:FX:28:LEU:HD11	1.91	0.52
1:F1:1110:U:H5'	1:F1:1111:G:OP2	2.10	0.52
37:EP:116:LYS:NZ	1:F1:1124:G:H8	2.07	0.52
1:F1:1241:U:H2'	1:F1:1242:U:C6	2.44	0.52
1:F1:1499:G:O2'	1:F1:1500:A:H5'	2.10	0.52
46:EY:7:LYS:CE	1:F1:1950:C:H2'	2.32	0.52
1:F1:213:A:H61	1:F1:227:G:C2'	2.23	0.52
22:EA:55:ARG:NH2	1:F1:2171:U:OP1	2.42	0.52
1:F1:32:A:H2'	1:F1:33:A:C8	2.44	0.52
1:F1:492:A:C2	1:F1:493:G:H1'	2.45	0.52
6:FF:125:SER:O	6:FF:126:LYS:CB	2.57	0.52
8:FH:15:TRP:CE2	8:FH:105:ARG:HG2	2.45	0.52
12:FM:55:ASN:O	12:FM:69:SER:HA	2.10	0.52
5:FE:18:TRP:HB2	14:FO:95:ARG:HH21	1.73	0.52
20:G2:2:G:H4'	20:G2:3:A:OP2	2.09	0.52
22:GA:184:GLY:O	22:GA:187:PHE:HB3	2.09	0.52
24:GC:139:VAL:N	24:GC:140:PRO:HD2	2.25	0.52
24:GC:308:VAL:CG1	35:GN:40:ARG:NH1	2.68	0.52
33:GL:149:ASN:O	33:GL:152:CYS:HB2	2.09	0.52
34:GM:243:VAL:CG1	34:GM:247:PHE:HD2	2.22	0.52
21:G3:7:G:O3'	34:GM:33:ARG:NH1	2.43	0.52
42:GU:119:LYS:O	18:HU:124:PHE:HD1	1.93	0.52
42:GU:36:LYS:HZ3	42:GU:45:LEU:CD2	2.23	0.52
43:GV:48:TYR:CE1	43:GV:183:HIS:CD2	2.97	0.52
43:GV:67:ARG:NH1	1:H1:564:A:O5'	2.42	0.52
1:H1:1599:G:C4	1:H1:1600:U:C6	2.98	0.52
1:H1:2151:G:N7	50:H1:4316:HOH:O	2.34	0.52
1:H1:2203:A:H2'	1:H1:2204:U:C6	2.44	0.52
1:H1:2339:U:H5'	1:H1:3045:A:O2'	2.10	0.52
1:H1:2814:U:C2'	1:H1:2815:U:H5'	2.39	0.52
1:H1:3185:G:N3	1:H1:3237:C:N3	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3340:U:H2'	1:H1:3341:C:C6	2.45	0.52
1:H1:632:G:H2'	1:H1:633:C:C6	2.45	0.52
2:HA:21:ARG:HD3	2:HA:44:MET:HE1	1.91	0.52
6:HF:11:ARG:HG2	6:HF:55:LEU:HD22	1.91	0.52
7:HG:13:LYS:CG	7:HG:14:LEU:N	2.72	0.52
32:GK:98:LYS:HA	18:HU:166:VAL:CG2	2.39	0.52
1:A1:1053:A:H1'	1:A1:1054:G:P	2.49	0.52
1:A1:1179:G:O2'	1:A1:1180:A:OP1	2.16	0.52
1:A1:1580:G:H5''	1:A1:1581:C:OP2	2.09	0.52
1:A1:1646:G:C2'	1:A1:1647:U:H5'	2.40	0.52
1:A1:864:C:H1'	1:A1:1748:U:OP1	2.10	0.52
1:A1:2146:G:H2'	1:A1:2147:C:H5'	1.92	0.52
1:A1:2551:A:H3'	1:A1:2552:A:H5''	1.92	0.52
1:A1:2700:A:H2'	1:A1:2701:U:O4'	2.10	0.52
1:A1:2870:U:H2'	1:A1:2871:U:C6	2.45	0.52
1:A1:2882:U:H2'	1:A1:2883:G:C8	2.45	0.52
1:A1:3100:U:H2'	1:A1:3101:G:H5'	1.91	0.52
1:A1:3175:A:H2'	1:A1:3177:G:N7	2.25	0.52
1:A1:706:U:P	50:A1:4634:HOH:O	2.68	0.52
1:A1:811:A:H4'	1:A1:812:G:O5'	2.09	0.52
1:A1:813:C:H2'	1:A1:814:U:C6	2.44	0.52
6:AF:13:VAL:HG13	6:AF:53:VAL:HG13	1.91	0.52
6:AF:41:GLU:OE1	6:AF:73:LYS:HD3	2.10	0.52
13:AN:22:LYS:HZ2	13:AN:140:SER:HB3	1.73	0.52
14:AO:48:VAL:HA	14:AO:61:SER:O	2.09	0.52
16:AQ:60:GLU:CG	16:AQ:61:LEU:N	2.73	0.52
19:AX:124:MET:HE3	19:AX:124:MET:HA	1.92	0.52
1:A1:2145:A:O3'	22:BA:180:ILE:O	2.28	0.52
23:BB:106:TRP:HB2	23:BB:133:HIS:CE1	2.44	0.52
23:BB:86:ILE:CD1	23:BB:158:VAL:HG11	2.40	0.52
23:BB:303:ILE:HG12	23:BB:319:PHE:CZ	2.45	0.52
1:A1:1217:A:H8	30:BI:48:ARG:HH12	1.57	0.52
32:BK:122:PRO:HB3	32:BK:142:GLY:O	2.09	0.52
1:A1:1107:A:H4'	34:BM:140:LYS:O	2.10	0.52
20:C2:110:A:C2	20:C2:115:G:C6	2.98	0.52
22:CA:31:ARG:NH1	22:CA:42:ILE:CG1	2.73	0.52
24:CC:238:VAL:HG21	24:CC:262:ALA:CB	2.40	0.52
24:CC:78:VAL:CG1	24:CC:83:ARG:NH2	2.73	0.52
30:CI:109:THR:HG23	30:CI:110:PRO:N	2.25	0.52
32:CK:148:THR:CG2	32:CK:149:ALA:N	2.73	0.52
47:CO:131:LEU:HD21	1:D1:866:A:O2'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CO:12:ALA:N	47:CO:22:LEU:HD11	2.25	0.52
37:CP:52:MET:HG2	37:CP:95:HIS:CE1	2.45	0.52
38:CQ:60:ILE:HD11	38:CQ:90:VAL:HG22	1.92	0.52
38:CQ:76:HIS:C	38:CQ:78:PHE:H	2.13	0.52
43:CV:98:ARG:NH1	43:CV:98:ARG:HG3	2.22	0.52
44:CW:61:ASN:HB3	44:CW:65:ASN:O	2.10	0.52
37:CP:19:TYR:CD2	1:D1:1077:U:H4'	2.43	0.52
37:CP:19:TYR:HD2	1:D1:1077:U:H5''	1.74	0.52
1:D1:170:A:C4	1:D1:250:U:N3	2.77	0.52
1:D1:2669:A:H3'	1:D1:2670:U:C6	2.45	0.52
1:D1:2952:G:N7	50:D1:4271:HOH:O	2.34	0.52
1:D1:3055:U:O4	50:D1:4222:HOH:O	2.16	0.52
1:D1:3068:U:O2'	1:D1:3070:C:OP2	2.28	0.52
1:D1:3037:A:C2	1:D1:3079:U:C4	2.97	0.52
1:D1:3229:C:N3	5:DE:57:ARG:HG3	2.24	0.52
1:D1:652:U:C2	1:D1:653:C:C6	2.98	0.52
1:D1:729:A:HO2'	1:D1:810:G:N2	2.06	0.52
1:D1:685:G:C4	1:D1:827:C:O4'	2.63	0.52
1:D1:3227:A:N1	5:DE:150:LYS:HD3	2.24	0.52
5:DE:49:THR:CG2	5:DE:50:VAL:N	2.72	0.52
6:DF:87:GLU:O	6:DF:92:LYS:HE3	2.10	0.52
24:CC:150:SER:HA	14:DO:75:THR:HG23	1.92	0.52
19:DX:58:ASN:HD21	19:DX:136:GLN:NE2	2.06	0.52
24:EC:214:VAL:HG12	24:EC:257:ILE:HB	1.92	0.52
25:ED:104:PHE:CE1	25:ED:106:ILE:HD11	2.42	0.52
27:EF:197:ARG:O	27:EF:198:ASN:C	2.47	0.52
29:EH:147:TYR:HD1	29:EH:147:TYR:H	1.57	0.52
31:EJ:11:VAL:O	31:EJ:11:VAL:CG1	2.58	0.52
33:EL:139:HIS:CD2	33:EL:141:ALA:HB3	2.45	0.52
33:EL:78:GLY:HA2	33:EL:89:ILE:CD1	2.40	0.52
34:EM:254:ILE:O	34:EM:258:PRO:CD	2.57	0.52
38:EQ:8:ARG:NH1	38:EQ:118:HIS:N	2.58	0.52
40:ES:55:VAL:HG11	40:ES:103:LEU:HB3	1.92	0.52
44:EW:61:ASN:HB3	44:EW:65:ASN:O	2.10	0.52
1:F1:113:A:H2'	1:F1:114:A:OP1	2.08	0.52
30:EI:27:LEU:HD11	1:F1:1203:C:H5'	1.91	0.52
1:F1:122:U:H2'	1:F1:123:C:C6	2.45	0.52
1:F1:1593:A:C5	1:F1:1594:C:N4	2.77	0.52
1:F1:2103:A:C2	1:F1:2104:C:C2	2.98	0.52
1:F1:2703:G:H2'	1:F1:2740:G:N2	2.25	0.52
26:EE:171:ARG:NH2	1:F1:2887:C:C5	2.76	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2945:G:H2'	1:F1:2946:A:H5'	1.91	0.52
1:F1:3227:A:H5'	5:FE:57:ARG:NH1	2.19	0.52
23:EB:270:TYR:HD2	1:F1:3265:A:H5'	1.74	0.52
44:EW:16:HIS:CD2	1:F1:3330:U:OP1	2.61	0.52
1:F1:396:A:C2	1:F1:397:A:C5	2.98	0.52
1:F1:865:C:H2'	1:F1:866:A:H5''	1.92	0.52
1:F1:964:U:P	50:F1:3827:HOH:O	2.68	0.52
5:FE:164:VAL:HG13	5:FE:170:LEU:HG	1.91	0.52
6:FF:13:VAL:HG13	6:FF:53:VAL:HG13	1.90	0.52
13:FN:118:PHE:HD2	13:FN:139:PHE:CE1	2.28	0.52
20:G2:45:G:C2'	20:G2:46:A:H5'	2.40	0.52
21:G3:102:G:O5'	21:G3:102:G:H8	1.92	0.52
22:GA:30:TYR:CB	22:GA:164:ARG:HH11	2.22	0.52
22:GA:243:ARG:CZ	22:GA:247:VAL:HG12	2.40	0.52
20:G2:25:U:OP2	24:GC:201:LEU:HD22	2.10	0.52
24:GC:276:THR:HG22	24:GC:277:GLY:O	2.09	0.52
21:G3:63:A:C5'	29:GH:206:LEU:HG	2.39	0.52
30:GI:11:LYS:HD3	30:GI:36:ARG:HH12	1.74	0.52
33:GL:19:MET:CE	33:GL:22:ILE:HD12	2.37	0.52
24:GC:117:HIS:CD2	33:GL:202:ARG:HB2	2.45	0.52
33:GL:78:GLY:HA2	33:GL:89:ILE:CD1	2.39	0.52
34:GM:176:SER:O	34:GM:177:GLU:CG	2.54	0.52
35:GN:27:HIS:CD2	35:GN:31:ILE:HD11	2.45	0.52
35:GN:38:VAL:HG22	35:GN:47:GLN:HA	1.91	0.52
38:GQ:58:ARG:HE	38:GQ:77:GLU:CD	2.12	0.52
39:GR:73:THR:HG23	42:GU:37:ILE:HD11	1.92	0.52
42:GU:14:THR:HG22	42:GU:15:GLU:H	1.75	0.52
43:GV:207:PRO:HB2	43:GV:209:GLY:O	2.10	0.52
43:GV:98:ARG:HG2	43:GV:98:ARG:HH11	1.74	0.52
46:GY:13:LYS:HE3	46:GY:14:TYR:CE2	2.44	0.52
1:H1:120:A:H61	1:H1:148:G:H1'	1.75	0.52
1:H1:1540:U:H5	1:H1:1865:A:O2'	1.92	0.52
1:H1:1928:C:N4	1:H1:1929:G:C6	2.78	0.52
1:H1:2100:A:C3'	1:H1:2101:G:H5''	2.38	0.52
1:H1:213:A:H61	1:H1:227:G:C2'	2.21	0.52
1:H1:2192:C:H4'	1:H1:2193:A:C8	2.45	0.52
1:H1:2847:U:H4'	1:H1:2848:U:OP1	2.08	0.52
1:H1:2984:A:C4	1:H1:2985:C:H5	2.28	0.52
33:GL:180:ARG:HH22	1:H1:301:A:C5'	2.22	0.52
1:H1:3178:U:H5''	6:HF:97:LYS:HZ1	1.74	0.52
1:H1:3229:C:O2	1:H1:3229:C:H2'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:476:A:C2	1:H1:500:G:C2	2.98	0.52
1:H1:508:A:O2'	1:H1:509:A:H8	1.90	0.52
30:GI:92:PRO:HG2	1:H1:656:C:OP1	2.10	0.52
1:H1:790:C:O2'	1:H1:791:C:C6	2.60	0.52
1:H1:957:U:H4'	1:H1:958:A:O5'	2.08	0.52
5:HE:85:VAL:HG12	5:HE:85:VAL:O	2.08	0.52
43:GV:219:HIS:O	19:HX:46:ARG:NH2	2.42	0.52
19:HX:55:PHE:CZ	19:HX:59:MET:HE3	2.45	0.52
1:A1:1035:A:N1	1:A1:1068:U:C2	2.78	0.52
1:A1:1115:U:H6	1:A1:1115:U:H5'	1.73	0.52
1:A1:161:U:C2'	1:A1:162:C:H5''	2.39	0.52
1:A1:1507:A:H5''	1:A1:1883:A:H62	1.73	0.52
1:A1:219:A:N1	1:A1:1416:U:O2'	2.34	0.52
1:A1:2203:A:H2'	1:A1:2204:U:C6	2.44	0.52
1:A1:2271:G:C5	1:A1:2272:C:C5	2.98	0.52
1:A1:2410:C:N4	50:A1:3765:HOH:O	2.43	0.52
1:A1:2508:U:O2'	1:A1:2509:U:H2'	2.09	0.52
1:A1:3036:U:H5'	23:BB:220:LYS:HD2	1.92	0.52
1:A1:619:G:HO2'	1:A1:620:A:H2	1.55	0.52
1:A1:701:A:H3'	35:BN:91:GLU:CG	2.37	0.52
2:AA:26:THR:HB	2:AA:34:CYS:SG	2.50	0.52
1:A1:3096:U:H5''	10:AK:112:LYS:NZ	2.24	0.52
12:AM:55:ASN:O	12:AM:69:SER:HA	2.09	0.52
13:AN:96:LEU:HD13	13:AN:113:THR:HG22	1.92	0.52
16:AQ:45:ILE:HD11	33:BL:6:TYR:CD1	2.45	0.52
1:A1:579:G:H1'	19:AX:158:ASN:CA	2.39	0.52
19:AX:168:THR:N	19:AX:188:THR:HG23	2.21	0.52
20:B2:22:A:H2'	20:B2:23:U:H6	1.75	0.52
21:B3:52:U:H2'	21:B3:53:U:C6	2.44	0.52
22:BA:118:GLU:HB2	22:BA:163:CYS:HB3	1.92	0.52
22:BA:181:LEU:HB3	46:BY:18:TYR:CD1	2.45	0.52
23:BB:84:MET:CE	23:BB:179:ILE:HD11	2.40	0.52
24:BC:148:ARG:HE	24:BC:187:ARG:HD2	1.73	0.52
1:A1:6:C:O2'	27:BF:176:LYS:HE3	2.10	0.52
30:BI:91:THR:HG22	30:BI:93:LYS:H	1.75	0.52
32:BK:81:TRP:CE3	32:BK:89:ARG:HB3	2.45	0.52
24:BC:119:ARG:NH1	33:BL:204:ARG:HE	2.07	0.52
24:BC:311:ALA:HB2	35:BN:40:ARG:HH21	1.74	0.52
36:BO:152:SER:CA	36:BO:163:ARG:HH12	2.22	0.52
37:BP:76:VAL:HG12	37:BP:77:HIS:N	2.24	0.52
38:BQ:58:ARG:HE	38:BQ:77:GLU:CD	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:75:LEU:HD21	39:BR:93:TYR:CE2	2.45	0.52
40:BS:43:ASN:O	40:BS:125:LEU:CD1	2.55	0.52
42:BU:13:GLN:HB3	42:BU:17:GLN:OE1	2.10	0.52
46:BY:58:LYS:N	46:BY:59:PRO:HD2	2.25	0.52
24:CC:172:ALA:O	24:CC:176:LEU:HG	2.10	0.52
24:CC:314:THR:HG21	1:D1:1372:A:N3	2.25	0.52
32:CK:100:PRO:HB3	18:DU:164:LYS:HZ3	1.73	0.52
33:CL:189:LYS:O	33:CL:193:ARG:HG3	2.10	0.52
34:CM:56:THR:CG2	34:CM:57:ASN:N	2.73	0.52
38:CQ:15:LYS:HB3	38:CQ:154:GLU:HG2	1.90	0.52
20:C2:74:A:H5''	40:CS:50:ARG:HE	1.74	0.52
1:D1:1186:A:HO2'	1:D1:1187:C:P	2.25	0.52
1:D1:1949:U:H4'	1:D1:1950:C:OP2	2.10	0.52
1:D1:2106:G:O2'	1:D1:2107:A:P	2.68	0.52
1:D1:2170:A:H4'	1:D1:2171:U:OP2	2.10	0.52
1:D1:2186:U:H2'	1:D1:2187:C:H6	1.75	0.52
1:D1:2274:A:H5'	1:D1:2300:G:H22	1.75	0.52
1:D1:2577:G:H2'	1:D1:2578:A:O5'	2.09	0.52
1:D1:2945:G:H2'	1:D1:2946:A:H5'	1.91	0.52
1:D1:3055:U:H2'	1:D1:3056:C:H6	1.74	0.52
1:D1:3229:C:O2'	1:D1:3230:G:P	2.68	0.52
1:D1:549:G:H2'	1:D1:550:G:C8	2.45	0.52
1:D1:790:C:H5''	1:D1:791:C:OP1	2.10	0.52
4:DC:10:THR:O	4:DC:18:HIS:HA	2.10	0.52
8:DH:84:ASN:O	8:DH:86:VAL:N	2.42	0.52
13:DN:25:ILE:HG23	13:DN:41:VAL:CG1	2.40	0.52
24:CC:152:VAL:O	14:DO:76:ILE:CG1	2.57	0.52
19:DX:167:LYS:CG	19:DX:188:THR:HG21	2.39	0.52
6:DF:51:ARG:HG2	19:DX:171:ARG:NH1	2.25	0.52
19:DX:7:GLN:HE22	19:DX:80:GLU:CB	2.22	0.52
22:EA:105:ILE:HD11	22:EA:117:VAL:HG13	1.91	0.52
22:EA:175:ARG:HA	46:EY:69:TRP:NE1	2.25	0.52
22:EA:187:PHE:HB2	22:EA:197:TRP:CZ3	2.44	0.52
23:EB:40:LYS:HB3	23:EB:41:PRO:HD2	1.91	0.52
23:EB:54:THR:HA	23:EB:362:LYS:HZ1	1.73	0.52
27:EF:153:ILE:HG22	27:EF:157:ILE:CG1	2.40	0.52
30:EI:109:THR:HG23	30:EI:110:PRO:N	2.25	0.52
30:EI:11:LYS:CD	30:EI:36:ARG:NH1	2.73	0.52
30:EI:92:PRO:HG2	1:F1:656:C:P	2.50	0.52
33:EL:102:ALA:O	33:EL:106:VAL:HG23	2.10	0.52
37:EP:112:ASN:HB3	37:EP:128:THR:OG1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ET:41:LEU:HD13	41:ET:51:ILE:CD1	2.40	0.52
42:EU:87:LYS:HA	42:EU:93:ARG:HH21	1.75	0.52
43:EV:98:ARG:HG3	43:EV:98:ARG:NH1	2.25	0.52
22:EA:58:PRO:HG3	46:EY:53:GLY:HA3	1.92	0.52
1:F1:1038:G:C2'	1:F1:1039:G:H5'	2.39	0.52
1:F1:1179:G:H1	1:F1:1226:C:H42	1.58	0.52
1:F1:1393:A:C2	1:F1:1394:G:C4	2.98	0.52
1:F1:141:C:C2'	1:F1:142:A:H5'	2.40	0.52
1:F1:1839:A:O2'	1:F1:1840:U:C5	2.63	0.52
1:F1:2178:A:H2'	1:F1:2179:U:O5'	2.10	0.52
1:F1:2188:U:HO2'	1:F1:2189:G:P	2.27	0.52
1:F1:2250:A:C1'	1:F1:2251:A:OP2	2.53	0.52
1:F1:2726:C:C2'	1:F1:2727:A:H5'	2.40	0.52
1:F1:2847:U:H4'	1:F1:2848:U:OP1	2.09	0.52
1:F1:2886:G:C8	1:F1:2886:G:H3'	2.45	0.52
1:F1:2886:G:H3'	1:F1:2886:G:H8	1.74	0.52
1:F1:3344:U:C4'	1:F1:3345:A:OP2	2.55	0.52
12:FM:101:ASP:HB2	12:FM:104:SER:OG	2.10	0.52
1:F1:295:A:OP1	16:FQ:90:LYS:NZ	2.43	0.52
21:G3:93:G:C8	21:G3:93:G:O5'	2.63	0.52
22:GA:32:VAL:HA	22:GA:124:ARG:NH1	2.25	0.52
25:GD:32:LYS:HE2	25:GD:119:SER:HA	1.91	0.52
27:GF:169:PRO:HA	27:GF:216:ASN:HD21	1.74	0.52
30:GI:79:PHE:O	30:GI:82:ALA:HB3	2.10	0.52
43:GV:42:ILE:HG22	43:GV:46:GLN:NE2	2.25	0.52
44:GW:4:GLN:HE21	44:GW:76:LYS:NZ	2.08	0.52
1:H1:1148:U:H2'	1:H1:1149:U:C6	2.45	0.52
1:H1:1191:G:H5''	8:HH:33:ASN:HD21	1.74	0.52
1:H1:1413:G:C2	1:H1:1414:C:C6	2.98	0.52
1:H1:1637:A:H2'	1:H1:1638:A:H5''	1.92	0.52
1:H1:2310:G:P	50:H1:3958:HOH:O	2.61	0.52
1:H1:2645:A:N3	1:H1:2645:A:H2'	2.25	0.52
1:H1:2730:C:H4'	4:HC:16:ASN:O	2.10	0.52
33:GL:188:ARG:NH2	1:H1:278:U:O2'	2.42	0.52
1:H1:2958:C:O3'	1:H1:2959:A:C8	2.63	0.52
23:GB:62:ARG:NH1	1:H1:3027:U:OP1	2.43	0.52
1:H1:3046:A:H5''	1:H1:3047:U:OP2	2.10	0.52
1:H1:1909:C:H5''	1:H1:3266:G:N1	2.25	0.52
4:HC:65:LYS:HG3	4:HC:85:ARG:HE	1.74	0.52
9:HJ:122:ASP:OD1	9:HJ:123:ARG:N	2.43	0.52
15:HP:45:ARG:HD2	15:HP:46:GLY:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:HX:16:MET:HE2	19:HX:18:VAL:HG22	1.92	0.52
1:A1:1112:A:H2'	1:A1:1113:A:C8	2.45	0.52
1:A1:113:A:O2'	1:A1:114:A:OP1	2.26	0.52
1:A1:1196:A:C6	1:A1:1357:A:C8	2.97	0.52
1:A1:2192:C:H4'	1:A1:2193:A:C8	2.45	0.52
1:A1:2239:A:C2'	1:A1:2240:C:H5'	2.40	0.52
1:A1:2305:U:H6	1:A1:2305:U:O5'	1.93	0.52
1:A1:2397:A:H2'	24:BC:74:THR:CG2	2.23	0.52
1:A1:2737:A:C2'	1:A1:2738:G:H5'	2.40	0.52
1:A1:2931:G:O2'	23:BB:252:ALA:HB1	2.10	0.52
1:A1:2973:C:H2'	1:A1:2974:U:O4'	2.10	0.52
1:A1:3344:U:C4'	1:A1:3345:A:OP2	2.56	0.52
1:A1:623:G:N2	1:A1:633:C:O2	2.42	0.52
6:AF:107:ASP:HA	30:BI:196:PHE:HZ	1.75	0.52
6:AF:21:LYS:NZ	19:AX:174:GLU:HG2	2.25	0.52
15:AP:15:TRP:CZ3	15:AP:69:PRO:HD3	2.44	0.52
1:A1:73:G:H5'	18:AU:56:VAL:HG11	1.91	0.52
18:AU:52:LEU:HB3	18:AU:93:ILE:HA	1.91	0.52
19:AX:106:LYS:HE2	19:AX:123:ASP:OD2	2.10	0.52
1:A1:740:A:H5'	32:BK:114:GLY:O	2.10	0.52
35:BN:151:HIS:ND1	35:BN:164:ALA:O	2.33	0.52
43:BV:129:PRO:HA	43:BV:224:TRP:CG	2.45	0.52
43:BV:34:MET:HA	43:BV:37:ARG:HD2	1.92	0.52
1:A1:1365:C:H4'	45:BX:62:ASP:CB	2.40	0.52
21:C3:28:C:C2'	21:C3:29:C:H5'	2.34	0.52
21:C3:93:G:O5'	21:C3:93:G:C8	2.62	0.52
23:CB:257:ARG:NH2	1:D1:2361:U:O3'	2.43	0.52
24:CC:269:ILE:HG12	24:CC:279:GLN:OE1	2.09	0.52
25:CD:77:ARG:HH22	25:CD:166:GLU:CG	2.23	0.52
26:CE:45:ILE:HG12	26:CE:55:LEU:HD22	1.90	0.52
32:CK:36:LYS:HA	18:DU:1:MET:HE1	1.92	0.52
34:CM:23:ARG:CZ	1:D1:2692:A:C5	2.93	0.52
35:CN:24:ASN:ND2	35:CN:27:HIS:HB2	2.25	0.52
39:CR:75:LEU:HB2	39:CR:91:VAL:HB	1.92	0.52
44:CW:54:LEU:HD22	44:CW:92:VAL:CG1	2.39	0.52
46:CY:13:LYS:HE3	46:CY:14:TYR:CE2	2.45	0.52
1:D1:1046:G:H5''	13:FN:3:LYS:CE	2.32	0.52
34:CM:44:TYR:CE1	1:D1:1112:A:H4'	2.45	0.52
1:D1:1255:A:C2	1:D1:1309:G:C6	2.97	0.52
1:D1:1506:G:N2	1:D1:1896:C:C5	2.78	0.52
1:D1:1512:G:H3'	50:D1:4485:HOH:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1599:G:C2	1:D1:1600:U:C2	2.98	0.52
1:D1:1663:C:O2'	1:D1:1664:G:H5'	2.09	0.52
1:D1:167:U:H2'	1:D1:168:G:C8	2.45	0.52
1:D1:2343:A:H2'	1:D1:2344:U:H5''	1.92	0.52
27:CF:233:LYS:NZ	1:D1:2577:G:OP1	2.27	0.52
37:CP:49:HIS:HD2	1:D1:2744:C:O2'	1.92	0.52
1:D1:2839:A:P	50:D1:4318:HOH:O	2.68	0.52
1:D1:2859:G:C5	50:D1:4455:HOH:O	2.36	0.52
1:D1:3067:A:HO2'	1:D1:3068:U:P	2.24	0.52
1:D1:3345:A:OP2	1:D1:3345:A:H8	1.93	0.52
1:D1:373:A:N3	1:D1:375:G:H5''	2.25	0.52
1:D1:838:G:H1'	2:DA:50:TRP:HZ2	1.73	0.52
8:DH:58:TYR:HD2	8:DH:73:ILE:HD12	1.74	0.52
31:CJ:127:ALA:CB	9:DJ:58:ILE:HD13	2.40	0.52
9:DJ:71:LEU:HB3	9:DJ:97:ILE:HD11	1.91	0.52
10:DK:92:GLU:O	10:DK:105:PRO:HB3	2.10	0.52
11:DL:23:VAL:O	11:DL:30:LEU:HD12	2.10	0.52
13:DN:118:PHE:HD2	13:DN:139:PHE:CE1	2.27	0.52
18:DU:50:GLU:O	18:DU:150:LEU:HD12	2.10	0.52
18:DU:25:ASN:OD1	18:DU:26:GLN:N	2.42	0.52
19:DX:106:LYS:HE2	19:DX:123:ASP:OD2	2.09	0.52
19:DX:55:PHE:CZ	19:DX:59:MET:HE3	2.44	0.52
24:EC:27:ALA:HB2	24:EC:272:THR:HG23	1.92	0.52
26:EE:88:PHE:CD2	26:EE:152:VAL:HG12	2.46	0.52
32:EK:140:ALA:HB1	1:F1:743:A:C8	2.45	0.52
34:EM:138:GLU:HA	34:EM:138:GLU:OE1	2.08	0.52
34:EM:156:GLY:CA	34:EM:181:PRO:HG3	2.39	0.52
36:EO:24:LEU:HD22	36:EO:50:VAL:HG22	1.92	0.52
43:EV:105:LEU:HD12	43:EV:131:ILE:HD13	1.92	0.52
44:EW:14:ASN:HD21	44:EW:17:LYS:HE3	1.74	0.52
1:F1:1052:A:C2	1:F1:1053:A:N7	2.78	0.52
37:EP:19:TYR:CD2	1:F1:1077:U:H4'	2.44	0.52
34:EM:142:PHE:CE1	1:F1:1107:A:N7	2.78	0.52
1:F1:137:A:H2'	1:F1:138:C:C6	2.45	0.52
1:F1:1402:G:O2'	1:F1:1403:C:H5'	2.10	0.52
1:F1:1693:U:H2'	1:F1:1694:C:C6	2.45	0.52
1:F1:1752:G:H5''	1:F1:1753:A:C3'	2.39	0.52
1:F1:198:A:C6	1:F1:219:A:C6	2.98	0.52
1:F1:2362:A:H2'	1:F1:2363:A:C8	2.45	0.52
1:F1:2568:G:C6	1:F1:2569:A:N6	2.77	0.52
37:EP:14:LYS:NZ	1:F1:2628:C:OP1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2800:C:O2'	1:F1:2801:A:H5'	2.10	0.52
1:F1:2921:A:C6	1:F1:2922:A:N1	2.78	0.52
1:F1:3142:A:H8	1:F1:3142:A:O5'	1.93	0.52
1:F1:3175:A:H2'	1:F1:3177:G:N7	2.25	0.52
1:F1:725:C:O2'	1:F1:726:G:H5'	2.10	0.52
1:F1:727:C:H2'	1:F1:728:G:H8	1.74	0.52
1:F1:927:G:C5	1:F1:928:U:C5	2.98	0.52
5:FE:77:THR:HG21	5:FE:157:ASP:OD1	2.10	0.52
6:FF:11:ARG:HD2	6:FF:59:GLN:OE1	2.10	0.52
1:F1:3096:U:H5''	10:FK:112:LYS:HZ3	1.75	0.52
13:FN:16:GLY:H	13:FN:19:ALA:HB2	1.73	0.52
13:FN:75:VAL:HG12	13:FN:76:ASN:O	2.10	0.52
14:FO:48:VAL:HA	14:FO:61:SER:O	2.10	0.52
14:FO:48:VAL:HG23	14:FO:98:PHE:HZ	1.75	0.52
1:F1:2727:A:C4'	17:FT:37:PRO:HD2	2.40	0.52
18:FU:123:LEU:HD23	18:FU:136:VAL:HG22	1.91	0.52
20:G2:75:A:OP2	40:GS:51:LYS:CB	2.56	0.52
21:G3:98:G:OP2	19:HX:66:LYS:CE	2.58	0.52
24:GC:157:TYR:CE1	24:GC:159:PHE:CZ	2.98	0.52
26:GE:183:ARG:NH2	1:H1:3101:G:OP2	2.43	0.52
27:GF:127:TYR:CD1	27:GF:185:LYS:NZ	2.68	0.52
29:GH:80:ILE:HG22	29:GH:81:SER:N	2.25	0.52
32:GK:110:PHE:HD2	32:GK:128:LYS:HD2	1.74	0.52
34:GM:83:LEU:CB	34:GM:88:VAL:CG2	2.87	0.52
35:GN:128:ALA:O	35:GN:132:PRO:HG3	2.10	0.52
38:GQ:33:GLU:OE1	38:GQ:63:THR:N	2.39	0.52
43:GV:104:ARG:HD2	1:H1:1128:G:C5'	2.36	0.52
39:GR:39:ARG:CZ	1:H1:11:A:H4'	2.40	0.52
1:H1:10:A:H2'	1:H1:11:A:H8	1.74	0.52
1:H1:1683:U:H2'	1:H1:1684:C:H6	1.75	0.52
1:H1:2138:A:H4'	1:H1:2139:A:O5'	2.10	0.52
1:H1:2583:C:H2'	1:H1:2584:A:O4'	2.10	0.52
1:H1:2669:A:H4'	1:H1:2670:U:OP1	2.09	0.52
1:H1:3046:A:C6	1:H1:3048:A:H1'	2.45	0.52
1:H1:472:C:H6	1:H1:472:C:O5'	1.93	0.52
1:H1:48:U:H2'	1:H1:48:U:O2	2.10	0.52
1:H1:467:A:N6	1:H1:512:G:C4	2.76	0.52
36:GO:95:TRP:CD2	1:H1:880:U:H5''	2.45	0.52
1:H1:1613:A:C6	3:HB:4:ASN:HB3	2.45	0.52
13:HN:101:LYS:HA	13:HN:106:ALA:HB3	1.92	0.52
1:H1:1239:G:N3	19:HX:128:HIS:HE1	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HF:6:PHE:HB3	19:HX:162:LYS:HB3	1.92	0.52
1:A1:1172:G:O6	1:A1:1185:A:H2	1.93	0.51
1:A1:1191:G:O2'	1:A1:1192:A:H5'	2.10	0.51
1:A1:2661:G:O4'	25:BD:97:SER:HB3	2.10	0.51
1:A1:2716:A:OP1	1:A1:2717:G:N2	2.39	0.51
1:A1:3030:A:H2'	1:A1:3031:U:C6	2.44	0.51
1:A1:641:U:O4'	1:A1:3233:A:N6	2.43	0.51
5:AE:58:PHE:CD2	5:AE:85:VAL:HG22	2.45	0.51
6:AF:11:ARG:HG3	6:AF:12:VAL:N	2.23	0.51
9:AJ:88:LEU:HG	9:AJ:92:VAL:HG11	1.91	0.51
18:AU:132:LYS:HA	18:AU:135:LEU:CD1	2.34	0.51
19:AX:45:ALA:CA	19:AX:50:HIS:HD2	2.23	0.51
20:B2:1:A:H5''	20:B2:2:G:OP1	2.09	0.51
20:B2:9:U:H1'	50:B2:341:HOH:O	2.10	0.51
23:BB:113:ASN:HB3	23:BB:174:ASN:ND2	2.24	0.51
1:A1:2669:A:N3	25:BD:59:ILE:CD1	2.73	0.51
26:BE:124:ILE:HD11	26:BE:162:SER:OG	2.09	0.51
26:BE:22:GLN:O	26:BE:23:ARG:HB2	2.11	0.51
26:BE:49:THR:O	26:BE:51:ASP:N	2.43	0.51
26:BE:78:MET:O	26:BE:82:VAL:HG23	2.10	0.51
21:B3:90:A:H2	29:BH:162:ARG:NH2	2.08	0.51
1:A1:1066:A:H1'	29:BH:198:LYS:HZ3	1.73	0.51
30:BI:101:LEU:HD11	30:BI:103:ILE:HG12	1.93	0.51
34:BM:21:ARG:HA	34:BM:24:ARG:CZ	2.40	0.51
35:BN:29:LEU:HA	35:BN:32:LYS:HG3	1.91	0.51
35:BN:69:VAL:HG21	35:BN:93:LEU:HD11	1.92	0.51
46:BY:33:GLN:HG3	46:BY:34:HIS:CD2	2.44	0.51
20:C2:140:U:H5''	20:C2:140:U:H6	1.74	0.51
20:C2:28:G:C5	20:C2:29:U:C5	2.98	0.51
22:CA:169:ILE:HG22	22:CA:170:VAL:O	2.10	0.51
24:CC:319:ARG:NH2	1:D1:620:A:C8	2.74	0.51
24:CC:98:GLY:HA2	24:CC:105:ARG:HH12	1.75	0.51
26:CE:87:LYS:O	26:CE:184:LEU:HB2	2.10	0.51
29:CH:151:ALA:HA	29:CH:154:ARG:HG3	1.92	0.51
31:CJ:41:ILE:HG13	31:CJ:64:CYS:HA	1.91	0.51
34:CM:243:VAL:CG1	34:CM:247:PHE:HD2	2.23	0.51
35:CN:45:PHE:CE1	35:CN:139:LEU:HD22	2.46	0.51
35:CN:89:ASN:HD22	35:CN:109:THR:HG21	1.73	0.51
37:CP:42:ILE:HG22	37:CP:60:ARG:O	2.11	0.51
37:CP:62:GLY:HA3	37:CP:74:VAL:CG1	2.40	0.51
1:D1:1036:G:H22	1:D1:1066:A:H2	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1041:C:O2	1:D1:1041:C:H2'	2.10	0.51
1:D1:1072:A:H5''	1:D1:1073:A:OP2	2.09	0.51
1:D1:1518:G:O6	3:DB:2:GLY:N	2.43	0.51
1:D1:1576:C:O2'	1:D1:1577:C:H5'	2.09	0.51
1:D1:2178:A:H2'	1:D1:2179:U:O5'	2.09	0.51
1:D1:2400:C:O2	1:D1:2807:A:N1	2.43	0.51
22:CA:68:TYR:CE1	1:D1:2520:G:O6	2.63	0.51
1:D1:2568:G:C6	1:D1:2569:A:N6	2.78	0.51
1:D1:1074:A:C2	1:D1:2635:C:O2	2.63	0.51
5:DE:157:ASP:O	5:DE:160:LEU:HB2	2.10	0.51
1:D1:525:C:O2'	5:DE:3:ARG:HD3	2.09	0.51
5:DE:173:TYR:CG	6:DF:106:PHE:HD1	2.28	0.51
12:DM:38:PHE:CG	12:DM:85:TYR:HD1	2.28	0.51
17:DT:32:THR:O	17:DT:32:THR:HG22	2.10	0.51
19:DX:96:GLN:H	19:DX:134:THR:CG2	2.20	0.51
24:EC:157:TYR:CE1	24:EC:179:VAL:HG13	2.45	0.51
24:EC:269:ILE:HG22	24:EC:270:PHE:CD1	2.45	0.51
25:ED:50:ALA:HB2	25:ED:65:MET:HB2	1.92	0.51
29:EH:47:PRO:HB3	29:EH:171:TRP:CZ2	2.45	0.51
30:EI:74:ALA:O	30:EI:78:ILE:HG12	2.10	0.51
33:EL:19:MET:CE	33:EL:19:MET:HA	2.40	0.51
35:EN:167:VAL:CG1	35:EN:169:SER:O	2.59	0.51
41:ET:22:ARG:NH2	41:ET:32:PHE:HE2	2.07	0.51
44:EW:28:ALA:HB3	44:EW:29:PRO:HD3	1.91	0.51
1:F1:1247:C:C5'	1:F1:1248:G:H5''	2.34	0.51
1:F1:1594:C:N4	1:F1:1595:A:C5	2.77	0.51
1:F1:161:U:C2'	1:F1:162:C:H5''	2.40	0.51
1:F1:1695:A:H2'	1:F1:1696:C:C6	2.44	0.51
1:F1:1711:U:H1'	12:FM:77:TYR:CE2	2.44	0.51
1:F1:1928:C:N4	1:F1:1929:G:C6	2.78	0.51
1:F1:2356:A:H5'	1:F1:2356:A:C8	2.41	0.51
1:F1:2958:C:O3'	1:F1:2959:A:C8	2.63	0.51
1:F1:3022:A:H2'	1:F1:3023:C:C6	2.44	0.51
1:F1:3029:A:H2'	1:F1:3030:A:C8	2.45	0.51
1:F1:405:A:O2'	1:F1:406:A:H5'	2.10	0.51
1:F1:589:C:H6	1:F1:589:C:O5'	1.91	0.51
1:F1:682:G:OP2	50:F1:3741:HOH:O	2.18	0.51
1:F1:73:G:OP1	18:FU:56:VAL:CG1	2.56	0.51
5:FE:88:LYS:HG3	5:FE:89:ARG:O	2.10	0.51
6:FF:11:ARG:HG2	6:FF:55:LEU:HD22	1.91	0.51
45:EX:89:MET:HE2	14:FO:31:VAL:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:FX:58:ASN:O	19:FX:62:LEU:HG	2.10	0.51
21:G3:63:A:O5'	29:GH:206:LEU:CG	2.57	0.51
24:GC:91:ARG:O	24:GC:94:GLN:HB2	2.10	0.51
30:GI:74:ALA:O	30:GI:78:ILE:HG12	2.10	0.51
33:GL:119:TYR:CE1	33:GL:131:GLU:HB2	2.45	0.51
33:GL:8:GLU:CD	33:GL:50:LYS:HZ3	2.13	0.51
35:GN:26:TYR:CE1	14:HO:4:LEU:HD11	2.46	0.51
35:GN:88:THR:HG22	35:GN:107:THR:HG23	1.92	0.51
37:GP:8:ARG:HD2	37:GP:11:THR:HG21	1.93	0.51
44:GW:66:ILE:HG23	44:GW:67:PRO:HD2	1.92	0.51
45:GX:3:ILE:O	45:GX:5:PRO:HD2	2.09	0.51
1:H1:1005:A:C2'	1:H1:1006:C:OP1	2.57	0.51
1:H1:1127:U:C2	1:H1:1128:G:C8	2.98	0.51
1:H1:2148:A:HO2'	1:H1:2238:A:HO2'	1.56	0.51
1:H1:2598:A:O2'	1:H1:2599:G:H5'	2.10	0.51
1:H1:3158:G:H3'	1:H1:3159:A:C5'	2.39	0.51
1:H1:434:A:C4'	1:H1:435:A:C8	2.93	0.51
1:H1:512:G:C2	1:H1:513:G:C5	2.98	0.51
43:GV:31:SER:HA	1:H1:628:A:OP1	2.10	0.51
15:HP:45:ARG:NH1	15:HP:50:LEU:HB2	2.25	0.51
19:HX:113:LEU:CD1	19:HX:140:THR:HG21	2.38	0.51
1:A1:1147:A:H2'	1:A1:1148:U:H6	1.75	0.51
1:A1:146:U:H6	1:A1:146:U:H5''	1.72	0.51
1:A1:2649:G:H2'	1:A1:2650:U:C6	2.45	0.51
1:A1:2651:A:H2'	1:A1:2652:G:H8	1.71	0.51
1:A1:3022:A:H2'	1:A1:3023:C:C6	2.46	0.51
1:A1:49:A:H2'	1:A1:50:A:H8	1.74	0.51
1:A1:1613:A:C6	3:AB:4:ASN:HB3	2.46	0.51
2:AA:25:ALA:HB1	3:AB:52:TYR:CD2	2.46	0.51
2:AA:17:THR:HG23	3:AB:52:TYR:O	2.10	0.51
5:AE:77:THR:HG21	5:AE:157:ASP:OD1	2.10	0.51
8:AH:44:THR:O	8:AH:48:VAL:HG23	2.10	0.51
9:AJ:75:THR:HG23	31:BJ:124:LYS:HE2	1.91	0.51
13:AN:38:PHE:HE2	13:AN:76:ASN:HB2	1.75	0.51
20:B2:28:G:C5	20:B2:29:U:C5	2.98	0.51
21:B3:43:A:OP1	25:BD:137:ARG:CD	2.56	0.51
22:BA:253:GLU:OE2	22:GA:252:LYS:HG2	2.09	0.51
24:BC:163:VAL:CG2	24:BC:175:PHE:CE2	2.93	0.51
29:BH:166:VAL:HG12	29:BH:167:THR:N	2.25	0.51
9:AJ:102:SER:H	31:BJ:139:SER:HB3	1.74	0.51
33:BL:22:ILE:O	33:BL:26:ARG:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:56:THR:CG2	34:BM:57:ASN:N	2.74	0.51
39:BR:61:VAL:HG23	39:BR:61:VAL:O	2.10	0.51
20:C2:61:G:C2'	20:C2:100:C:O2'	2.59	0.51
20:C2:60:C:O2'	20:C2:61:G:H5'	2.11	0.51
22:CA:203:VAL:HG23	1:D1:2180:G:OP1	2.10	0.51
23:CB:110:ILE:HG23	23:CB:114:THR:HG21	1.92	0.51
24:CC:137:ALA:C	24:CC:138:LEU:HD23	2.30	0.51
24:CC:207:LYS:NZ	1:D1:1412:U:O4	2.43	0.51
24:CC:283:TYR:HE1	24:CC:285:LEU:HA	1.72	0.51
25:CD:104:PHE:CE1	25:CD:106:ILE:HD11	2.42	0.51
25:CD:19:ILE:HG21	25:CD:125:MET:CE	2.39	0.51
25:CD:162:TRP:CH2	25:CD:167:PHE:HE2	2.28	0.51
26:CE:103:VAL:HG22	26:CE:110:ILE:HG12	1.92	0.51
30:CI:79:PHE:O	30:CI:82:ALA:HB3	2.09	0.51
32:CK:110:PHE:HE2	32:CK:128:LYS:HZ2	1.59	0.51
34:CM:210:ASP:HA	34:CM:213:MET:CG	2.41	0.51
34:CM:22:ARG:HB3	34:CM:30:TYR:OH	2.09	0.51
34:CM:66:TYR:CE1	34:CM:73:ARG:HB2	2.46	0.51
35:CN:25:VAL:CG1	14:DO:7:GLU:CB	2.88	0.51
43:CV:48:TYR:CE1	43:CV:183:HIS:CD2	2.98	0.51
21:C3:84:U:OP2	43:CV:215:ARG:HD3	2.10	0.51
1:D1:1126:A:C5	1:D1:1127:U:C5	2.98	0.51
1:D1:1141:U:C4	1:D1:1142:G:C2	2.98	0.51
1:D1:2509:U:P	1:D1:2575:G:N2	2.83	0.51
1:D1:298:G:H2'	1:D1:299:G:H5'	1.92	0.51
1:D1:49:A:H2'	1:D1:50:A:C8	2.44	0.51
1:D1:687:C:C2	1:D1:688:U:C5	2.98	0.51
4:DC:21:HIS:HA	4:DC:71:ASP:O	2.10	0.51
5:DE:69:LEU:HD21	5:DE:114:ASP:HB2	1.88	0.51
7:DG:27:TYR:CE2	7:DG:52:ARG:HG2	2.45	0.51
8:DH:58:TYR:CE2	8:DH:60:TYR:CD2	2.98	0.51
18:DU:108:GLU:OE1	18:DU:108:GLU:HA	2.09	0.51
42:CU:124:ALA:HB1	18:DU:152:THR:HG22	1.92	0.51
19:DX:168:THR:N	19:DX:188:THR:HG23	2.20	0.51
20:E2:111:A:O5'	20:E2:111:A:H8	1.93	0.51
20:E2:72:C:OP1	2:FA:88:LYS:NZ	2.35	0.51
22:EA:118:GLU:HG2	22:EA:123:ASP:HB2	1.92	0.51
23:EB:294:THR:HG22	23:EB:296:GLY:H	1.75	0.51
24:EC:91:ARG:O	24:EC:94:GLN:HB2	2.10	0.51
31:EJ:25:ALA:HA	1:F1:1923:G:OP1	2.09	0.51
32:EK:122:PRO:HB3	32:EK:142:GLY:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:37:HIS:NE2	33:EL:63:ARG:HD2	2.26	0.51
34:EM:156:GLY:HA2	34:EM:181:PRO:CG	2.39	0.51
37:EP:74:VAL:CG1	37:EP:75:ILE:H	2.22	0.51
40:ES:114:ARG:O	40:ES:118:LEU:HG	2.10	0.51
43:EV:103:PHE:CZ	43:EV:124:ILE:HG12	2.45	0.51
44:EW:19:CYS:CA	44:EW:22:ILE:HD12	2.39	0.51
1:F1:978:G:N7	1:F1:1144:G:C8	2.78	0.51
1:F1:1210:C:C5'	19:FX:171:ARG:HH21	2.22	0.51
1:F1:126:A:C5'	1:F1:127:A:OP1	2.56	0.51
1:F1:1397:G:C2'	1:F1:1398:G:H5'	2.40	0.51
1:F1:1620:U:O2'	1:F1:1631:U:O2	2.28	0.51
1:F1:2274:A:H5'	1:F1:2300:G:H22	1.76	0.51
1:F1:2275:A:H2'	1:F1:2277:U:C5'	2.39	0.51
1:F1:2354:C:O2'	1:F1:2355:C:H5'	2.10	0.51
1:F1:3005:A:H2'	1:F1:3006:A:H8	1.75	0.51
1:F1:1909:C:H5''	1:F1:3266:G:N1	2.25	0.51
1:F1:603:A:H2'	1:F1:604:A:C8	2.45	0.51
1:F1:817:A:H2'	1:F1:818:U:C6	2.46	0.51
1:F1:919:A:C1'	1:F1:920:A:C2	2.93	0.51
9:FJ:224:LEU:O	9:FJ:225:ASN:CB	2.58	0.51
1:F1:1880:C:H1'	11:FL:7:TYR:CE1	2.46	0.51
13:FN:15:GLN:NE2	13:FN:79:HIS:CE1	2.78	0.51
32:EK:98:LYS:HA	18:FU:166:VAL:HB	1.91	0.51
18:FU:54:PRO:HG3	18:FU:72:GLY:C	2.30	0.51
20:G2:110:A:C2	20:G2:115:G:O6	2.64	0.51
22:GA:31:ARG:O	22:GA:164:ARG:NH1	2.31	0.51
23:GB:118:PHE:CE2	1:H1:2989:G:N2	2.63	0.51
23:GB:377:PHE:HZ	41:GT:13:TYR:HE1	1.58	0.51
24:GC:233:VAL:O	24:GC:234:ASP:OD1	2.28	0.51
24:GC:319:ARG:NH2	1:H1:634:G:O6	2.42	0.51
27:GF:197:ARG:O	27:GF:198:ASN:C	2.47	0.51
30:GI:9:ASP:O	30:GI:13:HIS:CD2	2.63	0.51
35:GN:63:LEU:HD21	35:GN:140:LEU:HB3	1.91	0.51
35:GN:67:ARG:HG2	1:H1:810:G:OP1	2.10	0.51
45:GX:47:ARG:NH1	1:H1:1187:C:N3	2.58	0.51
1:H1:1115:U:H6	1:H1:1115:U:H5'	1.74	0.51
1:H1:1205:A:C8	1:H1:1205:A:H5'	2.45	0.51
1:H1:1593:A:C6	1:H1:1594:C:C4	2.98	0.51
1:H1:1740:U:C5'	1:H1:1741:U:OP1	2.57	0.51
22:GA:236:VAL:HG12	1:H1:2179:U:OP1	2.10	0.51
1:H1:2250:A:H2	1:H1:2256:G:O6	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2391:G:H5'	1:H1:2392:A:C4'	2.37	0.51
27:GF:25:LYS:N	1:H1:2552:A:N3	2.51	0.51
1:H1:69:A:N6	1:H1:302:G:O2'	2.43	0.51
1:H1:3166:A:H2'	1:H1:3167:U:C6	2.45	0.51
1:H1:340:G:H5''	1:H1:343:A:H1'	1.92	0.51
1:H1:828:C:O2'	1:H1:829:C:H5'	2.10	0.51
5:HE:69:LEU:HD21	5:HE:114:ASP:CA	2.40	0.51
8:HH:47:ASP:OD1	8:HH:47:ASP:N	2.43	0.51
11:HL:74:VAL:HG12	11:HL:75:SER:N	2.26	0.51
15:HP:29:LYS:HB3	15:HP:72:TYR:CE2	2.46	0.51
1:A1:1308:U:H4'	28:BG:58:UNK:CA	2.34	0.51
1:A1:1593:A:C5	1:A1:1594:C:N4	2.78	0.51
1:A1:1870:C:H5'	1:A1:1873:C:N4	2.26	0.51
1:A1:1958:G:C5	50:A1:4528:HOH:O	2.63	0.51
1:A1:2245:G:H2'	1:A1:2246:G:H8	1.75	0.51
1:A1:2830:U:C2'	1:A1:2830:U:O2	2.58	0.51
1:A1:2866:G:H5''	23:BB:5:LYS:NZ	2.25	0.51
1:A1:3127:U:H2'	1:A1:3128:G:C5'	2.21	0.51
1:A1:643:A:HO2'	1:A1:644:A:P	2.27	0.51
4:AC:72:CYS:SG	4:AC:75:CYS:N	2.75	0.51
4:AC:14:LYS:HB2	4:AC:75:CYS:SG	2.51	0.51
5:AE:164:VAL:HG13	5:AE:170:LEU:HG	1.90	0.51
7:AG:11:GLN:HG3	7:AG:12:SER:N	2.25	0.51
9:AJ:66:ASN:H	9:AJ:133:LEU:HD22	1.74	0.51
9:AJ:67:LYS:HD2	9:AJ:112:ASP:CG	2.30	0.51
14:AO:40:LEU:HD22	14:AO:42:PHE:HE1	1.75	0.51
18:AU:131:ALA:O	18:AU:135:LEU:HD12	2.10	0.51
21:B3:48:G:H2'	21:B3:49:A:C8	2.45	0.51
21:B3:81:A:H2'	21:B3:82:G:H5'	1.93	0.51
22:BA:105:ILE:HD11	22:BA:117:VAL:HG13	1.91	0.51
22:BA:203:VAL:HG12	22:BA:218:GLN:HG2	1.93	0.51
25:BD:162:TRP:CH2	25:BD:167:PHE:CE2	2.98	0.51
1:A1:1308:U:C5'	28:BG:58:UNK:HG2	2.40	0.51
34:BM:216:LEU:HD12	34:BM:228:PHE:CD1	2.46	0.51
35:BN:38:VAL:HG22	35:BN:47:GLN:HA	1.91	0.51
39:BR:75:LEU:HB2	39:BR:91:VAL:HB	1.92	0.51
44:BW:54:LEU:HA	44:BW:94:HIS:HB2	1.93	0.51
45:BX:80:ASN:HB2	45:BX:81:PRO:CD	2.34	0.51
22:CA:206:ASN:HB3	22:CA:207:PRO:HD2	1.92	0.51
23:CB:105:VAL:HG21	23:CB:146:LEU:CD2	2.39	0.51
23:CB:86:ILE:CD1	23:CB:158:VAL:HG11	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:161:ASP:OD1	24:CC:260:GLU:HB2	2.11	0.51
24:CC:323:PRO:HG2	43:CV:146:TYR:HB3	1.92	0.51
24:CC:50:LYS:HB2	24:CC:116:VAL:HG11	1.92	0.51
29:CH:14:GLY:O	29:CH:128:ARG:NH2	2.34	0.51
33:CL:175:ARG:CZ	1:D1:317:A:H4'	2.41	0.51
35:CN:92:ARG:NH2	1:D1:810:G:C8	2.78	0.51
41:CT:35:THR:HG21	41:CT:37:LYS:HG2	1.92	0.51
45:CX:86:ILE:HD13	14:DO:25:THR:O	2.10	0.51
1:D1:1052:A:N3	1:D1:1053:A:N7	2.57	0.51
1:D1:10:A:H2'	1:D1:11:A:H8	1.76	0.51
1:D1:1180:A:H5'	1:D1:1181:A:OP2	2.10	0.51
1:D1:1207:A:C4	1:D1:1209:G:C8	2.98	0.51
1:D1:2597:G:O2'	1:D1:2598:A:H5'	2.10	0.51
1:D1:1162:A:O5'	1:D1:2631:A:H1'	2.10	0.51
1:D1:1074:A:H2	1:D1:2635:C:O2	1.92	0.51
1:D1:2920:U:O2	1:D1:2922:A:H8	1.93	0.51
1:D1:3190:A:C6	1:D1:3191:G:N2	2.78	0.51
1:D1:3293:A:C2	1:D1:3294:A:C4	2.99	0.51
44:CW:16:HIS:CD2	1:D1:3330:U:OP1	2.60	0.51
1:D1:975:G:C2	1:D1:1397:G:O6	2.64	0.51
6:DF:28:VAL:CG1	6:DF:66:ASN:H	2.24	0.51
16:DQ:6:ALA:O	16:DQ:7:VAL:CB	2.58	0.51
33:CL:201:ARG:HG2	18:DU:23:PHE:CD2	2.45	0.51
21:E3:90:A:C2	29:EH:162:ARG:NH2	2.76	0.51
24:EC:259:THR:HG22	24:EC:260:GLU:H	1.76	0.51
25:ED:69:VAL:HG12	25:ED:71:ILE:HG13	1.92	0.51
27:EF:146:ILE:CG2	27:EF:156:VAL:HG11	2.40	0.51
29:EH:17:TYR:O	29:EH:96:VAL:HG23	2.10	0.51
36:EO:114:LYS:HB3	36:EO:146:LYS:HZ1	1.74	0.51
36:EO:42:ARG:NH2	1:F1:1626:U:OP1	2.44	0.51
42:EU:122:LEU:HD13	18:FU:150:LEU:CD2	2.40	0.51
43:EV:100:LEU:HD21	43:EV:127:VAL:CG1	2.31	0.51
43:EV:105:LEU:CD1	43:EV:131:ILE:HD13	2.40	0.51
43:EV:134:GLY:HA3	43:EV:231:ILE:HB	1.91	0.51
45:EX:43:ARG:NH1	1:F1:660:C:H3'	2.24	0.51
46:EY:26:VAL:O	46:EY:27:LYS:C	2.49	0.51
22:EA:175:ARG:HA	46:EY:69:TRP:CE2	2.45	0.51
1:F1:1048:U:H3	1:F1:1056:A:H61	1.59	0.51
1:F1:1147:A:H2'	1:F1:1148:U:H6	1.74	0.51
1:F1:1148:U:H2'	1:F1:1149:U:H6	1.73	0.51
1:F1:1737:A:O2'	1:F1:1738:A:H8	1.86	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1921:G:O2'	1:F1:1922:G:H5'	2.11	0.51
1:F1:2543:C:N4	7:FG:54:SER:HB3	2.25	0.51
1:F1:298:G:H2'	1:F1:299:G:H5'	1.92	0.51
1:F1:3064:A:N6	50:F1:4015:HOH:O	2.43	0.51
1:F1:3116:A:N6	1:F1:3117:G:C2	2.78	0.51
1:F1:3306:G:N2	1:F1:3314:U:C2	2.79	0.51
32:EK:36:LYS:HB2	1:F1:93:A:H5''	1.92	0.51
32:EK:24:LYS:CE	1:F1:967:U:O4	2.59	0.51
18:FU:31:LYS:O	18:FU:34:LEU:HB2	2.10	0.51
26:GE:22:GLN:O	26:GE:23:ARG:HB2	2.11	0.51
27:GF:196:VAL:CG2	27:GF:204:LEU:HD11	2.40	0.51
30:GI:46:LEU:HA	30:GI:135:CYS:SG	2.51	0.51
43:GV:132:THR:HG21	43:GV:227:ARG:CD	2.39	0.51
45:GX:39:GLY:HA3	1:H1:663:G:OP1	2.10	0.51
45:GX:86:ILE:HD13	14:HO:25:THR:O	2.09	0.51
37:GP:35:LYS:NZ	1:H1:1112:A:OP1	2.40	0.51
1:H1:1186:A:C2'	1:H1:1186:A:N3	2.72	0.51
1:H1:1376:A:H5''	1:H1:1377:A:O5'	2.09	0.51
1:H1:1594:C:N4	1:H1:1595:A:C5	2.78	0.51
1:H1:1601:U:H2'	1:H1:1602:U:H6	1.75	0.51
1:H1:169:A:H2'	1:H1:170:A:H5'	1.92	0.51
1:H1:2569:A:O2'	1:H1:2570:U:OP1	2.23	0.51
1:H1:2849:U:C2	1:H1:2850:U:C6	2.98	0.51
1:H1:2899:C:H4'	1:H1:2900:G:O5'	2.09	0.51
1:H1:3055:U:H2'	1:H1:3056:C:C6	2.46	0.51
1:H1:3070:C:H2'	1:H1:3071:C:H6	1.75	0.51
1:H1:3120:U:H2'	1:H1:3120:U:O2	2.08	0.51
24:GC:87:SER:HB2	1:H1:356:U:O2'	2.09	0.51
1:H1:439:A:C8	1:H1:439:A:P	2.98	0.51
1:H1:701:A:N6	1:H1:811:A:O4'	2.44	0.51
1:H1:937:G:H2'	1:H1:939:A:N7	2.25	0.51
1:H1:1519:G:N3	3:HB:13:PHE:HE1	2.09	0.51
4:HC:98:LYS:O	4:HC:102:VAL:HG23	2.09	0.51
9:HJ:66:ASN:H	9:HJ:133:LEU:HD22	1.75	0.51
11:HL:20:VAL:HG12	11:HL:21:ARG:N	2.25	0.51
19:HX:96:GLN:HB3	19:HX:134:THR:HG21	1.92	0.51
1:A1:1516:A:P	50:A1:4402:HOH:O	2.68	0.51
1:A1:1596:U:H4'	1:A1:1597:U:O5'	2.09	0.51
1:A1:209:A:H4'	1:A1:211:A:N7	2.25	0.51
1:A1:2274:A:H5'	1:A1:2300:G:N2	2.25	0.51
1:A1:2400:C:H5'	1:A1:2400:C:H6	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:298:G:H2'	1:A1:299:G:H5'	1.92	0.51
1:A1:434:A:C4'	1:A1:435:A:C8	2.92	0.51
2:AA:2:THR:O	2:AA:7:ALA:HB2	2.09	0.51
5:AE:46:ALA:HB3	5:AE:49:THR:OG1	2.10	0.51
1:A1:3232:A:H4'	5:AE:55:ALA:CB	2.40	0.51
9:AJ:224:LEU:O	9:AJ:225:ASN:CB	2.59	0.51
12:AM:89:GLN:HB2	12:AM:91:LEU:HG	1.91	0.51
19:AX:96:GLN:N	19:AX:134:THR:CG2	2.73	0.51
19:AX:87:LYS:HG3	19:AX:89:TYR:CZ	2.46	0.51
26:BE:7:GLU:HA	26:BE:55:LEU:O	2.11	0.51
27:BF:114:GLY:O	27:BF:115:LYS:HB2	2.10	0.51
31:BJ:86:ARG:H	31:BJ:102:ASN:ND2	2.08	0.51
34:BM:109:LEU:HD21	34:BM:142:PHE:CD2	2.45	0.51
34:BM:82:GLU:OE1	34:BM:104:LEU:CD2	2.59	0.51
35:BN:24:ASN:ND2	35:BN:27:HIS:HB2	2.25	0.51
41:BT:11:CYS:SG	41:BT:13:TYR:CD2	3.03	0.51
43:BV:139:ASN:O	43:BV:143:LYS:HG3	2.09	0.51
44:BW:19:CYS:CA	44:BW:22:ILE:HD12	2.40	0.51
24:CC:28:VAL:HG11	24:CC:133:LEU:CD1	2.40	0.51
20:C2:25:U:OP2	24:CC:201:LEU:HD22	2.11	0.51
24:CC:314:THR:HG21	1:D1:1372:A:C2	2.45	0.51
25:CD:82:ARG:O	25:CD:86:VAL:HG23	2.10	0.51
30:CI:81:ARG:HG3	30:CI:81:ARG:NH1	2.24	0.51
33:CL:19:MET:HA	33:CL:19:MET:HE2	1.91	0.51
35:CN:146:ARG:HB2	35:CN:149:TYR:CE2	2.45	0.51
47:CO:157:UNK:HG2	47:CO:158:UNK:N	2.24	0.51
44:CW:81:GLU:OE1	44:CW:81:GLU:HA	2.10	0.51
1:D1:1217:A:H62	1:D1:1342:U:H3	1.59	0.51
1:D1:2305:U:O5'	1:D1:2305:U:H6	1.94	0.51
1:D1:2571:U:H2'	1:D1:2572:U:C6	2.45	0.51
1:D1:3035:A:H4'	1:D1:3036:U:OP2	2.10	0.51
1:D1:3165:A:O2'	1:D1:3166:A:H5'	2.10	0.51
1:D1:3257:U:H2'	1:D1:3258:C:C6	2.45	0.51
1:D1:1909:C:H5''	1:D1:3266:G:N1	2.26	0.51
1:D1:396:A:C2	1:D1:397:A:C5	2.98	0.51
24:CC:373:SER:HB2	1:D1:564:A:H2'	1.92	0.51
1:D1:627:U:C2	1:D1:630:G:O6	2.63	0.51
5:DE:102:VAL:HG22	5:DE:170:LEU:CD2	2.37	0.51
8:DH:13:ARG:CG	8:DH:15:TRP:CZ3	2.92	0.51
8:DH:33:ASN:HA	8:DH:94:ASN:HD21	1.76	0.51
9:DJ:224:LEU:O	9:DJ:225:ASN:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:E2:74:A:H5''	40:ES:50:ARG:HE	1.75	0.51
26:EE:18:ILE:HG12	26:EE:27:VAL:HG22	1.92	0.51
28:EG:58:UNK:HB2	1:F1:1308:U:OP1	2.11	0.51
34:EM:48:LYS:HE2	34:EM:145:ILE:CD1	2.41	0.51
40:ES:38:LEU:HD11	40:ES:106:THR:O	2.10	0.51
42:EU:13:GLN:HB3	42:EU:17:GLN:OE1	2.09	0.51
44:EW:23:SER:HB3	1:F1:2340:A:OP1	2.11	0.51
45:EX:62:ASP:HA	1:F1:1366:C:H5''	1.92	0.51
1:F1:120:A:C4'	1:F1:121:A:O5'	2.56	0.51
1:F1:127:A:C5	1:F1:128:G:H1'	2.46	0.51
1:F1:1196:A:C6	1:F1:1357:A:C8	2.98	0.51
1:F1:137:A:H2'	1:F1:138:C:H6	1.74	0.51
1:F1:1949:U:H4'	1:F1:1950:C:OP2	2.10	0.51
1:F1:2101:G:C8	50:F1:4358:HOH:O	2.59	0.51
1:F1:2170:A:H4'	1:F1:2171:U:OP2	2.11	0.51
1:F1:2300:G:O5'	1:F1:2300:G:H8	1.93	0.51
1:F1:2358:A:O2'	1:F1:2359:G:H5'	2.10	0.51
23:EB:264:ARG:CZ	1:F1:2387:C:O2'	2.55	0.51
1:F1:679:C:H2'	1:F1:680:A:C8	2.45	0.51
1:F1:772:U:C2'	1:F1:773:C:H5'	2.40	0.51
1:F1:792:G:HO2'	1:F1:793:A:C5'	2.21	0.51
1:F1:811:A:H4'	1:F1:812:G:O5'	2.09	0.51
2:FA:44:MET:CE	2:FA:44:MET:CA	2.85	0.51
4:FC:95:THR:O	4:FC:99:LYS:HG3	2.10	0.51
1:F1:438:A:C4	5:FE:130:PHE:CE1	2.98	0.51
5:FE:62:ARG:NH1	6:FF:105:ASP:OD1	2.44	0.51
6:FF:92:LYS:O	6:FF:96:ILE:HG13	2.10	0.51
7:FG:13:LYS:CG	7:FG:14:LEU:N	2.73	0.51
11:FL:59:VAL:HG13	11:FL:63:GLU:OE1	2.10	0.51
19:FX:167:LYS:HA	19:FX:188:THR:HG21	1.89	0.51
6:FF:21:LYS:NZ	19:FX:174:GLU:HG2	2.25	0.51
1:F1:3177:G:C2	19:FX:177:TYR:CE2	2.98	0.51
25:GD:20:ASN:HB2	25:GD:68:HIS:HB3	1.92	0.51
27:GF:76:THR:HG21	27:GF:174:LYS:HE3	1.93	0.51
30:GI:152:ILE:HG22	30:GI:153:GLU:N	2.26	0.51
33:GL:64:VAL:HG21	33:GL:106:VAL:HG23	1.92	0.51
42:GU:89:THR:O	42:GU:93:ARG:HD2	2.11	0.51
43:GV:105:LEU:HD12	43:GV:131:ILE:HD13	1.92	0.51
1:H1:1179:G:H1	1:H1:1226:C:H42	1.57	0.51
1:H1:1460:G:OP1	50:H1:3771:HOH:O	2.19	0.51
1:H1:1620:U:O2'	1:H1:1631:U:O2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1642:G:C3'	1:H1:1643:G:H5''	2.40	0.51
1:H1:3165:A:O2'	1:H1:3166:A:H5'	2.11	0.51
1:H1:3187:U:C2'	1:H1:3188:A:H5'	2.41	0.51
1:H1:3214:A:H5''	1:H1:3215:C:H6	1.73	0.51
1:H1:3229:C:O2'	1:H1:3230:G:P	2.69	0.51
1:H1:488:U:C2	1:H1:490:A:OP2	2.63	0.51
1:H1:77:A:H2'	1:H1:78:G:H8	1.76	0.51
32:GK:24:LYS:CE	1:H1:967:U:O4	2.59	0.51
2:HA:19:CYS:O	2:HA:23:GLY:N	2.38	0.51
1:A1:123:C:H2'	1:A1:124:U:C6	2.46	0.51
1:A1:219:A:N1	1:A1:1416:U:H2'	2.26	0.51
1:A1:1543:A:H2'	1:A1:1544:U:C6	2.46	0.51
1:A1:1594:C:N4	1:A1:1595:A:C5	2.79	0.51
1:A1:1655:A:N3	1:A1:1655:A:C2'	2.71	0.51
1:A1:1869:G:OP1	50:A1:3859:HOH:O	2.19	0.51
1:A1:2101:G:C8	50:A1:4513:HOH:O	2.51	0.51
1:A1:2354:C:O2'	1:A1:2355:C:H5'	2.11	0.51
1:A1:2370:G:O2'	1:A1:2372:G:OP2	2.23	0.51
1:A1:436:U:O5'	1:A1:436:U:H6	1.94	0.51
1:A1:492:A:C2	1:A1:493:G:H1'	2.46	0.51
1:A1:777:C:H2'	1:A1:778:G:C8	2.44	0.51
1:A1:857:G:OP1	50:A1:4072:HOH:O	2.19	0.51
1:A1:882:G:C2'	1:A1:883:A:OP2	2.56	0.51
1:A1:3230:G:C6	5:AE:119:ARG:HD2	2.45	0.51
9:AJ:106:ASN:HB3	9:AJ:147:LEU:HD22	1.92	0.51
5:AE:18:TRP:CB	14:AO:95:ARG:NH2	2.73	0.51
17:AT:12:GLN:OE1	17:AT:15:LYS:HD2	2.11	0.51
19:AX:96:GLN:HB3	19:AX:134:THR:HG21	1.93	0.51
1:A1:3177:G:N2	19:AX:177:TYR:CE2	2.78	0.51
22:BA:117:VAL:HG12	22:BA:118:GLU:N	2.26	0.51
1:A1:848:C:H5'	22:BA:20:HIS:ND1	2.25	0.51
23:BB:360:SER:O	23:BB:362:LYS:HE2	2.10	0.51
23:BB:32:PHE:HD2	23:BB:44:THR:HG21	1.75	0.51
27:BF:101:LYS:O	27:BF:105:VAL:HG23	2.10	0.51
29:BH:174:THR:HG22	29:BH:176:LEU:H	1.75	0.51
29:BH:17:TYR:O	29:BH:96:VAL:HG23	2.11	0.51
34:BM:243:VAL:CG1	34:BM:247:PHE:HD2	2.22	0.51
20:B2:39:G:N2	42:BU:90:ARG:HH12	2.08	0.51
43:BV:80:VAL:CG2	43:BV:188:VAL:HG23	2.40	0.51
46:BY:74:PRO:N	46:BY:75:PRO:HD2	2.26	0.51
24:CC:335:PRO:HB2	43:CV:42:ILE:HG12	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CD:134:PRO:HG2	25:CD:135:GLY:H	1.75	0.51
25:CD:50:ALA:HB2	25:CD:65:MET:HB2	1.91	0.51
26:CE:29:GLY:H	26:CE:82:VAL:HG11	1.75	0.51
32:CK:100:PRO:HA	18:DU:164:LYS:HD3	1.92	0.51
34:CM:38:ILE:HD12	37:CP:70:ARG:NH2	2.26	0.51
35:CN:128:ALA:O	35:CN:132:PRO:HG3	2.10	0.51
47:CO:150:UNK:HA	47:CO:153:UNK:HG3	1.91	0.51
38:CQ:61:PRO:HG3	38:CQ:78:PHE:CG	2.46	0.51
1:D1:120:A:H61	1:D1:148:G:H1'	1.75	0.51
1:D1:1595:A:N3	1:D1:1599:G:C6	2.78	0.51
1:D1:2714:U:H2'	1:D1:2715:C:H5'	1.91	0.51
1:D1:2962:U:H2'	1:D1:2963:U:C6	2.45	0.51
1:D1:3022:A:H2'	1:D1:3023:C:C6	2.45	0.51
26:CE:69:GLN:HB3	1:D1:3102:A:H4'	1.91	0.51
1:D1:3298:U:H4'	1:D1:3299:G:OP2	2.11	0.51
1:D1:452:U:HO2'	1:D1:453:A:H8	1.59	0.51
1:D1:500:G:O2'	1:D1:501:A:O5'	2.27	0.51
1:D1:589:C:O5'	1:D1:589:C:H6	1.93	0.51
1:D1:629:A:H4'	1:D1:629:A:OP1	2.11	0.51
1:D1:623:G:N2	1:D1:633:C:O2	2.43	0.51
1:D1:157:A:OP2	16:DQ:25:HIS:ND1	2.44	0.51
20:E2:76:U:O2	20:E2:76:U:O4'	2.27	0.51
24:EC:258:TRP:CZ3	24:EC:266:LEU:HD11	2.45	0.51
26:EE:168:LYS:HB2	26:EE:173:PHE:CE2	2.46	0.51
34:EM:109:LEU:HD21	34:EM:142:PHE:CD2	2.45	0.51
34:EM:160:PHE:O	34:EM:163:LEU:HB3	2.10	0.51
35:EN:128:ALA:O	35:EN:132:PRO:HG3	2.11	0.51
39:ER:55:VAL:HG23	42:EU:83:ASP:CB	2.40	0.51
1:F1:1112:A:H2'	1:F1:1113:A:C8	2.45	0.51
1:F1:1438:A:H2'	1:F1:1439:U:C6	2.45	0.51
27:EF:155:LEU:HD13	1:F1:147:U:H1'	1.92	0.51
1:F1:1599:G:C2	1:F1:1600:U:C2	2.98	0.51
1:F1:1662:A:H5'	11:FL:76:ARG:CZ	2.38	0.51
1:F1:1752:G:H4'	1:F1:1753:A:OP2	2.09	0.51
1:F1:1782:C:H2'	1:F1:1783:U:H5''	1.93	0.51
1:F1:1832:G:OP1	11:FL:77:VAL:O	2.28	0.51
1:F1:2539:A:C2	1:F1:2540:G:N7	2.79	0.51
1:F1:2634:G:C2'	1:F1:2635:C:H5''	2.40	0.51
1:F1:2658:U:H2'	1:F1:2659:G:C8	2.46	0.51
1:F1:280:G:C2'	1:F1:281:G:O5'	2.57	0.51
1:F1:2919:C:N3	1:F1:2923:U:H5	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3037:A:C2	1:F1:3079:U:C4	2.98	0.51
1:F1:3128:G:C5'	1:F1:3128:G:C8	2.89	0.51
1:F1:3165:A:O2'	1:F1:3166:A:H5'	2.11	0.51
1:F1:347:A:H4'	1:F1:366:A:N6	2.26	0.51
1:F1:426:A:H4'	8:FH:94:ASN:O	2.10	0.51
1:F1:467:A:N6	1:F1:512:G:C5	2.78	0.51
1:F1:568:A:N1	1:F1:602:A:C2	2.78	0.51
1:F1:738:U:HO2'	1:F1:739:G:H5'	1.75	0.51
35:EN:44:LYS:HD3	1:F1:754:A:OP1	2.11	0.51
2:FA:17:THR:HG23	2:FA:18:LEU:H	1.75	0.51
6:FF:38:ILE:HD12	6:FF:48:ILE:HB	1.93	0.51
8:FH:19:ALA:O	8:FH:37:LEU:HA	2.11	0.51
9:FJ:119:PRO:CG	9:FJ:146:VAL:HG12	2.40	0.51
15:FP:32:TYR:CD1	15:FP:32:TYR:N	2.78	0.51
19:FX:92:VAL:HG12	19:FX:138:ILE:HB	1.92	0.51
22:GA:48:ASP:OD1	22:GA:49:ILE:N	2.43	0.51
25:GD:82:ARG:CB	25:GD:112:LEU:HD22	2.35	0.51
26:GE:23:ARG:HH11	26:GE:39:ARG:HA	1.74	0.51
30:GI:152:ILE:CG2	30:GI:153:GLU:N	2.72	0.51
31:GJ:23:VAL:CG2	31:GJ:41:ILE:O	2.59	0.51
31:GJ:98:TYR:CD1	31:GJ:98:TYR:N	2.78	0.51
32:GK:148:THR:CG2	32:GK:149:ALA:N	2.73	0.51
35:GN:73:ASN:N	35:GN:76:ASN:HB2	2.18	0.51
36:GO:24:LEU:HD22	36:GO:50:VAL:HG22	1.93	0.51
40:GS:30:MET:HE3	40:GS:77:TRP:HA	1.91	0.51
42:GU:21:GLU:HG2	42:GU:58:TYR:OH	2.10	0.51
43:GV:200:TRP:CD2	43:GV:201:PRO:HD2	2.45	0.51
43:GV:235:VAL:O	43:GV:239:LEU:HG	2.11	0.51
45:GX:22:PHE:O	45:GX:23:GLU:HB2	2.10	0.51
46:GY:8:VAL:HG13	46:GY:11:THR:CB	2.41	0.51
1:H1:1010:G:H4'	1:H1:1011:U:OP2	2.11	0.51
1:H1:1112:A:C6	1:H1:1113:A:C6	2.98	0.51
1:H1:1166:G:N2	1:H1:1167:G:H1'	2.25	0.51
1:H1:1185:A:H3'	1:H1:1186:A:H5''	1.89	0.51
1:H1:126:A:C6	1:H1:139:A:C6	2.98	0.51
1:H1:969:C:OP1	1:H1:1458:C:H4'	2.11	0.51
1:H1:2208:A:H2'	1:H1:2209:A:C8	2.46	0.51
1:H1:114:A:C6	1:H1:264:A:C6	2.98	0.51
1:H1:2800:C:O2'	1:H1:2801:A:H5'	2.10	0.51
1:H1:280:G:C2'	1:H1:281:G:O5'	2.59	0.51
1:H1:298:G:C2'	1:H1:299:G:H5'	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3100:U:O2'	1:H1:3101:G:H5'	2.11	0.51
1:H1:3175:A:N6	6:HF:16:ASN:ND2	2.55	0.51
1:H1:64:A:H5'	1:H1:315:U:OP1	2.11	0.51
1:H1:665:C:H42	1:H1:669:A:H8	1.59	0.51
4:HC:63:THR:HG22	4:HC:87:LYS:HG2	1.93	0.51
5:HE:88:LYS:HG3	5:HE:89:ARG:O	2.09	0.51
7:HG:43:PHE:CE1	7:HG:68:HIS:HD2	2.27	0.51
8:HH:58:TYR:HD2	8:HH:73:ILE:HD12	1.75	0.51
1:H1:2761:U:O2	18:HU:190:TRP:CZ2	2.64	0.51
1:A1:1091:G:HO2'	1:A1:1092:C:P	2.33	0.51
1:A1:1148:U:H2'	1:A1:1149:U:H6	1.75	0.51
1:A1:1166:G:H2'	1:A1:1167:G:O4'	2.11	0.51
1:A1:1658:G:N7	13:AN:17:ARG:NH1	2.59	0.51
1:A1:1820:U:H4'	1:A1:1821:U:OP2	2.09	0.51
1:A1:2155:C:H3'	1:A1:2156:G:H5'	1.92	0.51
1:A1:2239:A:P	50:A1:4202:HOH:O	2.68	0.51
1:A1:2545:A:HO2'	1:A1:2546:A:P	2.33	0.51
1:A1:2814:U:H2'	1:A1:2815:U:H5'	1.93	0.51
1:A1:2913:C:C2'	1:A1:2914:A:H5'	2.41	0.51
1:A1:2956:G:O2'	1:A1:2957:A:H5'	2.10	0.51
1:A1:3229:C:O2'	1:A1:3230:G:P	2.68	0.51
1:A1:347:A:H1'	1:A1:351:A:N3	2.25	0.51
1:A1:439:A:C8	1:A1:439:A:P	2.97	0.51
1:A1:451:A:OP1	14:AO:55:LYS:HD3	2.10	0.51
1:A1:510:A:C5'	14:AO:68:HIS:O	2.58	0.51
1:A1:685:G:C2'	1:A1:686:U:OP2	2.58	0.51
1:A1:713:G:H2'	1:A1:715:A:N7	2.26	0.51
1:A1:851:G:HO2'	1:A1:1614:A:H8	1.53	0.51
5:AE:104:LEU:O	5:AE:107:VAL:HG22	2.10	0.51
6:AF:44:VAL:HG12	6:AF:45:ARG:H	1.76	0.51
7:AG:41:LEU:HD12	7:AG:66:SER:O	2.10	0.51
9:AJ:63:THR:HA	9:AJ:104:LEU:HB2	1.93	0.51
13:AN:70:PRO:HD2	13:AN:115:LYS:HG2	1.93	0.51
14:AO:98:PHE:HD2	14:AO:103:LEU:HB3	1.75	0.51
17:AT:32:THR:HG22	17:AT:32:THR:O	2.10	0.51
23:BB:33:PRO:HA	23:BB:340:ILE:HA	1.91	0.51
26:BE:91:LYS:HG2	26:BE:180:SER:CB	2.37	0.51
29:BH:84:ALA:O	29:BH:140:VAL:HG13	2.11	0.51
16:AQ:49:THR:HG21	33:BL:13:LYS:HD3	1.92	0.51
34:BM:254:ILE:O	34:BM:258:PRO:CD	2.58	0.51
34:BM:66:TYR:CE1	34:BM:73:ARG:HB2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:158:GLN:O	36:BO:162:ARG:HG3	2.11	0.51
36:BO:38:ARG:O	36:BO:41:ILE:HB	2.11	0.51
1:A1:1626:U:P	36:BO:42:ARG:HH22	2.33	0.51
40:BS:114:ARG:O	40:BS:118:LEU:HG	2.09	0.51
20:C2:110:A:H4'	1:D1:1610:C:H5'	1.93	0.51
20:C2:76:U:O2	20:C2:76:U:O4'	2.28	0.51
24:CC:276:THR:HG23	24:CC:277:GLY:H	1.76	0.51
24:CC:319:ARG:NH2	1:D1:634:G:O6	2.43	0.51
26:CE:88:PHE:CD2	26:CE:152:VAL:HG12	2.44	0.51
29:CH:98:ARG:NH2	29:CH:119:PHE:CZ	2.78	0.51
32:CK:78:ASP:OD2	32:CK:115:LYS:HD3	2.10	0.51
32:CK:88:THR:CG2	18:DU:164:LYS:HZ1	2.24	0.51
33:CL:19:MET:CE	33:CL:22:ILE:HD12	2.40	0.51
34:CM:153:THR:HG21	1:D1:2735:A:C8	2.46	0.51
34:CM:179:ARG:NE	34:CM:185:ARG:HH22	2.02	0.51
34:CM:107:ARG:CZ	34:CM:255:ARG:HH11	2.24	0.51
47:CO:170:UNK:HA	47:CO:174:UNK:HG1	1.93	0.51
42:CU:97:THR:O	42:CU:101:ARG:HG3	2.11	0.51
43:CV:132:THR:HG21	43:CV:227:ARG:CD	2.41	0.51
43:CV:57:LYS:HE3	43:CV:61:ASP:OD2	2.11	0.51
46:CY:32:THR:CG2	46:CY:69:TRP:O	2.50	0.51
1:D1:1185:A:O2'	1:D1:1357:A:H2	1.92	0.51
1:D1:1540:U:C5	1:D1:1865:A:N3	2.79	0.51
1:D1:1753:A:H3'	1:D1:1754:G:C5'	2.37	0.51
38:CQ:141:TYR:CE2	1:D1:2350:G:H5'	2.46	0.51
1:D1:2358:A:O2'	1:D1:2359:G:H5'	2.11	0.51
1:D1:2409:G:H2'	1:D1:2410:C:O5'	2.11	0.51
1:D1:2508:U:O2'	1:D1:2509:U:H2'	2.11	0.51
1:D1:2632:A:H2'	1:D1:2634:G:OP2	2.11	0.51
1:D1:2872:C:O2'	1:D1:2873:C:H5'	2.11	0.51
1:D1:2879:U:O2'	1:D1:3003:U:H5'	2.11	0.51
1:D1:2886:G:H4'	1:D1:2887:C:OP2	2.10	0.51
1:D1:2944:A:P	50:D1:4282:HOH:O	2.69	0.51
1:D1:3094:U:H2'	1:D1:3095:A:C8	2.45	0.51
1:D1:3127:U:C3'	1:D1:3128:G:H5''	2.40	0.51
1:D1:3161:A:C2	1:D1:3176:A:C6	2.98	0.51
1:D1:105:A:O2'	1:D1:323:A:N3	2.43	0.51
1:D1:3308:A:H2'	1:D1:3309:U:C1'	2.41	0.51
1:D1:488:U:C2	1:D1:490:A:OP2	2.64	0.51
1:D1:792:G:H5'	18:DU:190:TRP:CE2	2.46	0.51
5:DE:77:THR:HG21	5:DE:157:ASP:OD1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DF:17:TYR:CD1	6:DF:17:TYR:O	2.64	0.51
6:DF:92:LYS:O	6:DF:96:ILE:HG13	2.10	0.51
18:DU:44:VAL:CG1	18:DU:47:ARG:HG3	2.40	0.51
26:CE:4:LEU:HD11	19:DX:163:PHE:CD1	2.46	0.51
20:E2:30:U:OP1	24:EC:56:LYS:HA	2.11	0.51
23:EB:57:LEU:HB3	23:EB:356:PHE:HB3	1.93	0.51
24:EC:222:THR:HG23	24:EC:225:ARG:HD2	1.92	0.51
24:EC:375:ALA:O	24:EC:378:ALA:HB3	2.10	0.51
27:EF:76:THR:HG21	27:EF:174:LYS:HE3	1.91	0.51
33:EL:135:ALA:O	33:EL:137:PRO:HD3	2.10	0.51
35:EN:66:SER:HB3	35:EN:93:LEU:HG	1.93	0.51
35:EN:75:THR:O	35:EN:79:GLN:HG3	2.11	0.51
36:EO:84:THR:OG1	36:EO:87:ALA:HB2	2.11	0.51
43:EV:206:THR:CG2	1:F1:1195:U:H1'	2.40	0.51
1:F1:1050:C:C5	1:F1:1051:C:N3	2.78	0.51
1:F1:1592:G:C2	1:F1:1602:U:C2	2.98	0.51
1:F1:1972:G:C2	1:F1:1973:A:N7	2.79	0.51
1:F1:20:G:C6	1:F1:21:A:N7	2.78	0.51
1:F1:3035:A:H4'	1:F1:3036:U:OP2	2.10	0.51
1:F1:3176:A:C4'	1:F1:3177:G:O5'	2.57	0.51
1:F1:3229:C:O2'	1:F1:3230:G:P	2.69	0.51
1:F1:508:A:O2'	1:F1:509:A:H8	1.91	0.51
1:F1:578:G:C2'	1:F1:579:G:H5''	2.41	0.51
1:F1:730:A:H4'	1:F1:731:A:OP1	2.11	0.51
22:EA:16:VAL:HG23	1:F1:936:C:P	2.50	0.51
5:FE:69:LEU:HD21	5:FE:114:ASP:CG	2.30	0.51
31:EJ:131:PRO:HB2	9:FJ:15:VAL:HG21	1.92	0.51
11:FL:31:VAL:HG12	11:FL:32:ALA:O	2.11	0.51
13:FN:10:VAL:HG13	13:FN:83:THR:HB	1.92	0.51
18:FU:100:LYS:HE2	18:FU:102:ARG:HH21	1.75	0.51
23:GB:95:THR:OG1	23:GB:96:PRO:HD2	2.10	0.51
24:GC:29:PHE:CE2	24:GC:156:PRO:HG3	2.46	0.51
24:GC:222:THR:HG23	24:GC:225:ARG:HD2	1.93	0.51
24:GC:295:ILE:O	24:GC:299:ILE:HG13	2.09	0.51
25:GD:25:GLU:O	25:GD:30:LEU:HD11	2.11	0.51
27:GF:69:GLN:HG2	27:GF:222:ARG:HH12	1.75	0.51
34:GM:86:PHE:CE1	34:GM:253:GLU:HB3	2.46	0.51
38:GQ:71:ARG:HG2	38:GQ:81:THR:CG2	2.41	0.51
39:GR:74:PRO:HD2	42:GU:37:ILE:HD13	1.91	0.51
43:GV:38:LYS:O	43:GV:42:ILE:HG13	2.10	0.51
45:GX:57:ILE:HG13	1:H1:972:U:C5'	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:GP:19:TYR:HD2	1:H1:1077:U:H5''	1.76	0.51
1:H1:1149:U:O2'	1:H1:1150:U:H5'	2.10	0.51
32:GK:3:SER:OG	1:H1:1454:A:C8	2.62	0.51
1:H1:1495:C:C4'	1:H1:1496:U:OP2	2.59	0.51
1:H1:1921:G:O2'	1:H1:1922:G:H5'	2.11	0.51
1:H1:1946:A:H2'	1:H1:1947:C:O4'	2.11	0.51
1:H1:2155:C:H3'	1:H1:2156:G:H5'	1.92	0.51
1:H1:2719:A:C4	1:H1:2720:G:C8	2.98	0.51
1:H1:2913:C:C2'	1:H1:2914:A:H5'	2.41	0.51
1:H1:376:A:C5'	1:H1:377:A:OP1	2.59	0.51
1:H1:559:G:H2'	1:H1:560:A:H8	1.76	0.51
1:H1:725:C:O2'	1:H1:726:G:H5'	2.11	0.51
1:H1:742:U:H4'	1:H1:743:A:OP1	2.09	0.51
1:H1:986:C:P	50:H1:4328:HOH:O	2.68	0.51
20:G2:37:A:H2	2:HA:72:ALA:HA	1.75	0.51
6:HF:125:SER:O	6:HF:126:LYS:CB	2.59	0.51
9:HJ:63:THR:HA	9:HJ:104:LEU:HB2	1.92	0.51
24:GC:152:VAL:O	14:HO:76:ILE:CG1	2.58	0.51
16:HQ:9:ILE:CD1	18:HU:187:ASN:HB3	2.22	0.51
1:A1:1110:U:H5'	1:A1:1111:G:OP2	2.11	0.51
1:A1:1202:C:H1'	30:BI:86:MET:CE	2.40	0.51
1:A1:1413:G:C2	1:A1:1414:C:C6	2.99	0.51
1:A1:1637:A:H2'	1:A1:1638:A:H5''	1.93	0.51
1:A1:1946:A:H2'	1:A1:1947:C:O4'	2.11	0.51
1:A1:200:C:P	40:BS:59:ARG:NH1	2.84	0.51
1:A1:2550:U:C5'	1:A1:2551:A:O5'	2.58	0.51
1:A1:2645:A:H2'	1:A1:2645:A:N3	2.25	0.51
1:A1:2726:C:O2'	17:AT:36:ASN:CB	2.59	0.51
1:A1:295:A:OP1	16:AQ:90:LYS:NZ	2.43	0.51
1:A1:3100:U:O2'	1:A1:3101:G:H5'	2.11	0.51
1:A1:3110:U:C4	1:A1:3113:G:O6	2.64	0.51
1:A1:3182:A:C4'	1:A1:3183:A:OP1	2.45	0.51
1:A1:512:G:N1	1:A1:513:G:C5	2.79	0.51
1:A1:568:A:N1	1:A1:602:A:C2	2.79	0.51
1:A1:643:A:H4'	1:A1:644:A:O5'	2.11	0.51
1:A1:909:A:OP1	2:AA:5:THR:OG1	2.21	0.51
1:A1:2135:A:N7	2:AA:2:THR:HG23	2.26	0.51
3:AB:44:TRP:CZ3	3:AB:45:ARG:HD2	2.45	0.51
6:AF:67:GLN:HE21	6:AF:71:LEU:HB3	1.75	0.51
9:AJ:102:SER:HB3	31:BJ:140:VAL:H	1.75	0.51
12:AM:55:ASN:ND2	12:AM:71:ILE:HD11	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1711:U:C1'	12:AM:77:TYR:CE2	2.94	0.51
19:AX:92:VAL:HG12	19:AX:138:ILE:HB	1.93	0.51
19:AX:7:GLN:HE22	19:AX:80:GLU:H	1.58	0.51
20:B2:112:G:C4'	20:B2:113:U:OP1	2.47	0.51
23:BB:17:ARG:HB3	23:BB:18:PRO:HA	1.92	0.51
1:A1:2388:G:H4'	23:BB:250:ILE:HG12	1.92	0.51
26:BE:87:LYS:O	26:BE:184:LEU:HB2	2.11	0.51
38:BQ:107:LYS:CB	38:BQ:109:LEU:HG	2.41	0.51
43:BV:216:HIS:O	43:BV:222:GLY:HA3	2.11	0.51
1:A1:972:U:C5'	45:BX:57:ILE:HG13	2.30	0.51
46:BY:88:LYS:HG3	46:BY:92:GLU:OE2	2.10	0.51
20:C2:129:A:C5	20:C2:130:C:C5	2.99	0.51
22:CA:205:MET:HB3	22:CA:209:ASP:HB2	1.92	0.51
22:CA:20:HIS:CE1	1:D1:847:G:O2'	2.61	0.51
23:CB:114:THR:N	23:CB:174:ASN:HD22	2.08	0.51
24:CC:152:VAL:CG1	24:CC:157:TYR:HE2	2.04	0.51
24:CC:295:ILE:O	24:CC:299:ILE:HG13	2.09	0.51
26:CE:167:GLU:O	50:CE:201:HOH:O	2.19	0.51
26:CE:91:LYS:HG2	26:CE:180:SER:CB	2.38	0.51
30:CI:118:VAL:HG21	19:DX:185:ARG:HG2	1.93	0.51
31:CJ:32:ASN:HD21	31:CJ:117:GLN:N	2.08	0.51
34:CM:122:GLN:HB2	34:CM:130:PHE:CD2	2.45	0.51
38:CQ:118:HIS:O	38:CQ:150:ILE:HA	2.10	0.51
45:CX:121:LEU:CB	45:CX:124:ALA:HB2	2.40	0.51
46:CY:10:ILE:CD1	46:CY:30:GLU:HB2	2.35	0.51
1:D1:1738:A:N7	1:D1:1752:G:C2	2.79	0.51
1:D1:1821:U:H1'	1:D1:1822:G:C2	2.46	0.51
1:D1:1907:A:C2'	1:D1:1908:A:O5'	2.59	0.51
1:D1:209:A:H4'	1:D1:211:A:N7	2.26	0.51
1:D1:2275:A:H2'	1:D1:2277:U:C5'	2.41	0.51
1:D1:2598:A:O2'	1:D1:2599:G:H5'	2.10	0.51
1:D1:39:G:C4	1:D1:2789:A:C2	2.99	0.51
24:CC:87:SER:HB2	1:D1:356:U:O2'	2.11	0.51
1:D1:476:A:C2	1:D1:500:G:C2	2.99	0.51
1:D1:442:G:N2	1:D1:536:A:N3	2.58	0.51
1:D1:578:G:C2'	1:D1:579:G:H5''	2.41	0.51
1:D1:785:A:H61	1:D1:795:G:H1'	1.76	0.51
2:DA:36:ALA:O	2:DA:45:ARG:HD3	2.11	0.51
1:D1:439:A:H5''	5:DE:126:HIS:CB	2.40	0.51
5:DE:173:TYR:CE2	6:DF:106:PHE:HA	2.46	0.51
8:DH:31:ASN:OD1	8:DH:33:ASN:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DJ:200:ASN:C	9:DJ:200:ASN:OD1	2.48	0.51
13:DN:16:GLY:H	13:DN:19:ALA:HB2	1.76	0.51
1:D1:1660:U:H5''	13:DN:73:LYS:NZ	2.25	0.51
43:CV:219:HIS:O	19:DX:46:ARG:NH2	2.43	0.51
20:E2:105:A:C5'	20:E2:106:A:H5''	2.27	0.51
23:EB:163:ASN:HA	23:EB:174:ASN:OD1	2.10	0.51
24:EC:317:HIS:HE1	1:F1:1388:U:O2'	1.94	0.51
26:EE:12:ILE:HD11	26:EE:53:VAL:CG2	2.40	0.51
29:EH:140:VAL:HG11	29:EH:144:HIS:CB	2.39	0.51
30:EI:107:ILE:HG13	30:EI:159:ARG:HH12	1.74	0.51
32:EK:76:ASN:H	32:EK:79:LYS:HE2	1.75	0.51
38:EQ:26:VAL:HG21	38:EQ:92:VAL:HG21	1.92	0.51
38:EQ:33:GLU:OE1	38:EQ:63:THR:N	2.40	0.51
43:EV:132:THR:CG2	43:EV:227:ARG:HG3	2.40	0.51
1:F1:1123:A:H1'	1:F1:1124:G:OP1	2.11	0.51
1:F1:1738:A:N7	1:F1:1752:G:C2	2.78	0.51
1:F1:1902:C:O2	1:F1:1902:C:H2'	2.11	0.51
1:F1:1919:A:O2'	1:F1:1920:A:H8	1.93	0.51
1:F1:2395:G:N7	1:F1:2396:A:N6	2.58	0.51
25:ED:65:MET:HE3	1:F1:2670:U:O4'	2.11	0.51
1:F1:2931:G:OP1	50:F1:4029:HOH:O	2.19	0.51
1:F1:2992:G:C2	1:F1:2993:C:C6	2.99	0.51
1:F1:3181:G:H2'	1:F1:3182:A:H8	1.74	0.51
1:F1:3192:C:O2	6:FF:120:ARG:HD3	2.10	0.51
1:F1:3308:A:H2'	1:F1:3309:U:C1'	2.41	0.51
1:F1:368:A:C4'	1:F1:369:U:OP1	2.58	0.51
1:F1:48:U:O2	1:F1:48:U:H2'	2.09	0.51
1:F1:512:G:C2	1:F1:513:G:C5	2.98	0.51
1:F1:442:G:N2	1:F1:536:A:N3	2.58	0.51
1:F1:619:G:H8	1:F1:619:G:O5'	1.93	0.51
5:FE:69:LEU:HD21	5:FE:114:ASP:CA	2.40	0.51
7:FG:14:LEU:O	7:FG:18:MET:HG2	2.11	0.51
8:FH:15:TRP:CH2	8:FH:105:ARG:NH2	2.79	0.51
8:FH:58:TYR:HD2	8:FH:73:ILE:HD12	1.76	0.51
9:FJ:117:ILE:HD11	9:FJ:139:ARG:HE	1.75	0.51
13:FN:70:PRO:HD2	13:FN:115:LYS:HG2	1.92	0.51
32:EK:100:PRO:HB3	18:FU:164:LYS:HZ1	1.75	0.51
24:EC:380:PHE:HE1	19:FX:22:VAL:HG22	1.75	0.51
19:FX:88:THR:O	19:FX:143:LEU:HB2	2.10	0.51
23:GB:121:ASN:HB3	1:H1:3275:A:C6	2.46	0.51
26:GE:103:VAL:HG22	26:GE:110:ILE:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:GI:21:TYR:HE2	30:GI:121:ASP:HB3	1.75	0.51
30:GI:10:ALA:C	30:GI:13:HIS:HD2	2.13	0.51
32:GK:24:LYS:CD	1:H1:967:U:O4	2.59	0.51
35:GN:13:LYS:HE2	35:GN:15:SER:HB3	1.93	0.51
1:H1:1050:C:H2'	1:H1:1051:C:N1	2.26	0.51
1:H1:141:C:C2'	1:H1:142:A:H5'	2.41	0.51
1:H1:2863:U:O2	1:H1:2863:U:H2'	2.09	0.51
1:H1:2962:U:H5'	1:H1:2962:U:C6	2.41	0.51
1:H1:3056:C:C2	1:H1:3057:U:C5	2.99	0.51
20:G2:27:G:H1'	1:H1:348:A:C4	2.46	0.51
43:GV:64:ARG:HD3	1:H1:565:G:C6	2.46	0.51
1:H1:927:G:C4	1:H1:928:U:C6	2.99	0.51
1:H1:963:C:OP1	1:H1:987:A:O2'	2.27	0.51
4:HC:19:THR:HG22	4:HC:20:ASN:O	2.11	0.51
9:HJ:25:LEU:HD23	9:HJ:49:ILE:HB	1.91	0.51
19:HX:88:THR:HG22	19:HX:143:LEU:HD12	1.93	0.51
19:HX:8:GLU:OE2	19:HX:19:ARG:NH1	2.41	0.51
1:A1:1005:A:O2'	1:A1:1006:C:H5'	2.11	0.51
1:A1:1027:G:H4'	1:A1:1028:A:OP2	2.10	0.51
1:A1:1064:C:C2	1:A1:1065:U:C6	2.99	0.51
1:A1:1192:A:OP1	8:AH:90:ARG:NH2	2.43	0.51
1:A1:1226:C:H4'	1:A1:1227:A:O5'	2.08	0.51
1:A1:1942:C:H6	1:A1:1942:C:H5''	1.76	0.51
1:A1:2187:C:H2'	1:A1:2188:U:H5'	1.91	0.51
1:A1:2521:A:C6	1:A1:2522:A:C6	2.99	0.51
1:A1:3057:U:OP2	36:BO:62:ARG:NH2	2.43	0.51
1:A1:3158:G:H3'	1:A1:3159:A:C5'	2.38	0.51
1:A1:3175:A:N6	6:AF:16:ASN:ND2	2.53	0.51
1:A1:3293:A:C2	1:A1:3294:A:C4	2.98	0.51
1:A1:476:A:C2	1:A1:500:G:C2	2.98	0.51
1:A1:606:U:H2'	1:A1:607:U:H6	1.76	0.51
1:A1:721:C:OP1	24:BC:281:SER:OG	2.19	0.51
1:A1:76:U:H2'	1:A1:77:A:H5'	1.92	0.51
1:A1:859:U:C4	1:A1:860:G:C6	2.98	0.51
1:A1:936:C:P	22:BA:16:VAL:HG23	2.51	0.51
1:A1:2543:C:H42	7:AG:54:SER:HB3	1.75	0.51
11:AL:73:THR:HG22	11:AL:74:VAL:N	2.24	0.51
1:A1:1381:G:H5'	14:AO:37:GLN:CG	2.40	0.51
22:BA:31:ARG:NH1	22:BA:42:ILE:CG1	2.73	0.51
23:BB:183:GLY:O	23:BB:189:LYS:CE	2.58	0.51
24:BC:175:PHE:CE1	24:BC:179:VAL:HG21	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BC:276:THR:HG22	24:BC:277:GLY:O	2.10	0.51
24:BC:50:LYS:HB2	24:BC:116:VAL:HG11	1.93	0.51
29:BH:184:LEU:CD2	29:BH:189:LYS:HD3	2.30	0.51
34:BM:107:ARG:CZ	34:BM:255:ARG:HH11	2.23	0.51
35:BN:82:VAL:HG22	35:BN:127:LEU:HD11	1.91	0.51
38:BQ:133:ARG:HD3	50:BQ:307:HOH:O	2.10	0.51
43:BV:173:PHE:HD1	43:BV:191:HIS:CE1	2.29	0.51
45:BX:42:ASN:HD21	45:BX:44:VAL:HB	1.76	0.51
23:CB:57:LEU:HB3	23:CB:356:PHE:HB3	1.93	0.51
25:CD:9:MET:O	25:CD:134:PRO:CG	2.59	0.51
27:CF:133:THR:O	27:CF:137:GLU:HG3	2.10	0.51
30:CI:35:VAL:CG1	30:CI:107:ILE:HG12	2.41	0.51
30:CI:129:ARG:NH2	1:D1:1343:G:N2	2.59	0.51
30:CI:92:PRO:O	30:CI:95:ALA:HB3	2.11	0.51
46:CY:58:LYS:N	46:CY:59:PRO:HD2	2.26	0.51
1:D1:1051:C:C2'	1:D1:1052:A:H8	2.23	0.51
1:D1:1149:U:O2'	1:D1:1150:U:H5'	2.10	0.51
1:D1:1621:G:H2'	1:D1:1622:A:C8	2.45	0.51
1:D1:2155:C:H3'	1:D1:2156:G:H5'	1.92	0.51
1:D1:2186:U:H2'	1:D1:2187:C:C6	2.45	0.51
1:D1:1475:A:C2	1:D1:2351:A:C4	2.99	0.51
1:D1:2539:A:C2	1:D1:2540:G:N7	2.79	0.51
1:D1:984:C:N4	1:D1:2789:A:C8	2.79	0.51
1:D1:2847:U:H4'	1:D1:2848:U:OP1	2.08	0.51
23:CB:5:LYS:NZ	1:D1:2866:G:H5''	2.25	0.51
1:D1:3248:C:H2'	1:D1:3249:U:C6	2.46	0.51
1:D1:690:U:H2'	1:D1:691:C:C6	2.46	0.51
1:D1:742:U:O4	17:DT:61:LYS:HB3	2.11	0.51
1:D1:813:C:H2'	1:D1:814:U:C6	2.46	0.51
1:D1:615:G:N2	8:DH:79:LYS:CE	2.72	0.51
14:DO:115:HIS:O	14:DO:118:ASN:N	2.43	0.51
20:E2:88:G:HO2'	20:E2:89:A:P	2.33	0.51
23:EB:54:THR:HG21	23:EB:358:ASP:O	2.11	0.51
24:EC:377:ILE:HD11	1:F1:564:A:C2	2.46	0.51
30:EI:79:PHE:O	30:EI:82:ALA:HB3	2.11	0.51
31:EJ:140:VAL:H	9:FJ:102:SER:HB3	1.75	0.51
32:EK:100:PRO:HB3	18:FU:164:LYS:HZ3	1.75	0.51
35:EN:88:THR:HB	1:F1:701:A:OP2	2.11	0.51
35:EN:69:VAL:HG21	35:EN:93:LEU:HD11	1.93	0.51
37:EP:118:GLU:O	37:EP:121:LYS:HB2	2.10	0.51
39:ER:114:LYS:HD2	39:ER:137:ASP:OD2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ET:52:THR:HA	41:ET:57:ARG:HG2	1.92	0.51
1:F1:1039:G:H2'	1:F1:1041:C:H41	1.74	0.51
1:F1:1946:A:H2'	1:F1:1947:C:O4'	2.10	0.51
1:F1:2606:U:H4'	1:F1:2633:C:C5	2.44	0.51
1:F1:2732:G:H2'	1:F1:2733:C:H6	1.73	0.51
1:F1:3127:U:C3'	1:F1:3128:G:H5''	2.41	0.51
1:F1:3175:A:H4'	1:F1:3176:A:OP2	2.11	0.51
1:F1:197:G:N2	1:F1:371:A:C8	2.78	0.51
1:F1:49:A:H2'	1:F1:50:A:H8	1.74	0.51
24:EC:377:ILE:HG12	1:F1:564:A:C2	2.46	0.51
1:F1:871:A:C6	1:F1:872:A:C6	2.98	0.51
22:EA:16:VAL:CG2	1:F1:936:C:C5'	2.86	0.51
1:F1:980:U:H2'	1:F1:981:U:C6	2.45	0.51
8:FH:97:PRO:O	8:FH:100:ILE:HG13	2.11	0.51
9:FJ:99:GLU:HG3	9:FJ:101:LEU:N	2.26	0.51
9:FJ:49:ILE:HD13	9:FJ:87:SER:HB2	1.93	0.51
18:FU:44:VAL:HG12	18:FU:47:ARG:HG3	1.93	0.51
19:FX:151:PRO:O	19:FX:155:ALA:HB2	2.11	0.51
43:EV:219:HIS:HD2	19:FX:53:THR:OG1	1.94	0.51
20:G2:61:G:C2'	20:G2:100:C:O2'	2.59	0.51
22:GA:186:GLN:NE2	22:GA:190:TYR:HE2	2.09	0.51
22:GA:210:HIS:HD2	22:GA:212:HIS:N	1.82	0.51
23:GB:92:TYR:HH	1:H1:2992:G:HO2'	1.59	0.51
27:GF:143:LEU:HD23	27:GF:169:PRO:HG2	1.93	0.51
32:GK:122:PRO:HB3	32:GK:142:GLY:O	2.10	0.51
33:GL:121:VAL:HG11	33:GL:131:GLU:CD	2.30	0.51
42:GU:98:LYS:NZ	1:H1:242:G:H5'	2.25	0.51
43:GV:141:ILE:HG21	43:GV:185:ILE:HG21	1.93	0.51
44:GW:85:GLN:HA	44:GW:85:GLN:OE1	2.09	0.51
44:GW:8:SER:HA	44:GW:74:LEU:O	2.11	0.51
45:GX:43:ARG:NH1	1:H1:660:C:H3'	2.26	0.51
1:H1:1053:A:H1'	1:H1:1054:G:OP2	2.11	0.51
1:H1:137:A:H2'	1:H1:138:C:C6	2.46	0.51
1:H1:1600:U:C4	1:H1:1601:U:C5	2.98	0.51
1:H1:1663:C:O2'	1:H1:1664:G:H5'	2.11	0.51
1:H1:1685:A:H2'	1:H1:1686:G:C8	2.45	0.51
1:H1:1693:U:H2'	1:H1:1694:C:H6	1.75	0.51
1:H1:1728:A:H2'	1:H1:1729:U:OP2	2.11	0.51
1:H1:2551:A:C3'	1:H1:2552:A:H5''	2.41	0.51
1:H1:2703:G:HO2'	1:H1:2740:G:H2'	1.69	0.51
1:H1:3030:A:H2'	1:H1:3031:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3070:C:OP1	50:H1:3934:HOH:O	2.18	0.51
20:G2:3:A:N6	1:H1:3242:U:O2'	2.43	0.51
1:H1:439:A:C5'	5:HE:126:HIS:HB3	2.41	0.51
1:H1:589:C:H2'	1:H1:590:A:H8	1.75	0.51
1:H1:619:G:HO2'	1:H1:620:A:H2	1.51	0.51
1:H1:623:G:N2	1:H1:633:C:O2	2.43	0.51
1:H1:655:A:H2'	1:H1:656:C:H6	1.71	0.51
1:H1:679:C:H2'	1:H1:680:A:C8	2.45	0.51
24:GC:281:SER:OG	1:H1:721:C:OP1	2.07	0.51
1:H1:803:C:O2'	1:H1:804:G:H5'	2.10	0.51
12:HM:55:ASN:O	12:HM:69:SER:HA	2.11	0.51
19:HX:43:VAL:HG11	19:HX:54:LYS:HB2	1.91	0.51
1:A1:1074:A:OP1	1:A1:1075:C:H5'	2.11	0.51
1:A1:1185:A:H3'	1:A1:1186:A:H5''	1.90	0.51
1:A1:1376:A:C5'	1:A1:1377:A:O4'	2.58	0.51
1:A1:167:U:H2'	1:A1:168:G:C8	2.46	0.51
1:A1:1737:A:C4'	1:A1:1738:A:OP1	2.56	0.51
1:A1:1745:U:C2	1:A1:1748:U:C5	2.99	0.51
1:A1:2134:A:H3'	1:A1:2135:A:H2'	1.92	0.51
1:A1:2178:A:H2'	1:A1:2179:U:O5'	2.10	0.51
1:A1:2645:A:C8	1:A1:2647:G:C8	2.99	0.51
1:A1:2906:G:H5''	1:A1:2906:G:C8	2.45	0.51
1:A1:3036:U:C5'	23:BB:220:LYS:HD2	2.41	0.51
1:A1:3187:U:C2'	1:A1:3188:A:H5'	2.40	0.51
1:A1:396:A:C2	1:A1:397:A:C5	2.98	0.51
1:A1:442:G:N2	1:A1:536:A:N3	2.59	0.51
6:AF:6:PHE:HB3	19:AX:162:LYS:HB3	1.91	0.51
8:AH:70:TYR:O	8:AH:71:ARG:HG3	2.11	0.51
8:AH:91:PHE:CD1	8:AH:91:PHE:N	2.78	0.51
23:BB:102:LEU:O	23:BB:103:THR:OG1	2.26	0.51
26:BE:45:ILE:HG12	26:BE:55:LEU:CD2	2.40	0.51
29:BH:46:PHE:HZ	29:BH:83:ASP:O	1.92	0.51
23:BB:66:ARG:CZ	31:BJ:15:ALA:HB2	2.41	0.51
34:BM:125:VAL:HG21	34:BM:205:PHE:CZ	2.44	0.51
21:B3:120:U:H4'	34:BM:265:LYS:HZ1	1.76	0.51
40:BS:24:HIS:CD2	40:BS:25:LEU:N	2.79	0.51
40:BS:38:LEU:HD11	40:BS:106:THR:O	2.11	0.51
23:CB:223:GLY:HA2	1:D1:3266:G:OP1	2.10	0.51
26:CE:101:GLU:OE1	26:CE:134:ARG:HD2	2.10	0.51
33:CL:26:ARG:CB	33:CL:30:TYR:HE1	2.19	0.51
44:CW:8:SER:HA	44:CW:74:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CP:13:LYS:CD	1:D1:1020:G:H3'	2.41	0.51
1:D1:1048:U:C2'	1:D1:1049:U:C5'	2.87	0.51
1:D1:1054:G:C2'	1:D1:1055:A:H8	2.12	0.51
1:D1:1115:U:H2'	1:D1:1116:C:C6	2.46	0.51
1:D1:137:A:H2'	1:D1:138:C:C6	2.46	0.51
27:CF:127:TYR:HE1	1:D1:146:U:O2	1.94	0.51
1:D1:161:U:C2'	1:D1:162:C:H5''	2.41	0.51
1:D1:1646:G:C2'	1:D1:1647:U:H5'	2.41	0.51
1:D1:1867:C:H3'	50:D1:4515:HOH:O	2.10	0.51
1:D1:3116:A:N6	1:D1:3117:G:C2	2.79	0.51
1:D1:424:G:C2'	1:D1:425:U:H5'	2.40	0.51
1:D1:451:A:OP1	14:DO:55:LYS:HD3	2.10	0.51
1:D1:508:A:O2'	1:D1:509:A:H8	1.91	0.51
5:DE:56:GLY:C	5:DE:58:PHE:N	2.60	0.51
5:DE:91:ASN:OD1	5:DE:92:GLN:N	2.44	0.51
6:DF:11:ARG:HD2	6:DF:59:GLN:OE1	2.10	0.51
6:DF:7:VAL:CG2	6:DF:55:LEU:HD11	2.41	0.51
9:DJ:4:ARG:HH21	9:DJ:215:ILE:HD12	1.76	0.51
35:CN:25:VAL:CG1	14:DO:7:GLU:HB2	2.41	0.51
20:E2:140:U:H5''	20:E2:140:U:H6	1.75	0.51
24:EC:91:ARG:O	24:EC:91:ARG:HG3	2.10	0.51
25:ED:134:PRO:HG2	25:ED:135:GLY:H	1.75	0.51
26:EE:113:LYS:HE3	26:EE:114:HIS:HB2	1.92	0.51
27:EF:134:THR:HG22	27:EF:138:ASN:ND2	2.25	0.51
27:EF:62:GLN:NE2	27:EF:229:ILE:HG21	2.26	0.51
32:EK:122:PRO:CB	32:EK:142:GLY:O	2.58	0.51
44:EW:81:GLU:HA	44:EW:81:GLU:OE1	2.11	0.51
45:EX:4:LYS:HD2	45:EX:92:ARG:HE	1.75	0.51
1:F1:1655:A:N3	1:F1:1655:A:C2'	2.72	0.51
1:F1:2130:G:N2	1:F1:2143:A:H1'	2.26	0.51
1:F1:2571:U:H2'	1:F1:2572:U:C6	2.45	0.51
1:F1:2583:C:H2'	1:F1:2584:A:O4'	2.10	0.51
1:F1:2731:C:H4'	4:FC:18:HIS:CD2	2.46	0.51
1:F1:280:G:H2'	1:F1:281:G:O5'	2.10	0.51
1:F1:2962:U:C6	1:F1:2962:U:H5'	2.45	0.51
1:F1:3227:A:C2	5:FE:80:TYR:CZ	2.99	0.51
1:F1:40:C:C3'	1:F1:40:C:C6	2.93	0.51
1:F1:555:G:H2'	1:F1:556:A:C5'	2.28	0.51
1:F1:633:C:H3'	5:FE:30:ARG:HH22	1.75	0.51
1:F1:828:C:O2'	1:F1:829:C:H5'	2.11	0.51
5:FE:93:ALA:HA	8:FH:111:ASN:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3235:U:N3	8:FH:12:THR:O	2.42	0.51
9:FJ:49:ILE:CD1	9:FJ:88:LEU:HD13	2.40	0.51
14:FO:98:PHE:HD2	14:FO:103:LEU:HB3	1.76	0.51
1:F1:114:A:O4'	16:FQ:37:ARG:NH1	2.44	0.51
16:FQ:83:THR:HG22	16:FQ:86:ARG:H	1.76	0.51
20:G2:111:A:O2'	20:G2:112:G:OP1	2.21	0.51
20:G2:10:U:H2'	20:G2:11:C:C6	2.45	0.51
23:GB:301:LYS:HD3	23:GB:359:THR:HG23	1.92	0.51
24:GC:107:PHE:HB2	1:H1:684:A:H5'	1.92	0.51
24:GC:28:VAL:HG11	24:GC:133:LEU:HD12	1.92	0.51
26:GE:88:PHE:CD2	26:GE:152:VAL:HG12	2.45	0.51
26:GE:7:GLU:HA	26:GE:55:LEU:O	2.10	0.51
28:GG:80:UNK:C	1:H1:1309:G:C4'	2.77	0.51
32:GK:45:ILE:HG12	1:H1:2716:A:C2	2.45	0.51
33:GL:142:ILE:HG23	33:GL:148:ILE:HG22	1.93	0.51
35:GN:138:PHE:CE2	35:GN:140:LEU:HD13	2.45	0.51
35:GN:64:SER:O	35:GN:68:ILE:HG13	2.11	0.51
35:GN:68:ILE:CG2	35:GN:81:ILE:HD13	2.41	0.51
39:GR:74:PRO:HD2	42:GU:37:ILE:CD1	2.40	0.51
43:GV:166:VAL:CG1	43:GV:175:ILE:HG22	2.40	0.51
43:GV:98:ARG:HH12	43:GV:101:ARG:NH1	2.09	0.51
44:GW:66:ILE:HG22	44:GW:67:PRO:O	2.11	0.51
1:H1:1737:A:C4'	1:H1:1738:A:OP1	2.57	0.51
1:H1:1506:G:N2	1:H1:1896:C:C5	2.78	0.51
22:GA:8:GLN:HA	1:H1:2159:C:H4'	1.93	0.51
34:GM:23:ARG:NH1	1:H1:2692:A:OP2	2.43	0.51
36:BO:169:SER:HB3	1:H1:2886:G:HO2'	1.74	0.51
1:H1:359:G:H2'	1:H1:360:A:C8	2.46	0.51
1:H1:467:A:N6	1:H1:512:G:C5	2.79	0.51
1:H1:442:G:N2	1:H1:536:A:C4	2.79	0.51
7:HG:13:LYS:CB	7:HG:100:ILE:CD1	2.89	0.51
9:HJ:213:THR:O	9:HJ:216:SER:HB2	2.11	0.51
11:HL:59:VAL:HG13	11:HL:63:GLU:OE1	2.11	0.51
12:HM:101:ASP:HB2	12:HM:104:SER:OG	2.11	0.51
12:HM:32:ILE:CG2	12:HM:60:ASN:HB2	2.41	0.51
12:HM:77:TYR:HD1	12:HM:77:TYR:O	1.94	0.51
18:HU:44:VAL:HG12	18:HU:47:ARG:HG3	1.92	0.51
19:HX:34:THR:HG22	19:HX:35:LYS:N	2.26	0.51
19:HX:88:THR:O	19:HX:143:LEU:HB2	2.11	0.51
1:A1:1660:U:C1'	13:AN:38:PHE:CZ	2.94	0.51
1:A1:1738:A:N7	1:A1:1752:G:C2	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2640:G:O2'	1:A1:2784:G:N1	2.44	0.51
1:A1:2651:A:P	50:A1:4620:HOH:O	2.68	0.51
1:A1:3097:G:H2'	1:A1:3098:A:O5'	2.11	0.51
1:A1:3228:U:C2	5:AE:142:GLU:HG3	2.46	0.51
1:A1:418:G:H21	30:BI:67:ARG:NH2	2.04	0.51
1:A1:897:A:H2'	1:A1:898:C:H5'	1.92	0.51
1:A1:631:G:C5	5:AE:31:ARG:NH2	2.78	0.51
16:AQ:5:GLN:O	16:AQ:12:GLY:HA3	2.11	0.51
18:AU:44:VAL:CG1	18:AU:47:ARG:HG3	2.41	0.51
1:A1:705:A:H4'	24:BC:119:ARG:HH21	1.76	0.51
24:BC:145:ARG:HD2	24:BC:253:GLY:O	2.11	0.51
33:BL:121:VAL:HG11	33:BL:131:GLU:CD	2.31	0.51
34:BM:157:ASN:ND2	34:BM:159:VAL:HG22	2.26	0.51
34:BM:39:GLN:HG2	34:BM:40:ASP:N	2.26	0.51
32:BK:61:ARG:CA	35:BN:172:ARG:HH12	2.19	0.51
39:BR:147:ILE:HG23	42:BU:34:ILE:HD13	1.92	0.51
43:BV:72:PHE:HD1	43:BV:73:TYR:N	2.09	0.51
44:BW:54:LEU:HD22	44:BW:92:VAL:CG1	2.40	0.51
20:C2:10:U:H2'	20:C2:11:C:C6	2.46	0.51
20:C2:13:A:H2'	20:C2:14:C:H6	1.76	0.51
20:C2:140:U:H2'	20:C2:141:G:O4'	2.11	0.51
23:CB:102:LEU:O	23:CB:103:THR:OG1	2.25	0.51
23:CB:204:ASP:OD1	23:CB:204:ASP:N	2.41	0.51
24:CC:240:ARG:NH2	1:D1:712:G:H4'	2.26	0.51
25:CD:54:ILE:HG21	25:CD:57:PHE:CD2	2.46	0.51
27:CF:134:THR:HG22	27:CF:138:ASN:ND2	2.26	0.51
27:CF:150:VAL:HG21	27:CF:156:VAL:HG21	1.93	0.51
27:CF:76:THR:HG21	27:CF:174:LYS:HE3	1.93	0.51
32:CK:122:PRO:HB3	32:CK:142:GLY:O	2.11	0.51
34:CM:176:SER:O	34:CM:177:GLU:CG	2.52	0.51
34:CM:21:ARG:HA	34:CM:24:ARG:CZ	2.41	0.51
39:CR:131:TYR:CD2	1:D1:1549:U:C2	2.98	0.51
24:CC:95:ALA:CB	1:D1:1464:U:H4'	2.40	0.51
1:D1:1601:U:H2'	1:D1:1602:U:H6	1.75	0.51
1:D1:1691:U:H2'	1:D1:1692:G:C8	2.46	0.51
1:D1:1870:C:H5'	1:D1:1873:C:N4	2.26	0.51
1:D1:2133:U:P	50:D1:4198:HOH:O	2.69	0.51
1:D1:2208:A:H2'	1:D1:2209:A:C8	2.46	0.51
23:CB:250:ILE:HG12	1:D1:2388:G:H4'	1.94	0.51
1:D1:2649:G:H2'	1:D1:2650:U:C6	2.45	0.51
34:CM:35:ARG:CB	1:D1:2737:A:C2	2.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3096:U:O2'	1:D1:3097:G:H5'	2.11	0.51
1:D1:603:A:H2'	1:D1:604:A:C8	2.46	0.51
1:D1:832:A:H3'	1:D1:833:A:H5''	1.93	0.51
1:D1:987:A:O2'	1:D1:988:G:H5'	2.11	0.51
31:CJ:139:SER:CB	9:DJ:102:SER:H	2.22	0.51
9:DJ:117:ILE:HD11	9:DJ:139:ARG:HE	1.76	0.51
24:EC:26:PRO:HG2	24:EC:29:PHE:CD1	2.46	0.51
25:ED:54:ILE:HG21	25:ED:57:PHE:CD2	2.46	0.51
26:EE:113:LYS:HD2	26:EE:114:HIS:N	2.25	0.51
27:EF:136:ILE:HD13	27:EF:163:CYS:SG	2.51	0.51
27:EF:92:TYR:HE2	27:EF:123:ILE:CG2	2.22	0.51
33:EL:78:GLY:HA2	33:EL:89:ILE:HD12	1.93	0.51
37:EP:91:VAL:HG11	37:EP:96:VAL:HG23	1.93	0.51
40:ES:24:HIS:CD2	40:ES:25:LEU:N	2.79	0.51
43:EV:128:LEU:O	43:EV:224:TRP:HB2	2.11	0.51
43:EV:80:VAL:CG2	43:EV:188:VAL:HG23	2.41	0.51
44:EW:8:SER:HA	44:EW:74:LEU:O	2.11	0.51
37:EP:130:ARG:NH2	1:F1:1088:A:N3	2.59	0.51
1:F1:1524:A:H2'	1:F1:1525:U:C6	2.46	0.51
38:EQ:141:TYR:CD1	1:F1:2350:G:H4'	2.46	0.51
1:F1:2546:A:O2'	11:FL:90:ARG:HD3	2.11	0.51
1:F1:2843:U:H6	1:F1:2843:U:O5'	1.93	0.51
1:F1:2899:C:H4'	1:F1:2900:G:O5'	2.10	0.51
1:F1:2907:A:C8	1:F1:2907:A:C5'	2.93	0.51
1:F1:3047:U:H6	1:F1:3047:U:H3'	1.75	0.51
1:F1:3227:A:O2'	1:F1:3228:U:OP2	2.23	0.51
1:F1:37:A:H5''	1:F1:38:A:H4'	1.93	0.51
24:EC:319:ARG:NH2	1:F1:620:A:N7	2.59	0.51
30:EI:92:PRO:HG2	1:F1:656:C:OP1	2.10	0.51
1:F1:1518:G:O2'	3:FB:48:LYS:NZ	2.43	0.51
12:FM:75:LYS:O	12:FM:105:TYR:HE2	1.94	0.51
18:FU:131:ALA:O	18:FU:135:LEU:HD12	2.09	0.51
20:G2:112:G:N2	3:HB:52:TYR:C	2.64	0.51
22:GA:117:VAL:HG12	22:GA:118:GLU:N	2.26	0.51
22:GA:211:PRO:HG2	22:GA:236:VAL:HG21	1.93	0.51
25:GD:157:GLU:HA	25:GD:160:ILE:HD12	1.93	0.51
32:GK:127:ALA:HB3	32:GK:130:PHE:CZ	2.46	0.51
34:GM:28:THR:O	1:H1:2692:A:N6	2.40	0.51
42:GU:92:ILE:HA	42:GU:95:LYS:HE2	1.92	0.51
1:H1:1046:G:H2'	1:H1:1047:G:O4'	2.10	0.51
1:H1:1249:G:C2'	1:H1:1250:A:OP2	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1464:U:C2	1:H1:1465:U:C5	2.98	0.51
1:H1:1593:A:C5	1:H1:1594:C:N4	2.78	0.51
1:H1:1601:U:H2'	1:H1:1602:U:C6	2.45	0.51
1:H1:1695:A:H2'	1:H1:1696:C:C6	2.45	0.51
1:H1:1811:U:O2'	1:H1:1812:G:H5'	2.11	0.51
1:H1:2281:U:H4'	1:H1:2282:C:OP1	2.10	0.51
1:H1:307:A:C2	1:H1:2770:U:O2	2.64	0.51
1:H1:492:A:C2	1:H1:493:G:H1'	2.46	0.51
1:H1:627:U:C2	1:H1:630:G:O6	2.64	0.51
33:GL:185:ARG:NH1	1:H1:62:G:OP1	2.44	0.51
12:HM:43:ILE:HG21	12:HM:56:ILE:HD13	1.93	0.51
1:A1:1086:U:O4'	37:BP:61:THR:HB	2.12	0.50
1:A1:118:A:C8	27:BF:122:PRO:HD3	2.46	0.50
1:A1:1683:U:H2'	1:A1:1684:C:C6	2.46	0.50
1:A1:1683:U:H2'	1:A1:1684:C:H6	1.76	0.50
1:A1:1863:A:P	50:A1:4376:HOH:O	2.68	0.50
1:A1:2577:G:C2'	1:A1:2578:A:O5'	2.60	0.50
1:A1:3229:C:H2'	1:A1:3229:C:O2	2.11	0.50
1:A1:3229:C:H4'	1:A1:3230:G:OP2	2.12	0.50
1:A1:629:A:OP1	1:A1:629:A:H4'	2.10	0.50
1:A1:68:A:H1'	1:A1:70:C:H41	1.76	0.50
1:A1:861:A:H5'	46:BY:4:ARG:HB2	1.92	0.50
1:A1:870:G:H5''	1:A1:871:A:OP1	2.11	0.50
1:A1:943:C:C2'	1:A1:944:U:H5'	2.41	0.50
4:AC:65:LYS:HG3	4:AC:85:ARG:HE	1.75	0.50
9:AJ:197:LEU:HD12	9:AJ:205:PHE:O	2.12	0.50
1:A1:73:G:C5'	18:AU:56:VAL:HG11	2.41	0.50
22:BA:104:PRO:HB2	22:BA:106:ASN:OD1	2.11	0.50
22:BA:203:VAL:HG12	22:BA:218:GLN:CG	2.41	0.50
24:BC:7:ILE:CD1	24:BC:25:LEU:HD13	2.40	0.50
25:BD:109:HIS:HE2	25:BD:120:THR:HG22	1.75	0.50
25:BD:17:LEU:HB3	25:BD:76:ALA:HB1	1.93	0.50
26:BE:23:ARG:NH1	26:BE:39:ARG:O	2.44	0.50
29:BH:47:PRO:HB3	29:BH:171:TRP:CZ2	2.46	0.50
29:BH:73:ASN:O	29:BH:77:ILE:HG23	2.11	0.50
31:BJ:11:VAL:CG2	31:BJ:131:PRO:HD3	2.41	0.50
36:BO:133:LYS:HG3	36:BO:134:ASN:N	2.23	0.50
39:BR:89:THR:HG23	39:BR:132:ILE:O	2.12	0.50
43:BV:120:SER:O	43:BV:124:ILE:HG13	2.10	0.50
22:CA:31:ARG:HB3	22:CA:37:GLU:OE2	2.11	0.50
26:CE:135:LYS:H	26:CE:138:GLU:HG3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CF:127:TYR:CD1	27:CF:185:LYS:NZ	2.72	0.50
47:CO:114:LYS:HB3	47:CO:146:LYS:HZ1	1.75	0.50
41:CT:4:ARG:CZ	9:DJ:78:ASP:OD1	2.59	0.50
20:C2:39:G:N2	42:CU:90:ARG:HH12	2.09	0.50
46:CY:73:THR:HG22	46:CY:75:PRO:CD	2.40	0.50
1:D1:1601:U:H2'	1:D1:1602:U:C6	2.45	0.50
1:D1:1946:A:H2'	1:D1:1947:C:O4'	2.10	0.50
1:D1:2227:A:H1'	1:D1:2423:U:O2'	2.11	0.50
1:D1:2347:A:N6	1:D1:2348:G:C6	2.79	0.50
1:D1:3197:A:OP2	1:D1:3213:G:N2	2.43	0.50
1:D1:556:A:N1	1:D1:611:A:H2	2.09	0.50
1:D1:606:U:H2'	1:D1:607:U:H6	1.76	0.50
1:D1:687:C:H2'	1:D1:688:U:H6	1.77	0.50
9:DJ:119:PRO:HD3	9:DJ:140:THR:O	2.10	0.50
11:DL:74:VAL:HG12	11:DL:75:SER:N	2.26	0.50
1:D1:1663:C:N4	11:DL:75:SER:OG	2.44	0.50
42:CU:123:LYS:HZ1	18:DU:144:SER:HB2	1.76	0.50
18:DU:54:PRO:HG3	18:DU:72:GLY:C	2.31	0.50
21:E3:52:U:H2'	21:E3:53:U:C6	2.46	0.50
23:EB:183:GLY:O	23:EB:189:LYS:CE	2.58	0.50
23:EB:245:ARG:HG3	1:F1:1913:G:OP2	2.10	0.50
25:ED:36:VAL:HG21	25:ED:123:PHE:CE2	2.46	0.50
33:EL:175:ARG:CZ	1:F1:317:A:H4'	2.41	0.50
34:EM:49:TYR:O	34:EM:144:ALA:HA	2.10	0.50
37:EP:66:ASN:ND2	17:FT:35:VAL:HA	2.26	0.50
38:EQ:58:ARG:HE	38:EQ:77:GLU:CD	2.13	0.50
39:ER:89:THR:HG23	39:ER:132:ILE:O	2.10	0.50
42:EU:33:ARG:O	42:EU:37:ILE:HG13	2.11	0.50
43:EV:103:PHE:C	43:EV:104:ARG:HG2	2.32	0.50
1:F1:1126:A:C5	1:F1:1127:U:C5	2.99	0.50
1:F1:2499:U:H2'	1:F1:2500:C:C6	2.45	0.50
22:EA:70:TYR:HE1	1:F1:2549:U:C6	2.29	0.50
1:F1:2509:U:P	1:F1:2575:G:N2	2.84	0.50
1:F1:2718:U:C2	1:F1:2719:A:C8	2.98	0.50
1:F1:2751:A:H2'	1:F1:2752:U:C6	2.46	0.50
1:F1:3125:G:C6	1:F1:3126:C:C4	2.99	0.50
1:F1:3298:U:H4'	1:F1:3299:G:OP2	2.11	0.50
30:EI:67:ARG:NH2	1:F1:418:G:H21	2.02	0.50
1:F1:453:A:H61	1:F1:524:G:H2'	1.73	0.50
1:F1:62:G:N7	50:F1:3648:HOH:O	2.34	0.50
1:F1:700:G:O5'	1:F1:700:G:H8	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:70:C:C4	1:F1:72:A:C4	3.00	0.50
1:F1:72:A:C2	1:F1:73:G:C8	3.00	0.50
1:F1:745:A:H2'	1:F1:746:A:O4'	2.11	0.50
1:F1:855:A:O2'	1:F1:1890:C:H2'	2.11	0.50
1:F1:986:C:H4'	1:F1:987:A:C5'	2.41	0.50
2:FA:26:THR:HG21	2:FA:36:ALA:HB2	1.93	0.50
9:FJ:115:ALA:HB2	9:FJ:135:VAL:HG11	1.93	0.50
9:FJ:118:HIS:HD2	9:FJ:120:ASP:O	1.94	0.50
11:FL:9:ARG:O	11:FL:10:ARG:HB2	2.11	0.50
20:G2:134:C:C6	20:G2:134:C:C3'	2.94	0.50
21:G3:28:C:H1'	21:G3:54:A:H61	1.76	0.50
22:GA:20:HIS:CE1	1:H1:847:G:O2'	2.63	0.50
23:GB:110:ILE:HG23	23:GB:114:THR:HG21	1.92	0.50
23:GB:332:ARG:CG	23:GB:332:ARG:NH1	2.67	0.50
23:GB:337:ARG:HH21	23:GB:340:ILE:HG23	1.76	0.50
24:GC:147:HIS:NE2	24:GC:254:ARG:HG3	2.26	0.50
24:GC:272:THR:O	24:GC:275:THR:O	2.29	0.50
24:GC:7:ILE:CD1	24:GC:25:LEU:HD13	2.41	0.50
33:GL:19:MET:CE	33:GL:19:MET:HA	2.41	0.50
39:GR:67:ASN:HD21	39:GR:109:LYS:HD2	1.75	0.50
20:G2:39:G:N2	42:GU:90:ARG:HH12	2.08	0.50
43:GV:134:GLY:HA3	43:GV:231:ILE:HB	1.93	0.50
43:GV:84:ILE:HD12	43:GV:234:LEU:HD23	1.93	0.50
44:GW:43:MET:HE2	44:GW:43:MET:HA	1.92	0.50
1:H1:1017:U:C6	1:H1:1017:U:H3'	2.46	0.50
1:H1:116:U:H3'	1:H1:117:G:H8	1.76	0.50
1:H1:1592:G:C2	1:H1:1602:U:C2	2.99	0.50
1:H1:1779:C:O2'	1:H1:1780:A:H5'	2.12	0.50
1:H1:198:A:C6	1:H1:219:A:C6	2.99	0.50
1:H1:2300:G:H8	1:H1:2300:G:O5'	1.93	0.50
1:H1:2347:A:N6	1:H1:2348:G:C6	2.79	0.50
1:H1:2362:A:H2'	1:H1:2363:A:C8	2.46	0.50
1:H1:2433:A:H2'	1:H1:2434:A:H8	1.71	0.50
1:H1:2499:U:H2'	1:H1:2500:C:C6	2.45	0.50
1:H1:2539:A:C2	1:H1:2540:G:N7	2.79	0.50
1:H1:278:U:H2'	1:H1:279:U:C6	2.46	0.50
1:H1:3190:A:C6	1:H1:3191:G:N2	2.79	0.50
1:H1:703:U:H2'	1:H1:704:G:C8	2.46	0.50
1:A1:2301:C:N4	1:H1:873:A:N3	2.43	0.50
1:H1:873:A:H2'	1:H1:874:C:C4'	2.41	0.50
1:H1:933:G:C4'	1:H1:934:G:H5''	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HF:28:VAL:HG12	6:HF:66:ASN:N	2.26	0.50
8:HH:13:ARG:CG	8:HH:15:TRP:CZ3	2.93	0.50
8:HH:91:PHE:CD1	8:HH:91:PHE:N	2.78	0.50
11:HL:9:ARG:O	11:HL:10:ARG:HB2	2.11	0.50
14:HO:6:TRP:HZ3	14:HO:40:LEU:CD1	2.21	0.50
1:A1:1072:A:H5''	1:A1:1073:A:OP2	2.11	0.50
1:A1:1593:A:C6	1:A1:1594:C:C4	2.99	0.50
1:A1:1650:U:O2	1:A1:1668:A:H5'	2.11	0.50
1:A1:187:A:O2'	1:A1:188:A:H5'	2.11	0.50
1:A1:2149:U:C2'	1:A1:2150:U:H5'	2.39	0.50
1:A1:2519:A:N6	22:BA:68:TYR:CD1	2.75	0.50
1:A1:2551:A:C3'	1:A1:2552:A:H5''	2.41	0.50
1:A1:2568:G:C6	1:A1:2569:A:N6	2.79	0.50
1:A1:2843:U:O5'	1:A1:2843:U:H6	1.93	0.50
1:A1:315:U:C6	16:AQ:28:VAL:CG1	2.95	0.50
1:A1:1909:C:H5''	1:A1:3266:G:N1	2.26	0.50
1:A1:3298:U:H4'	1:A1:3299:G:OP2	2.09	0.50
1:A1:792:G:HO2'	1:A1:793:A:C5'	2.23	0.50
1:A1:957:U:O4'	1:A1:958:A:H5'	2.12	0.50
2:AA:77:ASN:HD21	20:B2:95:C:H5''	1.77	0.50
15:AP:29:LYS:HB3	15:AP:72:TYR:CE2	2.46	0.50
15:AP:57:ASP:OD1	15:AP:60:ILE:HG13	2.12	0.50
18:AU:166:VAL:CA	18:AU:169:ILE:HD12	2.21	0.50
21:B3:10:C:N3	34:BM:20:TYR:CD1	2.79	0.50
23:BB:377:PHE:CD2	23:BB:378:PHE:CE1	2.96	0.50
24:BC:238:VAL:HA	24:BC:241:LEU:HD21	1.94	0.50
24:BC:27:ALA:O	24:BC:30:THR:HB	2.10	0.50
25:BD:19:ILE:HG21	25:BD:125:MET:CE	2.40	0.50
26:BE:88:PHE:HD1	26:BE:182:LYS:HA	1.76	0.50
21:B3:33:U:C5	34:BM:212:TYR:HE1	2.29	0.50
35:BN:64:SER:O	35:BN:68:ILE:HG13	2.11	0.50
35:BN:75:THR:O	35:BN:79:GLN:HG3	2.12	0.50
37:BP:112:ASN:HB3	37:BP:128:THR:OG1	2.10	0.50
21:C3:22:A:C6	21:C3:23:A:C6	2.99	0.50
23:CB:56:ILE:HD12	23:CB:76:VAL:HG21	1.93	0.50
32:CK:147:LEU:HD21	18:DU:177:VAL:HG13	1.93	0.50
33:CL:68:ARG:HH21	33:CL:123:GLN:HG3	1.77	0.50
33:CL:80:VAL:CG1	33:CL:87:VAL:HA	2.42	0.50
34:CM:156:GLY:HA2	34:CM:181:PRO:CG	2.41	0.50
34:CM:49:TYR:O	34:CM:144:ALA:HA	2.11	0.50
43:CV:103:PHE:CZ	43:CV:124:ILE:HG12	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:124:ILE:HG22	43:CV:124:ILE:O	2.12	0.50
43:CV:38:LYS:O	43:CV:42:ILE:HG13	2.10	0.50
44:CW:14:ASN:ND2	44:CW:17:LYS:CE	2.73	0.50
45:CX:46:ARG:HD2	45:CX:48:PHE:HE2	1.76	0.50
40:CS:59:ARG:NH1	1:D1:200:C:P	2.83	0.50
1:D1:2119:G:H8	1:D1:2119:G:H5''	1.76	0.50
1:D1:2665:G:C5	1:D1:2669:A:N6	2.79	0.50
1:D1:2726:C:C2'	1:D1:2727:A:H5'	2.41	0.50
1:D1:276:G:H5'	4:DC:47:GLY:CA	2.29	0.50
1:D1:632:G:H2'	1:D1:633:C:C6	2.46	0.50
1:D1:745:A:H4'	17:DT:58:ASN:HD21	1.74	0.50
35:CN:142:ALA:O	1:D1:768:A:H4'	2.11	0.50
1:D1:943:C:C2'	1:D1:944:U:H5'	2.41	0.50
6:DF:18:GLY:O	6:DF:21:LYS:HG2	2.11	0.50
13:DN:47:GLU:HB3	13:DN:69:LYS:O	2.11	0.50
14:DO:108:LEU:O	14:DO:111:LEU:HB2	2.11	0.50
26:CE:58:TRP:CE2	19:DX:164:PRO:HG2	2.46	0.50
23:EB:119:TYR:CE1	1:F1:3255:A:H5''	2.46	0.50
23:EB:332:ARG:CG	23:EB:332:ARG:NH1	2.66	0.50
24:EC:9:VAL:HG11	24:EC:260:GLU:OE2	2.11	0.50
24:EC:269:ILE:HG12	24:EC:279:GLN:OE1	2.10	0.50
25:ED:109:HIS:HE2	25:ED:120:THR:HG22	1.75	0.50
25:ED:155:SER:HB3	25:ED:158:GLU:HG3	1.93	0.50
29:EH:189:LYS:O	29:EH:200:ILE:HG13	2.10	0.50
30:EI:114:VAL:O	30:EI:116:LYS:HE3	2.12	0.50
32:EK:81:TRP:CD1	32:EK:119:PRO:HG2	2.46	0.50
35:EN:24:ASN:ND2	35:EN:27:HIS:HB2	2.25	0.50
24:EC:295:ILE:HD11	35:EN:29:LEU:HB3	1.92	0.50
43:EV:105:LEU:HD22	43:EV:110:ASN:O	2.11	0.50
43:EV:129:PRO:HG2	43:EV:130:PHE:CD2	2.46	0.50
43:EV:48:TYR:CE1	43:EV:183:HIS:CD2	2.98	0.50
45:EX:121:LEU:CB	45:EX:124:ALA:HB2	2.38	0.50
1:F1:1020:G:H8	50:F1:4114:HOH:O	1.95	0.50
1:F1:1166:G:H2'	1:F1:1167:G:O4'	2.11	0.50
39:ER:39:ARG:CZ	1:F1:11:A:H4'	2.40	0.50
1:F1:1660:U:C1'	13:FN:38:PHE:CZ	2.94	0.50
1:F1:1677:G:O2'	11:FL:42:THR:HG23	2.11	0.50
1:F1:2411:U:H2'	1:F1:2412:U:H6	1.74	0.50
27:EF:233:LYS:HE2	1:F1:2521:A:N3	2.26	0.50
1:F1:2859:G:C8	50:F1:4201:HOH:O	2.65	0.50
1:F1:2913:C:C2'	1:F1:2914:A:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:347:A:H1'	1:F1:351:A:N3	2.27	0.50
1:F1:424:G:C2'	1:F1:425:U:H5'	2.41	0.50
1:F1:607:U:C2'	1:F1:608:C:H5'	2.40	0.50
1:F1:59:A:H2'	1:F1:60:A:O4'	2.11	0.50
1:F1:72:A:O3'	18:FU:56:VAL:HG11	2.12	0.50
32:EK:132:LYS:HG3	1:F1:739:G:OP1	2.10	0.50
1:F1:970:C:C2	1:F1:971:C:C5	3.00	0.50
9:FJ:25:LEU:HD23	9:FJ:49:ILE:HB	1.92	0.50
1:F1:3096:U:OP1	10:FK:112:LYS:HD3	2.10	0.50
11:FL:5:ILE:CD1	11:FL:22:LYS:HG2	2.41	0.50
11:FL:74:VAL:HG12	11:FL:75:SER:N	2.26	0.50
23:GB:114:THR:N	23:GB:174:ASN:HD22	2.08	0.50
24:GC:172:ALA:O	24:GC:176:LEU:HG	2.10	0.50
24:GC:14:GLU:HG3	24:GC:17:LYS:HD2	1.94	0.50
25:GD:109:HIS:HE2	25:GD:120:THR:HG22	1.77	0.50
29:GH:10:ARG:NH2	29:GH:161:GLY:HA3	2.26	0.50
33:GL:13:LYS:HD3	16:HQ:49:THR:HG21	1.92	0.50
21:G3:48:G:O2'	34:GM:227:GLN:O	2.22	0.50
34:GM:56:THR:CG2	34:GM:57:ASN:N	2.74	0.50
32:GK:60:MET:C	35:GN:172:ARG:HH12	2.13	0.50
1:H1:1046:G:N3	1:H1:1047:G:C8	2.79	0.50
1:H1:1711:U:H1'	12:HM:77:TYR:CD2	2.46	0.50
1:H1:1782:C:H2'	1:H1:1783:U:H5''	1.94	0.50
1:H1:1817:C:H2'	1:H1:1818:C:C6	2.46	0.50
1:H1:253:G:C2'	1:H1:254:G:H5''	2.33	0.50
1:H1:2551:A:H3'	1:H1:2552:A:H5''	1.92	0.50
1:H1:2645:A:C8	1:H1:2647:G:C8	2.99	0.50
1:H1:284:U:H1'	50:H1:3673:HOH:O	2.09	0.50
1:H1:3013:A:C8	1:H1:3014:C:C5	2.99	0.50
1:H1:3168:A:C5	19:HX:166:VAL:HG11	2.46	0.50
1:H1:589:C:O5'	1:H1:589:C:H6	1.94	0.50
1:H1:730:A:H4'	1:H1:731:A:OP1	2.11	0.50
4:HC:75:CYS:O	4:HC:76:LYS:HB2	2.12	0.50
5:HE:54:LEU:CD2	8:HH:14:LEU:HD13	2.41	0.50
6:HF:92:LYS:O	6:HF:96:ILE:HG13	2.11	0.50
7:HG:83:LYS:HD2	7:HG:85:HIS:CE1	2.45	0.50
9:HJ:109:VAL:HG23	9:HJ:148:VAL:HG23	1.92	0.50
18:HU:45:PHE:O	18:HU:147:GLN:OE1	2.29	0.50
19:HX:7:GLN:HE22	19:HX:80:GLU:H	1.58	0.50
1:A1:1004:U:H4'	1:A1:1005:A:OP2	2.08	0.50
1:A1:1006:C:H2'	1:A1:1007:G:OP1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1053:A:C1'	1:A1:1054:G:OP2	2.55	0.50
1:A1:1112:A:C6	1:A1:1113:A:N6	2.79	0.50
1:A1:1475:A:C2	1:A1:2351:A:C5	3.00	0.50
1:A1:1642:G:C3'	1:A1:1643:G:H5''	2.41	0.50
1:A1:1660:U:H1'	13:AN:38:PHE:CE2	2.46	0.50
1:A1:2715:C:H3'	1:A1:2717:G:H21	1.76	0.50
1:A1:2277:U:H1'	1:A1:2948:C:O2'	2.10	0.50
1:A1:3044:A:H5''	1:A1:3045:A:OP2	2.11	0.50
1:A1:3345:A:H8	1:A1:3345:A:OP2	1.94	0.50
1:A1:472:C:H6	1:A1:472:C:O5'	1.93	0.50
1:A1:564:A:H2'	24:BC:373:SER:HB2	1.94	0.50
1:A1:589:C:O5'	1:A1:589:C:H6	1.94	0.50
1:A1:632:G:H2'	1:A1:633:C:C6	2.46	0.50
1:A1:79:C:C2'	1:A1:80:C:H5'	2.41	0.50
11:AL:74:VAL:HG12	11:AL:75:SER:N	2.27	0.50
13:AN:89:GLU:N	13:AN:89:GLU:OE1	2.43	0.50
14:AO:122:GLN:HA	14:AO:122:GLN:OE1	2.10	0.50
19:AX:34:THR:HG22	19:AX:35:LYS:N	2.27	0.50
21:B3:69:G:H2'	21:B3:70:G:C8	2.47	0.50
1:A1:847:G:O2'	22:BA:20:HIS:CE1	2.63	0.50
22:BA:253:GLU:OE2	22:GA:252:LYS:CB	2.59	0.50
24:BC:28:VAL:HG11	24:BC:133:LEU:CD1	2.42	0.50
24:BC:269:ILE:HG12	24:BC:279:GLN:OE1	2.12	0.50
24:BC:41:VAL:O	24:BC:45:LEU:HG	2.11	0.50
25:BD:108:GLU:HA	25:BD:122:ILE:CG2	2.39	0.50
27:BF:150:VAL:HG21	27:BF:156:VAL:HG21	1.94	0.50
18:AU:164:LYS:HD3	32:BK:100:PRO:HA	1.91	0.50
1:A1:743:A:C8	32:BK:140:ALA:HB1	2.46	0.50
34:BM:144:ALA:O	34:BM:174:PRO:HD3	2.11	0.50
38:BQ:134:ALA:O	38:BQ:135:HIS:CB	2.59	0.50
38:BQ:8:ARG:HH22	38:BQ:117:GLN:NE2	2.09	0.50
39:BR:67:ASN:HD21	39:BR:109:LYS:HD2	1.74	0.50
43:BV:105:LEU:HD22	43:BV:110:ASN:O	2.11	0.50
45:BX:46:ARG:HD2	45:BX:48:PHE:HE2	1.75	0.50
45:BX:84:LEU:HD23	45:BX:87:LEU:HD12	1.93	0.50
30:CI:81:ARG:HG3	30:CI:81:ARG:HH11	1.75	0.50
32:CK:81:TRP:CD1	32:CK:119:PRO:HG2	2.46	0.50
33:CL:16:SER:HB3	16:DQ:49:THR:CG2	2.41	0.50
21:C3:22:A:C5	34:CM:274:HIS:HB3	2.47	0.50
34:CM:38:ILE:HG13	34:CM:38:ILE:O	2.12	0.50
35:CN:82:VAL:HG22	35:CN:127:LEU:HD11	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CP:76:VAL:HG12	37:CP:77:HIS:H	1.76	0.50
44:CW:49:ARG:HB2	44:CW:91:LEU:HD23	1.92	0.50
37:CP:14:LYS:HE3	1:D1:1020:G:OP1	2.10	0.50
1:D1:1025:G:N3	1:D1:1028:A:N6	2.60	0.50
1:D1:1096:G:C2'	1:D1:1097:G:H5''	2.35	0.50
1:D1:146:U:OP1	1:D1:147:U:H3'	2.12	0.50
1:D1:1543:A:H2'	1:D1:1544:U:C6	2.45	0.50
1:D1:1694:C:O2	1:D1:1804:G:N2	2.29	0.50
1:D1:2294:A:OP1	50:D1:4626:HOH:O	2.19	0.50
1:D1:169:A:P	1:D1:249:G:H22	2.34	0.50
1:D1:2576:C:H2'	1:D1:2577:G:C5'	2.30	0.50
1:D1:2882:U:H2'	1:D1:2883:G:C8	2.47	0.50
1:D1:3013:A:C8	1:D1:3014:C:C5	2.99	0.50
1:D1:3097:G:H2'	1:D1:3098:A:O5'	2.12	0.50
1:D1:73:G:OP1	18:DU:56:VAL:CG1	2.60	0.50
1:D1:940:A:N3	1:D1:940:A:H2'	2.26	0.50
1:D1:957:U:O4'	1:D1:958:A:H5'	2.11	0.50
5:DE:179:THR:CG2	5:DE:180:LEU:N	2.74	0.50
16:DQ:61:LEU:O	16:DQ:69:ASP:HB3	2.10	0.50
20:E2:61:G:C2'	20:E2:100:C:O2'	2.59	0.50
22:EA:49:ILE:HA	22:EA:59:LEU:O	2.12	0.50
24:EC:14:GLU:HG3	24:EC:17:LYS:HD2	1.94	0.50
24:EC:198:GLN:HB3	1:F1:1407:A:H5''	1.93	0.50
24:EC:311:ALA:CB	1:F1:1374:C:H5'	2.41	0.50
25:ED:6:GLU:OE1	25:ED:6:GLU:HA	2.12	0.50
26:EE:101:GLU:OE1	26:EE:134:ARG:HD2	2.11	0.50
27:EF:196:VAL:CG2	27:EF:204:LEU:HD11	2.41	0.50
31:EJ:23:VAL:CG2	31:EJ:41:ILE:O	2.59	0.50
34:EM:179:ARG:NE	34:EM:185:ARG:HH22	1.98	0.50
38:EQ:15:LYS:HB3	38:EQ:154:GLU:HG2	1.92	0.50
24:EC:205:ARG:NH2	40:ES:11:ARG:NH1	2.58	0.50
40:ES:81:VAL:HB	40:ES:84:ILE:CG1	2.36	0.50
42:EU:102:GLU:O	42:EU:104:VAL:HG23	2.12	0.50
42:EU:76:GLY:HA2	1:F1:133:C:H2'	1.92	0.50
45:EX:46:ARG:HD2	45:EX:48:PHE:HE2	1.75	0.50
45:EX:84:LEU:HD23	45:EX:87:LEU:HD12	1.92	0.50
1:F1:1037:A:C2	1:F1:1066:A:C2	2.99	0.50
1:F1:1240:G:O2'	19:FX:104:MET:HG2	2.12	0.50
24:EC:145:ARG:NH2	1:F1:1410:G:O3'	2.43	0.50
1:F1:1642:G:H2'	1:F1:1643:G:C5'	2.18	0.50
1:F1:1779:C:O2'	1:F1:1780:A:H5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2264:U:O2	1:F1:2264:U:C2'	2.58	0.50
1:F1:2278:G:O2'	1:F1:2279:C:O5'	2.27	0.50
1:F1:2795:U:O3'	1:F1:2796:A:H3'	2.12	0.50
1:F1:2882:U:H2'	1:F1:2883:G:C8	2.47	0.50
1:F1:3071:C:C2'	1:F1:3072:G:H5'	2.41	0.50
31:EJ:16:LYS:HZ2	1:F1:3081:C:H5	1.56	0.50
1:F1:3191:G:HO2'	1:F1:3192:C:P	2.33	0.50
1:F1:3345:A:H8	1:F1:3345:A:OP2	1.94	0.50
1:F1:40:C:O2'	1:F1:41:A:OP1	2.22	0.50
4:FC:19:THR:HB	4:FC:21:HIS:NE2	2.27	0.50
4:FC:21:HIS:HA	4:FC:71:ASP:O	2.12	0.50
7:FG:38:THR:O	7:FG:40:LYS:HE2	2.12	0.50
9:FJ:88:LEU:HG	9:FJ:92:VAL:HG11	1.93	0.50
14:FO:3:GLN:HA	14:FO:3:GLN:OE1	2.11	0.50
24:GC:163:VAL:HG22	24:GC:175:PHE:CE2	2.46	0.50
24:GC:259:THR:CG2	24:GC:260:GLU:H	2.24	0.50
24:GC:97:PHE:HD1	24:GC:97:PHE:O	1.94	0.50
27:GF:138:ASN:O	27:GF:139:LYS:HB2	2.12	0.50
29:GH:17:TYR:O	29:GH:96:VAL:HG23	2.11	0.50
30:GI:81:ARG:NH1	30:GI:81:ARG:HG3	2.26	0.50
32:GK:76:ASN:HA	32:GK:113:LEU:O	2.11	0.50
27:GF:69:GLN:OE1	33:GL:18:LEU:HD22	2.11	0.50
34:GM:160:PHE:HA	34:GM:163:LEU:HB2	1.92	0.50
38:GQ:32:TYR:CE1	38:GQ:36:ARG:HD2	2.46	0.50
40:GS:21:SER:HB2	40:GS:26:ARG:HG2	1.93	0.50
43:GV:207:PRO:HG3	43:GV:211:PHE:CE2	2.46	0.50
45:GX:84:LEU:HD23	45:GX:87:LEU:HD12	1.93	0.50
1:H1:1244:A:H2'	1:H1:1245:U:H5''	1.92	0.50
1:H1:1805:C:C2'	1:H1:1806:G:OP1	2.59	0.50
1:H1:2170:A:H4'	1:H1:2171:U:OP2	2.11	0.50
1:H1:2353:C:H3'	1:H1:2354:C:H6	1.75	0.50
1:H1:2649:G:OP1	1:H1:2739:C:O2'	2.29	0.50
1:H1:3300:A:N6	50:H1:4371:HOH:O	2.44	0.50
1:H1:70:C:C4	1:H1:72:A:C4	2.99	0.50
8:HH:52:GLN:O	8:HH:77:ILE:O	2.28	0.50
9:HJ:159:GLY:O	9:HJ:221:ILE:HD13	2.11	0.50
9:HJ:71:LEU:HB3	9:HJ:97:ILE:HD11	1.93	0.50
1:A1:1109:A:C1'	1:A1:1110:U:OP2	2.55	0.50
1:A1:1184:U:C6	1:A1:1184:U:H5'	2.35	0.50
1:A1:120:A:H61	1:A1:148:G:H1'	1.76	0.50
1:A1:1227:A:N3	1:A1:1227:A:C2'	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1374:C:H5'	24:BC:311:ALA:HB1	1.94	0.50
1:A1:1580:G:C5'	1:A1:1581:C:OP2	2.60	0.50
1:A1:2521:A:N3	27:BF:233:LYS:HE2	2.26	0.50
1:A1:2673:C:H2'	1:A1:2674:A:C8	2.46	0.50
1:A1:3116:A:N6	1:A1:3117:G:C2	2.80	0.50
1:A1:3198:A:C5	1:A1:3199:G:C5	3.00	0.50
1:A1:63:A:C4	1:A1:108:G:N7	2.79	0.50
1:A1:738:U:O2'	1:A1:778:G:OP1	2.28	0.50
1:A1:787:U:C2'	18:AU:179:ARG:HH22	2.24	0.50
1:A1:828:C:O2'	1:A1:829:C:H5'	2.11	0.50
1:A1:842:A:C8	2:AA:15:THR:CG2	2.86	0.50
1:A1:978:G:N7	1:A1:1144:G:C8	2.79	0.50
2:AA:33:ARG:NE	2:AA:41:ASP:OD2	2.44	0.50
8:AH:39:LEU:CD2	8:AH:106:VAL:HG21	2.41	0.50
8:AH:33:ASN:HA	8:AH:94:ASN:HD21	1.76	0.50
8:AH:57:VAL:HG22	8:AH:74:TRP:CE3	2.46	0.50
17:AT:36:ASN:O	17:AT:40:LEU:HG	2.12	0.50
19:AX:16:MET:HE3	19:AX:18:VAL:HG22	1.92	0.50
22:BA:104:PRO:HA	22:BA:163:CYS:O	2.10	0.50
23:BB:301:LYS:HD3	23:BB:359:THR:HG23	1.92	0.50
27:BF:143:LEU:HD23	27:BF:169:PRO:HG2	1.93	0.50
30:BI:18:LEU:O	30:BI:22:VAL:HG23	2.10	0.50
1:A1:1108:A:P	34:BM:140:LYS:HD3	2.52	0.50
34:BM:231:TRP:HZ2	34:BM:243:VAL:HG21	1.76	0.50
1:A1:810:G:C8	35:BN:92:ARG:NH2	2.80	0.50
36:BO:152:SER:HA	36:BO:163:ARG:HH12	1.77	0.50
37:BP:118:GLU:O	37:BP:121:LYS:HB2	2.11	0.50
34:BM:30:TYR:HD1	37:BP:27:ILE:HD11	1.76	0.50
43:BV:107:GLN:HG2	43:BV:110:ASN:ND2	2.26	0.50
43:BV:235:VAL:O	43:BV:239:LEU:HG	2.12	0.50
43:BV:48:TYR:HE1	43:BV:183:HIS:CD2	2.28	0.50
45:BX:20:VAL:HG12	45:BX:52:ARG:HH12	1.76	0.50
21:C3:10:C:C6	34:CM:20:TYR:CE1	3.00	0.50
23:CB:121:ASN:HD21	23:CB:124:ASN:HD22	1.60	0.50
24:CC:129:VAL:O	24:CC:132:ALA:HB3	2.11	0.50
24:CC:7:ILE:CD1	24:CC:25:LEU:HD13	2.41	0.50
24:CC:97:PHE:HD1	24:CC:97:PHE:O	1.95	0.50
26:CE:46:GLN:NE2	26:CE:56:GLN:NE2	2.59	0.50
27:CF:197:ARG:O	27:CF:198:ASN:C	2.50	0.50
31:CJ:32:ASN:ND2	31:CJ:117:GLN:N	2.59	0.50
38:CQ:77:GLU:HB2	38:CQ:78:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CR:67:ASN:HD21	39:CR:109:LYS:HD2	1.77	0.50
43:CV:103:PHE:C	43:CV:104:ARG:HG2	2.31	0.50
43:CV:213:ASN:HD22	43:CV:216:HIS:CD2	2.30	0.50
1:D1:1147:A:H2'	1:D1:1148:U:H6	1.76	0.50
1:D1:158:G:H2'	1:D1:159:G:H8	1.77	0.50
1:D1:2268:G:O2'	1:D1:2269:U:OP2	2.28	0.50
1:D1:232:C:HO2'	1:D1:233:G:P	2.34	0.50
1:D1:2343:A:C2'	1:D1:2344:U:H5''	2.42	0.50
1:D1:2862:G:OP2	50:D1:4359:HOH:O	2.19	0.50
1:D1:3097:G:C2'	1:D1:3098:A:O5'	2.60	0.50
1:D1:368:A:C4'	1:D1:369:U:OP1	2.60	0.50
1:D1:492:A:C2	1:D1:493:G:H1'	2.46	0.50
1:D1:559:G:H2'	1:D1:560:A:H8	1.75	0.50
1:D1:78:G:C2	1:D1:79:C:C6	2.99	0.50
1:D1:801:U:H5'	17:DT:37:PRO:CG	2.42	0.50
1:D1:1857:G:OP1	3:DB:10:LYS:HD2	2.11	0.50
2:DA:25:ALA:HB1	3:DB:52:TYR:CD2	2.47	0.50
30:CI:196:PHE:CZ	6:DF:110:ARG:HB2	2.47	0.50
6:DF:62:ASN:O	6:DF:75:LYS:NZ	2.34	0.50
8:DH:19:ALA:O	8:DH:37:LEU:HA	2.12	0.50
22:EA:117:VAL:HG11	22:EA:149:ILE:CD1	2.41	0.50
23:EB:360:SER:O	23:EB:362:LYS:HE2	2.11	0.50
24:EC:174:ALA:O	24:EC:178:ARG:HG3	2.11	0.50
24:EC:195:ARG:NH2	1:F1:1409:C:P	2.85	0.50
24:EC:259:THR:CG2	24:EC:260:GLU:H	2.24	0.50
29:EH:80:ILE:HG22	29:EH:81:SER:N	2.26	0.50
30:EI:46:LEU:HA	30:EI:135:CYS:SG	2.52	0.50
32:EK:91:LYS:HG2	32:EK:92:TYR:CD1	2.47	0.50
33:EL:203:TYR:O	33:EL:204:ARG:HB2	2.12	0.50
29:EH:212:PHE:CE1	34:EM:298:ALA:HB2	2.46	0.50
24:EC:290:LEU:HD22	35:EN:125:ASP:HB3	1.92	0.50
36:EO:42:ARG:NH2	1:F1:1626:U:OP2	2.45	0.50
37:EP:52:MET:HG2	37:EP:95:HIS:CE1	2.46	0.50
42:EU:119:LYS:HB2	18:FU:124:PHE:HB2	1.91	0.50
43:EV:166:VAL:HG12	43:EV:175:ILE:HG22	1.93	0.50
43:EV:213:ASN:HD22	43:EV:216:HIS:HD2	1.60	0.50
45:EX:43:ARG:HH22	1:F1:660:C:C2'	2.22	0.50
45:EX:86:ILE:HD13	14:FO:25:THR:O	2.11	0.50
1:F1:1361:U:C5'	1:F1:1361:U:C6	2.93	0.50
1:F1:139:A:HO2'	1:F1:140:A:H8	1.58	0.50
1:F1:969:C:OP1	1:F1:1458:C:H4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1907:A:C2'	1:F1:1908:A:O5'	2.60	0.50
1:F1:2180:G:H4'	50:F1:4077:HOH:O	2.11	0.50
1:F1:2391:G:H5'	1:F1:2392:A:C4'	2.39	0.50
1:F1:2414:A:H2'	1:F1:2415:C:H6	1.75	0.50
1:F1:2548:G:HO2'	1:F1:2549:U:P	2.33	0.50
1:F1:2577:G:C2'	1:F1:2578:A:O5'	2.58	0.50
32:EK:45:ILE:HG23	1:F1:2716:A:C2	2.47	0.50
1:F1:3000:A:N1	1:F1:3032:C:O2'	2.38	0.50
1:F1:3035:A:C2	1:F1:3036:U:C2	2.99	0.50
1:F1:361:A:H2'	1:F1:362:G:C5'	2.20	0.50
1:F1:512:G:N1	1:F1:513:G:C5	2.80	0.50
1:F1:606:U:H2'	1:F1:607:U:H6	1.76	0.50
1:F1:632:G:H2'	1:F1:633:C:C6	2.46	0.50
1:F1:777:C:H2'	1:F1:778:G:H8	1.76	0.50
1:F1:791:C:H4'	1:F1:792:G:O5'	2.10	0.50
1:F1:957:U:H4'	1:F1:958:A:O5'	2.11	0.50
3:FB:7:LEU:O	3:FB:8:ASN:C	2.48	0.50
4:FC:77:THR:HG22	4:FC:78:LYS:N	2.26	0.50
6:FF:28:VAL:CG1	6:FF:66:ASN:H	2.23	0.50
15:FP:48:LYS:HE3	15:FP:49:TYR:HE2	1.76	0.50
20:G2:27:G:OP2	40:GS:12:ARG:NH1	2.40	0.50
21:G3:75:G:HO2'	21:G3:76:U:P	2.34	0.50
22:GA:42:ILE:CD1	22:GA:43:ARG:N	2.68	0.50
23:GB:292:ALA:HB2	23:GB:303:ILE:N	2.27	0.50
23:GB:303:ILE:HG12	23:GB:319:PHE:CZ	2.46	0.50
24:GC:157:TYR:CE1	24:GC:179:VAL:HG13	2.47	0.50
25:GD:54:ILE:HG21	25:GD:57:PHE:CD2	2.46	0.50
26:GE:4:LEU:HD11	19:HX:163:PHE:HD1	1.75	0.50
27:GF:153:ILE:HG22	27:GF:157:ILE:CG1	2.41	0.50
29:GH:140:VAL:HG12	29:GH:141:LYS:H	1.76	0.50
21:G3:63:A:C8	29:GH:206:LEU:HD23	2.47	0.50
23:GB:66:ARG:CZ	31:GJ:15:ALA:HB2	2.41	0.50
32:GK:74:VAL:HG13	32:GK:113:LEU:HG	1.94	0.50
32:GK:19:HIS:HD2	1:H1:685:G:O6	1.94	0.50
33:GL:145:ASP:O	33:GL:149:ASN:HB3	2.11	0.50
33:GL:64:VAL:HG21	33:GL:106:VAL:HG22	1.93	0.50
35:GN:82:VAL:HG22	35:GN:127:LEU:HD11	1.90	0.50
35:GN:30:LEU:O	35:GN:33:LEU:HB3	2.11	0.50
37:GP:15:PHE:CD1	37:GP:15:PHE:N	2.80	0.50
45:GX:4:LYS:HD2	45:GX:92:ARG:HE	1.77	0.50
1:H1:1039:G:HO2'	1:H1:1041:C:H5	1.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:127:A:C5	1:H1:128:G:H1'	2.46	0.50
28:GG:80:UNK:CA	1:H1:1309:G:H4'	2.40	0.50
30:GI:62:ASN:ND2	1:H1:1332:U:C1'	2.73	0.50
1:H1:137:A:H2'	1:H1:138:C:H6	1.76	0.50
1:H1:1539:G:H2'	1:H1:1541:U:C5	2.46	0.50
1:H1:1868:C:O2	2:HA:9:GLY:HA2	2.12	0.50
42:GU:98:LYS:HZ2	1:H1:242:G:H5'	1.76	0.50
1:H1:2577:G:C2'	1:H1:2578:A:O5'	2.59	0.50
33:GL:69:GLY:O	1:H1:289:G:H4'	2.10	0.50
1:H1:2277:U:H1'	1:H1:2948:C:O2'	2.11	0.50
1:H1:3344:U:O2	1:H1:3344:U:C2'	2.59	0.50
1:H1:459:G:H1'	1:H1:519:A:H62	1.76	0.50
1:H1:578:G:H2'	1:H1:579:G:H5''	1.94	0.50
1:H1:3185:G:N7	8:HH:11:PRO:HD3	2.27	0.50
11:HL:31:VAL:HG12	11:HL:32:ALA:O	2.10	0.50
1:H1:745:A:C4'	17:HT:58:ASN:HD21	2.25	0.50
18:HU:123:LEU:CD2	18:HU:135:LEU:O	2.59	0.50
1:A1:137:A:H2'	1:A1:138:C:H6	1.76	0.50
1:A1:1907:A:H2'	1:A1:1908:A:H8	1.77	0.50
1:A1:2255:U:HO2'	1:A1:2256:G:H5'	1.73	0.50
1:A1:2732:G:H2'	1:A1:2733:C:H6	1.75	0.50
1:A1:2983:A:H1'	20:B2:2:G:O2'	2.10	0.50
1:A1:2990:U:H2'	1:A1:2991:U:H6	1.77	0.50
1:A1:3100:U:H2'	1:A1:3101:G:C5'	2.41	0.50
1:A1:3308:A:H2'	1:A1:3309:U:C1'	2.42	0.50
1:A1:701:A:N6	1:A1:811:A:O4'	2.44	0.50
2:AA:59:GLY:O	2:AA:62:THR:HB	2.11	0.50
19:AX:7:GLN:HE22	19:AX:80:GLU:CB	2.24	0.50
20:B2:110:A:C2	20:B2:115:G:O6	2.65	0.50
20:B2:28:G:N7	40:BS:12:ARG:NH2	2.59	0.50
22:BA:212:HIS:O	22:BA:213:GLY:C	2.48	0.50
33:BL:37:HIS:NE2	33:BL:63:ARG:HD2	2.26	0.50
38:BQ:26:VAL:HG21	38:BQ:92:VAL:HG21	1.94	0.50
44:BW:10:ASP:OD1	44:BW:73:ARG:CG	2.57	0.50
22:CA:203:VAL:HG12	22:CA:218:GLN:CG	2.41	0.50
24:CC:149:ILE:HG23	24:CC:152:VAL:HB	1.94	0.50
25:CD:109:HIS:HE2	25:CD:120:THR:HG22	1.76	0.50
26:CE:23:ARG:NH1	26:CE:39:ARG:O	2.45	0.50
26:CE:34:ILE:HD11	26:CE:147:ILE:CG2	2.38	0.50
30:CI:152:ILE:HG22	30:CI:153:GLU:N	2.26	0.50
33:CL:202:ARG:NH2	18:DU:26:GLN:HG2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:163:LEU:HD23	34:CM:180:PHE:CZ	2.46	0.50
34:CM:231:TRP:HZ2	34:CM:243:VAL:CG2	2.24	0.50
34:CM:83:LEU:CB	34:CM:88:VAL:CG2	2.89	0.50
40:CS:55:VAL:HG13	40:CS:104:VAL:O	2.11	0.50
40:CS:21:SER:HB2	40:CS:26:ARG:HG2	1.92	0.50
44:CW:28:ALA:HB3	44:CW:29:PRO:HD3	1.93	0.50
1:D1:1023:A:H2'	1:D1:1024:A:O4'	2.12	0.50
1:D1:1049:U:C4	1:D1:1050:C:N4	2.80	0.50
1:D1:1728:A:H2'	1:D1:1729:U:OP2	2.12	0.50
1:D1:1944:U:N3	1:D1:1954:A:C2	2.79	0.50
1:D1:2577:G:C2'	1:D1:2578:A:O5'	2.59	0.50
1:D1:2958:C:O3'	1:D1:2959:A:C8	2.65	0.50
1:D1:2962:U:C6	1:D1:2962:U:H5'	2.44	0.50
1:D1:3128:G:C5'	1:D1:3128:G:C8	2.92	0.50
1:D1:3229:C:C2	5:DE:57:ARG:HG3	2.46	0.50
1:D1:3229:C:H4'	1:D1:3230:G:OP2	2.12	0.50
1:D1:32:A:H2'	1:D1:33:A:C8	2.46	0.50
1:D1:402:U:H2'	1:D1:403:G:H5'	1.92	0.50
1:D1:497:G:H2'	1:D1:498:A:H5'	1.91	0.50
1:D1:585:A:C6	1:D1:586:A:C6	2.99	0.50
1:D1:827:C:H2'	1:D1:828:C:C6	2.46	0.50
4:DC:75:CYS:O	4:DC:76:LYS:HB2	2.11	0.50
6:DF:28:VAL:HG12	6:DF:66:ASN:N	2.24	0.50
6:DF:5:LYS:HD3	6:DF:55:LEU:HB2	1.94	0.50
8:DH:17:LYS:HG3	8:DH:40:GLN:OE1	2.11	0.50
1:D1:3237:C:N3	8:DH:7:SER:OG	2.44	0.50
11:DL:39:VAL:HG11	11:DL:60:ARG:HA	1.93	0.50
14:DO:48:VAL:HA	14:DO:61:SER:O	2.12	0.50
14:DO:75:THR:HG21	14:DO:77:GLU:CG	2.42	0.50
17:DT:32:THR:CG2	17:DT:40:LEU:HD21	2.42	0.50
1:D1:822:U:H1'	18:DU:8:PRO:HB3	1.91	0.50
23:EB:20:ARG:HB2	1:F1:2979:A:P	2.51	0.50
26:EE:103:VAL:HG22	26:EE:110:ILE:HG12	1.92	0.50
28:EG:15:UNK:CG	28:EG:65:UNK:CA	2.75	0.50
37:EP:116:LYS:HZ1	37:EP:128:THR:CB	2.14	0.50
39:ER:94:VAL:HG21	39:ER:103:ILE:HD13	1.93	0.50
45:EX:37:PRO:O	45:EX:45:ARG:HG3	2.11	0.50
1:F1:1042:U:C2	1:F1:1043:C:C5	2.99	0.50
1:F1:1066:A:H2'	1:F1:1067:U:H5''	1.92	0.50
1:F1:2597:G:O2'	1:F1:2598:A:H5'	2.12	0.50
33:EL:14:LYS:HZ3	1:F1:268:G:H5''	1.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2714:U:C2'	1:F1:2715:C:H5'	2.41	0.50
1:F1:2719:A:C4	1:F1:2720:G:C8	2.99	0.50
1:F1:2703:G:HO2'	1:F1:2740:G:H2'	1.71	0.50
1:F1:3229:C:H4'	1:F1:3230:G:OP2	2.11	0.50
1:F1:3230:G:HO2'	1:F1:3231:U:P	2.35	0.50
1:F1:49:A:H2'	1:F1:50:A:C8	2.46	0.50
1:F1:632:G:C5	1:F1:633:C:C5	2.99	0.50
24:EC:319:ARG:NH2	1:F1:634:G:C6	2.79	0.50
1:F1:943:C:C2'	1:F1:944:U:H5'	2.41	0.50
6:FF:18:GLY:O	6:FF:21:LYS:HG2	2.11	0.50
7:FG:83:LYS:HD2	7:FG:85:HIS:CE1	2.47	0.50
8:FH:64:LYS:CG	8:FH:69:ASN:HD21	2.02	0.50
11:FL:23:VAL:O	11:FL:30:LEU:HD12	2.10	0.50
21:G3:13:A:O2'	34:GM:24:ARG:CZ	2.60	0.50
21:G3:69:G:H2'	21:G3:70:G:C8	2.45	0.50
22:GA:105:ILE:HD11	22:GA:117:VAL:HG13	1.94	0.50
22:GA:46:ILE:HD12	22:GA:87:GLN:HB3	1.94	0.50
22:GA:8:GLN:O	1:H1:2159:C:O2'	2.27	0.50
24:GC:26:PRO:HG2	24:GC:29:PHE:CD1	2.47	0.50
35:GN:6:HIS:CG	1:H1:1131:G:C4	2.99	0.50
37:GP:118:GLU:O	37:GP:121:LYS:HB2	2.11	0.50
37:GP:42:ILE:HG23	37:GP:57:TYR:O	2.12	0.50
20:G2:7:U:OP1	38:GQ:64:ARG:HG2	2.10	0.50
40:GS:66:LYS:HE3	40:GS:106:THR:HG21	1.93	0.50
41:GT:48:ALA:HB1	41:GT:54:THR:HG21	1.92	0.50
1:H1:1009:A:OP1	17:HT:23:LYS:NZ	2.41	0.50
33:GL:5:LYS:HB2	1:H1:114:A:OP2	2.10	0.50
1:H1:1770:A:H2'	1:H1:1771:U:H6	1.77	0.50
1:H1:1942:C:H5''	1:H1:1942:C:H6	1.76	0.50
1:H1:1949:U:H4'	1:H1:1950:C:OP2	2.12	0.50
1:H1:2112:G:H5'	1:H1:2112:G:N3	2.27	0.50
33:GL:14:LYS:HZ3	1:H1:268:G:H5''	1.71	0.50
1:H1:3094:U:H2'	1:H1:3095:A:C8	2.45	0.50
1:H1:3097:G:H2'	1:H1:3098:A:O5'	2.12	0.50
1:H1:3114:U:C3'	1:H1:3115:C:H5''	2.42	0.50
1:H1:3177:G:OP1	1:H1:3177:G:H8	1.95	0.50
1:H1:3227:A:N1	5:HE:150:LYS:HD3	2.26	0.50
5:HE:67:LYS:HD2	5:HE:109:THR:HB	1.93	0.50
8:HH:39:LEU:CD2	8:HH:106:VAL:HG21	2.42	0.50
13:HN:75:VAL:HG12	13:HN:76:ASN:O	2.11	0.50
19:HX:45:ALA:HB1	19:HX:50:HIS:HD2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1376:A:H5''	1:A1:1377:A:O5'	2.10	0.50
1:A1:1922:G:O2'	31:BJ:25:ALA:HA	2.11	0.50
1:A1:209:A:H4'	1:A1:211:A:C8	2.47	0.50
1:A1:2855:C:O2'	1:A1:2856:U:H5'	2.12	0.50
1:A1:2962:U:C6	1:A1:2962:U:H5'	2.46	0.50
1:A1:3085:C:H2'	1:A1:3086:U:C6	2.46	0.50
1:A1:459:G:H5''	1:A1:460:A:OP2	2.12	0.50
1:A1:488:U:C2	1:A1:490:A:OP2	2.64	0.50
1:A1:442:G:N2	1:A1:536:A:C4	2.80	0.50
1:A1:679:C:H2'	1:A1:680:A:C8	2.46	0.50
4:AC:10:THR:O	4:AC:18:HIS:HA	2.12	0.50
6:AF:17:TYR:O	6:AF:17:TYR:CD1	2.65	0.50
6:AF:92:LYS:O	6:AF:96:ILE:HG13	2.12	0.50
13:AN:22:LYS:HZ1	13:AN:140:SER:HB3	1.76	0.50
13:AN:36:ARG:NH1	13:AN:74:TYR:CD1	2.78	0.50
16:AQ:6:ALA:O	16:AQ:7:VAL:CB	2.60	0.50
23:BB:86:ILE:HD13	23:BB:158:VAL:HG11	1.94	0.50
1:A1:1332:U:H1'	30:BI:62:ASN:ND2	2.26	0.50
1:A1:3154:A:O2'	30:BI:96:ALA:HB1	2.11	0.50
31:BJ:32:ASN:HD21	31:BJ:117:GLN:N	2.10	0.50
1:A1:28:G:H5''	33:BL:172:ARG:HD3	1.94	0.50
33:BL:80:VAL:HG11	33:BL:87:VAL:HA	1.94	0.50
34:BM:240:VAL:HG12	34:BM:242:SER:H	1.77	0.50
34:BM:60:ILE:H	34:BM:80:SER:HB2	1.77	0.50
36:BO:21:ARG:O	36:BO:53:ARG:HG3	2.12	0.50
23:CB:304:THR:HG21	23:CB:314:VAL:HA	1.92	0.50
24:CC:173:VAL:HG12	24:CC:177:LYS:HE3	1.94	0.50
24:CC:200:LYS:HZ3	1:D1:1445:G:H5''	1.74	0.50
24:CC:303:GLU:H	24:CC:303:GLU:CD	2.14	0.50
24:CC:369:HIS:ND1	43:CV:68:LYS:NZ	2.45	0.50
24:CC:9:VAL:HG11	24:CC:260:GLU:OE2	2.11	0.50
33:CL:149:ASN:O	33:CL:152:CYS:HB2	2.12	0.50
33:CL:19:MET:HA	33:CL:19:MET:CE	2.42	0.50
33:CL:203:TYR:O	33:CL:204:ARG:HB2	2.12	0.50
35:CN:167:VAL:CG1	35:CN:169:SER:O	2.59	0.50
37:CP:91:VAL:CG1	37:CP:96:VAL:HG23	2.42	0.50
43:CV:200:TRP:CD2	43:CV:201:PRO:HD2	2.47	0.50
45:CX:3:ILE:HG22	45:CX:3:ILE:O	2.11	0.50
45:CX:6:VAL:HG23	45:CX:92:ARG:O	2.12	0.50
1:D1:978:G:N7	1:D1:1144:G:C8	2.79	0.50
1:D1:1185:A:H3'	1:D1:1186:A:H5''	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1226:C:H4'	1:D1:1227:A:O5'	2.10	0.50
1:D1:1249:G:H2'	1:D1:1312:G:H22	1.77	0.50
1:D1:149:U:H2'	1:D1:150:A:H8	1.76	0.50
39:CR:121:LEU:HD21	1:D1:1549:U:C4'	2.41	0.50
1:D1:1650:U:O2	1:D1:1668:A:H5'	2.11	0.50
1:D1:169:A:H2'	1:D1:170:A:H5'	1.92	0.50
1:D1:2106:G:O2'	1:D1:2107:A:OP1	2.30	0.50
1:D1:2362:A:H2'	1:D1:2363:A:C8	2.46	0.50
1:D1:236:G:H2'	1:D1:237:A:C8	2.47	0.50
20:C2:153:A:H62	1:D1:2:U:H3	1.59	0.50
5:DE:62:ARG:NH1	6:DF:105:ASP:OD1	2.45	0.50
5:DE:69:LEU:HD21	5:DE:114:ASP:CG	2.31	0.50
6:DF:11:ARG:HG2	6:DF:55:LEU:HD22	1.94	0.50
6:DF:3:PHE:CD1	19:DX:164:PRO:CB	2.94	0.50
9:DJ:213:THR:O	9:DJ:216:SER:HB2	2.11	0.50
13:DN:75:VAL:HG12	13:DN:76:ASN:O	2.12	0.50
16:DQ:60:GLU:CG	16:DQ:61:LEU:N	2.74	0.50
19:DX:113:LEU:CD1	19:DX:140:THR:HG21	2.42	0.50
20:E2:38:C:H4'	2:FA:71:ILE:CD1	2.39	0.50
23:EB:311:HIS:CD2	1:F1:3334:C:H4'	2.47	0.50
23:EB:330:LYS:O	23:EB:331:LYS:CB	2.60	0.50
24:EC:28:VAL:HG11	24:EC:133:LEU:CD1	2.42	0.50
26:EE:92:LEU:HD12	26:EE:177:ILE:HG12	1.94	0.50
26:EE:23:ARG:NH1	26:EE:39:ARG:O	2.45	0.50
33:EL:201:ARG:HH21	1:F1:80:C:P	2.35	0.50
35:EN:167:VAL:HG13	35:EN:169:SER:H	1.76	0.50
39:ER:123:THR:HG22	39:ER:125:THR:H	1.76	0.50
43:EV:127:VAL:C	43:EV:129:PRO:HD2	2.31	0.50
43:EV:173:PHE:HD1	43:EV:191:HIS:CE1	2.30	0.50
1:F1:1017:U:H3'	1:F1:1017:U:C6	2.46	0.50
1:F1:1101:U:H5''	1:F1:1102:U:OP2	2.12	0.50
1:F1:1660:U:H1'	13:FN:38:PHE:CZ	2.47	0.50
1:F1:1683:U:H2'	1:F1:1684:C:C6	2.47	0.50
1:F1:181:U:C2'	1:F1:182:C:H5'	2.42	0.50
1:F1:2576:C:C2'	1:F1:2577:G:C5'	2.86	0.50
1:F1:2743:G:C3'	1:F1:2744:C:H5'	2.39	0.50
1:F1:278:U:H2'	1:F1:279:U:C6	2.46	0.50
1:F1:3157:C:OP1	1:F1:3159:A:H1'	2.12	0.50
1:F1:3230:G:C5	5:FE:119:ARG:HD2	2.47	0.50
1:F1:434:A:C4'	1:F1:435:A:C8	2.93	0.50
2:FA:26:THR:O	2:FA:34:CYS:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:ER:124:ILE:O	3:FB:14:GLY:HA3	2.11	0.50
8:FH:39:LEU:CD2	8:FH:106:VAL:HG21	2.42	0.50
9:FJ:58:ILE:O	9:FJ:60:GLY:N	2.43	0.50
13:FN:101:LYS:HA	13:FN:106:ALA:HB3	1.94	0.50
19:FX:34:THR:HG22	19:FX:35:LYS:N	2.26	0.50
19:FX:45:ALA:HA	19:FX:50:HIS:HD2	1.77	0.50
19:FX:7:GLN:HE22	19:FX:80:GLU:H	1.58	0.50
25:GD:69:VAL:HG12	25:GD:71:ILE:HG13	1.93	0.50
32:GK:75:VAL:HG12	32:GK:76:ASN:N	2.26	0.50
34:GM:163:LEU:CD1	34:GM:173:ILE:HG21	2.41	0.50
34:GM:144:ALA:O	34:GM:174:PRO:HD3	2.11	0.50
35:GN:167:VAL:HG13	35:GN:169:SER:H	1.76	0.50
38:GQ:10:PRO:HB3	38:GQ:153:GLN:NE2	2.26	0.50
38:GQ:76:HIS:C	38:GQ:78:PHE:H	2.13	0.50
38:GQ:38:ILE:CD1	38:GQ:93:ILE:HG21	2.40	0.50
43:GV:107:GLN:HG2	43:GV:110:ASN:ND2	2.27	0.50
43:GV:7:GLU:O	43:GV:11:LYS:HG3	2.11	0.50
1:H1:1035:A:C2	1:H1:1036:G:C5	3.00	0.50
1:H1:1376:A:C5'	1:H1:1377:A:O4'	2.57	0.50
1:H1:122:U:H4'	1:H1:150:A:H1'	1.92	0.50
1:H1:2123:U:O2'	1:H1:2124:C:H5'	2.12	0.50
1:H1:2324:A:C5	1:H1:2325:C:C5	3.00	0.50
1:H1:2872:C:O2'	1:H1:2873:C:H5'	2.12	0.50
1:H1:304:U:O2'	1:H1:305:A:H8	1.91	0.50
1:H1:3072:G:H2'	1:H1:3073:U:C6	2.47	0.50
1:H1:3180:C:H2'	1:H1:3181:G:H8	1.77	0.50
1:H1:3181:G:H2'	1:H1:3182:A:H8	1.75	0.50
33:GL:150:TRP:CE3	1:H1:320:C:H5''	2.47	0.50
1:H1:40:C:C6	1:H1:40:C:C3'	2.95	0.50
1:H1:566:U:C5	1:H1:567:C:C5	3.00	0.50
1:H1:882:G:C2'	1:H1:883:A:OP2	2.58	0.50
4:HC:10:THR:O	4:HC:18:HIS:HA	2.11	0.50
4:HC:72:CYS:SG	4:HC:75:CYS:N	2.73	0.50
1:H1:1379:G:N2	5:HE:22:ASP:OD2	2.44	0.50
6:HF:87:GLU:O	6:HF:92:LYS:HE3	2.11	0.50
8:HH:17:LYS:HG3	8:HH:40:GLN:OE1	2.12	0.50
8:HH:33:ASN:HA	8:HH:94:ASN:HD21	1.76	0.50
9:HJ:58:ILE:O	9:HJ:60:GLY:N	2.44	0.50
1:H1:2834:U:N3	10:HK:97:ARG:NH1	2.59	0.50
13:HN:53:VAL:HG11	13:HN:62:ILE:HG23	1.94	0.50
5:HE:18:TRP:HB3	14:HO:95:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:HP:57:ASP:OD1	15:HP:60:ILE:HG13	2.11	0.50
16:HQ:29:GLN:O	16:HQ:31:LYS:HD3	2.12	0.50
19:HX:87:LYS:HG3	19:HX:89:TYR:CZ	2.47	0.50
1:A1:1005:A:C2'	1:A1:1006:C:OP1	2.59	0.50
1:A1:1017:U:C6	1:A1:1017:U:H3'	2.47	0.50
1:A1:1096:G:C2'	1:A1:1097:G:H5''	2.37	0.50
1:A1:1344:A:H4'	30:BI:17:ARG:HH22	1.76	0.50
1:A1:1351:U:H2'	1:A1:1352:U:C6	2.46	0.50
1:A1:1595:A:N3	1:A1:1599:G:C6	2.79	0.50
1:A1:1919:A:O2'	1:A1:1920:A:H8	1.93	0.50
1:A1:2155:C:C3'	1:A1:2156:G:H5'	2.42	0.50
1:A1:2395:G:OP1	50:A1:4708:HOH:O	2.20	0.50
1:A1:3096:U:OP1	10:AK:114:LYS:NZ	2.32	0.50
1:A1:585:A:C6	1:A1:586:A:C6	3.00	0.50
1:A1:791:C:H4'	1:A1:792:G:O5'	2.10	0.50
4:AC:98:LYS:O	4:AC:102:VAL:HG23	2.12	0.50
4:AC:7:THR:HB	4:AC:94:ILE:CD1	2.42	0.50
5:AE:102:VAL:HG22	5:AE:170:LEU:CD2	2.35	0.50
6:AF:38:ILE:HD12	6:AF:48:ILE:HB	1.92	0.50
6:AF:44:VAL:HG12	6:AF:45:ARG:N	2.26	0.50
7:AG:11:GLN:HE22	1:H1:2249:U:C4'	2.24	0.50
9:AJ:200:ASN:C	9:AJ:200:ASN:OD1	2.50	0.50
13:AN:118:PHE:HE2	13:AN:138:PHE:HE2	1.60	0.50
13:AN:16:GLY:H	13:AN:19:ALA:HB2	1.73	0.50
14:AO:6:TRP:HZ3	14:AO:40:LEU:CD1	2.23	0.50
19:AX:22:VAL:HG11	19:AX:40:GLN:NE2	2.23	0.50
19:AX:96:GLN:HE22	21:B3:93:G:H4'	1.75	0.50
21:B3:10:C:C2	34:BM:20:TYR:CD1	2.94	0.50
24:BC:147:HIS:NE2	24:BC:254:ARG:HG3	2.27	0.50
24:BC:375:ALA:O	24:BC:378:ALA:HB3	2.11	0.50
26:BE:88:PHE:CD2	26:BE:152:VAL:HG12	2.47	0.50
30:BI:10:ALA:C	30:BI:13:HIS:HD2	2.15	0.50
21:B3:22:A:C5	34:BM:274:HIS:HB3	2.47	0.50
39:BR:75:LEU:HD21	39:BR:93:TYR:HE2	1.76	0.50
18:AU:123:LEU:HD21	42:BU:118:ARG:HH11	1.77	0.50
46:BY:10:ILE:CD1	46:BY:30:GLU:HB3	2.42	0.50
21:C3:7:G:H4'	34:CM:33:ARG:NH2	2.26	0.50
22:CA:210:HIS:CD2	22:CA:212:HIS:HB2	2.46	0.50
22:CA:86:GLY:CA	1:D1:2545:A:N3	2.75	0.50
23:CB:86:ILE:HD13	23:CB:158:VAL:HG11	1.94	0.50
23:CB:210:ASN:ND2	23:CB:352:ILE:N	2.56	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:337:ARG:HG2	23:CB:338:LYS:O	2.11	0.50
23:CB:84:MET:CE	23:CB:179:ILE:HD11	2.41	0.50
24:CC:258:TRP:CZ3	24:CC:266:LEU:HD11	2.47	0.50
25:CD:160:ILE:HG22	25:CD:164:LYS:HE3	1.94	0.50
34:CM:175:HIS:HD2	34:CM:180:PHE:HE2	1.55	0.50
21:C3:8:G:OP1	37:CP:27:ILE:CD1	2.60	0.50
40:CS:38:LEU:HD11	40:CS:106:THR:O	2.12	0.50
46:CY:4:ARG:HD2	1:D1:862:A:OP2	2.11	0.50
1:D1:1413:G:C2	1:D1:1414:C:C6	3.00	0.50
1:D1:1490:G:N2	1:D1:1493:A:H5'	2.27	0.50
1:D1:1736:G:C6	1:D1:1737:A:C6	2.99	0.50
1:D1:1179:G:H1'	1:D1:2365:G:O2'	2.12	0.50
1:D1:2863:U:H2'	1:D1:2863:U:O2	2.11	0.50
1:D1:3175:A:H2'	1:D1:3177:G:N7	2.27	0.50
1:D1:3180:C:H2'	1:D1:3181:G:H8	1.77	0.50
1:D1:738:U:HO2'	1:D1:739:G:H5'	1.77	0.50
5:DE:58:PHE:CG	5:DE:85:VAL:HG22	2.47	0.50
5:DE:88:LYS:HG3	5:DE:89:ARG:O	2.12	0.50
6:DF:45:ARG:NH1	19:DX:84:ASN:O	2.45	0.50
7:DG:41:LEU:HD12	7:DG:66:SER:O	2.12	0.50
9:DJ:4:ARG:NE	9:DJ:215:ILE:HD11	2.26	0.50
16:DQ:83:THR:HG22	16:DQ:85:ARG:HB3	1.94	0.50
1:D1:787:U:C2'	18:DU:179:ARG:HH22	2.25	0.50
6:DF:21:LYS:NZ	19:DX:174:GLU:HG2	2.27	0.50
21:E3:35:C:N4	21:E3:46:C:H1'	2.26	0.50
22:EA:117:VAL:CG1	22:EA:118:GLU:N	2.75	0.50
24:EC:205:ARG:HB3	24:EC:206:TYR:CE2	2.46	0.50
24:EC:230:ILE:HG22	24:EC:233:VAL:HG13	1.92	0.50
26:EE:78:MET:O	26:EE:82:VAL:HG23	2.11	0.50
27:EF:46:ARG:O	39:ER:37:PHE:HB2	2.11	0.50
33:EL:145:ASP:O	33:EL:149:ASN:HB3	2.12	0.50
21:E3:10:C:C5	34:EM:20:TYR:CE1	3.00	0.50
34:EM:230:LYS:O	34:EM:234:THR:HB	2.12	0.50
39:ER:141:LEU:O	39:ER:144:ALA:HB3	2.11	0.50
23:EB:365:HIS:HA	41:ET:19:ARG:NH2	2.26	0.50
42:EU:35:ALA:O	42:EU:36:LYS:C	2.50	0.50
42:EU:44:LYS:HA	42:EU:47:ARG:HD2	1.94	0.50
43:EV:139:ASN:O	43:EV:143:LYS:HG3	2.11	0.50
45:EX:43:ARG:HA	45:EX:48:PHE:CD2	2.47	0.50
1:F1:120:A:H61	1:F1:148:G:H1'	1.77	0.50
1:F1:1411:U:C2	1:F1:1412:U:C5	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2155:C:H3'	1:F1:2156:G:H5'	1.94	0.50
1:F1:2163:A:C5'	50:F1:3622:HOH:O	2.57	0.50
1:F1:2211:G:O5'	1:F1:2211:G:H8	1.95	0.50
1:F1:2433:A:H2'	1:F1:2434:A:H8	1.71	0.50
1:F1:169:A:C5	1:F1:251:A:C6	2.99	0.50
1:F1:2744:C:P	50:F1:4482:HOH:O	2.70	0.50
1:F1:39:G:C4	1:F1:2789:A:C2	2.99	0.50
24:EC:321:LYS:NZ	1:F1:633:C:OP1	2.27	0.50
1:F1:685:G:OP1	1:F1:685:G:H4'	2.11	0.50
24:EC:40:LYS:NZ	1:F1:815:U:H1'	2.27	0.50
1:F1:836:U:H2'	1:F1:837:G:H8	1.76	0.50
6:FF:4:ASN:OD1	6:FF:5:LYS:N	2.45	0.50
18:FU:108:GLU:OE1	18:FU:108:GLU:HA	2.10	0.50
20:G2:60:C:O2'	20:G2:61:G:H5'	2.11	0.50
21:G3:43:A:P	25:GD:137:ARG:HH11	2.35	0.50
22:GA:118:GLU:HG2	22:GA:123:ASP:HB2	1.93	0.50
22:GA:203:VAL:HG12	22:GA:218:GLN:CG	2.42	0.50
27:GF:143:LEU:HD22	27:GF:211:PHE:HD2	1.77	0.50
29:GH:139:ARG:CD	29:GH:173:PHE:HE1	2.24	0.50
30:GI:81:ARG:HH11	30:GI:81:ARG:HG3	1.77	0.50
34:GM:156:GLY:HA2	34:GM:181:PRO:CG	2.37	0.50
34:GM:179:ARG:NE	34:GM:185:ARG:HH22	2.04	0.50
34:GM:90:THR:O	34:GM:231:TRP:CZ3	2.65	0.50
36:GO:84:THR:OG1	36:GO:87:ALA:HB2	2.12	0.50
38:GQ:29:LYS:O	38:GQ:32:TYR:HB3	2.12	0.50
39:GR:75:LEU:HD21	39:GR:93:TYR:HE2	1.75	0.50
40:GS:114:ARG:O	40:GS:118:LEU:HG	2.11	0.50
20:G2:77:U:N3	40:GS:73:TYR:CE2	2.79	0.50
45:GX:3:ILE:O	45:GX:3:ILE:HG22	2.12	0.50
1:H1:1053:A:C4'	1:H1:1054:G:O4'	2.60	0.50
1:H1:1114:C:C2'	1:H1:1115:U:C5'	2.90	0.50
1:H1:1137:U:H2'	1:H1:1138:U:O4'	2.12	0.50
1:H1:1572:A:H2'	1:H1:1573:A:O4'	2.11	0.50
1:H1:2155:C:C3'	1:H1:2156:G:H5'	2.42	0.50
1:H1:2243:C:O2'	1:H1:2268:G:C5	2.56	0.50
1:H1:2640:G:OP1	1:H1:2641:U:H1'	2.11	0.50
1:H1:31:G:H1'	1:H1:49:A:N6	2.27	0.50
23:GB:270:TYR:CD2	1:H1:3265:A:H5'	2.46	0.50
1:H1:3308:A:H2'	1:H1:3309:U:C1'	2.42	0.50
1:H1:603:A:H2'	1:H1:604:A:C8	2.46	0.50
1:H1:606:U:H2'	1:H1:607:U:H6	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:613:U:H2'	1:H1:614:G:H8	1.76	0.50
1:H1:631:G:C5	5:HE:31:ARG:NH2	2.80	0.50
1:H1:688:U:C2	1:H1:689:A:C8	3.00	0.50
3:HB:7:LEU:O	3:HB:8:ASN:C	2.50	0.50
5:HE:113:GLU:OE1	5:HE:113:GLU:HA	2.12	0.50
6:HF:14:TYR:OH	6:HF:22:GLY:HA2	2.12	0.50
13:HN:31:ASP:OD1	13:HN:31:ASP:N	2.44	0.50
1:H1:488:U:H5	18:HU:161:LYS:HE2	1.75	0.50
1:A1:1195:U:C1'	43:BV:206:THR:HG21	2.42	0.50
1:A1:169:A:H2'	1:A1:170:A:H5'	1.93	0.50
1:A1:1807:C:H2'	1:A1:1808:A:C8	2.46	0.50
1:A1:2138:A:H4'	1:A1:2139:A:O5'	2.11	0.50
1:A1:2362:A:H2'	1:A1:2363:A:C8	2.47	0.50
1:A1:2521:A:C2	1:A1:2522:A:C4	3.00	0.50
1:A1:2572:U:C2'	1:A1:2573:U:H5'	2.42	0.50
1:A1:2814:U:C2'	1:A1:2815:U:H5'	2.41	0.50
1:A1:424:G:C2'	1:A1:425:U:H5'	2.41	0.50
1:A1:619:G:H5''	1:A1:620:A:OP1	2.11	0.50
1:A1:790:C:C5'	1:A1:791:C:OP1	2.60	0.50
1:A1:785:A:N6	1:A1:795:G:H1'	2.27	0.50
1:A1:841:A:OP2	2:AA:28:HIS:HE1	1.95	0.50
4:AC:75:CYS:O	4:AC:76:LYS:HB2	2.12	0.50
1:A1:1754:G:O6	7:AG:29:SER:HB2	2.11	0.50
1:A1:3235:U:N3	8:AH:12:THR:O	2.44	0.50
12:AM:41:SER:O	12:AM:49:LEU:HG	2.12	0.50
14:AO:15:PHE:O	14:AO:26:THR:N	2.39	0.50
15:AP:61:ALA:O	15:AP:65:LYS:HG3	2.12	0.50
18:AU:100:LYS:HE3	18:AU:102:ARG:HH21	1.77	0.50
20:B2:134:C:C6	20:B2:134:C:C3'	2.95	0.50
20:B2:35:U:O2	20:B2:37:A:N6	2.44	0.50
22:BA:210:HIS:HD2	22:BA:212:HIS:N	1.84	0.50
22:BA:32:VAL:HA	22:BA:124:ARG:NH1	2.27	0.50
23:BB:218:VAL:HA	23:BB:271:HIS:O	2.12	0.50
30:BI:109:THR:HG23	30:BI:110:PRO:N	2.27	0.50
1:A1:79:C:O2'	33:BL:201:ARG:NH2	2.45	0.50
33:BL:28:TRP:O	33:BL:32:GLN:HG2	2.11	0.50
34:BM:98:ALA:HB1	34:BM:162:VAL:HG23	1.94	0.50
34:BM:88:VAL:HG12	34:BM:246:LEU:HD21	1.92	0.50
19:AX:40:GLN:OE1	37:BP:145:VAL:HG21	2.11	0.50
38:BQ:66:THR:CG2	38:BQ:82:GLN:NE2	2.75	0.50
45:BX:65:THR:HG22	45:BX:65:THR:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:243:ARG:CZ	22:CA:247:VAL:HG12	2.41	0.50
22:CA:3:ARG:HG2	22:CA:4:VAL:H	1.77	0.50
22:CA:45:CYS:O	22:CA:62:VAL:HA	2.11	0.50
23:CB:46:PHE:CZ	23:CB:84:MET:HG3	2.46	0.50
25:CD:107:GLN:HG2	25:CD:108:GLU:H	1.77	0.50
29:CH:73:ASN:O	29:CH:77:ILE:HG23	2.12	0.50
30:CI:114:VAL:O	30:CI:116:LYS:HE3	2.11	0.50
34:CM:109:LEU:HD21	34:CM:142:PHE:CD2	2.47	0.50
34:CM:17:GLN:OE1	37:CP:20:LYS:CA	2.58	0.50
38:CQ:32:TYR:CE2	38:CQ:36:ARG:HD2	2.47	0.50
40:CS:24:HIS:NE2	40:CS:25:LEU:HG	2.26	0.50
41:CT:10:PHE:HZ	41:CT:51:ILE:HD12	1.77	0.50
42:CU:122:LEU:CD1	18:DU:150:LEU:HD21	2.41	0.50
1:D1:1166:G:H2'	1:D1:1167:G:O4'	2.12	0.50
1:D1:1178:U:H3'	1:D1:1179:G:C8	2.47	0.50
1:D1:1210:C:C5'	19:DX:171:ARG:HH21	2.25	0.50
1:D1:1438:A:H2'	1:D1:1439:U:C6	2.47	0.50
1:D1:1497:U:H2'	1:D1:1498:U:H6	1.77	0.50
1:D1:1580:G:C5'	1:D1:1581:C:OP2	2.60	0.50
1:D1:1752:G:H5''	1:D1:1753:A:C3'	2.37	0.50
22:CA:223:PRO:HA	1:D1:2240:C:O4'	2.12	0.50
1:D1:2499:U:H2'	1:D1:2500:C:C6	2.47	0.50
1:D1:2700:A:H2'	1:D1:2701:U:O4'	2.12	0.50
1:D1:2703:G:O6	1:D1:2730:C:N3	2.44	0.50
1:D1:3080:A:O2'	1:D1:3081:C:P	2.70	0.50
1:D1:3096:U:P	10:DK:112:LYS:HD3	2.52	0.50
1:D1:3187:U:C2'	1:D1:3188:A:H5'	2.42	0.50
1:D1:470:C:H1'	1:D1:510:A:C2	2.46	0.50
35:CN:91:GLU:CG	1:D1:701:A:H3'	2.39	0.50
1:D1:859:U:C4	1:D1:860:G:C6	3.00	0.50
1:D1:986:C:H4'	1:D1:987:A:C5'	2.42	0.50
2:DA:62:THR:CG2	2:DA:63:GLY:N	2.75	0.50
20:C2:44:A:OP1	2:DA:68:MET:HG2	2.12	0.50
1:D1:90:G:H4'	4:DC:53:LYS:HZ3	1.77	0.50
1:D1:634:G:H5'	5:DE:30:ARG:NH2	2.26	0.50
6:DF:11:ARG:HG3	6:DF:12:VAL:N	2.26	0.50
9:DJ:58:ILE:O	9:DJ:60:GLY:N	2.44	0.50
18:DU:58:LYS:HB2	18:DU:63:TYR:CB	2.42	0.50
19:DX:151:PRO:O	19:DX:155:ALA:HB2	2.11	0.50
22:EA:203:VAL:HG12	22:EA:218:GLN:CG	2.42	0.50
22:EA:34:ASP:O	22:EA:38:ARG:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:163:VAL:HG22	24:EC:175:PHE:CE2	2.46	0.50
26:EE:112:ILE:HD13	26:EE:177:ILE:CD1	2.41	0.50
26:EE:49:THR:O	26:EE:51:ASP:N	2.45	0.50
29:EH:140:VAL:HG12	29:EH:141:LYS:H	1.76	0.50
31:EJ:98:TYR:CD1	31:EJ:98:TYR:N	2.78	0.50
34:EM:176:SER:O	34:EM:177:GLU:CG	2.52	0.50
38:EQ:71:ARG:HG2	38:EQ:81:THR:CG2	2.42	0.50
40:ES:79:ILE:HD11	40:ES:100:ALA:HB2	1.94	0.50
1:F1:1112:A:C6	1:F1:1113:A:C6	2.99	0.50
1:F1:1191:G:O2'	1:F1:1192:A:H5'	2.12	0.50
1:F1:1226:C:H4'	1:F1:1227:A:O5'	2.06	0.50
1:F1:1403:C:HO2'	1:F1:1434:G:HO2'	1.56	0.50
1:F1:219:A:N1	1:F1:1416:U:H2'	2.27	0.50
1:F1:146:U:HO2'	1:F1:147:U:P	2.34	0.50
1:F1:1488:A:O2'	1:F1:1489:U:H5'	2.11	0.50
1:F1:149:U:H2'	1:F1:150:A:H8	1.77	0.50
1:F1:158:G:H2'	1:F1:159:G:H8	1.76	0.50
1:F1:1805:C:C2'	1:F1:1806:G:OP1	2.59	0.50
1:F1:20:G:C5	1:F1:21:A:N7	2.80	0.50
1:F1:2240:C:H2'	1:F1:2241:G:O5'	2.12	0.50
1:F1:2254:A:C4'	1:F1:2255:U:OP2	2.59	0.50
1:F1:2411:U:H4'	1:F1:2955:A:O4'	2.12	0.50
1:F1:2715:C:H3'	1:F1:2717:G:N2	2.27	0.50
30:EI:73:ARG:NH1	1:F1:3123:A:OP1	2.44	0.50
1:F1:3179:U:H2'	1:F1:3180:C:H6	1.75	0.50
1:F1:583:G:C2	1:F1:585:A:OP2	2.65	0.50
1:F1:621:G:C6	1:F1:622:G:N1	2.79	0.50
4:FC:83:ILE:CG2	4:FC:84:LYS:N	2.74	0.50
5:FE:67:LYS:HD2	5:FE:109:THR:HB	1.94	0.50
20:G2:73:G:O2'	20:G2:88:G:N2	2.45	0.50
20:G2:88:G:HO2'	20:G2:89:A:P	2.35	0.50
23:GB:377:PHE:CD2	23:GB:378:PHE:CE1	2.96	0.50
23:GB:78:VAL:HG21	23:GB:303:ILE:HG21	1.94	0.50
24:GC:380:PHE:HD2	24:GC:381:ASN:OD1	1.95	0.50
25:GD:162:TRP:CH2	25:GD:167:PHE:HE2	2.30	0.50
26:GE:135:LYS:H	26:GE:138:GLU:HG2	1.76	0.50
26:GE:49:THR:O	26:GE:51:ASP:N	2.45	0.50
27:GF:114:GLY:O	27:GF:115:LYS:HB2	2.10	0.50
31:GJ:140:VAL:H	9:HJ:102:SER:HB3	1.77	0.50
33:GL:14:LYS:NZ	33:GL:120:TRP:CZ3	2.80	0.50
36:GO:41:ILE:O	36:GO:44:LEU:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:GS:24:HIS:CD2	40:GS:25:LEU:N	2.80	0.50
43:GV:120:SER:O	43:GV:124:ILE:HG13	2.12	0.50
44:GW:61:ASN:HB3	44:GW:65:ASN:O	2.11	0.50
1:H1:1141:U:C4	1:H1:1142:G:C2	3.00	0.50
1:H1:1227:A:C2'	1:H1:1227:A:N3	2.74	0.50
24:GC:299:ILE:HD12	1:H1:1375:A:C2	2.46	0.50
1:H1:1438:A:H2'	1:H1:1439:U:C6	2.46	0.50
1:H1:1599:G:C2	1:H1:1600:U:C2	2.99	0.50
1:H1:1646:G:C2'	1:H1:1647:U:H5'	2.42	0.50
1:H1:1772:G:O2'	15:HP:4:GLU:HB3	2.11	0.50
1:H1:1919:A:O2'	1:H1:1920:A:H8	1.93	0.50
1:H1:2274:A:H5'	1:H1:2300:G:N2	2.27	0.50
1:H1:2275:A:H2'	1:H1:2277:U:C5'	2.42	0.50
1:H1:2902:G:O2'	1:H1:2922:A:N1	2.39	0.50
1:H1:37:A:H5''	1:H1:38:A:H4'	1.93	0.50
1:H1:459:G:H5''	1:H1:460:A:OP2	2.12	0.50
1:H1:583:G:C2	1:H1:585:A:OP2	2.65	0.50
1:H1:358:C:O2'	2:HA:16:HIS:CD2	2.64	0.50
2:HA:21:ARG:HH11	2:HA:44:MET:HE1	1.76	0.50
5:HE:88:LYS:HG3	5:HE:89:ARG:N	2.27	0.50
7:HG:41:LEU:HD12	7:HG:66:SER:O	2.11	0.50
16:HQ:5:GLN:O	16:HQ:12:GLY:HA3	2.12	0.50
19:HX:93:LEU:CD2	19:HX:120:LEU:HD21	2.40	0.50
1:A1:1183:C:H5''	50:A1:3941:HOH:O	2.10	0.50
1:A1:119:A:H2'	27:BF:100:LYS:HZ3	1.75	0.50
1:A1:137:A:H2'	1:A1:138:C:C6	2.47	0.50
1:A1:1393:A:H2'	1:A1:1394:G:C8	2.47	0.50
1:A1:1533:G:N2	38:BQ:131:THR:CG2	2.75	0.50
1:A1:1600:U:C5	1:A1:1601:U:C5	3.00	0.50
1:A1:1592:G:C2	1:A1:1602:U:C2	2.99	0.50
1:A1:1805:C:H2'	1:A1:1806:G:OP1	2.11	0.50
1:A1:1921:G:O2'	1:A1:1922:G:H5'	2.12	0.50
1:A1:2278:G:HO2'	1:A1:2279:C:P	2.34	0.50
1:A1:2499:U:H2'	1:A1:2500:C:C6	2.46	0.50
1:A1:2719:A:H2'	1:A1:2720:G:C8	2.43	0.50
1:A1:2703:G:O6	1:A1:2730:C:N3	2.45	0.50
1:A1:2701:U:H4'	1:A1:2732:G:O3'	2.12	0.50
1:A1:3125:G:C6	1:A1:3126:C:C4	3.00	0.50
1:A1:354:A:N1	24:BC:89:THR:OG1	2.42	0.50
1:A1:620:A:N7	24:BC:319:ARG:CZ	2.74	0.50
1:A1:651:U:C4	1:A1:652:U:C4	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:882:G:O2'	1:A1:883:A:P	2.69	0.50
13:AN:10:VAL:HG13	13:AN:83:THR:HB	1.92	0.50
19:AX:113:LEU:HD11	19:AX:140:THR:CG2	2.40	0.50
19:AX:185:ARG:HE	30:BI:118:VAL:HG21	1.76	0.50
20:B2:67:C:H5'	20:B2:68:A:OP2	2.12	0.50
1:A1:2520:G:O6	22:BA:68:TYR:CE1	2.64	0.50
23:BB:56:ILE:HG22	23:BB:57:LEU:N	2.26	0.50
1:A1:1445:G:H5''	24:BC:200:LYS:HZ3	1.76	0.50
24:BC:276:THR:HG23	24:BC:277:GLY:H	1.75	0.50
25:BD:54:ILE:HG21	25:BD:57:PHE:CD2	2.47	0.50
26:BE:112:ILE:HD13	26:BE:177:ILE:CD1	2.42	0.50
30:BI:30:GLN:HG3	30:BI:32:ILE:HD13	1.94	0.50
1:A1:145:A:H4'	33:BL:55:ASN:HB3	1.92	0.50
34:BM:59:ARG:CD	34:BM:61:ILE:HG12	2.40	0.50
36:BO:24:LEU:HD22	36:BO:50:VAL:HG22	1.94	0.50
41:BT:22:ARG:NH2	41:BT:32:PHE:HE2	2.10	0.50
43:BV:227:ARG:HH12	43:BV:234:LEU:HD13	1.77	0.50
45:BX:11:ILE:HB	45:BX:65:THR:HG21	1.93	0.50
20:C2:112:G:C4'	20:C2:113:U:OP1	2.50	0.50
24:CC:214:VAL:HG12	24:CC:257:ILE:HB	1.93	0.50
25:CD:155:SER:HB3	25:CD:158:GLU:HG3	1.94	0.50
29:CH:140:VAL:HG11	29:CH:144:HIS:CB	2.40	0.50
31:CJ:98:TYR:CD1	31:CJ:98:TYR:N	2.78	0.50
33:CL:118:SER:HB3	33:CL:132:VAL:HG22	1.93	0.50
24:CC:311:ALA:CB	35:CN:40:ARG:HH21	2.25	0.50
35:CN:41:THR:HG22	35:CN:43:SER:H	1.76	0.50
37:CP:45:ASP:C	37:CP:45:ASP:OD1	2.50	0.50
38:CQ:66:THR:O	38:CQ:66:THR:HG22	2.12	0.50
43:CV:114:PHE:CD2	43:CV:115:ARG:O	2.65	0.50
43:CV:132:THR:CG2	43:CV:227:ARG:HG3	2.42	0.50
44:CW:54:LEU:HA	44:CW:94:HIS:HB2	1.92	0.50
44:CW:14:ASN:HD21	44:CW:69:ARG:CZ	2.25	0.50
1:D1:1397:G:C2'	1:D1:1398:G:H5'	2.42	0.50
27:CF:128:GLY:CA	1:D1:146:U:O2'	2.53	0.50
1:D1:1693:U:H2'	1:D1:1694:C:H6	1.75	0.50
1:D1:1868:C:O2	2:DA:9:GLY:HA2	2.12	0.50
1:D1:2251:A:H1'	46:EY:74:PRO:CG	2.41	0.50
1:D1:436:U:H6	1:D1:436:U:O5'	1.95	0.50
1:D1:512:G:N1	1:D1:513:G:C5	2.80	0.50
1:D1:713:G:H2'	1:D1:715:A:N7	2.27	0.50
1:D1:76:U:H2'	1:D1:77:A:H5'	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1869:G:H4'	2:DA:8:PHE:HD2	1.77	0.50
2:DA:14:LYS:HZ3	3:DB:52:TYR:HE1	1.58	0.50
8:DH:9:VAL:CG1	8:DH:10:ALA:N	2.71	0.50
9:DJ:119:PRO:CG	9:DJ:146:VAL:HG12	2.42	0.50
18:DU:31:LYS:O	18:DU:34:LEU:HB2	2.11	0.50
26:CE:4:LEU:HD11	19:DX:163:PHE:HD1	1.77	0.50
19:DX:34:THR:HG22	19:DX:35:LYS:N	2.26	0.50
20:E2:45:G:C2'	20:E2:46:A:H5'	2.42	0.50
20:E2:82:A:O2'	42:EU:50:ILE:HD11	2.11	0.50
21:E3:47:C:O2'	34:EM:227:GLN:NE2	2.44	0.50
22:EA:203:VAL:HA	22:EA:213:GLY:HA2	1.93	0.50
22:EA:45:CYS:O	22:EA:62:VAL:HA	2.11	0.50
24:EC:105:ARG:NE	1:F1:958:A:C6	2.80	0.50
24:EC:81:ILE:HG12	24:EC:82:PRO:HD2	1.93	0.50
21:E3:43:A:P	25:ED:137:ARG:HH11	2.35	0.50
28:EG:58:UNK:HB1	28:EG:61:UNK:HG2	1.93	0.50
30:EI:132:ARG:HH12	1:F1:1216:C:C2'	2.23	0.50
30:EI:6:VAL:HG23	30:EI:30:GLN:HE21	1.75	0.50
32:EK:145:CYS:HB2	18:FU:177:VAL:HG21	1.92	0.50
33:EL:118:SER:HB3	33:EL:132:VAL:HG22	1.92	0.50
40:ES:118:LEU:HD23	40:ES:118:LEU:N	2.26	0.50
43:EV:200:TRP:CD2	43:EV:201:PRO:HD2	2.46	0.50
43:EV:223:ASP:N	43:EV:223:ASP:OD1	2.44	0.50
1:F1:1096:G:C2'	1:F1:1097:G:H5''	2.35	0.50
1:F1:1185:A:H3'	1:F1:1186:A:H5''	1.89	0.50
1:F1:1740:U:C5'	1:F1:1741:U:OP1	2.60	0.50
1:F1:2277:U:HO2'	1:F1:2278:G:P	2.34	0.50
1:F1:2715:C:H3'	1:F1:2717:G:H21	1.77	0.50
1:F1:585:A:C6	1:F1:586:A:C6	3.00	0.50
45:EX:29:LYS:HD3	1:F1:679:C:OP2	2.12	0.50
2:FA:26:THR:HB	2:FA:34:CYS:SG	2.51	0.50
6:FF:17:TYR:HD1	6:FF:17:TYR:O	1.95	0.50
1:F1:1737:A:H62	7:FG:28:LYS:HD2	1.77	0.50
20:G2:76:U:O4'	20:G2:76:U:O2	2.29	0.50
23:GB:252:ALA:HB1	1:H1:2931:G:O2'	2.11	0.50
23:GB:267:GLN:HG3	23:GB:268:LEU:N	2.25	0.50
23:GB:220:LYS:HG2	23:GB:329:PRO:CD	2.41	0.50
23:GB:40:LYS:HB3	23:GB:41:PRO:HD2	1.92	0.50
23:GB:62:ARG:NH1	23:GB:62:ARG:HG3	2.12	0.50
24:GC:126:ARG:CB	24:GC:283:TYR:CE2	2.94	0.50
27:GF:101:LYS:O	27:GF:105:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:GJ:32:ASN:HD21	31:GJ:117:GLN:H	1.60	0.50
32:GK:116:GLY:O	32:GK:137:ARG:NH1	2.45	0.50
32:GK:50:TRP:HD1	35:GN:156:PRO:HD2	1.77	0.50
33:GL:13:LYS:NZ	16:HQ:46:ARG:HA	2.26	0.50
33:GL:180:ARG:NH2	1:H1:301:A:H4'	2.26	0.50
36:GO:132:TYR:CD2	36:GO:138:LEU:HA	2.47	0.50
37:GP:53:PRO:HD3	37:GP:95:HIS:ND1	2.27	0.50
42:GU:90:ARG:HG2	42:GU:94:ARG:HE	1.76	0.50
46:GY:72:THR:HG22	46:GY:77:VAL:CG2	2.42	0.50
1:H1:1005:A:O2'	1:H1:1006:C:C5'	2.60	0.50
1:H1:1088:A:H5''	1:H1:1089:G:H5'	1.93	0.50
1:H1:1115:U:H2'	1:H1:1116:C:C6	2.47	0.50
1:H1:1123:A:H1'	1:H1:1124:G:OP1	2.11	0.50
1:H1:1165:U:H2'	1:H1:1166:G:H5''	1.94	0.50
1:H1:1254:C:H3'	1:H1:1255:A:H5''	1.93	0.50
1:H1:161:U:C2'	1:H1:162:C:H5''	2.40	0.50
1:H1:1740:U:H5''	1:H1:1741:U:OP1	2.12	0.50
1:H1:184:C:H2'	1:H1:185:A:H8	1.76	0.50
1:H1:2305:U:O5'	1:H1:2305:U:H6	1.94	0.50
1:H1:2550:U:C5'	1:H1:2551:A:O5'	2.58	0.50
1:H1:280:G:H2'	1:H1:281:G:O5'	2.11	0.50
1:H1:3029:A:H2'	1:H1:3030:A:C8	2.47	0.50
1:H1:3177:G:N2	19:HX:177:TYR:CE2	2.80	0.50
1:H1:334:G:H2'	1:H1:335:A:O4'	2.12	0.50
1:H1:347:A:H1'	1:H1:351:A:N3	2.27	0.50
1:H1:434:A:C5'	1:H1:435:A:OP1	2.58	0.50
32:GK:46:LEU:HD21	18:HU:2:LYS:O	2.12	0.50
21:G3:93:G:H4'	19:HX:96:GLN:OE1	2.12	0.50
1:A1:1379:G:N2	5:AE:22:ASP:OD2	2.45	0.49
1:A1:146:U:C4'	1:A1:147:U:O5'	2.54	0.49
1:A1:1549:U:H5''	1:A1:1632:U:O2	2.12	0.49
1:A1:1626:U:OP2	36:BO:42:ARG:NH2	2.45	0.49
1:A1:2132:U:H2'	1:A1:2138:A:N6	2.27	0.49
1:A1:2640:G:OP1	1:A1:2641:U:H1'	2.12	0.49
1:A1:2873:C:N4	1:A1:2874:U:O4	2.45	0.49
1:A1:2879:U:O2'	1:A1:3003:U:H5'	2.12	0.49
1:A1:512:G:O2'	1:A1:513:G:H5'	2.11	0.49
1:A1:566:U:C5	1:A1:567:C:C5	3.00	0.49
1:A1:613:U:H2'	1:A1:614:G:H8	1.77	0.49
11:AL:20:VAL:HG12	11:AL:21:ARG:N	2.26	0.49
12:AM:75:LYS:O	12:AM:105:TYR:HE2	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:17:PHE:CD1	12:AM:75:LYS:HB3	2.47	0.49
16:AQ:83:THR:HG22	16:AQ:85:ARG:HB3	1.93	0.49
19:AX:55:PHE:CZ	19:AX:59:MET:HE3	2.47	0.49
1:A1:2381:A:O2'	20:B2:6:A:N1	2.38	0.49
22:BA:210:HIS:CD2	22:BA:211:PRO:HD2	2.47	0.49
22:BA:253:GLU:OE2	22:GA:252:LYS:HB3	2.11	0.49
22:BA:31:ARG:HH12	22:BA:42:ILE:HG12	1.77	0.49
23:BB:46:PHE:CZ	23:BB:84:MET:HG3	2.47	0.49
24:BC:202:ARG:O	24:BC:203:ASN:HB2	2.11	0.49
24:BC:214:VAL:HG12	24:BC:257:ILE:HB	1.94	0.49
38:BQ:77:GLU:HB2	38:BQ:78:PHE:CE2	2.47	0.49
18:AU:148:ASN:ND2	42:BU:122:LEU:O	2.45	0.49
22:CA:84:TYR:CE2	22:CA:87:GLN:HA	2.47	0.49
24:CC:19:THR:CG2	24:CC:20:ALA:N	2.75	0.49
25:CD:16:LYS:HB3	25:CD:72:ARG:HE	1.76	0.49
33:CL:53:TYR:O	33:CL:54:LYS:HG2	2.12	0.49
34:CM:39:GLN:HG2	34:CM:40:ASP:N	2.25	0.49
34:CM:88:VAL:HG12	34:CM:246:LEU:HD21	1.94	0.49
43:CV:105:LEU:CD1	43:CV:131:ILE:HD13	2.42	0.49
1:D1:1008:C:O3'	17:DT:23:LYS:NZ	2.42	0.49
1:D1:1146:C:H42	17:DT:10:LYS:HZ1	1.58	0.49
1:D1:1524:A:H2'	1:D1:1525:U:C6	2.46	0.49
1:D1:855:A:O2'	1:D1:1890:C:H2'	2.12	0.49
1:D1:213:A:H61	1:D1:227:G:C2'	2.22	0.49
1:D1:2254:A:O2'	1:D1:2255:U:C5'	2.61	0.49
1:D1:2274:A:H5'	1:D1:2300:G:N2	2.27	0.49
39:CR:35:VAL:CG1	1:D1:2518:A:H3'	2.41	0.49
1:D1:2536:A:H2'	1:D1:2537:C:H6	1.75	0.49
1:D1:2736:A:H2'	1:D1:2737:A:C8	2.47	0.49
1:D1:467:A:C6	1:D1:512:G:N3	2.79	0.49
1:D1:541:A:O2'	1:D1:542:C:H5'	2.12	0.49
1:D1:613:U:H2'	1:D1:614:G:H8	1.77	0.49
5:DE:179:THR:HA	8:DH:12:THR:HG23	1.92	0.49
15:DP:61:ALA:O	15:DP:65:LYS:HG3	2.12	0.49
16:DQ:5:GLN:O	16:DQ:12:GLY:HA3	2.12	0.49
20:E2:20:A:H1'	1:F1:404:A:C2	2.47	0.49
20:E2:73:G:O2'	20:E2:88:G:N2	2.45	0.49
23:EB:210:ASN:ND2	23:EB:352:ILE:N	2.54	0.49
24:EC:27:ALA:O	24:EC:30:THR:HB	2.11	0.49
26:EE:91:LYS:HG2	26:EE:180:SER:CB	2.40	0.49
29:EH:151:ALA:HA	29:EH:154:ARG:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:EI:141:SER:HB3	30:EI:146:TRP:HB3	1.93	0.49
30:EI:184:PRO:HA	30:EI:187:LYS:HD3	1.93	0.49
33:EL:93:LYS:HE3	1:F1:275:U:O2	2.12	0.49
34:EM:56:THR:CG2	34:EM:57:ASN:N	2.75	0.49
35:EN:155:ALA:CB	35:EN:158:GLN:NE2	2.65	0.49
35:EN:2:ALA:HB3	1:F1:1186:A:OP1	2.12	0.49
32:EK:119:PRO:HG3	35:EN:94:LEU:HD13	1.93	0.49
36:EO:6:LEU:HD11	36:EO:10:LEU:HD11	1.93	0.49
38:EQ:76:HIS:C	38:EQ:78:PHE:H	2.16	0.49
43:EV:7:GLU:O	43:EV:11:LYS:HG3	2.12	0.49
43:EV:207:PRO:HG3	43:EV:211:PHE:CE1	2.46	0.49
1:F1:1061:G:C4	1:F1:1062:A:C8	3.00	0.49
1:F1:114:A:O5'	16:FQ:37:ARG:NH2	2.45	0.49
1:F1:10:A:H2'	1:F1:11:A:H8	1.77	0.49
1:F1:135:A:H2'	1:F1:242:G:N7	2.27	0.49
1:F1:1376:A:C5'	1:F1:1377:A:O4'	2.57	0.49
1:F1:1446:C:C6	1:F1:1446:C:C5'	2.90	0.49
1:F1:1646:G:C2'	1:F1:1647:U:H5'	2.42	0.49
1:F1:1870:C:H5'	1:F1:1873:C:N4	2.27	0.49
1:F1:2146:G:H2'	1:F1:2147:C:H5'	1.94	0.49
1:F1:2301:C:O2	1:F1:2301:C:C2'	2.59	0.49
1:F1:236:G:H2'	1:F1:237:A:C8	2.48	0.49
1:F1:269:U:H2'	1:F1:270:C:C6	2.45	0.49
1:F1:3101:G:C2	1:F1:3110:U:C5	2.99	0.49
1:F1:415:A:H4'	1:F1:653:C:O3'	2.11	0.49
1:F1:459:G:H5''	1:F1:460:A:OP2	2.12	0.49
1:F1:512:G:O2'	1:F1:513:G:H5'	2.12	0.49
1:F1:442:G:N2	1:F1:536:A:C4	2.80	0.49
1:F1:613:U:H2'	1:F1:614:G:H8	1.77	0.49
20:E2:114:G:N2	3:FB:11:LYS:NZ	2.60	0.49
6:FF:56:THR:O	6:FF:57:LYS:CG	2.44	0.49
17:FT:36:ASN:O	17:FT:40:LEU:HG	2.12	0.49
1:F1:1104:C:C6	17:FT:42:ASN:OD1	2.65	0.49
21:G3:27:A:H5''	34:GM:57:ASN:ND2	2.23	0.49
23:GB:140:LYS:O	23:GB:144:LEU:HG	2.10	0.49
23:GB:363:ILE:O	23:GB:363:ILE:HG22	2.12	0.49
24:GC:195:ARG:HH11	24:GC:204:ARG:CB	2.25	0.49
26:GE:124:ILE:HD11	26:GE:162:SER:OG	2.12	0.49
28:GG:60:UNK:CG	1:H1:1249:G:C8	2.95	0.49
29:GH:48:TYR:O	29:GH:139:ARG:HA	2.12	0.49
31:GJ:131:PRO:HB2	9:HJ:15:VAL:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:GL:22:ILE:O	33:GL:26:ARG:HG3	2.12	0.49
34:GM:106:ALA:CA	34:GM:171:ILE:HD11	2.35	0.49
24:GC:311:ALA:CB	35:GN:40:ARG:HH21	2.25	0.49
38:GQ:66:THR:O	38:GQ:66:THR:HG22	2.11	0.49
38:GQ:60:ILE:HD11	38:GQ:90:VAL:HG22	1.94	0.49
40:GS:57:ILE:HG22	40:GS:63:LYS:HA	1.94	0.49
41:GT:11:CYS:SG	41:GT:13:TYR:HD2	2.34	0.49
1:H1:1017:U:C6	1:H1:1017:U:C3'	2.95	0.49
1:H1:1128:G:H2'	1:H1:1129:C:C6	2.47	0.49
1:H1:2703:G:H2'	1:H1:2740:G:N2	2.24	0.49
1:H1:283:A:H4'	1:H1:283:A:OP2	2.12	0.49
1:H1:3204:A:H1'	1:H1:3207:A:H5''	1.93	0.49
1:H1:3268:C:C4	1:H1:3269:G:C5	3.00	0.49
1:H1:443:G:H2'	1:H1:444:A:C8	2.47	0.49
1:H1:512:G:O2'	1:H1:513:G:H5'	2.12	0.49
1:H1:592:A:H2'	1:H1:593:U:H6	1.77	0.49
2:HA:65:MET:HE2	2:HA:68:MET:HG3	1.92	0.49
7:HG:49:PRO:HG2	7:HG:52:ARG:HB2	1.93	0.49
8:HH:58:TYR:CE2	8:HH:60:TYR:HD2	2.30	0.49
11:HL:39:VAL:HG11	11:HL:60:ARG:HA	1.93	0.49
18:HU:132:LYS:HA	18:HU:135:LEU:CD1	2.37	0.49
32:GK:51:HIS:CE1	18:HU:6:GLN:HA	2.39	0.49
19:HX:96:GLN:N	19:HX:134:THR:CG2	2.75	0.49
1:A1:1044:G:H2'	1:A1:1045:G:H8	1.77	0.49
1:A1:1115:U:H2'	1:A1:1116:C:C6	2.47	0.49
1:A1:1185:A:H5'	43:BV:108:LEU:HD11	1.94	0.49
1:A1:1488:A:O2'	1:A1:1489:U:H5'	2.12	0.49
1:A1:1592:G:H2'	1:A1:1593:A:H8	1.75	0.49
1:A1:1952:G:P	46:BY:12:ARG:HH12	2.35	0.49
1:A1:2661:G:O3'	25:BD:94:LYS:O	2.29	0.49
1:A1:2898:A:N7	50:A1:4292:HOH:O	2.35	0.49
1:A1:2899:C:H5''	50:A1:4436:HOH:O	2.11	0.49
1:A1:2958:C:O3'	1:A1:2959:A:C8	2.64	0.49
1:A1:310:U:H3	1:A1:2766:A:H61	1.59	0.49
1:A1:3325:G:N2	23:BB:378:PHE:CD1	2.79	0.49
1:A1:358:C:H4'	1:A1:842:A:H61	1.77	0.49
1:A1:607:U:C2'	1:A1:608:C:H5'	2.42	0.49
1:A1:777:C:H2'	1:A1:778:G:H8	1.77	0.49
2:AA:28:HIS:O	2:AA:32:LEU:N	2.45	0.49
2:AA:80:ARG:NH1	20:B2:96:A:C6	2.80	0.49
5:AE:67:LYS:HD2	5:AE:109:THR:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:28:VAL:HG12	6:AF:66:ASN:N	2.25	0.49
7:AG:83:LYS:HD2	7:AG:85:HIS:CE1	2.47	0.49
13:AN:53:VAL:HG11	13:AN:62:ILE:HG23	1.94	0.49
1:A1:519:A:H5''	14:AO:89:ARG:NH1	2.28	0.49
16:AQ:7:VAL:O	16:AQ:7:VAL:CG1	2.60	0.49
22:BA:103:LEU:HB2	22:BA:108:ILE:HD11	1.94	0.49
23:BB:40:LYS:HB3	23:BB:41:PRO:HD2	1.93	0.49
24:BC:19:THR:CG2	24:BC:20:ALA:N	2.75	0.49
24:BC:258:TRP:CZ3	24:BC:266:LEU:HD11	2.47	0.49
27:BF:134:THR:HG22	27:BF:138:ASN:ND2	2.27	0.49
27:BF:50:TYR:CD1	27:BF:51:ILE:HG23	2.46	0.49
29:BH:190:LEU:HD22	29:BH:197:VAL:HG11	1.92	0.49
35:BN:87:VAL:HG23	35:BN:103:ALA:CB	2.42	0.49
43:BV:84:ILE:O	43:BV:131:ILE:HG23	2.12	0.49
45:BX:3:ILE:HG22	45:BX:3:ILE:O	2.12	0.49
24:CC:166:TYR:HD1	24:CC:171:GLN:CG	2.26	0.49
24:CC:276:THR:HG22	24:CC:277:GLY:N	2.26	0.49
24:CC:289:LEU:HD12	35:CN:24:ASN:ND2	2.26	0.49
26:CE:124:ILE:HD11	26:CE:162:SER:OG	2.11	0.49
29:CH:183:ARG:O	29:CH:187:GLN:HG3	2.12	0.49
30:CI:109:THR:O	30:CI:110:PRO:C	2.50	0.49
30:CI:9:ASP:O	30:CI:13:HIS:CD2	2.64	0.49
23:CB:66:ARG:CZ	31:CJ:15:ALA:HB2	2.41	0.49
32:CK:122:PRO:CB	32:CK:142:GLY:O	2.60	0.49
34:CM:160:PHE:HA	34:CM:163:LEU:HB2	1.93	0.49
34:CM:175:HIS:CD2	34:CM:180:PHE:CE2	2.96	0.49
40:CS:50:ARG:HB2	40:CS:114:ARG:NH2	2.28	0.49
42:CU:92:ILE:HA	42:CU:95:LYS:HE2	1.93	0.49
43:CV:142:SER:HG	43:CV:146:TYR:HE2	1.59	0.49
1:D1:1376:A:C5'	1:D1:1377:A:O4'	2.57	0.49
1:D1:1393:A:C2	1:D1:1394:G:C4	3.00	0.49
1:D1:1658:G:P	13:DN:107:LYS:NZ	2.84	0.49
1:D1:1731:G:H21	11:DL:54:ASN:HD21	1.58	0.49
1:D1:1745:U:C2	1:D1:1748:U:C5	2.99	0.49
1:D1:209:A:H4'	1:D1:211:A:C8	2.48	0.49
1:D1:2155:C:C3'	1:D1:2156:G:H5'	2.42	0.49
1:D1:2395:G:N7	1:D1:2396:A:N6	2.60	0.49
33:CL:188:ARG:NH2	1:D1:278:U:O2'	2.43	0.49
1:D1:2906:G:C8	1:D1:2906:G:H5''	2.47	0.49
1:D1:2990:U:O2'	1:D1:2991:U:H5'	2.13	0.49
1:D1:3305:A:C2	1:D1:3315:A:C2	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:339:C:P	50:D1:3881:HOH:O	2.58	0.49
1:D1:621:G:C6	1:D1:622:G:N1	2.80	0.49
22:CA:9:ARG:HD3	1:D1:936:C:OP2	2.11	0.49
9:DJ:197:LEU:HD12	9:DJ:205:PHE:O	2.11	0.49
13:DN:91:CYS:SG	13:DN:96:LEU:HD12	2.51	0.49
14:DO:40:LEU:HD22	14:DO:42:PHE:HE1	1.76	0.49
20:E2:100:C:H5'	20:E2:101:U:OP1	2.11	0.49
23:EB:267:GLN:HG3	23:EB:268:LEU:N	2.27	0.49
24:EC:303:GLU:CD	24:EC:303:GLU:H	2.13	0.49
29:EH:166:VAL:HG12	29:EH:167:THR:N	2.27	0.49
30:EI:129:ARG:NH2	1:F1:1343:G:N2	2.60	0.49
32:EK:127:ALA:HB3	32:EK:130:PHE:CZ	2.47	0.49
33:EL:142:ILE:HG23	33:EL:148:ILE:HG22	1.93	0.49
34:EM:166:ALA:HB1	34:EM:173:ILE:HD11	1.94	0.49
35:EN:73:ASN:N	35:EN:76:ASN:HB2	2.18	0.49
36:EO:28:GLU:HB3	36:EO:49:LEU:HD13	1.93	0.49
37:EP:76:VAL:HG12	37:EP:77:HIS:N	2.27	0.49
40:ES:57:ILE:HG22	40:ES:63:LYS:HA	1.95	0.49
43:EV:142:SER:HG	43:EV:146:TYR:HE2	1.59	0.49
43:EV:213:ASN:HD22	43:EV:216:HIS:CD2	2.30	0.49
33:EL:5:LYS:HB2	1:F1:114:A:OP2	2.13	0.49
1:F1:1166:G:N2	1:F1:1167:G:H1'	2.27	0.49
27:EF:121:LYS:HD3	1:F1:118:A:N7	2.26	0.49
1:F1:1249:G:H2'	1:F1:1312:G:H22	1.78	0.49
45:EX:62:ASP:CB	1:F1:1365:C:O3'	2.57	0.49
44:EW:50:ILE:O	1:F1:1486:A:H5'	2.12	0.49
1:F1:170:A:C5	1:F1:250:U:C4	3.01	0.49
1:F1:2391:G:H5'	1:F1:2392:A:C5'	2.42	0.49
1:F1:2533:C:H2'	1:F1:2533:C:O2	2.11	0.49
1:F1:2550:U:C5'	1:F1:2551:A:O5'	2.60	0.49
27:EF:232:GLN:OE1	1:F1:2573:U:H1'	2.12	0.49
1:F1:2276:A:C6	1:F1:2947:C:H1'	2.47	0.49
1:F1:3044:A:H5'	1:F1:3045:A:OP2	2.11	0.49
1:F1:3070:C:H2'	1:F1:3071:C:C6	2.47	0.49
1:F1:3083:A:H2'	1:F1:3084:U:H6	1.76	0.49
1:F1:3228:U:C4	5:FE:146:LYS:HG3	2.47	0.49
30:EI:196:PHE:CZ	6:FF:110:ARG:HB2	2.47	0.49
9:FJ:211:THR:OG1	9:FJ:214:GLU:HG3	2.13	0.49
9:FJ:59:VAL:HG23	9:FJ:60:GLY:N	2.27	0.49
1:F1:510:A:C5'	14:FO:68:HIS:O	2.60	0.49
15:FP:53:PHE:HE1	15:FP:55:THR:HG22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:269:ILE:HG22	24:GC:270:PHE:CD1	2.46	0.49
25:GD:37:LEU:HD13	25:GD:69:VAL:CG2	2.42	0.49
25:GD:93:LYS:HE2	25:GD:156:LYS:NZ	2.27	0.49
27:GF:153:ILE:O	27:GF:157:ILE:HG13	2.13	0.49
29:GH:68:ALA:HA	29:GH:158:LYS:HG3	1.93	0.49
30:GI:141:SER:HB3	30:GI:146:TRP:HB3	1.93	0.49
35:GN:77:LYS:HE2	35:GN:98:LYS:HE2	1.94	0.49
36:GO:106:LEU:HB3	36:GO:120:TYR:HE1	1.76	0.49
37:GP:57:TYR:OH	37:GP:87:LYS:HD2	2.12	0.49
39:GR:56:ARG:HB3	39:GR:61:VAL:CG2	2.42	0.49
42:GU:122:LEU:HD13	18:HU:150:LEU:CD2	2.42	0.49
43:GV:138:ARG:HB3	43:GV:186:THR:HG21	1.93	0.49
44:GW:10:ASP:OD1	44:GW:73:ARG:CG	2.58	0.49
45:GX:59:PHE:CE1	1:H1:1189:U:H4'	2.47	0.49
46:GY:12:ARG:HG2	1:H1:861:A:O4'	2.12	0.49
1:H1:1207:A:C4	1:H1:1209:G:C8	2.99	0.49
1:H1:1600:U:H2'	1:H1:1601:U:O4'	2.12	0.49
1:H1:1621:G:H2'	1:H1:1622:A:C8	2.48	0.49
1:H1:1656:G:C6	1:H1:1657:C:C4	3.00	0.49
1:H1:2276:A:N6	1:H1:2947:C:O2'	2.45	0.49
1:H1:2368:A:H4'	50:H1:3737:HOH:O	2.11	0.49
22:GA:41:TYR:OH	1:H1:2541:U:H2'	2.11	0.49
1:H1:424:G:C2'	1:H1:425:U:H5'	2.42	0.49
1:H1:621:G:N2	1:H1:634:G:H5''	2.27	0.49
9:HJ:58:ILE:HG13	9:HJ:62:VAL:HG21	1.93	0.49
13:HN:36:ARG:NH1	13:HN:74:TYR:CD1	2.76	0.49
14:HO:40:LEU:HD22	14:HO:42:PHE:HE1	1.77	0.49
15:HP:53:PHE:HE1	15:HP:55:THR:HG22	1.77	0.49
16:HQ:15:THR:OG1	18:HU:103:CYS:SG	2.44	0.49
19:HX:16:MET:HE1	19:HX:121:ILE:HD12	1.93	0.49
19:HX:42:ARG:NE	19:HX:44:PHE:HE1	2.09	0.49
19:HX:25:ALA:CB	19:HX:71:ARG:O	2.58	0.49
1:A1:1060:C:C4	1:A1:1061:G:N7	2.81	0.49
1:A1:1255:A:C2	1:A1:1309:G:C6	3.00	0.49
1:A1:1519:G:C2	3:AB:13:PHE:CE1	3.00	0.49
1:A1:1740:U:C5'	1:A1:1741:U:OP1	2.60	0.49
1:A1:2300:G:C8	1:A1:2300:G:O5'	2.65	0.49
1:A1:2536:A:H2'	1:A1:2537:C:H6	1.77	0.49
1:A1:2658:U:H2'	1:A1:2659:G:C8	2.47	0.49
1:A1:2669:A:N3	25:BD:59:ILE:HD11	2.27	0.49
1:A1:2665:G:C5	1:A1:2669:A:N6	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3176:A:C4'	1:A1:3177:G:O5'	2.59	0.49
1:A1:3179:U:H2'	1:A1:3180:C:H6	1.78	0.49
1:A1:541:A:O2'	1:A1:542:C:H5'	2.12	0.49
1:A1:548:G:C2	1:A1:635:A:C2	2.99	0.49
1:A1:661:C:C2	1:A1:662:C:C5	3.00	0.49
1:A1:687:C:H2'	1:A1:688:U:H6	1.76	0.49
1:A1:68:A:H1'	1:A1:70:C:N4	2.27	0.49
1:A1:738:U:O2'	1:A1:739:G:H5'	2.12	0.49
4:AC:95:THR:O	4:AC:99:LYS:HG3	2.12	0.49
5:AE:49:THR:CG2	5:AE:50:VAL:N	2.75	0.49
8:AH:11:PRO:CG	8:AH:12:THR:N	2.75	0.49
8:AH:52:GLN:O	8:AH:77:ILE:O	2.30	0.49
1:A1:615:G:N2	8:AH:79:LYS:CE	2.69	0.49
9:AJ:43:VAL:CG1	9:AJ:44:PRO:N	2.75	0.49
13:AN:98:LYS:HB2	13:AN:101:LYS:HB2	1.94	0.49
14:AO:94:ILE:CD1	14:AO:111:LEU:HD12	2.42	0.49
17:AT:41:ARG:O	17:AT:45:ARG:HG3	2.12	0.49
22:BA:118:GLU:HG2	22:BA:123:ASP:HB2	1.94	0.49
22:BA:42:ILE:CD1	22:BA:43:ARG:N	2.68	0.49
1:A1:1412:U:O4	24:BC:207:LYS:NZ	2.46	0.49
24:BC:272:THR:O	24:BC:275:THR:O	2.30	0.49
25:BD:25:GLU:O	25:BD:30:LEU:HD11	2.12	0.49
26:BE:167:GLU:O	26:BE:168:LYS:HG2	2.13	0.49
26:BE:84:GLU:HB3	26:BE:185:ALA:O	2.12	0.49
27:BF:127:TYR:CD1	27:BF:185:LYS:NZ	2.72	0.49
27:BF:69:GLN:HG2	27:BF:222:ARG:HH12	1.77	0.49
29:BH:183:ARG:O	29:BH:187:GLN:HG3	2.11	0.49
30:BI:6:VAL:HG23	30:BI:30:GLN:HE21	1.76	0.49
32:BK:76:ASN:HB3	32:BK:78:ASP:OD1	2.12	0.49
34:BM:230:LYS:O	34:BM:234:THR:HB	2.13	0.49
43:BV:98:ARG:HH12	43:BV:101:ARG:NH1	2.10	0.49
43:BV:105:LEU:HD12	43:BV:131:ILE:CD1	2.43	0.49
43:BV:138:ARG:HB3	43:BV:186:THR:HG21	1.94	0.49
43:BV:42:ILE:HG22	43:BV:46:GLN:NE2	2.28	0.49
45:BX:43:ARG:HA	45:BX:48:PHE:CD2	2.48	0.49
1:A1:660:C:C2'	45:BX:43:ARG:HH22	2.25	0.49
1:A1:1951:G:OP1	46:BY:8:VAL:CG2	2.59	0.49
22:CA:175:ARG:HA	46:CY:69:TRP:CZ2	2.47	0.49
23:CB:119:TYR:CE1	1:D1:3255:A:H5''	2.47	0.49
23:CB:26:ARG:HD2	23:CB:177:LEU:CD2	2.42	0.49
24:CC:159:PHE:CZ	24:CC:179:VAL:CG1	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:195:ARG:NH1	24:CC:204:ARG:HB2	2.26	0.49
30:CI:11:LYS:CD	30:CI:36:ARG:NH1	2.75	0.49
33:CL:59:TYR:OH	33:CL:148:ILE:HD13	2.12	0.49
34:CM:240:VAL:HG12	34:CM:242:SER:H	1.77	0.49
47:CO:87:ALA:O	50:CO:202:HOH:O	2.18	0.49
39:CR:61:VAL:O	39:CR:61:VAL:HG23	2.11	0.49
42:CU:80:LYS:HB3	42:CU:81:PRO:HD2	1.95	0.49
43:CV:185:ILE:HA	43:CV:192:PHE:CE1	2.47	0.49
45:CX:75:LYS:NZ	45:CX:97:GLU:OE1	2.45	0.49
1:D1:1055:A:C4	1:D1:1056:A:C8	3.01	0.49
1:D1:1166:G:N2	1:D1:1167:G:H1'	2.27	0.49
47:CO:96:MET:HG2	1:D1:1746:U:C1'	2.42	0.49
1:D1:1752:G:H4'	1:D1:1753:A:OP2	2.11	0.49
1:D1:1782:C:H2'	1:D1:1783:U:H5''	1.93	0.49
1:D1:2256:G:H2'	1:D1:2256:G:P	2.52	0.49
24:CC:80:ARG:NH2	1:D1:2802:G:OP1	2.33	0.49
1:D1:742:U:H4'	1:D1:743:A:OP1	2.10	0.49
1:D1:974:C:H2'	1:D1:975:G:O4'	2.12	0.49
5:DE:134:LEU:HD22	5:DE:138:GLN:OE1	2.11	0.49
5:DE:28:PHE:C	5:DE:28:PHE:CD1	2.86	0.49
5:DE:67:LYS:HB2	5:DE:109:THR:HG21	1.94	0.49
1:D1:3177:G:C2	19:DX:177:TYR:CE2	3.00	0.49
19:DX:23:VAL:HG22	19:DX:75:VAL:HG22	1.95	0.49
21:C3:93:G:H4'	19:DX:96:GLN:NE2	2.28	0.49
21:E3:120:U:OP2	34:EM:270:PRO:CB	2.60	0.49
23:EB:33:PRO:HA	23:EB:340:ILE:HA	1.93	0.49
23:EB:301:LYS:HD3	23:EB:359:THR:HG23	1.92	0.49
27:EF:153:ILE:O	27:EF:157:ILE:HG13	2.11	0.49
29:EH:22:TYR:CZ	1:F1:1074:A:H2'	2.48	0.49
29:EH:99:ILE:HG22	29:EH:123:LEU:HB2	1.94	0.49
32:EK:74:VAL:HG11	32:EK:113:LEU:CD1	2.42	0.49
33:EL:55:ASN:HB3	1:F1:145:A:H4'	1.93	0.49
21:E3:10:C:C5	34:EM:20:TYR:HE1	2.29	0.49
34:EM:254:ILE:O	34:EM:258:PRO:HB3	2.12	0.49
46:EY:58:LYS:N	46:EY:59:PRO:HD2	2.27	0.49
1:F1:1005:A:O2'	1:F1:1006:C:C5'	2.61	0.49
1:F1:116:U:H3'	1:F1:117:G:H8	1.78	0.49
1:F1:1600:U:C4	1:F1:1601:U:C5	3.00	0.49
1:F1:1682:G:H2'	1:F1:1683:U:C6	2.48	0.49
1:F1:1711:U:H1'	12:FM:77:TYR:CD2	2.47	0.49
1:F1:1942:C:H5''	1:F1:1942:C:H6	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1570:U:H4'	1:F1:2164:C:O4'	2.11	0.49
1:F1:2275:A:O2'	1:F1:2276:A:P	2.70	0.49
24:EC:77:ALA:N	1:F1:2397:A:OP2	2.45	0.49
1:F1:2736:A:H2'	1:F1:2737:A:C8	2.47	0.49
1:F1:3166:A:H2'	1:F1:3167:U:C6	2.48	0.49
1:F1:3178:U:H5''	6:FF:97:LYS:NZ	2.26	0.49
1:F1:467:A:C6	1:F1:468:A:C4	3.00	0.49
1:F1:476:A:C2	1:F1:500:G:C2	3.00	0.49
1:F1:566:U:C5	1:F1:567:C:C5	3.00	0.49
33:EL:185:ARG:NH1	1:F1:62:G:OP1	2.45	0.49
4:FC:75:CYS:O	4:FC:76:LYS:HB2	2.12	0.49
6:FF:2:VAL:CG1	6:FF:3:PHE:H	2.18	0.49
1:F1:1662:A:H4'	11:FL:76:ARG:NH2	2.28	0.49
13:FN:4:PHE:HB3	13:FN:9:ARG:HH21	1.76	0.49
14:FO:9:VAL:HG12	14:FO:13:ASN:CB	2.42	0.49
19:FX:18:VAL:HG21	19:FX:117:VAL:HG12	1.95	0.49
21:E3:93:G:H4'	19:FX:96:GLN:HE22	1.77	0.49
20:G2:140:U:H2'	20:G2:141:G:O4'	2.12	0.49
23:GB:238:LYS:HE3	1:H1:2332:C:P	2.52	0.49
23:GB:56:ILE:HG22	23:GB:57:LEU:N	2.28	0.49
24:GC:137:ALA:C	24:GC:138:LEU:HD23	2.33	0.49
24:GC:166:TYR:HD1	24:GC:171:GLN:CG	2.25	0.49
25:GD:8:LYS:O	25:GD:11:GLU:HG3	2.12	0.49
26:GE:18:ILE:HG12	26:GE:27:VAL:HG22	1.93	0.49
26:GE:48:PRO:HB3	26:GE:53:VAL:HG22	1.94	0.49
27:GF:136:ILE:HD13	27:GF:163:CYS:SG	2.52	0.49
29:GH:3:ARG:HH12	29:GH:63:GLU:CB	2.24	0.49
32:GK:23:GLY:O	32:GK:24:LYS:O	2.30	0.49
33:GL:115:VAL:HA	33:GL:134:LEU:HD23	1.93	0.49
34:GM:54:ARG:NH1	34:GM:149:GLY:HA3	2.27	0.49
35:GN:4:ASP:O	43:GV:101:ARG:NH2	2.45	0.49
35:GN:87:VAL:HG23	35:GN:103:ALA:CB	2.42	0.49
37:GP:76:VAL:HG12	37:GP:77:HIS:N	2.27	0.49
39:GR:90:MET:HE2	39:GR:92:PHE:HE1	1.77	0.49
1:H1:1226:C:H4'	1:H1:1227:A:O5'	2.08	0.49
1:H1:1519:G:C2	3:HB:13:PHE:CZ	3.00	0.49
1:H1:1773:G:OP1	15:HP:52:THR:HG21	2.12	0.49
1:H1:2559:U:N3	1:H1:2560:U:C5	2.80	0.49
1:H1:2873:C:N4	1:H1:2874:U:O4	2.46	0.49
23:GB:20:ARG:CB	1:H1:2979:A:P	2.99	0.49
1:H1:3085:C:H2'	1:H1:3086:U:C6	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3142:A:H8	1:H1:3142:A:O5'	1.95	0.49
1:H1:373:A:HO2'	1:H1:375:G:H8	1.60	0.49
1:H1:541:A:O2'	1:H1:542:C:H5'	2.12	0.49
1:H1:634:G:H5'	5:HE:30:ARG:NH2	2.27	0.49
1:H1:784:G:C2	1:H1:797:A:N6	2.80	0.49
1:H1:791:C:H4'	1:H1:792:G:O5'	2.10	0.49
1:H1:785:A:H61	1:H1:795:G:H1'	1.76	0.49
32:GK:62:THR:N	1:H1:87:A:OP1	2.38	0.49
5:HE:67:LYS:HB2	5:HE:109:THR:HG21	1.94	0.49
6:HF:11:ARG:HG3	6:HF:12:VAL:N	2.27	0.49
14:HO:108:LEU:O	14:HO:111:LEU:HB2	2.11	0.49
1:A1:1203:C:H5'	30:BI:27:LEU:HD11	1.94	0.49
1:A1:1540:U:C5	1:A1:1865:A:N3	2.81	0.49
1:A1:22:U:H2'	1:A1:23:U:C6	2.47	0.49
1:A1:2348:G:C5	1:A1:2349:C:C5	3.01	0.49
1:A1:2716:A:C2	32:BK:45:ILE:HG12	2.48	0.49
1:A1:2805:A:N6	50:A1:3951:HOH:O	1.84	0.49
1:A1:2934:A:H1'	1:A1:2969:U:C4	2.48	0.49
1:A1:3098:A:C2	1:A1:3115:C:C2	3.00	0.49
1:A1:3214:A:H5''	1:A1:3215:C:H6	1.73	0.49
1:A1:3283:C:H2'	1:A1:3284:G:H8	1.77	0.49
1:A1:3344:U:C2'	1:A1:3344:U:O2	2.59	0.49
1:A1:785:A:H61	1:A1:795:G:H1'	1.78	0.49
1:A1:822:U:OP1	18:AU:1:MET:N	2.38	0.49
1:A1:827:C:H2'	1:A1:828:C:C6	2.47	0.49
11:AL:31:VAL:HG12	11:AL:32:ALA:O	2.12	0.49
13:AN:114:LEU:HD22	13:AN:118:PHE:CE1	2.46	0.49
13:AN:87:VAL:HG12	13:AN:90:LEU:HB2	1.94	0.49
19:AX:20:GLN:HE21	19:AX:42:ARG:HG3	1.77	0.49
23:BB:121:ASN:HD21	23:BB:124:ASN:HB2	1.78	0.49
25:BD:9:MET:O	25:BD:134:PRO:CG	2.60	0.49
30:BI:184:PRO:HA	30:BI:187:LYS:HD3	1.95	0.49
31:BJ:41:ILE:HG13	31:BJ:64:CYS:HA	1.93	0.49
33:BL:139:HIS:CD2	33:BL:141:ALA:HB3	2.48	0.49
35:BN:68:ILE:CG2	35:BN:81:ILE:HD13	2.41	0.49
37:BP:21:THR:HG22	37:BP:21:THR:O	2.12	0.49
41:BT:27:ASP:HB2	41:BT:29:ARG:HG3	1.93	0.49
43:BV:98:ARG:HG2	43:BV:98:ARG:HH11	1.77	0.49
22:CA:236:VAL:O	1:D1:2178:A:O2'	2.30	0.49
23:CB:25:HIS:CD2	23:CB:270:TYR:OH	2.65	0.49
27:CF:138:ASN:O	27:CF:139:LYS:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CJ:23:VAL:CG2	31:CJ:41:ILE:O	2.60	0.49
35:CN:69:VAL:HG21	35:CN:93:LEU:HD11	1.95	0.49
35:CN:73:ASN:N	35:CN:76:ASN:OD1	2.45	0.49
47:CO:146:LYS:HA	47:CO:149:UNK:HB1	1.94	0.49
37:CP:65:PHE:HB3	37:CP:75:ILE:HG13	1.95	0.49
39:CR:94:VAL:HG21	39:CR:130:ALA:HB2	1.94	0.49
20:C2:52:G:H4'	42:CU:36:LYS:NZ	2.27	0.49
42:CU:60:THR:O	42:CU:64:GLU:HG3	2.11	0.49
42:CU:90:ARG:HG2	42:CU:94:ARG:HE	1.78	0.49
43:CV:120:SER:O	43:CV:124:ILE:HG13	2.13	0.49
1:D1:1191:G:O2'	1:D1:1192:A:H5'	2.12	0.49
1:D1:1449:C:OP1	50:D1:4443:HOH:O	2.19	0.49
1:D1:198:A:C6	1:D1:219:A:C6	3.00	0.49
1:D1:2242:G:C2'	1:D1:2243:C:H5'	2.42	0.49
22:CA:71:LYS:NZ	1:D1:2517:G:O6	2.45	0.49
1:D1:2602:U:O2	1:D1:2792:A:C8	2.66	0.49
1:D1:2727:A:O4'	17:DT:37:PRO:HD2	2.12	0.49
1:D1:3005:A:H2'	1:D1:3006:A:H8	1.76	0.49
1:D1:679:C:O2'	1:D1:680:A:H5'	2.12	0.49
1:D1:679:C:H2'	1:D1:680:A:C8	2.47	0.49
1:D1:685:G:OP1	1:D1:685:G:H4'	2.13	0.49
1:D1:791:C:H4'	1:D1:792:G:O5'	2.12	0.49
1:D1:836:U:H2'	1:D1:837:G:H8	1.77	0.49
46:CY:4:ARG:NH2	1:D1:863:G:O6	2.43	0.49
1:D1:866:A:H8	1:D1:866:A:C5'	2.25	0.49
5:DE:190:LYS:HD2	6:DF:101:ALA:O	2.13	0.49
9:DJ:187:ASN:HD21	9:DJ:207:GLY:CA	2.16	0.49
13:DN:23:ALA:CB	13:DN:45:GLY:HA3	2.42	0.49
14:DO:15:PHE:O	14:DO:26:THR:N	2.40	0.49
22:EA:118:GLU:HB2	22:EA:163:CYS:HB3	1.94	0.49
22:EA:41:TYR:CZ	1:F1:2541:U:C2	3.00	0.49
24:EC:157:TYR:CE1	24:EC:159:PHE:CZ	3.00	0.49
24:EC:289:LEU:HD12	35:EN:24:ASN:ND2	2.28	0.49
29:EH:183:ARG:O	29:EH:187:GLN:HG3	2.12	0.49
29:EH:46:PHE:HZ	29:EH:83:ASP:O	1.94	0.49
47:CO:175:UNK:C	29:EH:83:ASP:HB3	2.42	0.49
30:EI:21:TYR:HE2	30:EI:121:ASP:HB3	1.77	0.49
34:EM:98:ALA:HB1	34:EM:162:VAL:HG23	1.94	0.49
35:EN:63:LEU:O	35:EN:87:VAL:HA	2.12	0.49
36:EO:132:TYR:CD2	36:EO:138:LEU:HA	2.47	0.49
39:ER:56:ARG:HB3	39:ER:61:VAL:CG2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:ES:120:ARG:O	40:ES:123:ALA:HB3	2.13	0.49
43:EV:84:ILE:HD12	43:EV:234:LEU:CD2	2.41	0.49
43:EV:93:HIS:CG	43:EV:94:PRO:HD2	2.47	0.49
45:EX:45:ARG:HA	45:EX:54:MET:CE	2.43	0.49
1:F1:1017:U:C6	1:F1:1017:U:C3'	2.96	0.49
1:F1:1146:C:N4	17:FT:10:LYS:HZ3	2.10	0.49
1:F1:1352:U:H2'	1:F1:1353:G:C8	2.47	0.49
1:F1:1519:G:C2	3:FB:13:PHE:CZ	3.00	0.49
22:EA:70:TYR:CD2	1:F1:1674:C:C4'	2.92	0.49
1:F1:2208:A:H2'	1:F1:2209:A:C8	2.47	0.49
1:F1:2434:A:C2	1:F1:2504:U:C2	3.01	0.49
25:ED:59:ILE:CD1	1:F1:2669:A:N3	2.75	0.49
26:EE:42:SER:O	1:F1:3168:A:N3	2.46	0.49
1:F1:474:G:H2'	1:F1:475:C:H6	1.77	0.49
1:F1:591:G:C2'	1:F1:592:A:O5'	2.61	0.49
1:F1:707:A:P	50:F1:4488:HOH:O	2.66	0.49
1:F1:785:A:N6	1:F1:795:G:H1'	2.27	0.49
1:F1:820:G:O2'	1:F1:821:U:H5''	2.11	0.49
1:F1:94:A:C2	1:F1:95:U:C6	3.00	0.49
8:FH:13:ARG:CG	8:FH:15:TRP:CZ3	2.95	0.49
8:FH:58:TYR:CE2	8:FH:60:TYR:HD2	2.30	0.49
8:FH:91:PHE:CD1	8:FH:91:PHE:N	2.80	0.49
16:FQ:68:LYS:HZ2	16:FQ:72:LYS:HG3	1.77	0.49
32:EK:142:GLY:CA	18:FU:173:ARG:HH22	1.97	0.49
22:GA:34:ASP:O	22:GA:38:ARG:HG2	2.12	0.49
22:GA:86:GLY:HA3	1:H1:2545:A:C4	2.48	0.49
23:GB:55:HIS:N	23:GB:55:HIS:CD2	2.76	0.49
24:GC:175:PHE:CD1	24:GC:175:PHE:C	2.86	0.49
24:GC:173:VAL:O	24:GC:177:LYS:HG3	2.12	0.49
27:GF:89:LEU:HD23	27:GF:193:LEU:HD21	1.93	0.49
30:GI:184:PRO:HA	30:GI:187:LYS:HD3	1.94	0.49
32:GK:74:VAL:HG11	32:GK:113:LEU:CD1	2.42	0.49
32:GK:76:ASN:HB3	32:GK:78:ASP:OD1	2.12	0.49
34:GM:35:ARG:HB2	1:H1:2737:A:H2	1.73	0.49
24:GC:290:LEU:HD22	35:GN:125:ASP:HB3	1.94	0.49
37:GP:59:GLY:HA3	1:H1:1018:A:O2'	2.12	0.49
41:GT:16:TYR:HB3	41:GT:17:PRO:CD	2.42	0.49
35:GN:5:LEU:HD21	43:GV:106:ARG:HD2	1.93	0.49
24:GC:333:LEU:HD13	43:GV:178:VAL:HG21	1.94	0.49
46:GY:42:CYS:SG	46:GY:60:CYS:HB3	2.53	0.49
1:H1:1034:U:H2'	1:H1:1034:U:O2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1035:A:N1	1:H1:1036:G:C6	2.80	0.49
1:H1:1652:U:H5''	1:H1:1655:A:H4'	1.94	0.49
1:H1:169:A:P	1:H1:249:G:H22	2.35	0.49
1:H1:191:U:C2'	1:H1:192:C:H5'	2.42	0.49
1:H1:1944:U:N3	1:H1:1954:A:C2	2.80	0.49
1:H1:2391:G:N7	50:H1:3857:HOH:O	2.35	0.49
20:G2:153:A:H62	1:H1:2:U:H3	1.60	0.49
1:H1:3035:A:C2	1:H1:3036:U:C2	3.00	0.49
1:H1:310:U:H3	1:H1:2766:A:H61	1.59	0.49
1:H1:3098:A:C2	1:H1:3115:C:C2	3.01	0.49
1:H1:3161:A:C2	1:H1:3176:A:C6	3.01	0.49
1:H1:549:G:N1	1:H1:619:G:N2	2.60	0.49
1:H1:685:G:C2'	1:H1:686:U:OP2	2.60	0.49
1:H1:881:G:N1	1:H1:882:G:N2	2.60	0.49
3:HB:12:ARG:O	3:HB:15:ARG:HB3	2.13	0.49
5:HE:135:THR:HB	5:HE:138:GLN:HG3	1.95	0.49
6:HF:15:ILE:HG21	6:HF:20:ASP:HB2	1.95	0.49
7:HG:11:GLN:HG3	7:HG:12:SER:N	2.27	0.49
12:HM:16:GLY:HA2	12:HM:67:VAL:O	2.12	0.49
12:HM:41:SER:O	12:HM:49:LEU:HG	2.13	0.49
15:HP:48:LYS:HE3	15:HP:49:TYR:HE2	1.77	0.49
18:HU:131:ALA:O	18:HU:135:LEU:HD12	2.11	0.49
1:A1:1048:U:H2'	1:A1:1049:U:O4'	2.13	0.49
1:A1:1137:U:H2'	1:A1:1138:U:O4'	2.13	0.49
1:A1:1570:U:H4'	1:A1:2164:C:O4'	2.13	0.49
1:A1:1621:G:H2'	1:A1:1622:A:C8	2.47	0.49
1:A1:1746:U:H1'	36:BO:96:MET:HG2	1.94	0.49
1:A1:1832:G:P	50:A1:4419:HOH:O	2.65	0.49
1:A1:1902:C:H2'	1:A1:1903:A:H5''	1.94	0.49
1:A1:2301:C:O2	1:A1:2301:C:C2'	2.60	0.49
1:A1:2663:A:C5	25:BD:124:GLY:HA3	2.47	0.49
1:A1:3180:C:H2'	1:A1:3181:G:H8	1.78	0.49
1:A1:3181:G:H2'	1:A1:3182:A:H8	1.76	0.49
1:A1:467:A:C6	1:A1:512:G:N3	2.81	0.49
1:A1:358:C:O2'	2:AA:16:HIS:CD2	2.65	0.49
6:AF:26:VAL:CG1	6:AF:27:ILE:N	2.76	0.49
9:AJ:182:CYS:CB	9:AJ:221:ILE:HD12	2.42	0.49
11:AL:59:VAL:HG13	11:AL:63:GLU:OE1	2.12	0.49
1:A1:1382:A:P	14:AO:6:TRP:HE1	2.36	0.49
20:B2:140:U:H2'	20:B2:141:G:O4'	2.12	0.49
20:B2:3:A:C5'	20:B2:4:A:OP2	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B3:109:U:H5''	34:BM:281:LYS:NZ	2.26	0.49
1:A1:2240:C:O4'	22:BA:223:PRO:HA	2.11	0.49
24:BC:27:ALA:HB2	24:BC:272:THR:HG23	1.94	0.49
26:BE:2:ARG:HH12	30:BI:129:ARG:CZ	2.25	0.49
30:BI:141:SER:HB3	30:BI:146:TRP:HB3	1.93	0.49
30:BI:152:ILE:HG22	30:BI:153:GLU:N	2.26	0.49
30:BI:183:ALA:HB1	30:BI:184:PRO:CD	2.41	0.49
33:BL:115:VAL:HA	33:BL:134:LEU:HD23	1.93	0.49
34:BM:120:ALA:O	34:BM:255:ARG:NH1	2.29	0.49
34:BM:166:ALA:HB1	34:BM:173:ILE:HD11	1.95	0.49
41:BT:41:LEU:HD13	41:BT:51:ILE:CD1	2.43	0.49
42:BU:36:LYS:HE3	42:BU:48:ILE:HD12	1.94	0.49
43:BV:196:ASN:O	43:BV:199:LEU:N	2.40	0.49
20:C2:45:G:O6	20:C2:104:G:C2	2.65	0.49
20:C2:134:C:C3'	20:C2:134:C:C6	2.96	0.49
21:C3:33:U:C2	34:CM:212:TYR:HD1	2.28	0.49
22:CA:32:VAL:HA	22:CA:124:ARG:NH1	2.27	0.49
22:CA:3:ARG:HB2	22:CA:208:VAL:HG12	1.94	0.49
23:CB:56:ILE:CG2	23:CB:354:LEU:HD22	2.42	0.49
24:CC:276:THR:CG2	24:CC:282:GLY:HA2	2.43	0.49
24:CC:89:THR:CG2	24:CC:91:ARG:HB3	2.41	0.49
25:CD:69:VAL:HG12	25:CD:71:ILE:HG13	1.94	0.49
27:CF:56:GLN:OE1	27:CF:56:GLN:HA	2.13	0.49
31:CJ:83:ILE:CD1	31:CJ:105:VAL:HG23	2.43	0.49
21:C3:48:G:O2'	34:CM:227:GLN:O	2.22	0.49
24:CC:34:ARG:CZ	35:CN:24:ASN:HB3	2.43	0.49
47:CO:174:UNK:HB2	29:EH:81:SER:HB3	1.95	0.49
37:CP:57:TYR:OH	37:CP:87:LYS:HD2	2.12	0.49
38:CQ:133:ARG:CG	38:CQ:139:ASN:ND2	2.54	0.49
40:CS:66:LYS:HE3	40:CS:106:THR:HG21	1.94	0.49
1:D1:111:C:C2'	1:D1:112:A:H5'	2.43	0.49
1:D1:1137:U:H2'	1:D1:1138:U:O4'	2.13	0.49
1:D1:1247:C:C5'	1:D1:1248:G:H5''	2.35	0.49
1:D1:1695:A:H2'	1:D1:1696:C:C6	2.48	0.49
1:D1:1715:U:H2'	1:D1:1716:U:C6	2.47	0.49
27:CF:43:ARG:NH1	1:D1:2521:A:C6	2.80	0.49
1:D1:2529:G:H2'	1:D1:2530:G:C8	2.47	0.49
25:CD:128:TYR:CE2	1:D1:2672:U:H1'	2.48	0.49
1:D1:2849:U:C2	1:D1:2850:U:C6	2.99	0.49
1:D1:2870:U:H2'	1:D1:2871:U:C6	2.47	0.49
1:D1:3000:A:H4'	1:D1:3001:A:H4'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3035:A:C2	1:D1:3036:U:C2	3.01	0.49
1:D1:339:C:OP1	50:D1:3879:HOH:O	2.19	0.49
20:C2:27:G:H1'	1:D1:348:A:C4	2.48	0.49
43:CV:31:SER:HA	1:D1:628:A:OP1	2.13	0.49
1:D1:651:U:C4	1:D1:652:U:C4	3.01	0.49
1:D1:807:G:O2'	1:D1:808:A:H5'	2.12	0.49
1:D1:813:C:H2'	1:D1:814:U:H6	1.77	0.49
1:D1:875:U:H2'	1:D1:876:C:C6	2.47	0.49
1:D1:876:C:H2'	1:D1:877:U:H6	1.78	0.49
1:D1:882:G:H2'	1:D1:883:A:OP2	2.12	0.49
6:DF:28:VAL:CG1	6:DF:66:ASN:HA	2.43	0.49
6:DF:67:GLN:HE21	6:DF:71:LEU:HB3	1.78	0.49
11:DL:20:VAL:HG12	11:DL:21:ARG:N	2.26	0.49
12:DM:24:PRO:HA	12:DM:109:TYR:OH	2.11	0.49
1:D1:1708:U:OP1	12:DM:88:LYS:HE2	2.13	0.49
18:DU:91:ILE:CG2	18:DU:117:TYR:HE2	2.25	0.49
20:E2:58:U:C2	20:E2:65:C:H5	2.30	0.49
23:EB:10:ARG:NH1	1:F1:2871:U:OP1	2.46	0.49
24:EC:287:ARG:CD	35:EN:111:ARG:NH1	2.76	0.49
36:EO:138:LEU:O	36:EO:142:ILE:HG13	2.12	0.49
39:ER:116:ARG:N	39:ER:133:ARG:O	2.45	0.49
45:EX:84:LEU:HD13	45:EX:113:ARG:HB3	1.94	0.49
46:EY:7:LYS:O	46:EY:27:LYS:NZ	2.36	0.49
1:F1:1059:U:C2'	1:F1:1060:C:H5''	2.36	0.49
1:F1:1533:G:H5''	1:F1:1533:G:H8	1.78	0.49
1:F1:1693:U:H2'	1:F1:1694:C:H6	1.78	0.49
1:F1:1815:G:H2'	1:F1:1816:A:C8	2.47	0.49
1:F1:1902:C:H2'	1:F1:1903:A:H5''	1.95	0.49
1:F1:2408:A:O2'	1:F1:2409:G:H5'	2.12	0.49
23:EB:259:ARG:NH1	1:F1:2871:U:O2'	2.46	0.49
1:F1:3248:C:H2'	1:F1:3249:U:C6	2.48	0.49
1:F1:718:A:C2'	1:F1:719:C:H5'	2.42	0.49
1:F1:790:C:C5'	1:F1:791:C:OP1	2.60	0.49
1:F1:941:G:O6	1:F1:2409:G:O2'	2.27	0.49
3:FB:9:MET:HB3	3:FB:13:PHE:CE2	2.45	0.49
6:FF:15:ILE:O	6:FF:21:LYS:HA	2.12	0.49
7:FG:11:GLN:HG3	7:FG:12:SER:N	2.27	0.49
12:FM:97:VAL:HG22	12:FM:107:LEU:CD2	2.42	0.49
18:FU:121:LEU:HG	18:FU:122:VAL:N	2.28	0.49
19:FX:96:GLN:HB3	19:FX:134:THR:HG21	1.95	0.49
22:GA:31:ARG:HH12	22:GA:42:ILE:CG1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:31:ARG:CB	22:GA:37:GLU:OE2	2.61	0.49
25:GD:155:SER:HB3	25:GD:158:GLU:HG3	1.94	0.49
24:GC:401:GLN:O	29:GH:179:ALA:HB3	2.12	0.49
29:GH:75:ASN:HD21	29:GH:154:ARG:HD2	1.75	0.49
30:GI:109:THR:HG23	30:GI:110:PRO:N	2.28	0.49
31:GJ:58:ILE:HG13	31:GJ:85:GLN:OE1	2.13	0.49
32:GK:22:VAL:HG22	1:H1:666:U:OP1	2.12	0.49
35:GN:31:ILE:CG2	35:GN:35:LYS:HE3	2.41	0.49
36:GO:38:ARG:O	36:GO:41:ILE:HB	2.12	0.49
40:GS:118:LEU:N	40:GS:118:LEU:HD23	2.27	0.49
41:GT:54:THR:HG22	41:GT:55:ILE:N	2.27	0.49
45:GX:113:ARG:O	45:GX:117:LEU:HG	2.12	0.49
1:H1:1052:A:O2'	1:H1:1053:A:O5'	2.30	0.49
1:H1:1113:A:H2'	1:H1:1114:C:C6	2.47	0.49
1:H1:1417:A:H5''	50:H1:4499:HOH:O	2.13	0.49
1:H1:1506:G:N1	1:H1:1896:C:OP2	2.45	0.49
36:GO:42:ARG:HH21	1:H1:1626:U:P	2.35	0.49
1:H1:1808:A:H2'	1:H1:1809:C:H6	1.77	0.49
1:H1:2533:C:O2	1:H1:2533:C:H2'	2.11	0.49
1:H1:2571:U:H2'	1:H1:2572:U:C6	2.47	0.49
1:H1:2584:A:H8	1:H1:2584:A:O5'	1.96	0.49
1:H1:2717:G:C3'	50:H1:4320:HOH:O	2.47	0.49
1:H1:3021:A:C2	1:H1:3022:A:C4	3.00	0.49
1:H1:37:A:C5'	1:H1:38:A:H4'	2.42	0.49
1:H1:399:A:N3	1:H1:400:C:N3	2.60	0.49
1:H1:467:A:C6	1:H1:512:G:N3	2.81	0.49
24:GC:319:ARG:NH2	1:H1:620:A:C8	2.79	0.49
1:H1:790:C:HO2'	1:H1:791:C:H6	1.53	0.49
7:HG:13:LYS:CD	7:HG:100:ILE:HD13	2.42	0.49
8:HH:13:ARG:NE	8:HH:15:TRP:CE2	2.80	0.49
1:H1:165:C:H4'	18:HU:132:LYS:HD2	1.93	0.49
19:HX:151:PRO:O	19:HX:155:ALA:HB2	2.12	0.49
1:A1:1095:C:C2'	1:A1:1095:C:O2	2.60	0.49
1:A1:1153:G:H2'	1:A1:1154:G:O4'	2.13	0.49
1:A1:157:A:O5'	16:AQ:25:HIS:HE1	1.95	0.49
1:A1:1595:A:C6	1:A1:1596:U:H1'	2.48	0.49
1:A1:1845:U:H5'	1:A1:1846:C:OP2	2.12	0.49
1:A1:2132:U:H2'	1:A1:2138:A:H62	1.77	0.49
1:A1:2284:U:O2'	1:A1:2285:C:H5'	2.12	0.49
1:A1:232:C:HO2'	1:A1:233:G:P	2.36	0.49
1:A1:2553:G:C5'	27:BF:22:PHE:O	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2849:U:C2	1:A1:2850:U:C6	3.01	0.49
1:A1:2902:G:O2'	1:A1:2922:A:N1	2.40	0.49
1:A1:3101:G:C2	1:A1:3110:U:C5	3.01	0.49
1:A1:3191:G:H2'	1:A1:3192:C:OP2	2.12	0.49
1:A1:3232:A:H1'	5:AE:94:TYR:CE2	2.47	0.49
1:A1:3268:C:C4	1:A1:3269:G:C5	3.01	0.49
1:A1:404:A:C2	20:B2:20:A:H1'	2.47	0.49
1:A1:87:A:OP1	32:BK:62:THR:N	2.43	0.49
1:A1:2731:C:H4'	4:AC:18:HIS:HD2	1.78	0.49
6:AF:125:SER:O	6:AF:126:LYS:CB	2.59	0.49
8:AH:13:ARG:CG	8:AH:15:TRP:CE3	2.93	0.49
1:A1:1381:G:C5'	14:AO:37:GLN:HG3	2.41	0.49
18:AU:146:ALA:HB2	42:BU:123:LYS:HE2	1.94	0.49
20:B2:95:C:O2'	20:B2:96:A:H8	1.95	0.49
1:A1:2957:A:N7	22:BA:216:ASN:ND2	2.61	0.49
22:BA:30:TYR:OH	22:BA:116:ASN:HB3	2.13	0.49
24:BC:174:ALA:O	24:BC:178:ARG:HG3	2.12	0.49
21:B3:54:A:C2'	25:BD:152:GLN:HE21	2.26	0.49
29:BH:139:ARG:CD	29:BH:173:PHE:HE1	2.24	0.49
34:BM:83:LEU:CB	34:BM:88:VAL:CG2	2.89	0.49
34:BM:17:GLN:HE22	37:BP:22:LYS:N	2.09	0.49
37:BP:42:ILE:HG22	37:BP:60:ARG:O	2.12	0.49
42:BU:102:GLU:O	42:BU:104:VAL:HG23	2.11	0.49
42:BU:90:ARG:HG2	42:BU:94:ARG:HE	1.77	0.49
43:BV:170:LEU:HD11	43:BV:198:PHE:HB2	1.93	0.49
44:BW:14:ASN:HD21	44:BW:69:ARG:CZ	2.26	0.49
21:C3:10:C:C4	34:CM:20:TYR:CD1	3.01	0.49
22:CA:31:ARG:HH12	22:CA:42:ILE:HG12	1.77	0.49
29:CH:36:SER:OG	29:CH:87:LEU:HB3	2.13	0.49
29:CH:41:ALA:HB3	29:CH:139:ARG:HH21	1.75	0.49
34:CM:43:LYS:HG2	1:D1:1105:U:H4'	1.95	0.49
37:CP:42:ILE:HG23	37:CP:57:TYR:O	2.13	0.49
42:CU:102:GLU:O	42:CU:104:VAL:HG23	2.12	0.49
42:CU:89:THR:O	42:CU:93:ARG:HD2	2.12	0.49
1:D1:1004:U:H4'	1:D1:1005:A:OP2	2.09	0.49
1:D1:1146:C:H42	17:DT:10:LYS:HZ3	1.60	0.49
1:D1:1249:G:C2'	1:D1:1250:A:OP2	2.60	0.49
1:D1:1254:C:H3'	1:D1:1255:A:H5''	1.95	0.49
1:D1:1807:C:H2'	1:D1:1808:A:C8	2.47	0.49
1:D1:1942:C:H5''	1:D1:1942:C:H6	1.77	0.49
1:D1:20:G:H5''	2:DA:43:LYS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2101:G:N7	50:D1:4646:HOH:O	2.34	0.49
1:D1:2634:G:H2'	1:D1:2635:C:H5''	1.94	0.49
1:D1:2927:G:O2'	1:D1:2928:A:H5'	2.13	0.49
1:D1:3098:A:C2	1:D1:3115:C:C2	3.01	0.49
1:D1:3214:A:H5''	1:D1:3215:C:H6	1.75	0.49
9:DJ:88:LEU:HG	9:DJ:92:VAL:CG1	2.42	0.49
12:DM:41:SER:O	12:DM:49:LEU:HG	2.13	0.49
13:DN:101:LYS:HA	13:DN:106:ALA:HB3	1.95	0.49
14:DO:4:LEU:O	14:DO:8:ILE:HG13	2.13	0.49
19:DX:93:LEU:CD2	19:DX:120:LEU:HD21	2.40	0.49
20:E2:111:A:C5	2:FA:20:ARG:NH2	2.81	0.49
20:E2:134:C:C3'	20:E2:134:C:C6	2.95	0.49
20:E2:5:A:N6	50:E2:329:HOH:O	2.38	0.49
21:E3:64:A:N3	21:E3:64:A:H2'	2.28	0.49
22:EA:3:ARG:HB2	22:EA:208:VAL:HG12	1.94	0.49
23:EB:113:ASN:HB3	23:EB:174:ASN:ND2	2.27	0.49
23:EB:253:TRP:CD1	1:F1:2390:G:H5''	2.46	0.49
23:EB:365:HIS:HA	41:ET:19:ARG:HH22	1.76	0.49
23:EB:95:THR:OG1	23:EB:96:PRO:HD2	2.13	0.49
24:EC:145:ARG:HD2	24:EC:253:GLY:O	2.12	0.49
24:EC:238:VAL:HA	24:EC:241:LEU:HD21	1.94	0.49
24:EC:289:LEU:O	35:EN:123:THR:OG1	2.30	0.49
25:ED:9:MET:O	25:ED:134:PRO:CG	2.61	0.49
27:EF:185:LYS:NZ	1:F1:146:U:H2'	2.27	0.49
33:EL:115:VAL:HA	33:EL:134:LEU:HD23	1.94	0.49
33:EL:19:MET:HA	33:EL:19:MET:HE2	1.95	0.49
33:EL:37:HIS:NE2	33:EL:63:ARG:HB2	2.28	0.49
34:EM:178:SER:OG	1:F1:2735:A:H5'	2.12	0.49
35:EN:73:ASN:HB2	35:EN:76:ASN:OD1	2.12	0.49
36:EO:114:LYS:HB3	36:EO:146:LYS:HZ3	1.76	0.49
43:EV:219:HIS:O	19:FX:46:ARG:NH2	2.45	0.49
45:EX:22:PHE:O	45:EX:23:GLU:HB2	2.13	0.49
1:F1:1091:G:HO2'	1:F1:1092:C:P	2.35	0.49
1:F1:1351:U:H2'	1:F1:1352:U:C6	2.48	0.49
1:F1:1753:A:H3'	1:F1:1754:G:C5'	2.39	0.49
1:F1:2391:G:H4'	1:F1:2392:A:OP2	2.11	0.49
1:F1:2584:A:H8	1:F1:2584:A:O5'	1.96	0.49
1:F1:2683:A:C5'	1:F1:2684:A:OP2	2.61	0.49
1:F1:2990:U:H2'	1:F1:2991:U:H6	1.78	0.49
1:F1:3268:C:C4	1:F1:3269:G:C5	3.01	0.49
1:F1:47:G:P	50:F1:3624:HOH:O	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:549:G:H2'	1:F1:550:G:C8	2.48	0.49
1:F1:70:C:C4	1:F1:72:A:C5	3.00	0.49
1:F1:738:U:O2'	1:F1:739:G:H5'	2.13	0.49
1:F1:75:A:H8	18:FU:71:ARG:NH1	2.03	0.49
1:F1:89:G:H1'	1:F1:93:A:N6	2.27	0.49
1:F1:443:G:P	5:FE:16:SER:HG	2.26	0.49
6:FF:11:ARG:HG3	6:FF:12:VAL:N	2.26	0.49
8:FH:11:PRO:CG	8:FH:12:THR:H	2.19	0.49
12:FM:17:PHE:CD1	12:FM:75:LYS:HB3	2.48	0.49
13:FN:7:TYR:OH	13:FN:93:PHE:N	2.42	0.49
16:FQ:83:THR:HG22	16:FQ:85:ARG:HB3	1.94	0.49
19:FX:106:LYS:HE2	19:FX:123:ASP:OD2	2.12	0.49
20:G2:108:G:H4'	20:G2:135:A:H5'	1.94	0.49
20:G2:119:A:C2	20:G2:133:U:O2	2.66	0.49
20:G2:22:A:H2'	20:G2:23:U:H6	1.76	0.49
22:GA:203:VAL:HA	22:GA:213:GLY:HA2	1.95	0.49
23:GB:113:ASN:HB3	23:GB:174:ASN:ND2	2.27	0.49
23:GB:220:LYS:HD2	1:H1:3036:U:H5'	1.95	0.49
23:GB:304:THR:HG21	23:GB:314:VAL:HA	1.95	0.49
23:GB:66:ARG:NH1	31:GJ:13:THR:O	2.44	0.49
24:GC:173:VAL:HG12	24:GC:177:LYS:HE3	1.93	0.49
24:GC:275:THR:CG2	24:GC:276:THR:N	2.76	0.49
25:GD:50:ALA:HB2	25:GD:65:MET:HB2	1.94	0.49
25:GD:6:GLU:HA	25:GD:6:GLU:OE1	2.13	0.49
27:GF:134:THR:HG22	27:GF:138:ASN:ND2	2.27	0.49
29:GH:47:PRO:HB3	29:GH:171:TRP:CZ2	2.48	0.49
30:GI:48:ARG:HH22	1:H1:1217:A:H2'	1.78	0.49
30:GI:55:GLU:O	30:GI:59:LYS:HE2	2.13	0.49
32:GK:148:THR:HG22	32:GK:149:ALA:H	1.78	0.49
32:GK:81:TRP:CE3	32:GK:89:ARG:HB3	2.47	0.49
34:GM:110:LEU:CD1	34:GM:169:GLY:O	2.61	0.49
34:GM:163:LEU:CD1	34:GM:173:ILE:CG2	2.91	0.49
34:GM:254:ILE:O	34:GM:258:PRO:CD	2.58	0.49
32:GK:89:ARG:NH1	35:GN:94:LEU:HD22	2.28	0.49
39:GR:61:VAL:HG23	39:GR:61:VAL:O	2.11	0.49
40:GS:10:ALA:HB3	40:GS:13:LYS:HG3	1.95	0.49
42:GU:119:LYS:HB3	18:HU:124:PHE:CD1	2.47	0.49
45:GX:8:HIS:NE2	45:GX:72:GLY:HA2	2.28	0.49
37:GP:110:GLN:NE2	1:H1:1094:G:H5'	2.27	0.49
1:H1:122:U:H2'	1:H1:123:C:C6	2.46	0.49
1:H1:1351:U:H2'	1:H1:1352:U:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2113:A:C8	1:H1:3053:U:H1'	2.47	0.49
1:H1:2414:A:H2'	1:H1:2415:C:H6	1.74	0.49
1:H1:312:U:H2'	1:H1:313:U:H6	1.76	0.49
1:H1:3144:G:C6	1:H1:3146:G:C8	3.00	0.49
1:H1:368:A:C5'	1:H1:369:U:OP1	2.61	0.49
1:H1:64:A:N6	1:H1:66:C:C2	2.80	0.49
1:H1:745:A:C6	1:H1:746:A:C2	3.01	0.49
1:H1:78:G:C2	1:H1:79:C:C6	3.00	0.49
1:H1:933:G:OP1	50:H1:3809:HOH:O	2.19	0.49
1:H1:987:A:O2'	1:H1:988:G:H5'	2.12	0.49
4:HC:93:ASP:O	4:HC:97:ILE:HG13	2.12	0.49
5:HE:58:PHE:CD2	5:HE:85:VAL:HG22	2.47	0.49
6:HF:41:GLU:OE1	6:HF:73:LYS:HD3	2.11	0.49
6:HF:7:VAL:CG2	6:HF:55:LEU:HD11	2.43	0.49
13:HN:89:GLU:N	13:HN:89:GLU:OE1	2.45	0.49
33:GL:9:GLU:HB2	16:HQ:45:ILE:HD13	1.94	0.49
16:HQ:7:VAL:CG1	18:HU:185:LYS:HG3	2.42	0.49
1:A1:1066:A:C2	1:A1:1067:U:C2	3.01	0.49
1:A1:1517:G:P	50:A1:4403:HOH:O	2.55	0.49
1:A1:158:G:H2'	1:A1:159:G:H8	1.77	0.49
1:A1:1600:U:H2'	1:A1:1601:U:O4'	2.13	0.49
1:A1:1693:U:H2'	1:A1:1694:C:C6	2.47	0.49
1:A1:2356:A:C8	1:A1:2356:A:H5'	2.40	0.49
1:A1:2988:U:O4	50:A1:4799:HOH:O	2.19	0.49
1:A1:3109:C:H5''	10:AK:111:ARG:HH12	1.77	0.49
1:A1:3140:C:H4'	1:A1:3254:A:O4'	2.13	0.49
1:A1:3248:C:H2'	1:A1:3249:U:C6	2.48	0.49
1:A1:738:U:HO2'	1:A1:739:G:H5'	1.78	0.49
5:AE:134:LEU:HD22	5:AE:138:GLN:OE1	2.13	0.49
9:AJ:80:GLU:O	9:AJ:84:ILE:HG13	2.13	0.49
12:AM:21:CYS:O	12:AM:24:PRO:HD2	2.12	0.49
1:A1:1775:A:C5'	15:AP:34:LYS:NZ	2.76	0.49
18:AU:166:VAL:O	18:AU:169:ILE:N	2.46	0.49
18:AU:77:GLU:OE2	18:AU:110:ASN:ND2	2.46	0.49
19:AX:15:GLN:NE2	19:AX:115:GLY:HA2	2.28	0.49
24:BC:9:VAL:HG11	24:BC:260:GLU:OE2	2.12	0.49
32:BK:118:LEU:HB2	32:BK:141:VAL:CG2	2.40	0.49
21:B3:116:A:O3'	34:BM:260:ARG:NH2	2.46	0.49
43:BV:38:LYS:O	43:BV:42:ILE:HG13	2.13	0.49
44:BW:28:ALA:CA	44:BW:66:ILE:HD11	2.41	0.49
20:C2:129:A:O3'	39:CR:99:THR:HG21	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:95:C:O2'	20:C2:96:A:H8	1.95	0.49
22:CA:31:ARG:CB	22:CA:37:GLU:OE2	2.61	0.49
24:CC:66:GLY:O	2:DA:53:LYS:NZ	2.29	0.49
24:CC:95:ALA:HB1	24:CC:101:CYS:SG	2.53	0.49
27:CF:131:HIS:NE2	27:CF:135:LEU:HD11	2.25	0.49
27:CF:153:ILE:O	27:CF:157:ILE:HG13	2.13	0.49
27:CF:22:PHE:CD1	13:DN:55:LYS:HA	2.47	0.49
30:CI:91:THR:HG22	30:CI:93:LYS:N	2.28	0.49
33:CL:115:VAL:HA	33:CL:134:LEU:HD23	1.94	0.49
47:CO:38:ARG:O	47:CO:41:ILE:HB	2.11	0.49
39:CR:116:ARG:N	39:CR:133:ARG:O	2.46	0.49
43:CV:128:LEU:O	43:CV:224:TRP:HB2	2.13	0.49
1:D1:1540:U:H5	1:D1:1865:A:HO2'	1.56	0.49
39:CR:43:LEU:CD1	1:D1:1599:G:C5'	2.90	0.49
1:D1:1740:U:C5'	1:D1:1741:U:OP1	2.59	0.49
1:D1:1746:U:C4	1:D1:1747:A:N7	2.81	0.49
1:D1:1919:A:H5'	1:D1:1919:A:C8	2.47	0.49
25:CD:124:GLY:HA3	1:D1:2663:A:C2	2.47	0.49
1:D1:296:G:H8	1:D1:296:G:O5'	1.96	0.49
1:D1:3268:C:C4	1:D1:3269:G:C5	3.01	0.49
1:D1:558:U:O2'	1:D1:559:G:H5'	2.12	0.49
24:CC:376:TRP:CB	1:D1:564:A:O2'	2.58	0.49
1:D1:604:A:O5'	1:D1:604:A:C8	2.63	0.49
1:D1:718:A:C2'	1:D1:719:C:H5'	2.43	0.49
1:D1:828:C:O2'	1:D1:829:C:H5'	2.13	0.49
1:D1:881:G:C6	1:D1:882:G:N2	2.81	0.49
31:CJ:124:LYS:HE2	9:DJ:75:THR:HG23	1.95	0.49
17:DT:36:ASN:O	17:DT:40:LEU:HG	2.12	0.49
18:DU:77:GLU:OE2	18:DU:110:ASN:ND2	2.45	0.49
20:E2:22:A:H2'	20:E2:23:U:H6	1.77	0.49
24:EC:299:ILE:HD12	1:F1:1375:A:N1	2.28	0.49
21:E3:56:G:H4'	25:ED:146:SER:OG	2.13	0.49
26:EE:135:LYS:H	26:EE:138:GLU:HG3	1.75	0.49
30:EI:30:GLN:HG3	30:EI:32:ILE:HD13	1.95	0.49
34:EM:231:TRP:HZ2	34:EM:243:VAL:CG2	2.26	0.49
34:EM:243:VAL:CG1	34:EM:247:PHE:CD2	2.96	0.49
38:EQ:122:ASN:HB2	38:EQ:147:HIS:HB2	1.93	0.49
42:EU:35:ALA:HB1	42:EU:44:LYS:HD3	1.94	0.49
43:EV:231:ILE:O	43:EV:235:VAL:HG23	2.13	0.49
45:EX:71:ASN:OD1	45:EX:71:ASN:C	2.49	0.49
45:EX:4:LYS:HD2	45:EX:92:ARG:NE	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EY:10:ILE:O	46:EY:13:LYS:HG2	2.12	0.49
1:F1:1026:C:C2	1:F1:1071:C:N4	2.81	0.49
1:F1:1211:A:H1'	1:F1:1350:G:N2	2.28	0.49
1:F1:1490:G:N2	1:F1:1493:A:H5'	2.27	0.49
46:EY:8:VAL:HG23	1:F1:1951:G:OP1	2.13	0.49
1:F1:2731:C:C4'	4:FC:18:HIS:HD2	2.24	0.49
1:F1:2737:A:C2'	1:F1:2738:G:H5'	2.43	0.49
1:F1:281:G:H5''	1:F1:282:G:P	2.53	0.49
1:F1:2398:G:C5'	1:F1:2859:G:H5''	2.43	0.49
1:F1:69:A:N6	1:F1:302:G:O2'	2.46	0.49
1:F1:632:G:N7	5:FE:32:GLN:NE2	2.59	0.49
1:F1:76:U:H2'	1:F1:77:A:H5'	1.93	0.49
1:F1:785:A:H61	1:F1:795:G:H1'	1.77	0.49
1:F1:1613:A:C6	3:FB:4:ASN:HB3	2.48	0.49
8:FH:17:LYS:HG3	8:FH:40:GLN:OE1	2.13	0.49
8:FH:54:LYS:HA	8:FH:110:PRO:HG2	1.90	0.49
9:DJ:123:ARG:NH1	9:FJ:123:ARG:CZ	2.76	0.49
9:FJ:117:ILE:HD13	9:FJ:137:VAL:HG11	1.94	0.49
1:F1:1681:C:OP1	11:FL:40:ASN:ND2	2.45	0.49
14:FO:108:LEU:O	14:FO:111:LEU:HB2	2.13	0.49
23:GB:108:LYS:HE2	23:GB:137:PHE:CD1	2.47	0.49
23:GB:84:MET:HE1	23:GB:179:ILE:HD11	1.93	0.49
23:GB:26:ARG:HD2	23:GB:177:LEU:CD2	2.43	0.49
23:GB:306:LEU:HD11	23:GB:371:VAL:HG23	1.94	0.49
24:GC:159:PHE:CZ	24:GC:179:VAL:CG1	2.96	0.49
24:GC:311:ALA:CB	1:H1:1374:C:H5'	2.42	0.49
27:GF:145:VAL:HG13	27:GF:173:VAL:CG2	2.43	0.49
27:GF:92:TYR:CE1	27:GF:200:ASP:OD2	2.66	0.49
28:GG:4:UNK:HG3	28:GG:6:UNK:CG	2.28	0.49
29:GH:130:ASP:O	29:GH:133:SER:OG	2.28	0.49
35:GN:52:ARG:NH1	35:GN:141:ARG:HG3	2.28	0.49
36:GO:42:ARG:HA	36:GO:45:ILE:HD12	1.94	0.49
37:GP:17:LYS:HB3	37:GP:21:THR:HB	1.95	0.49
38:GQ:8:ARG:NH1	38:GQ:118:HIS:N	2.60	0.49
40:GS:44:VAL:HG11	40:GS:47:MET:CE	2.43	0.49
42:GU:102:GLU:O	42:GU:104:VAL:HG23	2.13	0.49
43:GV:124:ILE:HG22	43:GV:124:ILE:O	2.13	0.49
43:GV:206:THR:HG21	1:H1:1195:U:O4'	2.12	0.49
43:GV:31:SER:O	43:GV:35:LYS:HG2	2.12	0.49
46:GY:58:LYS:N	46:GY:59:PRO:HD2	2.27	0.49
1:H1:1039:G:HO2'	1:H1:1041:C:N4	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:GF:189:THR:OG1	1:H1:147:U:OP2	2.15	0.49
1:H1:1715:U:H2'	1:H1:1716:U:C6	2.48	0.49
1:H1:1507:A:O2'	1:H1:1882:A:N3	2.40	0.49
1:H1:2323:U:H2'	1:H1:2324:A:H5''	1.95	0.49
1:H1:2356:A:H5'	1:H1:2356:A:C8	2.44	0.49
1:H1:2710:A:C2	1:H1:2725:A:C2	3.00	0.49
1:H1:2839:A:P	50:H1:3993:HOH:O	2.69	0.49
1:H1:3097:G:C2	1:H1:3116:A:C2	3.01	0.49
1:H1:3257:U:H2'	1:H1:3258:C:C6	2.48	0.49
1:H1:655:A:H2'	1:H1:656:C:C5	2.48	0.49
1:H1:745:A:H2'	1:H1:746:A:O4'	2.12	0.49
1:H1:766:G:O2'	1:H1:767:C:P	2.71	0.49
1:H1:792:G:H5'	18:HU:190:TRP:CE3	2.47	0.49
1:H1:832:A:H61	1:H1:959:G:H22	1.60	0.49
1:H1:868:G:C6	1:H1:869:G:N7	2.81	0.49
1:H1:974:C:C2'	1:H1:975:G:H5'	2.43	0.49
5:HE:41:LEU:CD1	5:HE:45:ILE:HG21	2.39	0.49
1:H1:3175:A:H62	6:HF:16:ASN:HD21	1.56	0.49
7:HG:64:GLN:O	7:HG:64:GLN:CG	2.60	0.49
8:HH:9:VAL:HG12	8:HH:10:ALA:H	1.76	0.49
9:HJ:115:ALA:HB2	9:HJ:135:VAL:HG11	1.94	0.49
13:HN:4:PHE:HD1	13:HN:4:PHE:H	0.76	0.49
14:HO:87:VAL:HG22	14:HO:115:HIS:CD2	2.47	0.49
1:A1:1006:C:C2'	1:A1:1007:G:OP1	2.61	0.49
1:A1:1041:C:C3'	1:A1:1042:U:H5''	2.42	0.49
1:A1:1256:G:H2'	1:A1:1257:G:H8	1.73	0.49
1:A1:181:U:C2'	1:A1:182:C:H5'	2.43	0.49
1:A1:2391:G:H5'	1:A1:2392:A:C5'	2.43	0.49
1:A1:2393:A:C2	1:A1:2394:A:C4	3.01	0.49
1:A1:2606:U:H4'	1:A1:2633:C:C5	2.48	0.49
1:A1:2691:A:OP1	37:BP:23:GLY:HA3	2.13	0.49
1:A1:2736:A:H2'	1:A1:2737:A:C8	2.48	0.49
1:A1:281:G:H2'	1:A1:285:U:H6	1.76	0.49
1:A1:2890:A:H2'	1:A1:2891:A:O4'	2.13	0.49
1:A1:2971:C:O2'	50:A1:4347:HOH:O	2.20	0.49
1:A1:3000:A:H4'	1:A1:3001:A:H4'	1.95	0.49
1:A1:443:G:H2'	1:A1:444:A:C8	2.48	0.49
1:A1:813:C:H2'	1:A1:814:U:H6	1.78	0.49
1:A1:89:G:H1'	1:A1:93:A:N6	2.27	0.49
1:A1:940:A:N3	1:A1:940:A:C2'	2.75	0.49
1:A1:970:C:H1'	1:A1:1433:A:N3	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:11:LYS:NZ	20:B2:114:G:N2	2.60	0.49
9:AJ:88:LEU:HG	9:AJ:92:VAL:CG1	2.43	0.49
20:B2:3:A:H2'	20:B2:3:A:N3	2.27	0.49
20:B2:71:G:C5	20:B2:72:C:C5	3.01	0.49
21:B3:36:C:O2'	21:B3:37:A:H5'	2.12	0.49
23:BB:33:PRO:CD	23:BB:44:THR:HG23	2.43	0.49
27:BF:136:ILE:HG22	27:BF:166:ASN:HD22	1.78	0.49
27:BF:45:VAL:HB	27:BF:47:TRP:CE2	2.47	0.49
27:BF:56:GLN:HA	27:BF:56:GLN:OE1	2.12	0.49
29:BH:80:ILE:HG22	29:BH:81:SER:N	2.28	0.49
32:BK:148:THR:HG22	32:BK:149:ALA:H	1.74	0.49
33:BL:149:ASN:O	33:BL:152:CYS:HB2	2.13	0.49
34:BM:62:ALA:O	34:BM:105:LEU:HD22	2.13	0.49
38:BQ:133:ARG:HG3	38:BQ:139:ASN:HD21	1.66	0.49
20:C2:20:A:H1'	1:D1:404:A:C2	2.47	0.49
24:CC:303:GLU:N	24:CC:303:GLU:OE1	2.42	0.49
26:CE:49:THR:O	26:CE:51:ASP:N	2.45	0.49
26:CE:5:LEU:HB2	26:CE:58:TRP:CZ3	2.48	0.49
29:CH:139:ARG:CD	29:CH:173:PHE:HE1	2.25	0.49
31:CJ:86:ARG:NH2	50:CJ:301:HOH:O	2.46	0.49
32:CK:75:VAL:HG22	32:CK:109:PHE:CG	2.47	0.49
34:CM:144:ALA:O	34:CM:174:PRO:HD3	2.13	0.49
24:CC:308:VAL:HG12	35:CN:40:ARG:NH1	2.27	0.49
47:CO:132:TYR:CD2	47:CO:138:LEU:HA	2.48	0.49
47:CO:163:UNK:C	47:CO:166:UNK:HG3	2.42	0.49
43:CV:223:ASP:OD1	43:CV:223:ASP:N	2.45	0.49
44:CW:28:ALA:CA	44:CW:66:ILE:HD11	2.38	0.49
1:D1:1074:A:H5''	1:D1:1075:C:O5'	2.11	0.49
1:D1:1112:A:C6	1:D1:1113:A:C6	3.01	0.49
45:CX:80:ASN:HB3	1:D1:1413:G:O2'	2.12	0.49
1:D1:1495:C:C4'	1:D1:1496:U:OP2	2.58	0.49
1:D1:1842:A:H2'	1:D1:1843:U:C6	2.47	0.49
1:D1:1507:A:H5''	1:D1:1883:A:H62	1.78	0.49
1:D1:2533:C:O2	1:D1:2533:C:H2'	2.10	0.49
1:D1:2669:A:O3'	1:D1:2670:U:C6	2.61	0.49
1:D1:269:U:H2'	1:D1:270:C:C6	2.47	0.49
1:D1:3157:C:OP1	1:D1:3159:A:H1'	2.13	0.49
1:D1:373:A:HO2'	1:D1:375:G:H8	1.58	0.49
1:D1:443:G:H2'	1:D1:444:A:C8	2.47	0.49
1:D1:512:G:O2'	1:D1:513:G:H5'	2.12	0.49
1:D1:583:G:C2	1:D1:585:A:OP2	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:625:C:C4	1:D1:626:C:C5	3.01	0.49
1:D1:632:G:H2'	1:D1:633:C:H6	1.77	0.49
1:D1:70:C:O2'	1:D1:71:U:H5''	2.13	0.49
1:D1:790:C:H2'	1:D1:790:C:O2	2.13	0.49
1:D1:800:G:O2'	1:D1:801:U:C5	2.66	0.49
13:DN:31:ASP:OD1	13:DN:31:ASP:N	2.43	0.49
15:DP:57:ASP:OD1	15:DP:60:ILE:HG13	2.13	0.49
20:E2:111:A:H2'	20:E2:112:G:H5''	1.95	0.49
21:E3:28:C:H1'	21:E3:54:A:H61	1.78	0.49
22:EA:31:ARG:O	22:EA:164:ARG:NH1	2.35	0.49
23:EB:204:ASP:OD1	23:EB:204:ASP:N	2.41	0.49
23:EB:218:VAL:HB	23:EB:332:ARG:HE	1.78	0.49
26:EE:135:LYS:H	26:EE:138:GLU:HG2	1.78	0.49
32:EK:109:PHE:C	32:EK:110:PHE:HD1	2.15	0.49
34:EM:177:GLU:HA	34:EM:180:PHE:CD2	2.34	0.49
35:EN:57:ARG:HH12	1:F1:697:A:H3'	1.78	0.49
1:F1:146:U:O2	1:F1:148:G:N2	2.45	0.49
1:F1:1593:A:C2	1:F1:1594:C:N3	2.81	0.49
1:F1:2240:C:C2'	1:F1:2241:G:O5'	2.61	0.49
1:F1:2551:A:O3'	13:FN:52:LYS:NZ	2.42	0.49
1:F1:359:G:OP1	3:FB:50:LYS:NZ	2.44	0.49
1:F1:443:G:H2'	1:F1:444:A:C8	2.48	0.49
1:F1:619:G:H5''	1:F1:620:A:OP1	2.12	0.49
2:FA:62:THR:CG2	2:FA:63:GLY:N	2.76	0.49
5:FE:58:PHE:CD2	5:FE:85:VAL:HG22	2.47	0.49
6:FF:5:LYS:HD3	6:FF:55:LEU:HB2	1.94	0.49
7:FG:43:PHE:CE1	7:FG:68:HIS:HD2	2.27	0.49
10:FK:92:GLU:O	10:FK:105:PRO:HB3	2.12	0.49
13:FN:36:ARG:NH1	13:FN:74:TYR:CB	2.76	0.49
14:FO:40:LEU:HD22	14:FO:42:PHE:HE1	1.78	0.49
18:FU:25:ASN:OD1	18:FU:26:GLN:N	2.44	0.49
22:GA:103:LEU:HB2	22:GA:108:ILE:HD11	1.94	0.49
25:GD:19:ILE:HG21	25:GD:125:MET:CE	2.41	0.49
25:GD:9:MET:O	25:GD:134:PRO:CG	2.61	0.49
26:GE:70:SER:O	26:GE:74:GLN:HG3	2.13	0.49
26:GE:86:TYR:CE2	26:GE:149:LEU:HB2	2.48	0.49
42:GU:80:LYS:HB3	42:GU:81:PRO:HD2	1.95	0.49
43:GV:227:ARG:HH12	43:GV:234:LEU:HD13	1.78	0.49
1:H1:1101:U:H5''	1:H1:1102:U:OP2	2.12	0.49
1:H1:199:A:N3	1:H1:201:A:C8	2.81	0.49
1:H1:2149:U:C2'	1:H1:2150:U:H5''	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2804:G:H8	1:H1:2858:C:OP2	1.96	0.49
1:H1:624:G:O2'	1:H1:625:C:P	2.70	0.49
22:GA:20:HIS:ND1	1:H1:848:C:C5'	2.76	0.49
4:HC:21:HIS:HA	4:HC:71:ASP:O	2.12	0.49
5:HE:69:LEU:HD21	5:HE:114:ASP:HB2	1.93	0.49
9:HJ:162:HIS:CG	9:HJ:163:PRO:HD2	2.48	0.49
1:H1:1623:G:OP1	11:HL:27:GLY:HA3	2.12	0.49
1:A1:126:A:C5'	1:A1:127:A:OP1	2.56	0.49
1:A1:1548:U:H3'	39:BR:121:LEU:CD1	2.42	0.49
1:A1:1642:G:H2'	1:A1:1643:G:C5'	2.19	0.49
1:A1:278:U:H2'	1:A1:279:U:C6	2.48	0.49
1:A1:2847:U:H4'	1:A1:2848:U:OP1	2.10	0.49
1:A1:2992:G:C2	1:A1:2993:C:C6	3.01	0.49
1:A1:3132:A:H2'	1:A1:3133:G:OP1	2.12	0.49
1:A1:340:G:H5''	1:A1:343:A:H1'	1.94	0.49
1:A1:47:G:HO2'	1:A1:48:U:P	2.36	0.49
1:A1:583:G:C2	1:A1:585:A:OP2	2.65	0.49
1:A1:801:U:H5'	17:AT:37:PRO:CB	2.40	0.49
1:A1:807:G:O2'	1:A1:808:A:H5'	2.12	0.49
1:A1:871:A:H8	1:A1:871:A:OP2	1.96	0.49
1:A1:439:A:C5'	5:AE:126:HIS:HB3	2.42	0.49
8:AH:54:LYS:CD	8:AH:110:PRO:HG2	2.42	0.49
20:B2:143:U:H2'	20:B2:144:U:H6	1.76	0.49
20:B2:33:C:O2'	20:B2:34:G:H5'	2.13	0.49
24:BC:260:GLU:OE1	24:BC:264:LYS:HE3	2.13	0.49
26:BE:101:GLU:OE1	26:BE:134:ARG:HD2	2.13	0.49
27:BF:19:ASN:CB	27:BF:20:PRO:HD3	2.36	0.49
34:BM:132:VAL:O	34:BM:132:VAL:HG12	2.13	0.49
35:BN:128:ALA:O	35:BN:132:PRO:HD3	2.13	0.49
35:BN:52:ARG:NH1	35:BN:141:ARG:HG3	2.28	0.49
40:BS:116:SER:O	40:BS:120:ARG:HG3	2.12	0.49
43:BV:66:ALA:HB1	43:BV:72:PHE:HA	1.94	0.49
21:C3:36:C:O2'	21:C3:37:A:H5'	2.12	0.49
22:CA:42:ILE:CD1	22:CA:43:ARG:H	2.18	0.49
24:CC:227:LEU:O	24:CC:228:ARG:C	2.50	0.49
26:CE:7:GLU:HA	26:CE:55:LEU:O	2.12	0.49
30:CI:30:GLN:HG3	30:CI:32:ILE:HD13	1.94	0.49
32:CK:110:PHE:CD2	32:CK:128:LYS:HD2	2.47	0.49
47:CO:161:UNK:HA	47:CO:164:UNK:HG3	1.94	0.49
38:CQ:134:ALA:O	38:CQ:135:HIS:CB	2.61	0.49
39:CR:94:VAL:HG11	39:CR:103:ILE:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:114:PHE:CZ	43:CV:124:ILE:HD11	2.48	0.49
44:CW:10:ASP:OD1	44:CW:73:ARG:CG	2.59	0.49
45:CX:62:ASP:HA	1:D1:1366:C:H5''	1.93	0.49
45:CX:71:ASN:OD1	45:CX:71:ASN:C	2.51	0.49
46:CY:26:VAL:O	46:CY:27:LYS:C	2.49	0.49
1:D1:1005:A:C2'	1:D1:1006:C:OP1	2.61	0.49
1:D1:1053:A:C5	13:FN:94:LYS:NZ	2.81	0.49
1:D1:1070:U:C2'	1:D1:1071:C:O5'	2.61	0.49
1:D1:1526:G:N7	50:D1:4933:HOH:O	2.34	0.49
1:D1:2192:C:H4'	1:D1:2193:A:C8	2.48	0.49
1:D1:2253:U:O3'	46:EY:28:LYS:NZ	2.45	0.49
1:D1:2584:A:O5'	1:D1:2584:A:H8	1.95	0.49
1:D1:2605:C:C2'	1:D1:2606:U:H5'	2.43	0.49
1:D1:2651:A:H2'	1:D1:2652:G:H8	1.75	0.49
1:D1:2737:A:C2'	1:D1:2738:G:H5'	2.43	0.49
1:D1:2899:C:H4'	1:D1:2900:G:O5'	2.11	0.49
1:D1:2984:A:C4	1:D1:2985:C:H5	2.30	0.49
1:D1:3042:G:C6	1:D1:3043:U:C4	3.01	0.49
1:D1:48:U:H2'	1:D1:48:U:O2	2.13	0.49
1:D1:661:C:C2	1:D1:662:C:C5	3.00	0.49
1:D1:75:A:C8	18:DU:71:ARG:NH1	2.69	0.49
32:CK:36:LYS:HB2	1:D1:93:A:H5''	1.94	0.49
5:DE:160:LEU:HD23	5:DE:160:LEU:HA	1.65	0.49
5:DE:179:THR:HG22	5:DE:180:LEU:N	2.28	0.49
6:DF:106:PHE:HD2	6:DF:110:ARG:NE	2.01	0.49
9:DJ:59:VAL:HG23	9:DJ:60:GLY:N	2.28	0.49
9:DJ:49:ILE:HD13	9:DJ:87:SER:HB2	1.95	0.49
13:DN:118:PHE:HE2	13:DN:138:PHE:HE2	1.59	0.49
1:D1:519:A:OP1	14:DO:89:ARG:NH1	2.46	0.49
18:DU:60:THR:HG22	18:DU:62:ARG:H	1.77	0.49
19:DX:16:MET:HE2	19:DX:18:VAL:CG2	2.43	0.49
22:EA:109:PRO:HG2	22:EA:112:THR:OG1	2.13	0.49
23:EB:171:GLN:NE2	1:F1:3273:U:H5''	2.28	0.49
23:EB:78:VAL:HG21	23:EB:303:ILE:HG21	1.93	0.49
27:EF:176:LYS:HE3	1:F1:6:C:O2'	2.13	0.49
29:EH:48:TYR:O	29:EH:139:ARG:HA	2.12	0.49
30:EI:48:ARG:HH12	1:F1:1217:A:H8	1.61	0.49
32:EK:75:VAL:CG2	32:EK:109:PHE:CD2	2.96	0.49
34:EM:216:LEU:HD12	34:EM:228:PHE:CE1	2.48	0.49
34:EM:39:GLN:HG2	34:EM:40:ASP:N	2.27	0.49
34:EM:66:TYR:CE1	34:EM:73:ARG:HB2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:EN:102:CYS:SG	35:EN:127:LEU:HG	2.52	0.49
37:EP:66:ASN:OD1	37:EP:67:VAL:N	2.46	0.49
1:F1:1008:C:O3'	17:FT:23:LYS:NZ	2.46	0.49
1:F1:1035:A:C6	1:F1:1068:U:C2	3.01	0.49
1:F1:1053:A:C1'	1:F1:1054:G:OP2	2.58	0.49
1:F1:1035:A:N1	1:F1:1068:U:C2	2.81	0.49
1:F1:1074:A:H5''	1:F1:1075:C:H5'	1.94	0.49
1:F1:1254:C:H3'	1:F1:1255:A:H5''	1.94	0.49
1:F1:1600:U:H2'	1:F1:1601:U:O4'	2.13	0.49
1:F1:2203:A:O2'	1:F1:2204:U:O4'	2.29	0.49
1:F1:2248:G:N2	1:F1:2259:U:C2	2.80	0.49
1:F1:2376:A:C2	1:F1:2377:G:C8	3.01	0.49
1:F1:2537:C:H2'	1:F1:2538:C:H6	1.76	0.49
1:F1:253:G:C2'	1:F1:254:G:H5''	2.34	0.49
1:F1:287:C:O2'	1:F1:288:A:H5'	2.13	0.49
1:F1:2277:U:H1'	1:F1:2948:C:O2'	2.13	0.49
1:F1:3021:A:C2	1:F1:3022:A:C4	3.01	0.49
1:F1:467:A:C6	1:F1:512:G:N3	2.80	0.49
1:F1:943:C:O2'	1:F1:944:U:H5'	2.13	0.49
12:FM:41:SER:O	12:FM:49:LEU:HG	2.12	0.49
17:FT:12:GLN:OE1	17:FT:15:LYS:HD2	2.13	0.49
17:FT:32:THR:HG22	17:FT:32:THR:O	2.13	0.49
20:G2:143:U:H2'	20:G2:144:U:H6	1.77	0.49
23:GB:257:ARG:HD3	30:GI:63:HIS:CE1	2.48	0.49
23:GB:260:PHE:HD1	30:GI:63:HIS:O	1.96	0.49
27:GF:19:ASN:CB	27:GF:20:PRO:HD3	2.36	0.49
32:GK:20:GLY:O	32:GK:24:LYS:HG2	2.12	0.49
34:GM:141:PRO:HB2	34:GM:172:ASN:HB2	1.93	0.49
34:GM:66:TYR:CE1	34:GM:73:ARG:HB2	2.48	0.49
39:GR:94:VAL:HG21	39:GR:103:ILE:HD13	1.94	0.49
43:GV:80:VAL:CG2	43:GV:188:VAL:HG23	2.43	0.49
22:GA:175:ARG:HA	46:GY:69:TRP:CE2	2.48	0.49
1:H1:1112:A:C6	1:H1:1113:A:N6	2.81	0.49
1:H1:1191:G:O2'	1:H1:1192:A:H5'	2.12	0.49
1:H1:1448:G:C4	1:H1:1449:C:C5	3.00	0.49
1:H1:1918:U:C2'	1:H1:1919:A:C5'	2.68	0.49
1:H1:2358:A:O2'	1:H1:2359:G:H5'	2.13	0.49
1:H1:2499:U:H2'	1:H1:2500:C:H6	1.78	0.49
1:H1:278:U:H2'	1:H1:279:U:H6	1.78	0.49
36:BO:173:ARG:CZ	1:H1:2831:U:O4	2.61	0.49
1:H1:284:U:P	50:H1:3675:HOH:O	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:GB:101:ALA:O	1:H1:3135:A:O2'	2.30	0.49
1:H1:568:A:N1	1:H1:602:A:C2	2.81	0.49
1:H1:631:G:N7	5:HE:31:ARG:NH2	2.60	0.49
1:H1:687:C:C2	1:H1:688:U:C5	3.00	0.49
1:H1:70:C:C4	1:H1:72:A:C5	3.00	0.49
1:H1:738:U:HO2'	1:H1:739:G:H5'	1.78	0.49
1:H1:75:A:H8	18:HU:71:ARG:NH1	2.00	0.49
1:H1:766:G:C2'	1:H1:767:C:OP2	2.61	0.49
1:H1:827:C:H2'	1:H1:828:C:H6	1.76	0.49
1:H1:358:C:O2'	2:HA:16:HIS:HD2	1.95	0.49
39:GR:122:ASN:O	3:HB:10:LYS:NZ	2.46	0.49
39:GR:124:ILE:O	3:HB:14:GLY:HA3	2.12	0.49
1:H1:592:A:OP1	6:HF:67:GLN:HA	2.13	0.49
11:HL:23:VAL:O	11:HL:30:LEU:HD12	2.12	0.49
12:HM:60:ASN:OD1	12:HM:60:ASN:O	2.30	0.49
1:A1:1062:A:C4	1:A1:1063:C:C5	3.01	0.49
1:A1:1235:U:H4'	1:A1:1235:U:OP1	2.13	0.49
1:A1:1753:A:H3'	1:A1:1754:G:C5'	2.37	0.49
1:A1:2106:G:O2'	1:A1:2107:A:P	2.71	0.49
1:A1:3005:A:H2'	1:A1:3006:A:C8	2.47	0.49
1:A1:3042:G:C6	1:A1:3043:U:C4	3.01	0.49
1:A1:3069:G:H4'	50:A1:4143:HOH:O	2.12	0.49
1:A1:3298:U:H1'	1:A1:3299:G:P	2.53	0.49
1:A1:3343:U:H5''	1:A1:3344:U:OP1	2.12	0.49
1:A1:558:U:O2'	1:A1:559:G:H5'	2.13	0.49
1:A1:632:G:H2'	1:A1:633:C:H6	1.78	0.49
1:A1:723:U:O3'	1:A1:724:C:H6	1.96	0.49
1:A1:790:C:O2	1:A1:790:C:C2'	2.61	0.49
5:AE:28:PHE:CD1	5:AE:28:PHE:C	2.86	0.49
6:AF:27:ILE:CD1	6:AF:36:ILE:HD12	2.43	0.49
9:AJ:117:ILE:HD13	9:AJ:137:VAL:HG11	1.95	0.49
13:AN:41:VAL:HG12	13:AN:43:VAL:HG22	1.94	0.49
15:AP:45:ARG:HD2	15:AP:46:GLY:H	1.77	0.49
18:AU:45:PHE:O	18:AU:147:GLN:OE1	2.30	0.49
21:B3:56:G:H4'	25:BD:146:SER:OG	2.13	0.49
22:BA:31:ARG:HB3	22:BA:37:GLU:OE2	2.13	0.49
22:BA:68:TYR:C	22:BA:69:ARG:CG	2.81	0.49
24:BC:14:GLU:HG3	24:BC:17:LYS:HD2	1.94	0.49
24:BC:230:ILE:HG22	24:BC:233:VAL:HG13	1.95	0.49
24:BC:351:SER:O	24:BC:355:ARG:HG3	2.13	0.49
24:BC:359:LEU:CD2	24:BC:363:ARG:HH21	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BD:50:ALA:HB2	25:BD:65:MET:HB2	1.93	0.49
26:BE:135:LYS:HB2	26:BE:138:GLU:HG2	1.95	0.49
32:BK:75:VAL:HG22	32:BK:109:PHE:CG	2.48	0.49
34:BM:160:PHE:O	34:BM:163:LEU:HB3	2.12	0.49
35:BN:66:SER:HB3	35:BN:93:LEU:HG	1.95	0.49
24:BC:383:ALA:HB1	37:BP:147:PHE:CG	2.47	0.49
39:BR:94:VAL:HG11	39:BR:103:ILE:CD1	2.42	0.49
40:BS:50:ARG:HB2	40:BS:114:ARG:NH2	2.27	0.49
43:BV:157:ARG:HG3	43:BV:200:TRP:CD2	2.48	0.49
43:BV:7:GLU:O	43:BV:11:LYS:HG3	2.12	0.49
44:BW:8:SER:HA	44:BW:74:LEU:O	2.12	0.49
20:C2:67:C:H5'	20:C2:68:A:OP2	2.12	0.49
24:CC:275:THR:CG2	24:CC:276:THR:N	2.76	0.49
30:CI:21:TYR:HE2	30:CI:121:ASP:HB3	1.77	0.49
35:CN:27:HIS:CD2	35:CN:31:ILE:HD11	2.48	0.49
37:CP:39:TYR:CE2	37:CP:63:LYS:HG3	2.47	0.49
37:CP:74:VAL:HG12	37:CP:75:ILE:H	1.75	0.49
42:CU:74:PHE:CB	42:CU:80:LYS:HE3	2.43	0.49
43:CV:213:ASN:HD22	43:CV:216:HIS:HD2	1.61	0.49
45:CX:25:GLU:OE2	45:CX:52:ARG:NH2	2.22	0.49
45:CX:39:GLY:HA3	1:D1:663:G:OP1	2.13	0.49
45:CX:45:ARG:HA	45:CX:54:MET:CE	2.42	0.49
46:CY:10:ILE:HD12	46:CY:30:GLU:HB3	1.95	0.49
27:CF:233:LYS:HE2	1:D1:2521:A:N3	2.26	0.49
1:D1:2624:A:O4'	1:D1:2625:A:C2	2.66	0.49
1:D1:2717:G:O3'	50:D1:4781:HOH:O	2.20	0.49
23:CB:220:LYS:NZ	1:D1:3037:A:OP2	2.22	0.49
1:D1:3081:C:O2'	1:D1:3083:A:OP2	2.16	0.49
1:D1:310:U:H3	1:D1:2766:A:H61	1.61	0.49
1:D1:461:A:O2'	1:D1:462:G:H5'	2.13	0.49
1:D1:47:G:P	50:D1:3725:HOH:O	2.71	0.49
1:D1:487:G:OP2	18:DU:161:LYS:NZ	2.40	0.49
1:D1:566:U:C5	1:D1:567:C:C5	3.01	0.49
1:D1:785:A:N6	1:D1:795:G:H1'	2.27	0.49
1:D1:790:C:C5'	1:D1:791:C:OP1	2.61	0.49
24:CC:100:GLN:NE2	1:D1:828:C:O2'	2.46	0.49
1:D1:832:A:H61	1:D1:959:G:H22	1.60	0.49
2:DA:17:THR:HG23	2:DA:18:LEU:H	1.77	0.49
13:DN:7:TYR:OH	13:DN:93:PHE:N	2.43	0.49
24:CC:152:VAL:O	14:DO:76:ILE:HG12	2.12	0.49
15:DP:43:LYS:CD	15:DP:52:THR:HG23	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:156:A:OP1	16:DQ:27:ALA:HB3	2.13	0.49
20:E2:13:A:H2'	20:E2:14:C:H6	1.75	0.49
20:E2:143:U:H2'	20:E2:144:U:H6	1.77	0.49
20:E2:67:C:H5'	20:E2:68:A:OP2	2.13	0.49
20:E2:87:C:O2	20:E2:87:C:O4'	2.31	0.49
21:E3:93:G:O5'	21:E3:93:G:C8	2.65	0.49
23:EB:171:GLN:HG3	1:F1:3273:U:H5''	1.95	0.49
24:EC:126:ARG:CB	24:EC:283:TYR:CE2	2.95	0.49
24:EC:155:LEU:HA	24:EC:156:PRO:C	2.33	0.49
24:EC:33:ILE:CD1	24:EC:135:ALA:HA	2.42	0.49
24:EC:356:GLN:O	24:EC:360:LYS:HG2	2.13	0.49
26:EE:45:ILE:HG23	26:EE:55:LEU:HD21	1.94	0.49
27:EF:219:ASP:HB3	27:EF:223:LYS:HE3	1.95	0.49
34:EM:131:ASN:HB3	34:EM:133:ASP:OD1	2.13	0.49
21:E3:22:A:C5	34:EM:274:HIS:HB3	2.47	0.49
37:EP:40:VAL:HG13	37:EP:96:VAL:HG13	1.95	0.49
43:EV:66:ALA:HB1	43:EV:72:PHE:HA	1.94	0.49
45:EX:20:VAL:HG12	45:EX:52:ARG:HH12	1.78	0.49
1:F1:1185:A:C3'	1:F1:1186:A:C5'	2.85	0.49
1:F1:1227:A:N3	1:F1:1227:A:C2'	2.76	0.49
1:F1:1215:U:N3	1:F1:1344:A:N6	2.61	0.49
1:F1:1573:A:O2'	1:F1:1574:C:H5'	2.13	0.49
1:F1:1864:U:C5'	50:F1:4043:HOH:O	2.56	0.49
1:F1:1895:U:H5'	50:F1:4010:HOH:O	2.10	0.49
1:F1:2106:G:O2'	1:F1:2107:A:P	2.70	0.49
1:F1:2247:A:H2'	1:F1:2248:G:C8	2.47	0.49
1:F1:2274:A:H5'	1:F1:2300:G:N2	2.27	0.49
1:F1:2545:A:HO2'	1:F1:2546:A:P	2.36	0.49
1:F1:2572:U:C2'	1:F1:2573:U:H5'	2.43	0.49
1:F1:2934:A:H2'	1:F1:2970:A:N7	2.28	0.49
1:F1:3097:G:OP2	10:FK:112:LYS:NZ	2.43	0.49
1:F1:3098:A:C2	1:F1:3115:C:C2	3.00	0.49
1:F1:472:C:H6	1:F1:472:C:O5'	1.95	0.49
1:F1:632:G:H2'	1:F1:633:C:H6	1.77	0.49
1:F1:641:U:O4'	1:F1:3233:A:N6	2.45	0.49
1:F1:663:G:H4'	1:F1:1460:G:C6	2.48	0.49
35:EN:142:ALA:O	1:F1:768:A:H4'	2.13	0.49
1:F1:78:G:C2	1:F1:79:C:C6	3.01	0.49
3:FB:7:LEU:HA	3:FB:7:LEU:HD23	1.68	0.49
13:FN:124:THR:HG22	13:FN:124:THR:O	2.13	0.49
13:FN:89:GLU:OE1	13:FN:89:GLU:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:FX:96:GLN:N	19:FX:134:THR:CG2	2.76	0.49
19:FX:167:LYS:HA	19:FX:188:THR:HG22	1.91	0.49
20:G2:45:G:O6	20:G2:104:G:C2	2.66	0.49
22:GA:114:VAL:HG12	22:GA:115:CYS:N	2.28	0.49
22:GA:46:ILE:O	22:GA:86:GLY:N	2.41	0.49
23:GB:10:ARG:NH1	1:H1:2871:U:OP1	2.45	0.49
23:GB:117:ARG:HD2	23:GB:117:ARG:HA	1.59	0.49
23:GB:292:ALA:HB3	23:GB:301:LYS:C	2.33	0.49
25:GD:115:LYS:CG	25:GD:116:TYR:N	2.75	0.49
25:GD:12:VAL:CG2	25:GD:162:TRP:HD1	2.26	0.49
25:GD:7:ASN:C	25:GD:9:MET:N	2.65	0.49
34:GM:243:VAL:CG1	34:GM:247:PHE:CD2	2.96	0.49
35:GN:174:PHE:O	35:GN:176:ARG:N	2.46	0.49
35:GN:178:HIS:ND1	35:GN:179:GLY:O	2.46	0.49
20:G2:7:U:OP1	38:GQ:64:ARG:HG3	2.12	0.49
38:GQ:62:PHE:HE1	38:GQ:84:ARG:HB2	1.75	0.49
39:GR:89:THR:HG23	39:GR:132:ILE:O	2.12	0.49
39:GR:141:LEU:O	39:GR:144:ALA:HB3	2.13	0.49
43:GV:103:PHE:CZ	43:GV:124:ILE:HG12	2.47	0.49
44:GW:28:ALA:HB3	44:GW:29:PRO:HD3	1.94	0.49
45:GX:43:ARG:HA	45:GX:48:PHE:CD2	2.47	0.49
1:H1:1109:A:C1'	1:H1:1110:U:OP2	2.54	0.49
1:H1:1178:U:H3'	1:H1:1179:G:C8	2.48	0.49
1:H1:1196:A:C6	1:H1:1357:A:N7	2.81	0.49
1:H1:137:A:C6	1:H1:138:C:C4	3.01	0.49
1:H1:1385:C:O2'	1:H1:1386:U:H5'	2.13	0.49
1:H1:1403:C:HO2'	1:H1:1434:G:HO2'	1.54	0.49
1:H1:1549:U:H5''	1:H1:1632:U:O2	2.13	0.49
1:H1:1552:U:O2	1:H1:1620:U:H5'	2.13	0.49
1:H1:1580:G:H5''	1:H1:1581:C:OP2	2.13	0.49
1:H1:1738:A:N7	1:H1:1752:G:C2	2.81	0.49
1:H1:2544:U:H4'	7:HG:50:THR:OG1	2.13	0.49
1:H1:2562:U:O2'	1:H1:2563:U:P	2.71	0.49
1:H1:269:U:C2	1:H1:270:C:C5	3.01	0.49
1:H1:3127:U:C3'	1:H1:3128:G:H5''	2.40	0.49
1:H1:3179:U:H2'	1:H1:3180:C:H6	1.75	0.49
1:H1:3197:A:OP2	1:H1:3213:G:N2	2.44	0.49
1:H1:3229:C:HO2'	1:H1:3230:G:P	2.36	0.49
1:H1:3283:C:H2'	1:H1:3284:G:H8	1.78	0.49
1:H1:632:G:H2'	1:H1:633:C:H6	1.76	0.49
1:H1:785:A:N6	1:H1:795:G:H1'	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:790:C:C5'	1:H1:791:C:OP1	2.61	0.49
1:H1:842:A:C8	2:HA:15:THR:CG2	2.83	0.49
1:H1:992:A:N6	1:H1:993:G:C6	2.81	0.49
6:HF:67:GLN:HE21	6:HF:71:LEU:HB3	1.77	0.49
9:HJ:111:ASN:ND2	9:HJ:156:ASN:HD22	2.10	0.49
1:H1:1615:G:H5'	11:HL:15:THR:HG21	1.95	0.49
12:HM:23:GLN:HB3	12:HM:109:TYR:HE1	1.78	0.49
19:HX:167:LYS:HA	19:HX:188:THR:HG22	1.92	0.49
1:A1:1105:U:O5'	1:A1:1105:U:H6	1.96	0.48
1:A1:1141:U:C4	1:A1:1142:G:C2	3.01	0.48
1:A1:1186:A:C2'	1:A1:1186:A:N3	2.74	0.48
1:A1:663:G:H4'	1:A1:1460:G:C6	2.47	0.48
1:A1:170:A:C5	1:A1:250:U:C4	3.01	0.48
1:A1:1752:G:H4'	1:A1:1753:A:OP2	2.12	0.48
1:A1:2520:G:H4'	1:A1:2521:A:OP2	2.12	0.48
1:A1:2559:U:N3	1:A1:2560:U:C5	2.82	0.48
1:A1:2635:C:C6	1:A1:2635:C:H5'	2.37	0.48
1:A1:2902:G:N3	1:A1:2922:A:H2	2.11	0.48
1:A1:3056:C:C2	1:A1:3057:U:C5	3.00	0.48
1:A1:745:A:H2'	1:A1:746:A:O4'	2.13	0.48
5:AE:63:VAL:CG1	5:AE:64:VAL:N	2.76	0.48
6:AF:15:ILE:HG21	6:AF:20:ASP:HB2	1.95	0.48
8:AH:13:ARG:NE	8:AH:15:TRP:CE2	2.81	0.48
12:AM:77:TYR:O	12:AM:77:TYR:HD1	1.95	0.48
13:AN:47:GLU:HB3	13:AN:69:LYS:O	2.12	0.48
19:AX:94:LYS:HE2	19:AX:136:GLN:HG2	1.95	0.48
20:B2:13:A:H2'	20:B2:14:C:H6	1.77	0.48
20:B2:73:G:O2'	20:B2:88:G:N2	2.45	0.48
22:BA:175:ARG:HA	46:BY:69:TRP:CZ2	2.48	0.48
24:BC:369:HIS:CE1	43:BV:68:LYS:NZ	2.81	0.48
1:A1:1464:U:H4'	24:BC:95:ALA:CB	2.43	0.48
18:AU:1:MET:HG2	32:BK:46:LEU:HD12	1.93	0.48
33:BL:145:ASP:O	33:BL:149:ASN:HB3	2.12	0.48
32:BK:53:GLY:HA2	35:BN:177:ALA:O	2.13	0.48
37:BP:74:VAL:CG1	37:BP:75:ILE:H	2.24	0.48
43:BV:142:SER:HG	43:BV:146:TYR:HE2	1.60	0.48
1:A1:1198:G:P	43:BV:215:ARG:HH21	2.35	0.48
21:C3:56:G:H4'	25:CD:146:SER:OG	2.12	0.48
24:CC:174:ALA:O	24:CC:178:ARG:HG3	2.13	0.48
26:CE:132:ILE:HG23	26:CE:144:LEU:HD21	1.95	0.48
26:CE:112:ILE:HD13	26:CE:177:ILE:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:46:PHE:HZ	29:CH:83:ASP:O	1.96	0.48
34:CM:177:GLU:HG3	34:CM:177:GLU:O	2.10	0.48
34:CM:34:LYS:HE3	37:CP:30:TYR:CE1	2.48	0.48
47:CO:173:UNK:CG	47:CO:174:UNK:N	2.76	0.48
40:CS:120:ARG:O	40:CS:123:ALA:HB3	2.13	0.48
43:CV:84:ILE:O	43:CV:131:ILE:HG23	2.13	0.48
43:CV:138:ARG:HB3	43:CV:186:THR:HG21	1.95	0.48
46:CY:57:CYS:SG	46:CY:59:PRO:HD2	2.53	0.48
1:D1:127:A:C5	1:D1:128:G:H1'	2.48	0.48
24:CC:311:ALA:HB1	1:D1:1374:C:H5'	1.95	0.48
1:D1:1600:U:C5	1:D1:1601:U:C5	3.01	0.48
1:D1:281:G:H5''	1:D1:282:G:P	2.51	0.48
1:D1:2954:G:O2'	1:D1:2955:A:H5'	2.13	0.48
23:CB:264:ARG:NH1	1:D1:2976:C:O2	2.46	0.48
1:D1:3125:G:C6	1:D1:3126:C:C4	3.01	0.48
1:D1:3132:A:H2'	1:D1:3133:G:OP1	2.12	0.48
1:D1:3343:U:H5''	1:D1:3344:U:OP1	2.13	0.48
1:D1:370:G:N2	1:D1:373:A:C8	2.81	0.48
1:D1:37:A:C5'	1:D1:38:A:H4'	2.42	0.48
1:D1:619:G:H5''	1:D1:620:A:OP1	2.13	0.48
1:D1:70:C:C4	1:D1:72:A:C5	3.01	0.48
6:DF:15:ILE:O	6:DF:21:LYS:HA	2.12	0.48
6:DF:2:VAL:CG1	6:DF:3:PHE:H	2.19	0.48
7:DG:49:PRO:HG2	7:DG:52:ARG:HB2	1.95	0.48
12:DM:32:ILE:CG2	12:DM:60:ASN:HB2	2.43	0.48
12:DM:55:ASN:O	12:DM:69:SER:HA	2.12	0.48
12:DM:74:SER:OG	12:DM:76:ARG:HB2	2.13	0.48
1:D1:2219:A:OP1	16:DQ:78:ARG:CZ	2.61	0.48
37:CP:88:ARG:HH22	17:DT:30:ILE:HG22	1.76	0.48
20:E2:45:G:O6	20:E2:104:G:C2	2.66	0.48
20:E2:3:A:N3	20:E2:3:A:H2'	2.27	0.48
22:EA:116:ASN:OD1	22:EA:125:GLY:HA3	2.13	0.48
22:EA:84:TYR:CE2	22:EA:87:GLN:HA	2.48	0.48
23:EB:108:LYS:HE2	23:EB:137:PHE:CD1	2.48	0.48
23:EB:238:LYS:HE3	1:F1:2332:C:P	2.53	0.48
23:EB:55:HIS:N	23:EB:55:HIS:CD2	2.75	0.48
24:EC:119:ARG:NH1	33:EL:204:ARG:HE	2.11	0.48
24:EC:351:SER:O	24:EC:355:ARG:HG3	2.13	0.48
26:EE:131:LYS:HE2	26:EE:145:GLN:CG	2.42	0.48
21:E3:63:A:O5'	29:EH:206:LEU:HG	2.13	0.48
34:EM:120:ALA:O	34:EM:255:ARG:NH1	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:EN:29:LEU:HA	35:EN:32:LYS:HG3	1.93	0.48
36:EO:41:ILE:O	36:EO:44:LEU:HB2	2.13	0.48
37:EP:15:PHE:N	37:EP:15:PHE:CD1	2.80	0.48
45:EX:69:LEU:HG	45:EX:73:PHE:O	2.13	0.48
42:EU:76:GLY:HA2	1:F1:133:C:C2'	2.43	0.48
1:F1:2324:A:H5''	1:F1:2324:A:C8	2.45	0.48
1:F1:2595:G:H4'	1:F1:2596:G:OP1	2.13	0.48
1:F1:25:C:O2'	1:F1:326:A:N3	2.37	0.48
1:F1:3344:U:O2	1:F1:3344:U:C2'	2.60	0.48
24:EC:202:ARG:NH2	1:F1:340:G:N7	2.50	0.48
1:F1:635:A:HO2'	1:F1:636:U:P	2.29	0.48
35:EN:92:ARG:HH22	1:F1:809:A:H4'	1.68	0.48
5:FE:41:LEU:CD1	5:FE:45:ILE:HG21	2.42	0.48
7:FG:35:ARG:HH12	13:FN:77:LEU:HB2	1.73	0.48
12:FM:13:VAL:HG12	12:FM:14:ASN:N	2.28	0.48
22:GA:68:TYR:HE1	1:H1:2520:G:O6	1.95	0.48
22:GA:84:TYR:CE2	22:GA:87:GLN:HA	2.47	0.48
23:GB:84:MET:CE	23:GB:179:ILE:HD11	2.42	0.48
24:GC:145:ARG:HD2	24:GC:253:GLY:O	2.13	0.48
24:GC:205:ARG:HB3	24:GC:206:TYR:CD2	2.47	0.48
26:GE:5:LEU:HD13	26:GE:58:TRP:CH2	2.48	0.48
26:GE:78:MET:O	26:GE:82:VAL:HG23	2.13	0.48
30:GI:7:VAL:HG22	30:GI:33:VAL:HB	1.95	0.48
36:GO:114:LYS:HB3	36:GO:146:LYS:HZ3	1.77	0.48
37:GP:21:THR:O	37:GP:21:THR:HG22	2.12	0.48
43:GV:105:LEU:CD1	43:GV:131:ILE:HD13	2.43	0.48
45:GX:80:ASN:HB3	1:H1:1413:G:H4'	1.94	0.48
45:GX:98:ILE:N	45:GX:123:ASN:ND2	2.52	0.48
1:H1:1062:A:H2'	1:H1:1063:C:C5'	2.41	0.48
1:H1:111:C:C2'	1:H1:112:A:H5'	2.42	0.48
1:H1:1231:A:H2'	1:H1:1232:A:H5'	1.94	0.48
1:H1:1370:A:N1	1:H1:1389:G:C6	2.81	0.48
1:H1:1488:A:O2'	1:H1:1489:U:H5'	2.13	0.48
1:H1:1698:G:C6	1:H1:1800:A:N1	2.81	0.48
1:H1:170:A:C5	1:H1:250:U:C4	3.01	0.48
1:H1:1866:A:H4'	1:H1:1867:C:OP2	2.12	0.48
1:H1:2143:A:H2'	1:H1:2144:A:O4'	2.12	0.48
1:H1:2146:G:H2'	1:H1:2147:C:H5'	1.95	0.48
25:GD:59:ILE:CD1	1:H1:2669:A:N3	2.75	0.48
1:H1:2884:A:O3'	10:HK:122:ARG:NH2	2.45	0.48
1:H1:300:G:H8	1:H1:300:G:H5'	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3248:C:H2'	1:H1:3249:U:C6	2.47	0.48
1:H1:105:A:H1'	1:H1:324:A:N3	2.28	0.48
23:GB:121:ASN:HB2	1:H1:3275:A:C5	2.49	0.48
1:H1:3340:U:H2'	1:H1:3341:C:H6	1.78	0.48
1:H1:363:G:C8	1:H1:363:G:H5'	2.44	0.48
1:H1:368:A:H4'	1:H1:369:U:OP1	2.13	0.48
1:H1:566:U:C5	1:H1:567:C:C6	3.01	0.48
1:H1:643:A:H4'	1:H1:644:A:O5'	2.13	0.48
1:H1:817:A:H2'	1:H1:818:U:C6	2.48	0.48
4:HC:83:ILE:CG2	4:HC:84:LYS:N	2.76	0.48
5:HE:28:PHE:C	5:HE:28:PHE:CD1	2.86	0.48
8:HH:31:ASN:OD1	8:HH:33:ASN:HB2	2.13	0.48
9:HJ:201:ASP:O	9:HJ:224:LEU:CD2	2.61	0.48
1:H1:1735:U:OP1	13:HN:76:ASN:ND2	2.45	0.48
14:HO:115:HIS:O	14:HO:118:ASN:N	2.46	0.48
1:A1:1123:A:H1'	1:A1:1124:G:OP1	2.13	0.48
1:A1:116:U:H3'	1:A1:117:G:H8	1.78	0.48
1:A1:1524:A:H2'	1:A1:1525:U:C6	2.48	0.48
1:A1:1736:G:C6	1:A1:1737:A:C6	3.00	0.48
1:A1:2123:U:C2'	1:A1:2124:C:H5'	2.43	0.48
1:A1:2343:A:C2'	1:A1:2344:U:H5''	2.43	0.48
1:A1:2509:U:P	1:A1:2575:G:N2	2.86	0.48
1:A1:2632:A:H2'	1:A1:2634:G:OP2	2.12	0.48
1:A1:2817:U:C2'	1:A1:2818:G:H5'	2.42	0.48
1:A1:3097:G:C2'	1:A1:3098:A:O5'	2.61	0.48
1:A1:37:A:C5'	1:A1:38:A:H4'	2.43	0.48
1:A1:549:G:H2'	1:A1:550:G:C8	2.48	0.48
1:A1:564:A:C2'	1:A1:564:A:N3	2.74	0.48
1:A1:790:C:O2	1:A1:790:C:H2'	2.13	0.48
6:AF:14:TYR:CZ	6:AF:22:GLY:HA2	2.48	0.48
6:AF:2:VAL:CG1	6:AF:3:PHE:H	2.23	0.48
13:AN:118:PHE:HD2	13:AN:139:PHE:CE1	2.30	0.48
16:AQ:19:GLU:O	16:AQ:23:GLN:HG3	2.13	0.48
18:AU:108:GLU:HA	18:AU:108:GLU:OE1	2.13	0.48
22:BA:30:TYR:CB	22:BA:164:ARG:HH11	2.25	0.48
1:A1:936:C:C5'	22:BA:16:VAL:CG2	2.90	0.48
22:BA:46:ILE:O	22:BA:86:GLY:N	2.42	0.48
22:BA:49:ILE:HA	22:BA:59:LEU:O	2.13	0.48
24:BC:276:THR:HG22	24:BC:277:GLY:N	2.26	0.48
29:BH:193:ASP:OD1	29:BH:198:LYS:HE3	2.14	0.48
29:BH:50:VAL:HG12	29:BH:152:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BI:7:VAL:HG22	30:BI:33:VAL:HB	1.94	0.48
36:BO:132:TYR:CD2	36:BO:138:LEU:HA	2.48	0.48
38:BQ:24:LEU:HB2	38:BQ:146:CYS:HB2	1.95	0.48
43:BV:213:ASN:HD22	43:BV:216:HIS:CD2	2.32	0.48
22:CA:46:ILE:HD12	22:CA:87:GLN:HB3	1.94	0.48
23:CB:267:GLN:HG3	23:CB:268:LEU:N	2.28	0.48
24:CC:105:ARG:NH2	1:D1:958:A:C2	2.82	0.48
24:CC:238:VAL:HA	24:CC:241:LEU:HD21	1.94	0.48
27:CF:196:VAL:HG21	27:CF:204:LEU:HD11	1.93	0.48
29:CH:139:ARG:HD3	29:CH:173:PHE:HE1	1.78	0.48
31:CJ:91:ARG:HD2	31:CJ:97:ILE:CD1	2.43	0.48
34:CM:254:ILE:O	34:CM:258:PRO:CD	2.60	0.48
34:CM:90:THR:O	34:CM:231:TRP:CZ3	2.66	0.48
35:CN:63:LEU:O	35:CN:87:VAL:HA	2.14	0.48
43:CV:127:VAL:C	43:CV:129:PRO:HD2	2.34	0.48
43:CV:105:LEU:HD12	43:CV:131:ILE:HD13	1.95	0.48
1:D1:1017:U:C6	1:D1:1017:U:C3'	2.97	0.48
1:D1:1060:C:H6	1:D1:1060:C:C5'	2.26	0.48
1:D1:1254:C:C3'	1:D1:1255:A:H5''	2.43	0.48
1:D1:1533:G:H5''	1:D1:1533:G:H8	1.78	0.48
1:D1:1691:U:H2'	1:D1:1692:G:H8	1.78	0.48
1:D1:187:A:O2'	1:D1:188:A:H5'	2.12	0.48
1:D1:2281:U:H4'	1:D1:2282:C:OP1	2.14	0.48
1:D1:2572:U:C2'	1:D1:2573:U:H5'	2.42	0.48
1:D1:3331:C:C4'	1:D1:3332:A:H5''	2.43	0.48
1:D1:442:G:N2	1:D1:536:A:C4	2.81	0.48
1:D1:725:C:O2'	1:D1:726:G:H5'	2.12	0.48
20:C2:114:G:N2	3:DB:11:LYS:NZ	2.61	0.48
5:DE:42:ARG:H	5:DE:92:GLN:HE21	1.60	0.48
1:D1:3227:A:C2	5:DE:80:TYR:CZ	3.00	0.48
7:DG:14:LEU:HD21	7:DG:43:PHE:CZ	2.47	0.48
1:D1:263:A:C4	16:DQ:30:ARG:NH1	2.78	0.48
20:E2:119:A:C2	20:E2:133:U:O2	2.66	0.48
23:EB:363:ILE:O	23:EB:363:ILE:HG22	2.12	0.48
24:EC:272:THR:O	24:EC:275:THR:O	2.31	0.48
26:EE:124:ILE:HD11	26:EE:162:SER:OG	2.13	0.48
26:EE:22:GLN:HB3	26:EE:39:ARG:NH2	2.28	0.48
27:EF:114:GLY:O	27:EF:115:LYS:HB2	2.12	0.48
30:EI:13:HIS:CE1	30:EI:118:VAL:HG13	2.48	0.48
35:EN:158:GLN:OE1	50:EN:307:HOH:O	2.20	0.48
37:EP:42:ILE:HG22	37:EP:60:ARG:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1024:A:C2'	1:F1:1025:G:H5'	2.43	0.48
1:F1:115:G:C4'	1:F1:116:U:OP1	2.52	0.48
1:F1:1205:A:C8	1:F1:1205:A:H5'	2.48	0.48
1:F1:1239:G:O3'	19:FX:106:LYS:NZ	2.41	0.48
1:F1:1373:G:H2'	1:F1:1374:C:C6	2.43	0.48
24:EC:300:ASN:O	1:F1:1376:A:H1'	2.13	0.48
1:F1:1540:U:C5	1:F1:1865:A:N3	2.81	0.48
1:F1:1652:U:H5''	1:F1:1655:A:H4'	1.95	0.48
1:F1:2135:A:C8	2:FA:2:THR:HG23	2.47	0.48
1:F1:2189:G:H1'	1:F1:2269:U:O2	2.13	0.48
1:F1:2255:U:O5'	1:F1:2255:U:C6	2.66	0.48
1:F1:2347:A:N6	1:F1:2348:G:C6	2.82	0.48
1:F1:2508:U:O2'	1:F1:2509:U:H2'	2.13	0.48
33:EL:172:ARG:HD3	1:F1:28:G:H5''	1.94	0.48
1:F1:2962:U:H2'	1:F1:2963:U:C6	2.48	0.48
1:F1:297:U:O4'	16:FQ:32:GLY:HA3	2.13	0.48
1:F1:3008:U:O2'	1:F1:3009:U:H5'	2.13	0.48
1:F1:3042:G:C6	1:F1:3043:U:C4	3.01	0.48
1:F1:1966:U:O2'	1:F1:3303:G:H1'	2.14	0.48
1:F1:345:C:C4	1:F1:347:A:C8	3.01	0.48
1:F1:624:G:HO2'	1:F1:625:C:H6	1.58	0.48
1:F1:940:A:N3	1:F1:940:A:C2'	2.76	0.48
2:FA:14:LYS:HD3	3:FB:52:TYR:HD1	1.76	0.48
5:FE:28:PHE:CD1	5:FE:28:PHE:C	2.87	0.48
13:FN:23:ALA:CB	13:FN:45:GLY:HA3	2.44	0.48
42:EU:118:ARG:HD2	18:FU:123:LEU:HD11	1.94	0.48
19:FX:93:LEU:HD21	19:FX:120:LEU:CD2	2.42	0.48
20:G2:71:G:C5	20:G2:72:C:C5	3.01	0.48
21:G3:81:A:H2'	21:G3:82:G:H5'	1.95	0.48
22:GA:203:VAL:HG12	22:GA:218:GLN:HG2	1.95	0.48
23:GB:86:ILE:CG1	23:GB:158:VAL:HG11	2.43	0.48
24:GC:119:ARG:NH1	33:GL:204:ARG:HE	2.11	0.48
24:GC:380:PHE:CE1	19:HX:22:VAL:HG22	2.48	0.48
24:GC:65:MET:HE3	24:GC:105:ARG:NH1	2.23	0.48
26:GE:92:LEU:HD12	26:GE:177:ILE:HG12	1.95	0.48
33:GL:106:VAL:HG21	33:GL:132:VAL:HG21	1.94	0.48
35:GN:75:THR:O	35:GN:79:GLN:HG3	2.13	0.48
37:GP:116:LYS:HZ1	37:GP:128:THR:CB	2.10	0.48
39:GR:99:THR:O	39:GR:103:ILE:HG13	2.13	0.48
43:GV:223:ASP:OD1	43:GV:223:ASP:N	2.45	0.48
43:GV:41:TRP:CD1	43:GV:177:CYS:SG	3.06	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GX:65:THR:O	45:GX:68:LEU:HB2	2.13	0.48
28:GG:8:UNK:CB	1:H1:1248:G:H22	2.12	0.48
1:H1:1373:G:H2'	1:H1:1374:C:C6	2.46	0.48
1:H1:187:A:O2'	1:H1:188:A:H5'	2.12	0.48
1:H1:207:U:O2	1:H1:207:U:H2'	2.13	0.48
1:H1:640:G:H2'	1:H1:641:U:H6	1.78	0.48
1:H1:683:G:H2'	1:H1:684:A:N7	2.28	0.48
1:H1:827:C:O2'	1:H1:828:C:H5'	2.12	0.48
22:GA:16:VAL:HG23	1:H1:936:C:P	2.53	0.48
1:H1:966:G:O4'	1:H1:1461:A:H1'	2.14	0.48
3:HB:15:ARG:NH2	50:HB:101:HOH:O	2.45	0.48
5:HE:69:LEU:HD21	5:HE:114:ASP:CG	2.32	0.48
6:HF:14:TYR:CZ	6:HF:22:GLY:HA2	2.48	0.48
6:HF:67:GLN:HE22	6:HF:75:LYS:HE3	1.77	0.48
15:HP:53:PHE:CE1	15:HP:55:THR:CG2	2.96	0.48
19:HX:167:LYS:HA	19:HX:188:THR:HG21	1.88	0.48
1:A1:1005:A:O2'	1:A1:1006:C:C5'	2.61	0.48
1:A1:1053:A:O2'	1:A1:1054:G:OP2	2.25	0.48
1:A1:1061:G:C4	1:A1:1062:A:C8	3.02	0.48
1:A1:1217:A:H62	1:A1:1342:U:H3	1.61	0.48
1:A1:1499:G:O2'	1:A1:1500:A:H5'	2.14	0.48
1:A1:851:G:O2'	1:A1:1614:A:H8	1.95	0.48
1:A1:1695:A:H2'	1:A1:1696:C:C6	2.47	0.48
1:A1:1554:G:N2	1:A1:1857:G:C4	2.81	0.48
1:A1:2537:C:H2'	1:A1:2538:C:H6	1.79	0.48
1:A1:3008:U:O2'	1:A1:3009:U:H5'	2.13	0.48
1:A1:3144:G:C6	1:A1:3146:G:C8	3.02	0.48
1:A1:3141:U:OP1	1:A1:3253:U:H1'	2.12	0.48
1:A1:3332:A:C2	44:BW:20:HIS:CE1	3.01	0.48
1:A1:402:U:H2'	1:A1:403:G:H5'	1.94	0.48
1:A1:471:A:H4'	24:BC:6:GLN:NE2	2.21	0.48
1:A1:700:G:O5'	1:A1:700:G:H8	1.95	0.48
1:A1:775:C:C2'	1:A1:775:C:O2	2.60	0.48
1:A1:947:U:OP1	2:AA:3:ARG:NH1	2.46	0.48
7:AG:60:ALA:O	7:AG:64:GLN:N	2.47	0.48
13:AN:101:LYS:HA	13:AN:106:ALA:HB3	1.94	0.48
13:AN:31:ASP:OD1	13:AN:31:ASP:N	2.46	0.48
13:AN:9:ARG:HD2	13:AN:83:THR:O	2.13	0.48
18:AU:15:HIS:HE1	50:AU:301:HOH:O	1.93	0.48
19:AX:163:PHE:HD1	26:BE:4:LEU:HD11	1.78	0.48
20:B2:11:C:H2'	20:B2:12:A:C8	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:267:GLN:HG3	23:BB:268:LEU:N	2.28	0.48
24:BC:28:VAL:HG11	24:BC:133:LEU:HD12	1.96	0.48
24:BC:99:ASN:HD22	24:BC:100:GLN:NE2	2.10	0.48
25:BD:115:LYS:CG	25:BD:116:TYR:N	2.77	0.48
33:BL:78:GLY:HA2	33:BL:89:ILE:CD1	2.43	0.48
35:BN:138:PHE:CE2	35:BN:140:LEU:HD13	2.48	0.48
1:A1:1088:A:N3	37:BP:130:ARG:NH2	2.61	0.48
40:BS:79:ILE:HD11	40:BS:100:ALA:HB2	1.95	0.48
20:B2:69:A:H5'	42:BU:11:ARG:HH22	1.78	0.48
43:BV:213:ASN:HD22	43:BV:216:HIS:HD2	1.61	0.48
43:BV:132:THR:HG21	43:BV:227:ARG:CD	2.43	0.48
21:C3:54:A:H5'	25:CD:7:ASN:ND2	2.28	0.48
22:CA:205:MET:O	22:CA:213:GLY:HA3	2.12	0.48
22:CA:212:HIS:O	22:CA:213:GLY:C	2.48	0.48
23:CB:377:PHE:CD2	23:CB:378:PHE:CE1	2.99	0.48
24:CC:202:ARG:O	24:CC:203:ASN:HB2	2.12	0.48
24:CC:64:GLY:O	24:CC:97:PHE:HB3	2.13	0.48
32:CK:8:THR:CG2	1:D1:685:G:H5'	2.43	0.48
39:CR:55:VAL:HG23	42:CU:83:ASP:CB	2.42	0.48
37:CP:110:GLN:NE2	1:D1:1094:G:H5'	2.28	0.48
1:D1:1318:A:H2'	1:D1:1319:C:H5''	1.94	0.48
1:D1:1211:A:H1'	1:D1:1350:G:N2	2.28	0.48
1:D1:1394:G:HO2'	1:D1:1395:U:H6	1.61	0.48
1:D1:1440:A:C5	1:D1:1441:U:C5	3.01	0.48
1:D1:1652:U:H5''	1:D1:1655:A:H4'	1.95	0.48
1:D1:1658:G:P	13:DN:107:LYS:HZ2	2.36	0.48
1:D1:2919:C:N3	1:D1:2923:U:H5	2.08	0.48
1:D1:2990:U:H2'	1:D1:2991:U:H6	1.78	0.48
1:D1:69:A:N6	1:D1:302:G:O2'	2.46	0.48
1:D1:3097:G:C2	1:D1:3116:A:C2	3.01	0.48
40:CS:8:SER:OG	1:D1:334:G:OP1	2.30	0.48
1:D1:434:A:C4'	1:D1:435:A:C8	2.95	0.48
1:D1:557:U:O2'	1:D1:558:U:H5'	2.13	0.48
1:D1:643:A:O2'	1:D1:644:A:P	2.70	0.48
1:D1:685:G:C2'	1:D1:686:U:OP2	2.62	0.48
5:DE:63:VAL:CG1	5:DE:64:VAL:N	2.76	0.48
5:DE:93:ALA:HA	8:DH:111:ASN:O	2.13	0.48
9:DJ:111:ASN:ND2	9:DJ:156:ASN:HD22	2.11	0.48
9:DJ:58:ILE:HG13	9:DJ:62:VAL:CG2	2.44	0.48
22:EA:31:ARG:HH12	22:EA:42:ILE:CG1	2.26	0.48
22:EA:46:ILE:O	22:EA:86:GLY:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:169:THR:OG1	1:F1:209:A:H2'	2.13	0.48
24:EC:7:ILE:HD11	24:EC:25:LEU:HD13	1.96	0.48
26:EE:22:GLN:O	26:EE:23:ARG:HB2	2.13	0.48
26:EE:5:LEU:HB2	26:EE:58:TRP:CZ3	2.49	0.48
29:EH:58:GLU:OE2	29:EH:160:PRO:HB2	2.12	0.48
31:EJ:10:GLN:HG3	31:EJ:129:ILE:HG22	1.91	0.48
32:EK:118:LEU:HB2	32:EK:141:VAL:CG2	2.41	0.48
32:EK:59:GLY:HA3	1:F1:734:A:H1'	1.96	0.48
24:EC:395:ASP:CG	37:EP:154:ARG:HH22	2.14	0.48
37:EP:17:LYS:HB3	37:EP:21:THR:HB	1.96	0.48
39:ER:94:VAL:HG12	39:ER:98:SER:OG	2.14	0.48
43:EV:138:ARG:HB3	43:EV:186:THR:HG21	1.94	0.48
43:EV:166:VAL:CG1	43:EV:175:ILE:HG22	2.44	0.48
43:EV:145:ILE:HD12	43:EV:182:ILE:HG12	1.94	0.48
43:EV:57:LYS:HE3	43:EV:61:ASP:OD2	2.14	0.48
43:EV:84:ILE:HD12	43:EV:234:LEU:HD23	1.95	0.48
44:EW:43:MET:HE2	44:EW:43:MET:HA	1.95	0.48
44:EW:66:ILE:HG22	44:EW:67:PRO:O	2.13	0.48
44:EW:91:LEU:HD23	44:EW:91:LEU:HA	1.62	0.48
45:EX:73:PHE:HE1	45:EX:120:ARG:HH11	1.60	0.48
1:F1:1027:G:O2'	1:F1:1028:A:P	2.70	0.48
1:F1:1051:C:H6	1:F1:1051:C:O5'	1.95	0.48
1:F1:1698:G:C6	1:F1:1800:A:N1	2.82	0.48
1:F1:199:A:N3	1:F1:201:A:C8	2.80	0.48
1:F1:2669:A:C3'	1:F1:2670:U:C6	2.96	0.48
1:F1:3047:U:C6	1:F1:3047:U:H3'	2.48	0.48
1:F1:3109:C:O3'	1:F1:3110:U:H6	1.96	0.48
1:F1:310:U:H3	1:F1:2766:A:H61	1.62	0.48
20:E2:3:A:N1	1:F1:3243:A:O4'	2.46	0.48
1:F1:550:G:C6	1:F1:551:U:C4	3.01	0.48
2:FA:25:ALA:HB1	3:FB:52:TYR:CD2	2.48	0.48
4:FC:65:LYS:HG3	4:FC:85:ARG:HE	1.77	0.48
6:FF:14:TYR:CE1	6:FF:90:PHE:HE2	2.31	0.48
8:FH:18:ALA:HB2	8:FH:39:LEU:CD2	2.44	0.48
1:F1:1101:U:H1'	17:FT:46:ALA:HB2	1.95	0.48
18:FU:106:SER:O	18:FU:110:ASN:ND2	2.45	0.48
19:FX:42:ARG:NE	19:FX:44:PHE:HE1	2.09	0.48
21:G3:19:G:H2'	21:G3:20:U:O4'	2.13	0.48
23:GB:218:VAL:HB	23:GB:332:ARG:NE	2.29	0.48
31:GJ:11:VAL:O	31:GJ:11:VAL:CG1	2.61	0.48
31:GJ:90:ARG:HB2	31:GJ:96:PHE:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:GL:78:GLY:HA2	33:GL:89:ILE:HD12	1.94	0.48
38:GQ:118:HIS:O	38:GQ:150:ILE:HA	2.13	0.48
43:GV:66:ALA:HB1	43:GV:72:PHE:HA	1.95	0.48
1:H1:1254:C:C3'	1:H1:1255:A:H5''	2.43	0.48
1:H1:146:U:OP1	1:H1:147:U:H3'	2.14	0.48
39:GR:43:LEU:HD11	1:H1:1599:G:C5'	2.43	0.48
1:H1:2701:U:H2'	1:H1:2702:U:C6	2.48	0.48
1:H1:3006:A:O2'	1:H1:3007:G:H5'	2.13	0.48
1:H1:3008:U:O5'	1:H1:3008:U:H6	1.96	0.48
1:H1:3047:U:H3'	1:H1:3047:U:H6	1.78	0.48
1:H1:3293:A:C2	1:H1:3294:A:C4	3.02	0.48
1:H1:585:A:C6	1:H1:586:A:C6	3.00	0.48
1:H1:629:A:OP1	1:H1:629:A:H4'	2.13	0.48
1:H1:68:A:C2	1:H1:69:A:N3	2.82	0.48
1:H1:768:A:O2'	1:H1:769:G:H5'	2.13	0.48
9:HJ:118:HIS:HD2	9:HJ:120:ASP:O	1.96	0.48
18:HU:58:LYS:CB	18:HU:63:TYR:HB3	2.41	0.48
1:A1:1063:C:H2'	1:A1:1064:C:H6	1.78	0.48
1:A1:122:U:H4'	1:A1:150:A:H1'	1.95	0.48
1:A1:1249:G:H2'	1:A1:1312:G:H22	1.78	0.48
1:A1:1691:U:H2'	1:A1:1692:G:C8	2.49	0.48
1:A1:2148:A:H2'	1:A1:2149:U:H6	1.77	0.48
1:A1:2350:G:H4'	38:BQ:141:TYR:CD1	2.48	0.48
1:A1:2598:A:O2'	1:A1:2599:G:H5'	2.13	0.48
1:A1:3127:U:C3'	1:A1:3128:G:H5''	2.43	0.48
1:A1:3204:A:H1'	1:A1:3207:A:H5''	1.96	0.48
1:A1:361:A:H2'	1:A1:362:G:C5'	2.25	0.48
1:A1:368:A:H4'	1:A1:369:U:OP1	2.12	0.48
1:A1:90:G:H4'	4:AC:53:LYS:HZ3	1.77	0.48
5:AE:173:TYR:CG	6:AF:106:PHE:CD1	3.01	0.48
6:AF:67:GLN:HE21	6:AF:71:LEU:CB	2.26	0.48
8:AH:9:VAL:HG12	8:AH:10:ALA:H	1.78	0.48
10:AK:93:LYS:HA	10:AK:105:PRO:HD3	1.96	0.48
20:B2:37:A:O3'	50:B2:314:HOH:O	2.19	0.48
20:B2:88:G:HO2'	20:B2:89:A:P	2.37	0.48
23:BB:294:THR:CG2	23:BB:295:ALA:N	2.76	0.48
23:BB:363:ILE:HG22	23:BB:363:ILE:O	2.12	0.48
1:A1:118:A:C5	27:BF:121:LYS:HD3	2.48	0.48
27:BF:76:THR:HG21	27:BF:174:LYS:HE3	1.96	0.48
32:BK:110:PHE:HE2	32:BK:128:LYS:HZ2	1.61	0.48
32:BK:148:THR:CG2	32:BK:149:ALA:N	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:73:ARG:HA	33:BL:74:PRO:HD2	1.60	0.48
34:BM:176:SER:O	34:BM:177:GLU:CG	2.54	0.48
34:BM:243:VAL:CG1	34:BM:247:PHE:CD2	2.97	0.48
38:BQ:118:HIS:O	38:BQ:150:ILE:HA	2.13	0.48
38:BQ:60:ILE:HD11	38:BQ:90:VAL:HG22	1.96	0.48
39:BR:100:LYS:N	39:BR:101:PRO:HD2	2.28	0.48
20:B2:74:A:H5''	40:BS:50:ARG:HE	1.77	0.48
42:BU:92:ILE:HA	42:BU:95:LYS:HE2	1.94	0.48
43:BV:144:LEU:CD2	43:BV:239:LEU:HD21	2.44	0.48
24:BC:317:HIS:CE1	43:BV:158:ILE:HD12	2.48	0.48
20:C2:111:A:O2'	20:C2:112:G:H5''	2.13	0.48
21:C3:66:G:N7	50:C3:332:HOH:O	2.34	0.48
21:C3:96:U:H2'	21:C3:97:G:H5''	1.96	0.48
26:CE:135:LYS:H	26:CE:138:GLU:HG2	1.78	0.48
27:CF:45:VAL:HB	27:CF:47:TRP:CE2	2.49	0.48
32:CK:117:ARG:HH11	32:CK:137:ARG:CZ	2.26	0.48
21:C3:21:G:C4'	34:CM:277:PHE:HD2	2.23	0.48
35:CN:172:ARG:HG2	35:CN:173:LYS:HG2	1.94	0.48
39:CR:145:ASN:HD22	39:CR:150:ILE:CD1	2.27	0.48
43:CV:63:LYS:NZ	1:D1:563:G:P	2.86	0.48
44:CW:66:ILE:HG22	44:CW:67:PRO:O	2.13	0.48
45:CX:20:VAL:HG12	45:CX:52:ARG:HH12	1.78	0.48
45:CX:4:LYS:HD2	45:CX:92:ARG:HE	1.77	0.48
1:D1:1159:C:C2'	1:D1:1160:A:H5'	2.43	0.48
1:D1:116:U:H3'	1:D1:117:G:H8	1.78	0.48
1:D1:1237:U:O2'	1:D1:1238:U:H5'	2.13	0.48
1:D1:1383:G:HO2'	1:D1:1384:G:P	2.37	0.48
1:D1:1600:U:H2'	1:D1:1601:U:O4'	2.12	0.48
1:D1:1686:G:H22	1:D1:1813:A:H2	1.61	0.48
46:CY:12:ARG:HH12	1:D1:1952:G:P	2.36	0.48
1:D1:20:G:C6	1:D1:21:A:N7	2.81	0.48
1:D1:2408:A:O2'	1:D1:2409:G:H5'	2.13	0.48
1:D1:2557:A:H2'	1:D1:2558:U:C6	2.48	0.48
1:D1:2765:C:O2	1:D1:2765:C:C2'	2.61	0.48
1:D1:3142:A:H8	1:D1:3142:A:O5'	1.96	0.48
1:D1:340:G:H5''	1:D1:343:A:H1'	1.95	0.48
1:D1:67:U:O2	18:DU:59:GLN:NE2	2.46	0.48
1:D1:978:G:OP2	17:DT:15:LYS:NZ	2.36	0.48
7:DG:27:TYR:HD2	7:DG:52:ARG:HD3	1.76	0.48
9:DJ:159:GLY:O	9:DJ:221:ILE:HD13	2.13	0.48
15:DP:32:TYR:CD1	15:DP:32:TYR:N	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:155:A:O3'	16:DQ:28:VAL:CG2	2.61	0.48
16:DQ:52:ALA:O	16:DQ:55:GLU:HB2	2.14	0.48
20:E2:60:C:O2'	20:E2:61:G:H5'	2.14	0.48
22:EA:9:ARG:HD3	1:F1:936:C:OP2	2.13	0.48
24:EC:149:ILE:HG22	24:EC:149:ILE:O	2.12	0.48
24:EC:175:PHE:CD1	24:EC:175:PHE:C	2.87	0.48
35:EN:122:LEU:HA	35:EN:126:GLN:OE1	2.12	0.48
35:EN:53:LEU:C	35:EN:60:LYS:NZ	2.67	0.48
36:EO:62:ARG:NH2	1:F1:3057:U:OP2	2.46	0.48
42:EU:90:ARG:HG2	42:EU:94:ARG:HE	1.78	0.48
1:F1:1249:G:C2'	1:F1:1250:A:OP2	2.61	0.48
30:EI:17:ARG:HH22	1:F1:1344:A:H4'	1.78	0.48
1:F1:169:A:P	1:F1:249:G:H22	2.37	0.48
1:F1:2143:A:H2'	1:F1:2144:A:O4'	2.12	0.48
1:F1:2700:A:H2'	1:F1:2701:U:O4'	2.14	0.48
1:F1:2872:C:O2'	1:F1:2873:C:H5'	2.14	0.48
1:F1:3198:A:N6	1:F1:3199:G:C6	2.80	0.48
20:E2:3:A:H2	1:F1:3243:A:O4'	1.94	0.48
1:F1:592:A:H2'	1:F1:593:U:H6	1.76	0.48
1:F1:861:A:C1'	1:F1:883:A:C2	2.96	0.48
4:FC:44:LYS:CD	4:FC:52:THR:HG21	2.17	0.48
4:FC:93:ASP:O	4:FC:97:ILE:HG13	2.13	0.48
11:FL:21:ARG:HG2	11:FL:22:LYS:N	2.29	0.48
11:FL:59:VAL:HG12	11:FL:63:GLU:HB3	1.95	0.48
6:FF:7:VAL:O	19:FX:162:LYS:HA	2.13	0.48
21:G3:111:U:O4	34:GM:21:ARG:NH1	2.47	0.48
24:GC:314:THR:HG21	1:H1:1372:A:N3	2.28	0.48
24:GC:91:ARG:HG3	24:GC:91:ARG:O	2.12	0.48
27:GF:150:VAL:HG21	27:GF:156:VAL:HG21	1.94	0.48
27:GF:144:VAL:HG23	27:GF:168:VAL:CG1	2.44	0.48
28:GG:31:UNK:CA	1:H1:1257:G:C5'	2.91	0.48
28:GG:58:UNK:HB1	28:GG:61:UNK:HG2	1.95	0.48
29:GH:98:ARG:NH2	29:GH:119:PHE:CZ	2.81	0.48
32:GK:61:ARG:HA	35:GN:172:ARG:NH1	2.23	0.48
33:GL:37:HIS:NE2	33:GL:63:ARG:HD2	2.28	0.48
38:GQ:8:ARG:HH22	38:GQ:117:GLN:NE2	2.09	0.48
43:GV:123:MET:HG3	1:H1:1012:U:H1'	1.96	0.48
1:H1:1022:A:H2'	1:H1:1023:A:O4'	2.13	0.48
1:H1:1307:C:O2'	1:H1:1308:U:H5'	2.14	0.48
45:GX:79:ARG:CZ	1:H1:1448:G:H4'	2.42	0.48
33:GL:55:ASN:HB3	1:H1:145:A:H4'	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:78:VAL:O	1:H1:1462:U:C4	2.66	0.48
1:H1:1596:U:H4'	1:H1:1597:U:O5'	2.10	0.48
1:H1:1682:G:H2'	1:H1:1683:U:C6	2.48	0.48
1:H1:2211:G:O5'	1:H1:2211:G:H8	1.96	0.48
1:H1:2278:G:HO2'	1:H1:2279:C:P	2.35	0.48
1:H1:2347:A:OP2	50:H1:4255:HOH:O	2.19	0.48
1:H1:2669:A:O3'	1:H1:2670:U:C6	2.60	0.48
1:H1:347:A:H4'	1:H1:366:A:N6	2.29	0.48
1:H1:361:A:H2'	1:H1:362:G:C5'	2.21	0.48
1:H1:467:A:C6	1:H1:468:A:C4	3.01	0.48
1:H1:512:G:N1	1:H1:513:G:C5	2.81	0.48
1:H1:549:G:H2'	1:H1:550:G:C8	2.48	0.48
1:H1:621:G:C6	1:H1:622:G:N1	2.82	0.48
1:H1:689:A:H2'	1:H1:690:U:H6	1.78	0.48
4:HC:95:THR:O	4:HC:99:LYS:HG3	2.13	0.48
12:HM:44:LYS:HA	12:HM:48:LYS:O	2.13	0.48
13:HN:124:THR:O	13:HN:124:THR:HG22	2.13	0.48
14:HO:87:VAL:HG21	14:HO:115:HIS:CD2	2.48	0.48
15:HP:61:ALA:O	15:HP:65:LYS:HG3	2.13	0.48
18:HU:30:LYS:N	18:HU:33:ARG:HH21	2.11	0.48
6:HF:30:ILE:CG2	19:HX:163:PHE:HE2	2.25	0.48
1:A1:1128:G:H2'	1:A1:1129:C:C6	2.49	0.48
1:A1:1205:A:H5'	1:A1:1205:A:C8	2.48	0.48
1:A1:1595:A:N7	1:A1:1596:U:C2	2.81	0.48
1:A1:1663:C:O2'	1:A1:1664:G:H5'	2.13	0.48
1:A1:1944:U:N3	1:A1:1954:A:C2	2.81	0.48
1:A1:2310:G:P	50:A1:4184:HOH:O	2.69	0.48
1:A1:2533:C:H2'	1:A1:2533:C:O2	2.12	0.48
1:A1:2750:G:H4'	1:A1:2751:A:OP1	2.12	0.48
1:A1:3257:U:H2'	1:A1:3258:C:C6	2.49	0.48
1:A1:3294:A:H8	1:A1:3294:A:O5'	1.95	0.48
1:A1:1519:G:N3	3:AB:13:PHE:HE1	2.12	0.48
1:A1:1753:A:N6	7:AG:47:ASN:O	2.41	0.48
7:AG:64:GLN:CG	7:AG:64:GLN:O	2.61	0.48
8:AH:43:ASN:O	8:AH:84:ASN:HA	2.14	0.48
11:AL:23:VAL:HG21	11:AL:33:GLN:CD	2.33	0.48
13:AN:124:THR:O	13:AN:124:THR:HG22	2.13	0.48
18:AU:9:VAL:HG22	35:BN:168:ARG:HH11	1.79	0.48
21:B3:19:G:H2'	21:B3:20:U:O4'	2.12	0.48
21:B3:28:C:H1'	21:B3:54:A:H61	1.79	0.48
24:BC:157:TYR:CE1	24:BC:179:VAL:HG13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BD:109:HIS:HE2	25:BD:120:THR:CG2	2.25	0.48
29:BH:19:LYS:HG3	29:BH:26:VAL:CG1	2.44	0.48
33:BL:174:LEU:HD22	33:BL:185:ARG:NH1	2.29	0.48
32:BK:49:LYS:O	35:BN:156:PRO:O	2.32	0.48
35:BN:73:ASN:HB2	35:BN:76:ASN:OD1	2.14	0.48
42:BU:80:LYS:HB3	42:BU:81:PRO:HD2	1.94	0.48
20:C2:93:A:H2'	20:C2:94:U:H6	1.78	0.48
23:CB:363:ILE:HG22	23:CB:363:ILE:O	2.12	0.48
26:CE:135:LYS:HB2	26:CE:138:GLU:HG2	1.95	0.48
27:CF:46:ARG:O	39:CR:37:PHE:HB2	2.13	0.48
34:CM:164:LYS:O	34:CM:168:ASP:HB2	2.14	0.48
34:CM:38:ILE:HD12	37:CP:70:ARG:NH1	2.29	0.48
35:CN:3:ILE:HG23	43:CV:107:GLN:HB3	1.96	0.48
35:CN:73:ASN:HB2	35:CN:76:ASN:OD1	2.13	0.48
1:D1:1055:A:H2'	1:D1:1056:A:C8	2.42	0.48
1:D1:1062:A:H2'	1:D1:1063:C:C5'	2.38	0.48
45:CX:49:ARG:HB3	1:D1:1173:A:OP1	2.14	0.48
1:D1:1394:G:O2'	1:D1:1395:U:O5'	2.31	0.48
1:D1:207:U:O2	1:D1:207:U:H2'	2.11	0.48
1:D1:2517:G:C4'	1:D1:2518:A:OP1	2.57	0.48
1:D1:268:G:N2	1:D1:294:A:OP2	2.38	0.48
1:D1:3030:A:H2'	1:D1:3031:U:C6	2.48	0.48
1:D1:3226:A:N1	5:DE:83:ASN:O	2.46	0.48
1:D1:3344:U:C4'	1:D1:3345:A:OP2	2.54	0.48
1:D1:401:U:H2'	1:D1:401:U:O2	2.12	0.48
1:D1:467:A:C6	1:D1:468:A:C4	3.02	0.48
1:D1:619:G:HO2'	1:D1:620:A:H2	1.58	0.48
24:CC:319:ARG:CZ	1:D1:620:A:N7	2.75	0.48
1:D1:820:G:H2'	1:D1:821:U:C5'	2.44	0.48
1:D1:997:G:C8	50:D1:4082:HOH:O	2.56	0.48
5:DE:67:LYS:HD2	5:DE:109:THR:HB	1.96	0.48
5:DE:135:THR:HB	5:DE:138:GLN:HG3	1.96	0.48
1:D1:3232:A:H1'	5:DE:94:TYR:CE2	2.48	0.48
7:DG:64:GLN:CG	7:DG:64:GLN:O	2.62	0.48
8:DH:13:ARG:NE	8:DH:15:TRP:CE2	2.82	0.48
9:DJ:118:HIS:HE1	9:DJ:146:VAL:HB	1.72	0.48
10:DK:84:ALA:O	10:DK:88:LYS:HG3	2.14	0.48
11:DL:83:CYS:O	11:DL:87:VAL:HG23	2.13	0.48
12:DM:21:CYS:O	12:DM:24:PRO:HD2	2.13	0.48
13:DN:124:THR:HG22	13:DN:124:THR:O	2.14	0.48
18:DU:58:LYS:CB	18:DU:63:TYR:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DX:96:GLN:N	19:DX:134:THR:CG2	2.76	0.48
23:EB:111:ASP:OD1	23:EB:111:ASP:N	2.44	0.48
23:EB:26:ARG:NH2	1:F1:2992:G:OP2	2.46	0.48
25:ED:97:SER:HB3	1:F1:2661:G:O4'	2.12	0.48
30:EI:101:LEU:HD11	30:EI:103:ILE:HG12	1.94	0.48
31:EJ:32:ASN:HD21	31:EJ:117:GLN:H	1.59	0.48
32:EK:74:VAL:HG13	32:EK:113:LEU:HG	1.94	0.48
36:EO:84:THR:HB	36:EO:87:ALA:H	1.78	0.48
37:EP:57:TYR:OH	37:EP:87:LYS:HD2	2.13	0.48
39:ER:75:LEU:HD23	39:ER:75:LEU:HA	1.57	0.48
41:ET:10:PHE:HZ	41:ET:51:ILE:HD12	1.77	0.48
1:F1:1105:U:H6	1:F1:1105:U:O5'	1.96	0.48
1:F1:1506:G:N2	1:F1:1896:C:C5	2.80	0.48
1:F1:2274:A:C5'	1:F1:2300:G:H22	2.26	0.48
1:F1:2278:G:HO2'	1:F1:2279:C:P	2.35	0.48
1:F1:2572:U:O2'	1:F1:2573:U:H5'	2.13	0.48
1:F1:2703:G:OP2	1:F1:2705:U:C1'	2.58	0.48
33:EL:188:ARG:NH2	1:F1:278:U:O2'	2.44	0.48
23:EB:220:LYS:CD	1:F1:3036:U:OP1	2.62	0.48
1:F1:3283:C:H2'	1:F1:3284:G:H8	1.78	0.48
1:F1:344:G:O6	1:F1:347:A:OP1	2.32	0.48
1:F1:679:C:O2'	1:F1:680:A:H5'	2.14	0.48
1:F1:683:G:H2'	1:F1:684:A:N7	2.29	0.48
6:FF:28:VAL:CG1	6:FF:66:ASN:HA	2.43	0.48
6:FF:45:ARG:NH1	19:FX:84:ASN:O	2.47	0.48
8:FH:57:VAL:O	8:FH:104:LEU:HD22	2.13	0.48
11:FL:73:THR:HG22	11:FL:74:VAL:N	2.28	0.48
13:FN:52:LYS:O	13:FN:65:ARG:NE	2.47	0.48
16:FQ:7:VAL:CG1	16:FQ:7:VAL:O	2.61	0.48
18:FU:45:PHE:O	18:FU:147:GLN:OE1	2.32	0.48
19:FX:117:VAL:O	19:FX:120:LEU:HB3	2.14	0.48
20:G2:44:A:OP1	2:HA:68:MET:HG2	2.13	0.48
23:GB:86:ILE:HD13	23:GB:158:VAL:HG11	1.94	0.48
24:GC:149:ILE:HG23	24:GC:152:VAL:HB	1.96	0.48
24:GC:299:ILE:HA	24:GC:304:VAL:HG11	1.95	0.48
26:GE:87:LYS:O	26:GE:184:LEU:HB2	2.14	0.48
27:GF:66:VAL:HB	27:GF:226:GLY:O	2.13	0.48
30:GI:73:ARG:CD	30:GI:144:VAL:HG12	2.28	0.48
33:GL:14:LYS:HZ1	1:H1:268:G:C4'	2.26	0.48
33:GL:59:TYR:OH	33:GL:148:ILE:HD13	2.13	0.48
32:GK:61:ARG:CA	35:GN:172:ARG:HH12	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:GS:24:HIS:NE2	40:GS:25:LEU:HG	2.28	0.48
40:GS:86:LYS:HE3	40:GS:96:ILE:CD1	2.43	0.48
42:GU:20:GLY:O	42:GU:24:LYS:HG3	2.13	0.48
1:H1:104:U:H5''	18:HU:37:ARG:HH22	1.77	0.48
1:H1:1110:U:H5'	1:H1:1111:G:OP2	2.13	0.48
1:H1:1166:G:H2'	1:H1:1167:G:O4'	2.12	0.48
1:H1:1466:G:O2'	1:H1:1467:G:H5'	2.13	0.48
1:H1:1793:A:C2'	1:H1:1794:G:H5'	2.44	0.48
1:H1:1815:G:H2'	1:H1:1816:A:C8	2.49	0.48
1:H1:1179:G:H1'	1:H1:2365:G:O2'	2.13	0.48
1:H1:2890:A:H2'	1:H1:2891:A:O4'	2.13	0.48
1:H1:298:G:H2'	1:H1:299:G:H5'	1.95	0.48
1:H1:500:G:O2'	1:H1:501:A:O5'	2.27	0.48
1:H1:700:G:H8	1:H1:700:G:O5'	1.96	0.48
1:H1:962:G:N2	50:H1:4324:HOH:O	2.46	0.48
5:HE:190:LYS:O	6:HF:103:LEU:O	2.31	0.48
6:HF:7:VAL:HG22	6:HF:55:LEU:HD21	1.95	0.48
16:HQ:19:GLU:O	16:HQ:23:GLN:HG3	2.14	0.48
19:HX:113:LEU:HD11	19:HX:140:THR:CG2	2.40	0.48
19:HX:7:GLN:HE22	19:HX:80:GLU:N	2.12	0.48
1:A1:1050:C:H2'	1:A1:1051:C:N1	2.28	0.48
1:A1:1211:A:H1'	1:A1:1350:G:N2	2.27	0.48
1:A1:1231:A:H2'	1:A1:1232:A:H5'	1.96	0.48
1:A1:169:A:P	1:A1:249:G:H22	2.35	0.48
1:A1:3011:G:N2	1:A1:3020:G:C5	2.81	0.48
1:A1:652:U:C2	1:A1:653:C:C6	3.02	0.48
1:A1:79:C:H2'	1:A1:80:C:H5'	1.95	0.48
2:AA:44:MET:CA	2:AA:44:MET:CE	2.83	0.48
6:AF:15:ILE:O	6:AF:21:LYS:HA	2.13	0.48
6:AF:34:ASN:C	6:AF:50:ILE:HG13	2.34	0.48
9:AJ:49:ILE:CD1	9:AJ:88:LEU:HD13	2.44	0.48
1:A1:1828:C:H1'	11:AL:61:PRO:O	2.14	0.48
11:AL:59:VAL:HG12	11:AL:63:GLU:HB3	1.95	0.48
13:AN:75:VAL:HG12	13:AN:76:ASN:O	2.14	0.48
1:A1:462:G:H5''	14:AO:64:LYS:NZ	2.29	0.48
15:AP:45:ARG:HD2	15:AP:46:GLY:N	2.28	0.48
1:A1:114:A:C5'	16:AQ:37:ARG:HH22	2.27	0.48
19:AX:148:ILE:HG13	19:AX:154:LEU:CD2	2.43	0.48
19:AX:18:VAL:HG21	19:AX:117:VAL:HG12	1.94	0.48
1:A1:2179:U:OP1	22:BA:236:VAL:HG12	2.14	0.48
24:BC:126:ARG:HB3	24:BC:283:TYR:HE2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BC:333:LEU:HA	43:BV:163:ASN:HD21	1.78	0.48
30:BI:11:LYS:CD	30:BI:36:ARG:NH1	2.76	0.48
31:BJ:23:VAL:CG2	31:BJ:41:ILE:O	2.61	0.48
32:BK:116:GLY:O	32:BK:137:ARG:NH1	2.47	0.48
33:BL:119:TYR:CE1	33:BL:131:GLU:HB2	2.48	0.48
21:B3:120:U:OP2	34:BM:270:PRO:CB	2.62	0.48
34:BM:49:TYR:O	34:BM:144:ALA:HA	2.13	0.48
35:BN:73:ASN:N	35:BN:76:ASN:OD1	2.47	0.48
1:A1:11:A:H4'	39:BR:39:ARG:CZ	2.44	0.48
39:BR:99:THR:O	39:BR:103:ILE:HG13	2.14	0.48
1:A1:1366:C:H5''	45:BX:62:ASP:HA	1.95	0.48
20:C2:15:G:N2	1:D1:409:G:C4	2.82	0.48
21:C3:70:G:C2	21:C3:71:G:C8	3.01	0.48
21:C3:83:G:N1	21:C3:93:G:N2	2.51	0.48
23:CB:22:THR:HG22	23:CB:23:ARG:N	2.29	0.48
23:CB:294:THR:CG2	23:CB:295:ALA:N	2.76	0.48
23:CB:56:ILE:HG22	23:CB:57:LEU:N	2.29	0.48
24:CC:28:VAL:HG11	24:CC:133:LEU:HD12	1.95	0.48
24:CC:308:VAL:CG1	35:CN:40:ARG:NH1	2.73	0.48
29:CH:17:TYR:HD2	29:CH:96:VAL:HB	1.78	0.48
30:CI:184:PRO:HA	30:CI:187:LYS:HD3	1.94	0.48
33:CL:164:LEU:HD23	33:CL:172:ARG:HH22	1.79	0.48
38:CQ:8:ARG:NH1	38:CQ:118:HIS:N	2.62	0.48
43:CV:123:MET:HG3	1:D1:1012:U:H1'	1.95	0.48
43:CV:170:LEU:HD11	43:CV:198:PHE:HB2	1.96	0.48
21:C3:101:A:H4'	1:D1:1078:U:O2'	2.14	0.48
1:D1:1453:U:O2'	1:D1:1454:A:H5'	2.13	0.48
1:D1:1490:G:N2	1:D1:1493:A:OP2	2.44	0.48
1:D1:1593:A:C2	1:D1:1594:C:N3	2.81	0.48
1:D1:1779:C:O2'	1:D1:1780:A:H5'	2.13	0.48
1:D1:2103:A:C2	1:D1:2104:C:C2	3.01	0.48
1:D1:2109:G:H2'	1:D1:2110:C:H5'	1.96	0.48
1:D1:2324:A:C5	1:D1:2325:C:C5	3.00	0.48
1:D1:283:A:OP2	1:D1:283:A:H4'	2.12	0.48
1:D1:3046:A:H5''	1:D1:3047:U:OP2	2.14	0.48
1:D1:3175:A:H4'	1:D1:3176:A:OP2	2.13	0.48
1:D1:37:A:H5''	1:D1:38:A:H4'	1.94	0.48
2:DA:44:MET:CE	2:DA:44:MET:CA	2.81	0.48
6:DF:17:TYR:O	6:DF:17:TYR:HD1	1.96	0.48
9:DJ:49:ILE:CD1	9:DJ:88:LEU:HD13	2.44	0.48
9:DJ:80:GLU:O	9:DJ:84:ILE:HG13	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:DM:75:LYS:O	12:DM:105:TYR:HE2	1.96	0.48
13:DN:89:GLU:OE1	13:DN:89:GLU:N	2.44	0.48
35:CN:25:VAL:HG11	14:DO:7:GLU:HB2	1.95	0.48
1:D1:527:A:HO2'	14:DO:88:GLN:HE21	1.55	0.48
14:DO:98:PHE:HD2	14:DO:103:LEU:HB3	1.78	0.48
16:DQ:7:VAL:CG1	18:DU:185:LYS:HG3	2.43	0.48
19:DX:137:ILE:HG13	19:DX:137:ILE:O	2.13	0.48
6:DF:30:ILE:CG2	19:DX:163:PHE:HE2	2.27	0.48
19:DX:7:GLN:NE2	19:DX:80:GLU:H	2.10	0.48
21:E3:54:A:O4'	25:ED:7:ASN:ND2	2.38	0.48
22:EA:114:VAL:HG12	22:EA:115:CYS:N	2.28	0.48
22:EA:3:ARG:HG2	22:EA:4:VAL:H	1.78	0.48
24:EC:276:THR:CG2	24:EC:282:GLY:HA2	2.44	0.48
27:EF:126:LYS:NZ	27:EF:194:THR:HG1	2.04	0.48
29:EH:136:PHE:HE1	29:EH:159:PHE:HZ	1.62	0.48
33:EL:22:ILE:O	33:EL:26:ARG:HG3	2.14	0.48
34:EM:64:ILE:CD1	34:EM:109:LEU:HD22	2.37	0.48
34:EM:228:PHE:CD2	34:EM:231:TRP:CD1	3.02	0.48
35:EN:158:GLN:CD	50:EN:306:HOH:O	2.23	0.48
40:ES:117:LEU:HD23	40:ES:120:ARG:CZ	2.44	0.48
46:EY:10:ILE:CD1	46:EY:30:GLU:HB3	2.44	0.48
1:F1:1041:C:H2'	1:F1:1041:C:O2	2.12	0.48
1:F1:1241:U:H2'	1:F1:1242:U:H6	1.77	0.48
1:F1:1343:G:O6	19:FX:167:LYS:CD	2.60	0.48
1:F1:146:U:C4'	1:F1:147:U:O5'	2.56	0.48
1:F1:1740:U:H5''	1:F1:1741:U:OP1	2.14	0.48
1:F1:2281:U:H4'	1:F1:2282:C:OP1	2.12	0.48
1:F1:2871:U:H2'	1:F1:2872:C:C6	2.49	0.48
1:F1:2:U:H6	1:F1:2:U:O5'	1.97	0.48
1:F1:3097:G:H2'	1:F1:3098:A:O5'	2.14	0.48
1:F1:3257:U:H2'	1:F1:3258:C:C6	2.49	0.48
1:F1:625:C:C4	1:F1:626:C:C5	3.01	0.48
1:F1:651:U:C4	1:F1:652:U:C4	3.02	0.48
1:F1:784:G:C2	1:F1:797:A:N6	2.81	0.48
5:FE:46:ALA:HB3	5:FE:49:THR:OG1	2.13	0.48
1:F1:1191:G:H5''	8:FH:33:ASN:HD21	1.79	0.48
8:FH:52:GLN:O	8:FH:77:ILE:O	2.32	0.48
9:FJ:162:HIS:CG	9:FJ:163:PRO:HD2	2.49	0.48
16:FQ:52:ALA:O	16:FQ:55:GLU:HB2	2.14	0.48
19:FX:16:MET:HE3	19:FX:18:VAL:HG22	1.94	0.48
21:G3:36:C:O2'	21:G3:37:A:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:41:TYR:CZ	1:H1:2541:U:C2	3.02	0.48
22:GA:84:TYR:CE1	22:GA:87:GLN:HB2	2.49	0.48
23:GB:294:THR:CG2	23:GB:295:ALA:N	2.77	0.48
24:GC:27:ALA:O	24:GC:30:THR:HB	2.13	0.48
25:GD:17:LEU:HB3	25:GD:76:ALA:HB1	1.96	0.48
32:GK:98:LYS:HA	18:HU:166:VAL:HG23	1.94	0.48
33:GL:26:ARG:CZ	33:GL:43:SER:OG	2.62	0.48
43:GV:57:LYS:HE3	43:GV:61:ASP:OD2	2.14	0.48
46:GY:10:ILE:HD12	46:GY:30:GLU:HB3	1.95	0.48
1:H1:1095:C:O2	1:H1:1095:C:C2'	2.62	0.48
1:H1:1223:U:O2'	1:H1:1224:A:H5'	2.13	0.48
43:GV:109:HIS:CD2	1:H1:1360:C:O2'	2.67	0.48
1:H1:1595:A:C6	1:H1:1596:U:H1'	2.48	0.48
1:H1:2270:A:N3	1:H1:2270:A:H2'	2.28	0.48
1:H1:2907:A:H5''	1:H1:2907:A:H8	1.77	0.48
1:H1:3005:A:H2'	1:H1:3006:A:C8	2.48	0.48
1:H1:3081:C:O3'	1:H1:3082:C:H3'	2.13	0.48
23:GB:119:TYR:HE1	1:H1:3255:A:C5'	2.27	0.48
1:H1:3345:A:H8	1:H1:3345:A:OP2	1.95	0.48
1:H1:640:G:H2'	1:H1:641:U:C6	2.49	0.48
1:H1:9:G:O2'	1:H1:1587:A:N6	2.47	0.48
4:HC:14:LYS:HB2	4:HC:75:CYS:SG	2.53	0.48
11:HL:5:ILE:CD1	11:HL:22:LYS:HG2	2.44	0.48
1:H1:1702:G:N7	12:HM:76:ARG:NH2	2.59	0.48
16:HQ:83:THR:HG22	16:HQ:85:ARG:HB3	1.95	0.48
18:HU:123:LEU:HD23	18:HU:136:VAL:HG22	1.94	0.48
1:A1:1186:A:OP1	35:BN:2:ALA:HB3	2.13	0.48
1:A1:1254:C:H3'	1:A1:1255:A:H5''	1.96	0.48
1:A1:127:A:C5	1:A1:128:G:H1'	2.48	0.48
1:A1:1902:C:O2	1:A1:1902:C:H2'	2.12	0.48
1:A1:2125:C:O2'	1:A1:2140:A:N3	2.46	0.48
1:A1:2147:C:O2'	1:A1:2238:A:N1	2.38	0.48
1:A1:2324:A:C5	1:A1:2325:C:C5	3.01	0.48
1:A1:2990:U:O2'	1:A1:2991:U:H5'	2.13	0.48
1:A1:3070:C:H2'	1:A1:3071:C:C6	2.49	0.48
1:A1:3114:U:C3'	1:A1:3115:C:H5''	2.43	0.48
1:A1:3198:A:C6	1:A1:3199:G:C6	3.02	0.48
1:A1:555:G:C3'	1:A1:556:A:H5''	2.44	0.48
1:A1:591:G:C2'	1:A1:592:A:O5'	2.62	0.48
1:A1:632:G:C5	1:A1:633:C:C5	3.02	0.48
1:A1:726:G:H2'	1:A1:727:C:H6	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:963:C:H5'	50:A1:3773:HOH:O	2.12	0.48
2:AA:44:MET:HE3	2:AA:44:MET:HA	1.89	0.48
6:AF:14:TYR:OH	6:AF:22:GLY:HA2	2.14	0.48
7:AG:38:THR:O	7:AG:40:LYS:HE2	2.14	0.48
8:AH:107:MET:HB3	8:AH:109:TYR:CE2	2.49	0.48
5:AE:179:THR:OG1	8:AH:12:THR:HA	2.12	0.48
8:AH:18:ALA:HB2	8:AH:39:LEU:CD2	2.44	0.48
9:AJ:215:ILE:O	9:AJ:219:GLU:HG3	2.13	0.48
7:AG:63:ALA:HB1	13:AN:2:ALA:HB1	1.94	0.48
13:AN:91:CYS:SG	13:AN:96:LEU:HD12	2.53	0.48
18:AU:123:LEU:CD2	18:AU:135:LEU:O	2.62	0.48
21:B3:83:G:N1	21:B3:93:G:N2	2.48	0.48
24:BC:377:ILE:HG13	24:BC:377:ILE:H	1.48	0.48
21:B3:39:U:C2	25:BD:46:VAL:HG21	2.49	0.48
26:BE:92:LEU:HD12	26:BE:177:ILE:HG12	1.95	0.48
29:BH:140:VAL:HG11	29:BH:144:HIS:CB	2.42	0.48
29:BH:191:VAL:HB	29:BH:198:LYS:HB2	1.96	0.48
29:BH:34:TYR:CE1	29:BH:92:HIS:CE1	3.01	0.48
30:BI:35:VAL:CG1	30:BI:107:ILE:HG12	2.44	0.48
32:BK:76:ASN:HA	32:BK:113:LEU:O	2.13	0.48
32:BK:78:ASP:OD2	32:BK:115:LYS:HD3	2.12	0.48
33:BL:78:GLY:HA2	33:BL:89:ILE:HD12	1.95	0.48
37:BP:48:GLN:HG3	37:BP:94:GLU:HG3	1.94	0.48
38:BQ:66:THR:HG23	38:BQ:82:GLN:NE2	2.29	0.48
43:BV:98:ARG:NH1	43:BV:98:ARG:CG	2.66	0.48
46:BY:17:ARG:C	46:BY:18:TYR:CD2	2.87	0.48
20:C2:10:U:C4	20:C2:11:C:N4	2.82	0.48
20:C2:72:C:H5'	20:C2:73:G:OP2	2.14	0.48
23:CB:55:HIS:CE1	41:CT:18:GLY:HA3	2.49	0.48
24:CC:195:ARG:HH11	24:CC:204:ARG:HB2	1.79	0.48
47:CO:168:UNK:HA	47:CO:171:UNK:HG3	1.96	0.48
43:CV:100:LEU:HD21	43:CV:127:VAL:CG1	2.33	0.48
45:CX:65:THR:HG22	45:CX:65:THR:O	2.14	0.48
46:CY:72:THR:HG22	46:CY:77:VAL:CG2	2.44	0.48
1:D1:1005:A:O2'	1:D1:1006:C:C5'	2.61	0.48
1:D1:1050:C:C2	1:D1:1051:C:C2	3.01	0.48
1:D1:1070:U:H2'	1:D1:1071:C:O5'	2.13	0.48
1:D1:1105:U:H6	1:D1:1105:U:O5'	1.96	0.48
1:D1:1307:C:O2'	1:D1:1308:U:H5'	2.13	0.48
1:D1:1352:U:H2'	1:D1:1353:G:C8	2.49	0.48
1:D1:1187:C:OP1	1:D1:1359:A:H5''	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:121:A:H61	1:D1:150:A:N6	2.11	0.48
1:D1:263:A:C5	16:DQ:30:ARG:NH2	2.82	0.48
1:D1:2731:C:H4'	4:DC:18:HIS:HD2	1.78	0.48
1:D1:3008:U:O5'	1:D1:3008:U:H6	1.97	0.48
1:D1:31:G:H1'	1:D1:49:A:N6	2.29	0.48
44:CW:103:LEU:O	1:D1:3283:C:H4'	2.14	0.48
1:D1:486:C:C2'	1:D1:487:G:H5'	2.44	0.48
1:D1:70:C:C4	1:D1:72:A:C4	3.02	0.48
1:D1:1519:G:N3	3:DB:13:PHE:CE1	2.82	0.48
30:CI:193:LEU:HD21	6:DF:114:LEU:CB	2.44	0.48
6:DF:67:GLN:HE22	6:DF:75:LYS:HE3	1.77	0.48
11:DL:59:VAL:HG12	11:DL:63:GLU:HB3	1.94	0.48
13:DN:53:VAL:HG11	13:DN:62:ILE:HG23	1.95	0.48
13:DN:87:VAL:HG12	13:DN:90:LEU:HB2	1.94	0.48
1:D1:249:G:O6	18:DU:126:ARG:NH1	2.47	0.48
22:EA:31:ARG:HB3	22:EA:37:GLU:OE2	2.14	0.48
26:EE:67:VAL:O	26:EE:71:ILE:HG13	2.13	0.48
27:EF:101:LYS:O	27:EF:105:VAL:HG23	2.14	0.48
27:EF:136:ILE:HG22	27:EF:166:ASN:HD22	1.79	0.48
32:EK:76:ASN:HA	32:EK:113:LEU:O	2.14	0.48
32:EK:20:GLY:O	32:EK:24:LYS:HG2	2.13	0.48
34:EM:144:ALA:O	34:EM:174:PRO:HD3	2.13	0.48
34:EM:264:THR:HG22	34:EM:264:THR:O	2.14	0.48
24:EC:203:ASN:HD21	40:ES:10:ALA:HA	1.79	0.48
43:EV:105:LEU:HD12	43:EV:131:ILE:CD1	2.44	0.48
44:EW:14:ASN:ND2	44:EW:69:ARG:CZ	2.77	0.48
34:EM:2:GLY:N	1:F1:1042:U:H2'	2.28	0.48
1:F1:155:A:O2'	16:FQ:28:VAL:HG22	2.13	0.48
1:F1:1919:A:C8	1:F1:1919:A:H5'	2.45	0.48
1:F1:2134:A:H3'	1:F1:2135:A:H2'	1.95	0.48
1:F1:2155:C:C3'	1:F1:2156:G:H5'	2.43	0.48
1:F1:2557:A:H2'	1:F1:2558:U:C6	2.48	0.48
1:F1:3077:G:H2'	1:F1:3078:C:C6	2.49	0.48
1:F1:3083:A:H2'	1:F1:3084:U:C6	2.48	0.48
1:F1:3175:A:N6	6:FF:16:ASN:ND2	2.58	0.48
1:F1:552:U:C2'	1:F1:553:C:H5'	2.43	0.48
1:F1:557:U:O2'	1:F1:558:U:H5'	2.13	0.48
1:F1:67:U:O2	18:FU:59:GLN:NE2	2.44	0.48
1:F1:90:G:OP2	1:F1:91:C:H5''	2.14	0.48
1:F1:966:G:O4'	1:F1:1461:A:H1'	2.13	0.48
5:FE:170:LEU:HA	6:FF:106:PHE:CE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:179:THR:HG22	5:FE:180:LEU:N	2.27	0.48
6:FF:26:VAL:CG1	6:FF:27:ILE:N	2.77	0.48
9:FJ:118:HIS:HE1	9:FJ:146:VAL:HB	1.73	0.48
1:F1:2884:A:OP1	10:FK:102:ARG:HD3	2.14	0.48
15:FP:39:ILE:HG23	15:FP:55:THR:O	2.14	0.48
18:FU:58:LYS:HB2	18:FU:63:TYR:CB	2.44	0.48
19:FX:148:ILE:HG13	19:FX:154:LEU:CD2	2.44	0.48
19:FX:8:GLU:OE2	19:FX:19:ARG:NH1	2.45	0.48
21:G3:95:U:H2'	21:G3:96:U:C6	2.49	0.48
22:GA:182:LYS:HD3	1:H1:885:G:P	2.53	0.48
22:GA:208:VAL:HG21	1:H1:941:G:C5	2.49	0.48
32:GK:75:VAL:CG2	32:GK:109:PHE:CD2	2.97	0.48
32:GK:64:HIS:HB2	1:H1:303:A:C4	2.49	0.48
33:GL:203:TYR:O	33:GL:204:ARG:HB2	2.14	0.48
33:GL:67:ARG:O	50:GL:405:HOH:O	2.20	0.48
35:GN:57:ARG:HH12	1:H1:697:A:H3'	1.78	0.48
46:GY:32:THR:CG2	46:GY:69:TRP:O	2.53	0.48
1:H1:146:U:O2	1:H1:148:G:N2	2.47	0.48
1:H1:1567:A:N6	1:H1:1578:U:H3	2.12	0.48
1:H1:1805:C:H2'	1:H1:1806:G:OP1	2.13	0.48
1:H1:1857:G:OP1	3:HB:10:LYS:HD2	2.14	0.48
1:H1:1507:A:H5''	1:H1:1883:A:H62	1.78	0.48
1:H1:2698:A:H2'	1:H1:2699:C:C6	2.49	0.48
1:H1:2738:G:C2'	1:H1:2739:C:H5'	2.44	0.48
1:H1:2:U:O5'	1:H1:2:U:H6	1.96	0.48
1:H1:3097:G:C2'	1:H1:3098:A:O5'	2.61	0.48
1:H1:3125:G:C6	1:H1:3126:C:C4	3.02	0.48
1:H1:3157:C:OP1	1:H1:3159:A:H1'	2.14	0.48
1:H1:3298:U:H1'	1:H1:3299:G:P	2.54	0.48
1:H1:557:U:O2'	1:H1:558:U:H5'	2.14	0.48
1:H1:726:G:C5	1:H1:727:C:C4	3.01	0.48
1:H1:790:C:O2	1:H1:790:C:H2'	2.13	0.48
1:H1:800:G:O2'	1:H1:801:U:C5	2.66	0.48
1:H1:807:G:O2'	1:H1:808:A:H5'	2.14	0.48
2:HA:4:GLY:C	2:HA:6:PRO:HD2	2.33	0.48
5:HE:63:VAL:CG1	5:HE:64:VAL:N	2.76	0.48
5:HE:93:ALA:HA	8:HH:111:ASN:O	2.14	0.48
7:HG:27:TYR:HE2	7:HG:52:ARG:HG2	1.77	0.48
6:HF:7:VAL:O	19:HX:162:LYS:HA	2.14	0.48
1:A1:146:U:OP1	1:A1:147:U:H3'	2.13	0.48
1:A1:334:G:H2'	1:A1:335:A:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:943:C:O2'	1:A1:944:U:H5'	2.14	0.48
9:AJ:126:GLU:CD	9:HJ:123:ARG:NH1	2.66	0.48
12:AM:60:ASN:OD1	12:AM:60:ASN:O	2.31	0.48
13:AN:76:ASN:OD1	13:AN:76:ASN:C	2.52	0.48
20:B2:107:C:C5	20:B2:135:A:C5	3.02	0.48
1:A1:2983:A:C2	20:B2:2:G:C5	3.02	0.48
24:BC:276:THR:HG23	24:BC:277:GLY:N	2.28	0.48
26:BE:103:VAL:HG23	26:BE:110:ILE:HG23	1.94	0.48
33:BL:112:GLU:H	33:BL:112:GLU:CD	2.17	0.48
16:AQ:45:ILE:HD13	33:BL:9:GLU:HB2	1.94	0.48
34:BM:141:PRO:HB2	34:BM:172:ASN:HB2	1.96	0.48
34:BM:254:ILE:O	34:BM:258:PRO:HB3	2.14	0.48
24:BC:287:ARG:CD	35:BN:111:ARG:NH1	2.74	0.48
35:BN:180:LEU:O	35:BN:181:LYS:C	2.51	0.48
21:C3:28:C:H1'	21:C3:54:A:H61	1.79	0.48
21:C3:69:G:H2'	21:C3:70:G:C8	2.46	0.48
23:CB:330:LYS:O	23:CB:331:LYS:CB	2.62	0.48
24:CC:138:LEU:N	24:CC:138:LEU:HD23	2.29	0.48
24:CC:14:GLU:HG3	24:CC:17:LYS:HD2	1.94	0.48
24:CC:375:ALA:O	24:CC:378:ALA:HB3	2.14	0.48
26:CE:22:GLN:HB3	26:CE:39:ARG:NH2	2.29	0.48
27:CF:143:LEU:HD22	27:CF:211:PHE:HD2	1.78	0.48
29:CH:10:ARG:NH2	29:CH:161:GLY:HA3	2.28	0.48
31:CJ:86:ARG:HG3	31:CJ:99:PHE:O	2.14	0.48
35:CN:88:THR:HG22	35:CN:107:THR:HG23	1.96	0.48
43:CV:150:PHE:CD1	43:CV:159:PRO:HA	2.48	0.48
43:CV:227:ARG:HH12	43:CV:234:LEU:HD13	1.77	0.48
1:D1:1053:A:C1'	1:D1:1054:G:P	3.02	0.48
1:D1:1682:G:H2'	1:D1:1683:U:C6	2.49	0.48
1:D1:281:G:H2'	1:D1:285:U:C6	2.49	0.48
1:D1:2907:A:H5''	1:D1:2907:A:H8	1.78	0.48
1:D1:3011:G:C1'	1:D1:3012:U:OP2	2.62	0.48
47:CO:62:ARG:HH22	1:D1:3056:C:H3'	1.78	0.48
1:D1:3083:A:H2'	1:D1:3084:U:H6	1.79	0.48
1:D1:3096:U:OP1	10:DK:114:LYS:NZ	2.28	0.48
1:D1:3316:C:N4	1:D1:3317:G:C6	2.82	0.48
1:D1:35:U:H1'	50:D1:3756:HOH:O	2.13	0.48
1:D1:561:A:O2'	1:D1:562:G:H5'	2.14	0.48
1:D1:937:G:H2'	1:D1:939:A:N7	2.28	0.48
1:D1:90:G:OP1	4:DC:53:LYS:NZ	2.43	0.48
5:DE:18:TRP:CB	14:DO:95:ARG:HH21	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:DM:16:GLY:HA2	12:DM:67:VAL:O	2.14	0.48
14:DO:122:GLN:OE1	14:DO:122:GLN:HA	2.14	0.48
15:DP:33:VAL:HG22	15:DP:42:PHE:CD2	2.49	0.48
17:DT:12:GLN:HA	17:DT:12:GLN:OE1	2.12	0.48
42:CU:118:ARG:NH1	18:DU:123:LEU:HD21	2.27	0.48
19:DX:89:TYR:O	19:DX:107:GLU:HA	2.14	0.48
21:E3:103:U:H5''	1:F1:1027:G:H22	1.79	0.48
21:E3:109:U:H5''	34:EM:281:LYS:NZ	2.29	0.48
23:EB:22:THR:HG22	23:EB:23:ARG:N	2.29	0.48
23:EB:292:ALA:HB3	23:EB:301:LYS:C	2.34	0.48
23:EB:33:PRO:CD	23:EB:44:THR:HG23	2.43	0.48
23:EB:56:ILE:HG22	23:EB:57:LEU:N	2.29	0.48
25:ED:115:LYS:CG	25:ED:116:TYR:N	2.76	0.48
25:ED:94:LYS:O	25:ED:94:LYS:HG3	2.14	0.48
26:EE:86:TYR:CE2	26:EE:149:LEU:HB2	2.49	0.48
30:EI:159:ARG:HB2	30:EI:162:ARG:CZ	2.43	0.48
35:EN:146:ARG:CB	35:EN:149:TYR:CE2	2.97	0.48
35:EN:68:ILE:CG2	35:EN:81:ILE:HD13	2.43	0.48
40:ES:30:MET:HE3	40:ES:77:TRP:HA	1.95	0.48
20:E2:81:G:H4'	42:EU:42:ALA:CB	2.43	0.48
43:EV:84:ILE:O	43:EV:131:ILE:HG23	2.14	0.48
43:EV:132:THR:HG21	43:EV:227:ARG:HD2	1.95	0.48
43:EV:41:TRP:CZ3	1:F1:628:A:C2	3.02	0.48
1:F1:1028:A:H2	1:F1:1076:U:HO2'	1.61	0.48
1:F1:1656:G:C6	1:F1:1657:C:C4	3.01	0.48
1:F1:1683:U:H2'	1:F1:1684:C:H6	1.78	0.48
22:EA:11:GLY:HA3	1:F1:2159:C:O2	2.14	0.48
1:F1:2252:C:C6	1:F1:2253:U:C6	3.01	0.48
38:EQ:141:TYR:CE2	1:F1:2350:G:H5'	2.49	0.48
1:F1:2416:U:C5'	1:F1:2416:U:H6	2.19	0.48
1:F1:2569:A:C2'	1:F1:2570:U:OP1	2.61	0.48
1:F1:2703:G:O6	1:F1:2730:C:N3	2.47	0.48
1:F1:984:C:N4	1:F1:2789:A:C8	2.82	0.48
1:F1:278:U:H2'	1:F1:279:U:H6	1.78	0.48
1:F1:3019:G:C5	1:F1:3020:G:C5	3.02	0.48
1:F1:3115:C:H2'	1:F1:3116:A:O5'	2.14	0.48
1:F1:376:A:C5'	1:F1:377:A:OP1	2.61	0.48
1:F1:504:A:O2'	1:F1:505:A:H8	1.76	0.48
1:F1:606:U:O2'	1:F1:607:U:H5'	2.14	0.48
1:F1:643:A:H4'	1:F1:644:A:O5'	2.13	0.48
1:F1:90:G:OP1	4:FC:53:LYS:NZ	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:974:C:C2'	1:F1:975:G:H5'	2.43	0.48
5:FE:135:THR:HB	5:FE:138:GLN:HG3	1.95	0.48
6:FF:44:VAL:HG12	6:FF:45:ARG:N	2.29	0.48
9:FJ:117:ILE:HD13	9:FJ:137:VAL:CG1	2.44	0.48
12:FM:77:TYR:HD1	12:FM:77:TYR:O	1.97	0.48
20:G2:60:C:C4	2:HA:64:ARG:NH1	2.82	0.48
21:G3:60:C:H5''	34:GM:281:LYS:HG2	1.95	0.48
23:GB:210:ASN:ND2	23:GB:352:ILE:N	2.60	0.48
23:GB:240:THR:HA	1:H1:2936:C:O2'	2.13	0.48
24:GC:107:PHE:CE1	1:H1:828:C:H5'	2.49	0.48
24:GC:359:LEU:CD2	24:GC:363:ARG:HH21	2.26	0.48
21:G3:39:U:C2	25:GD:46:VAL:CG2	2.96	0.48
26:GE:168:LYS:HB2	26:GE:173:PHE:CE2	2.49	0.48
30:GI:183:ALA:HB1	30:GI:184:PRO:CD	2.44	0.48
33:GL:196:GLN:CB	18:HU:19:ARG:HD2	2.44	0.48
33:GL:33:LEU:O	33:GL:65:ARG:NH1	2.47	0.48
33:GL:80:VAL:CG1	33:GL:87:VAL:HA	2.43	0.48
34:GM:136:GLN:CB	34:GM:141:PRO:HD3	2.44	0.48
34:GM:39:GLN:HG2	34:GM:40:ASP:N	2.29	0.48
43:GV:196:ASN:O	43:GV:199:LEU:N	2.39	0.48
43:GV:216:HIS:O	43:GV:222:GLY:HA3	2.14	0.48
43:GV:144:LEU:CD2	43:GV:239:LEU:HD21	2.43	0.48
1:H1:1054:G:C6	1:H1:1055:A:N6	2.82	0.48
1:H1:1595:A:N7	1:H1:1596:U:C2	2.81	0.48
1:H1:1700:A:P	12:HM:74:SER:HB2	2.53	0.48
1:H1:864:C:O2'	1:H1:1748:U:OP1	2.26	0.48
1:H1:1820:U:O2'	1:H1:1822:G:N2	2.46	0.48
1:H1:1653:A:C6	1:H1:1839:A:C2	3.02	0.48
33:GL:68:ARG:NH1	1:H1:291:C:OP2	2.33	0.48
1:H1:3198:A:N6	1:H1:3199:G:C6	2.82	0.48
23:GB:171:GLN:CG	1:H1:3273:U:H5''	2.44	0.48
1:H1:379:U:C2	1:H1:389:G:N2	2.82	0.48
1:H1:439:A:H5''	5:HE:126:HIS:CB	2.44	0.48
1:H1:79:C:C2'	1:H1:80:C:H5'	2.43	0.48
1:H1:831:A:H2'	1:H1:832:A:C8	2.49	0.48
1:H1:1866:A:O4'	3:HB:45:ARG:NH1	2.47	0.48
9:HJ:187:ASN:HD21	9:HJ:207:GLY:CA	2.18	0.48
1:H1:1662:A:C4'	11:HL:76:ARG:NH2	2.76	0.48
16:HQ:7:VAL:CG1	16:HQ:7:VAL:O	2.62	0.48
17:HT:36:ASN:O	17:HT:40:LEU:HG	2.14	0.48
18:HU:81:ALA:HB2	18:HU:114:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1010:G:H4'	1:A1:1011:U:OP2	2.14	0.48
1:A1:1319:C:H2'	1:A1:1320:U:C6	2.46	0.48
1:A1:144:A:C2'	1:A1:145:A:H5'	2.44	0.48
1:A1:1752:G:H5''	1:A1:1753:A:C3'	2.38	0.48
1:A1:2125:C:O2'	1:A1:2140:A:O4'	2.31	0.48
1:A1:2211:G:O5'	1:A1:2211:G:H8	1.97	0.48
1:A1:2889:G:N2	1:A1:3019:G:O2'	2.47	0.48
1:A1:3047:U:H3'	1:A1:3047:U:H6	1.79	0.48
1:A1:3072:G:H2'	1:A1:3073:U:C6	2.49	0.48
1:A1:3190:A:N6	1:A1:3191:G:H22	2.12	0.48
1:A1:379:U:C2	1:A1:389:G:N2	2.82	0.48
1:A1:443:G:C6	1:A1:444:A:C6	3.01	0.48
1:A1:552:U:C2'	1:A1:553:C:H5'	2.44	0.48
1:A1:578:G:H2'	1:A1:579:G:H5''	1.96	0.48
1:A1:634:G:N7	24:BC:319:ARG:CZ	2.77	0.48
2:AA:2:THR:HG22	2:AA:4:GLY:H	1.79	0.48
4:AC:19:THR:HG22	4:AC:20:ASN:N	2.29	0.48
5:AE:157:ASP:O	5:AE:160:LEU:HB2	2.13	0.48
6:AF:28:VAL:CG1	6:AF:66:ASN:HA	2.43	0.48
6:AF:87:GLU:O	6:AF:92:LYS:HE3	2.13	0.48
9:AJ:25:LEU:HD23	9:AJ:49:ILE:HB	1.95	0.48
16:AQ:9:ILE:HD11	18:AU:187:ASN:CB	2.25	0.48
22:BA:114:VAL:HG12	22:BA:115:CYS:N	2.28	0.48
1:A1:2397:A:H5''	24:BC:74:THR:HG22	1.96	0.48
33:BL:203:TYR:O	33:BL:204:ARG:HB2	2.14	0.48
34:BM:163:LEU:HD21	34:BM:175:HIS:HB3	1.95	0.48
34:BM:76:CYS:O	34:BM:105:LEU:HD11	2.12	0.48
40:BS:66:LYS:HE3	40:BS:106:THR:HG21	1.94	0.48
1:A1:242:G:OP1	42:BU:98:LYS:CG	2.62	0.48
43:BV:85:ARG:CZ	43:BV:100:LEU:HD13	2.43	0.48
43:BV:84:ILE:HA	43:BV:110:ASN:O	2.13	0.48
24:BC:333:LEU:HD21	43:BV:161:THR:O	2.13	0.48
21:C3:28:C:H5''	25:CD:137:ARG:HG2	1.96	0.48
24:CC:145:ARG:HD2	24:CC:253:GLY:O	2.14	0.48
25:CD:12:VAL:CG2	25:CD:162:TRP:CD1	2.97	0.48
27:CF:153:ILE:HG22	27:CF:157:ILE:CG1	2.44	0.48
29:CH:84:ALA:O	29:CH:140:VAL:HG13	2.14	0.48
29:CH:34:TYR:CE1	29:CH:92:HIS:CE1	3.02	0.48
34:CM:156:GLY:CA	34:CM:181:PRO:HG3	2.41	0.48
34:CM:230:LYS:O	34:CM:234:THR:HB	2.14	0.48
43:CV:80:VAL:CG2	43:CV:188:VAL:HG23	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:215:ARG:HH21	1:D1:1198:G:P	2.36	0.48
43:CV:34:MET:HA	43:CV:37:ARG:HD2	1.96	0.48
46:CY:8:VAL:HG13	46:CY:11:THR:CB	2.43	0.48
1:D1:1017:U:C6	1:D1:1017:U:H3'	2.48	0.48
1:D1:1186:A:O2'	1:D1:1187:C:P	2.72	0.48
1:D1:1248:G:O2'	1:D1:1249:G:OP2	2.31	0.48
1:D1:144:A:C2'	1:D1:145:A:H5'	2.44	0.48
1:D1:1507:A:H1'	11:DL:4:ARG:HH21	1.78	0.48
1:D1:1595:A:N7	1:D1:1596:U:C2	2.82	0.48
1:D1:2411:U:H4'	1:D1:2955:A:O4'	2.14	0.48
37:CP:54:TYR:CD1	1:D1:2713:U:H4'	2.48	0.48
1:D1:2738:G:C2'	1:D1:2739:C:H5'	2.44	0.48
1:D1:3109:C:C6	10:DK:111:ARG:CZ	2.96	0.48
1:D1:3191:G:O2'	1:D1:3192:C:P	2.71	0.48
20:C2:20:A:O2'	1:D1:681:A:H5'	2.14	0.48
1:D1:745:A:H2'	1:D1:746:A:O4'	2.14	0.48
5:DE:41:LEU:CG	5:DE:68:GLN:OE1	2.53	0.48
6:DF:26:VAL:CG1	6:DF:27:ILE:N	2.77	0.48
6:DF:29:ASN:OD1	19:DX:109:ARG:NH2	2.47	0.48
15:DP:53:PHE:HE1	15:DP:55:THR:HG22	1.79	0.48
24:EC:258:TRP:CZ3	24:EC:266:LEU:HD21	2.49	0.48
24:EC:41:VAL:O	24:EC:45:LEU:HG	2.14	0.48
25:ED:19:ILE:HG21	25:ED:125:MET:CE	2.41	0.48
26:EE:178:TYR:HB3	10:FK:89:TYR:CE2	2.49	0.48
26:EE:87:LYS:O	26:EE:184:LEU:HB2	2.13	0.48
28:EG:9:UNK:O	28:EG:13:UNK:HB2	2.13	0.48
29:EH:68:ALA:HA	29:EH:158:LYS:HG3	1.96	0.48
30:EI:127:ARG:NH1	1:F1:1344:A:H5''	2.29	0.48
31:EJ:86:ARG:HG3	31:EJ:99:PHE:O	2.13	0.48
32:EK:116:GLY:O	32:EK:137:ARG:NH1	2.47	0.48
36:EO:133:LYS:CG	36:EO:134:ASN:H	2.24	0.48
37:EP:82:GLY:CA	17:FT:16:SER:HB2	2.44	0.48
41:ET:11:CYS:SG	41:ET:13:TYR:HD2	2.36	0.48
45:EX:41:ASP:OD2	1:F1:664:U:O4	2.32	0.48
1:F1:1063:C:H2'	1:F1:1064:C:O4'	2.14	0.48
1:F1:1070:U:C2'	1:F1:1071:C:O5'	2.62	0.48
1:F1:1319:C:H2'	1:F1:1320:U:C6	2.46	0.48
24:EC:95:ALA:CB	1:F1:1464:U:H4'	2.43	0.48
1:F1:1595:A:N7	1:F1:1596:U:C2	2.82	0.48
1:F1:1715:U:H2'	1:F1:1716:U:C6	2.48	0.48
46:EY:44:LYS:NZ	1:F1:1751:A:OP1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1805:C:H2'	1:F1:1806:G:OP1	2.14	0.48
1:F1:2133:U:OP2	50:F1:3989:HOH:O	2.19	0.48
1:F1:2353:C:C2'	1:F1:2353:C:O2	2.61	0.48
1:F1:2409:G:H2'	1:F1:2410:C:O5'	2.13	0.48
1:F1:2673:C:H2'	1:F1:2674:A:C8	2.49	0.48
1:F1:2939:G:H21	1:F1:2940:G:H1'	1.79	0.48
1:F1:3056:C:C2	1:F1:3057:U:C5	3.02	0.48
1:F1:3098:A:C2	1:F1:3115:C:N3	2.81	0.48
1:F1:315:U:C6	16:FQ:28:VAL:CG1	2.97	0.48
1:F1:3204:A:H1'	1:F1:3207:A:H5''	1.96	0.48
1:F1:443:G:C6	1:F1:444:A:C6	3.02	0.48
1:F1:470:C:H1'	1:F1:510:A:C2	2.49	0.48
1:F1:541:A:O2'	1:F1:542:C:H5'	2.14	0.48
1:F1:685:G:C2'	1:F1:686:U:OP2	2.62	0.48
1:F1:718:A:H2'	1:F1:719:C:H6	1.76	0.48
1:F1:987:A:O2'	1:F1:988:G:H5'	2.14	0.48
5:FE:157:ASP:O	5:FE:160:LEU:HB2	2.14	0.48
1:F1:1719:U:H4'	11:FL:24:LYS:O	2.14	0.48
15:FP:53:PHE:CE1	15:FP:55:THR:CG2	2.97	0.48
16:FQ:60:GLU:CG	16:FQ:61:LEU:N	2.77	0.48
20:G2:124:U:O2'	20:G2:126:A:N7	2.28	0.48
21:G3:45:U:OP1	34:GM:151:VAL:CG1	2.62	0.48
22:GA:118:GLU:HB2	22:GA:163:CYS:HB3	1.96	0.48
22:GA:187:PHE:HB2	22:GA:197:TRP:CZ3	2.49	0.48
23:GB:250:ILE:HD13	23:GB:250:ILE:HA	1.69	0.48
24:GC:149:ILE:HG22	24:GC:149:ILE:O	2.14	0.48
24:GC:300:ASN:HA	24:GC:305:GLN:HE21	1.79	0.48
26:GE:135:LYS:HB2	26:GE:138:GLU:HG2	1.95	0.48
29:GH:36:SER:OG	29:GH:87:LEU:HB3	2.13	0.48
32:GK:77:ILE:HG23	32:GK:118:LEU:HG	1.96	0.48
32:GK:36:LYS:HA	18:HU:1:MET:CE	2.43	0.48
34:GM:131:ASN:OD1	34:GM:172:ASN:HA	2.13	0.48
35:GN:180:LEU:O	35:GN:181:LYS:C	2.52	0.48
45:GX:84:LEU:HD13	45:GX:113:ARG:HB3	1.95	0.48
1:H1:1050:C:C2	1:H1:1051:C:C2	3.02	0.48
1:H1:1397:G:O2'	1:H1:1398:G:H5'	2.14	0.48
1:H1:1752:G:H4'	1:H1:1753:A:OP2	2.11	0.48
1:H1:1815:G:H2'	1:H1:1816:A:H8	1.79	0.48
1:H1:181:U:C2'	1:H1:182:C:H5'	2.44	0.48
1:H1:1902:C:H2'	1:H1:1903:A:H5''	1.95	0.48
1:H1:2305:U:O2'	1:H1:2306:G:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2377:G:H2'	1:H1:2378:A:H5'	1.96	0.48
34:GM:176:SER:OG	1:H1:2735:A:O3'	2.24	0.48
1:H1:2801:A:N6	1:H1:2802:G:C6	2.82	0.48
1:H1:2906:G:C8	1:H1:2906:G:H5''	2.47	0.48
23:GB:220:LYS:HD2	1:H1:3036:U:C5'	2.44	0.48
1:H1:282:G:N2	1:H1:304:U:C4'	2.60	0.48
26:GE:23:ARG:HE	1:H1:3168:A:H3'	1.79	0.48
1:H1:3175:A:H4'	1:H1:3176:A:OP2	2.14	0.48
1:H1:591:G:C2'	1:H1:592:A:O5'	2.62	0.48
1:H1:651:U:C4	1:H1:652:U:C4	3.01	0.48
1:H1:777:C:H2'	1:H1:778:G:H8	1.78	0.48
1:H1:970:C:C2	1:H1:971:C:C6	3.02	0.48
20:G2:38:C:C4'	2:HA:71:ILE:HD13	2.38	0.48
1:H1:1521:U:H1'	3:HB:44:TRP:CZ2	2.48	0.48
1:H1:2705:U:HO2'	4:HC:79:ARG:HH22	1.54	0.48
11:HL:59:VAL:HG11	11:HL:63:GLU:HB3	1.95	0.48
13:HN:101:LYS:CA	13:HN:106:ALA:HB3	2.43	0.48
13:HN:90:LEU:O	13:HN:121:LYS:HE3	2.14	0.48
19:HX:57:TYR:O	19:HX:60:ARG:HG2	2.13	0.48
1:H1:605:C:O4'	19:HX:6:ALA:HA	2.14	0.48
19:HX:7:GLN:HE22	19:HX:80:GLU:CB	2.24	0.48
1:A1:1159:C:C2'	1:A1:1160:A:H5'	2.44	0.48
1:A1:1370:A:N1	1:A1:1389:G:C6	2.82	0.48
1:A1:2242:G:C2'	1:A1:2243:C:H5'	2.44	0.48
1:A1:2259:U:H2'	1:A1:2260:C:C6	2.49	0.48
1:A1:3191:G:O2'	1:A1:3192:C:P	2.71	0.48
1:A1:3229:C:C2	5:AE:57:ARG:HG3	2.49	0.48
1:A1:566:U:C5	1:A1:567:C:C6	3.02	0.48
1:A1:94:A:C2	1:A1:95:U:C6	3.02	0.48
2:AA:14:LYS:HZ3	3:AB:52:TYR:HE1	1.60	0.48
7:AG:27:TYR:HE2	7:AG:52:ARG:HG2	1.78	0.48
7:AG:43:PHE:CE1	7:AG:68:HIS:HD2	2.29	0.48
9:AJ:62:VAL:O	9:AJ:73:PRO:HD3	2.13	0.48
1:A1:1832:G:OP1	11:AL:77:VAL:O	2.32	0.48
13:AN:57:MET:HE3	13:AN:65:ARG:NH1	2.29	0.48
14:AO:7:GLU:HB2	35:BN:25:VAL:CG1	2.44	0.48
1:A1:157:A:O5'	16:AQ:25:HIS:CE1	2.67	0.48
1:A1:2727:A:H5''	17:AT:36:ASN:HB2	1.95	0.48
20:B2:111:A:H2'	20:B2:112:G:H5''	1.95	0.48
20:B2:111:A:H8	20:B2:111:A:O5'	1.97	0.48
20:B2:60:C:O2'	20:B2:61:G:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B3:96:U:H2'	21:B3:97:G:H5''	1.94	0.48
22:BA:187:PHE:HB2	22:BA:197:TRP:CZ3	2.49	0.48
1:A1:941:G:C5	22:BA:208:VAL:HG21	2.48	0.48
23:BB:210:ASN:ND2	23:BB:352:ILE:N	2.57	0.48
1:A1:719:C:OP1	24:BC:125:LYS:HD3	2.14	0.48
24:BC:91:ARG:HG3	24:BC:91:ARG:O	2.13	0.48
27:BF:126:LYS:NZ	27:BF:194:THR:HG1	2.05	0.48
29:BH:50:VAL:CG1	29:BH:152:LEU:HD12	2.44	0.48
33:BL:80:VAL:CG1	33:BL:87:VAL:HG13	2.43	0.48
34:BM:90:THR:O	34:BM:231:TRP:CZ3	2.67	0.48
35:BN:31:ILE:CG2	35:BN:35:LYS:HE3	2.44	0.48
43:BV:216:HIS:C	43:BV:222:GLY:HA3	2.35	0.48
1:A1:877:U:C4	46:BY:2:ALA:N	2.81	0.48
20:C2:58:U:C2	20:C2:65:C:H5	2.32	0.48
23:CB:230:ARG:NH2	23:CB:267:GLN:O	2.39	0.48
24:CC:26:PRO:HG2	24:CC:29:PHE:CD1	2.49	0.48
24:CC:359:LEU:CD2	24:CC:363:ARG:HH21	2.26	0.48
26:CE:113:LYS:HD2	26:CE:114:HIS:N	2.29	0.48
27:CF:69:GLN:HG2	27:CF:222:ARG:HH12	1.78	0.48
27:CF:66:VAL:HB	27:CF:226:GLY:O	2.13	0.48
29:CH:139:ARG:HB3	29:CH:173:PHE:CE1	2.49	0.48
33:CL:142:ILE:HG23	33:CL:148:ILE:HG22	1.96	0.48
33:CL:64:VAL:CG2	33:CL:106:VAL:HG22	2.43	0.48
33:CL:67:ARG:O	50:CL:412:HOH:O	2.19	0.48
43:CV:72:PHE:HD1	43:CV:73:TYR:N	2.11	0.48
1:D1:1048:U:N3	1:D1:1049:U:C5	2.82	0.48
1:D1:1112:A:C6	1:D1:1113:A:N6	2.82	0.48
1:D1:120:A:C4'	1:D1:121:A:O5'	2.56	0.48
1:D1:1572:A:H2'	1:D1:1573:A:O4'	2.14	0.48
1:D1:170:A:C5	1:D1:250:U:C4	3.01	0.48
1:D1:1740:U:H5''	1:D1:1741:U:OP1	2.14	0.48
1:D1:1642:G:C2	1:D1:1852:A:C2	3.02	0.48
1:D1:2251:A:H2'	1:D1:2251:A:N3	2.29	0.48
1:D1:2521:A:N1	1:D1:2522:A:C6	2.81	0.48
1:D1:2667:A:C6	1:D1:2668:A:C6	3.02	0.48
1:D1:2730:C:H2'	1:D1:2731:C:O5'	2.14	0.48
1:D1:3298:U:H1'	1:D1:3299:G:P	2.53	0.48
1:D1:673:A:OP2	1:D1:2856:U:O2'	2.27	0.48
1:D1:68:A:H1'	1:D1:70:C:H41	1.79	0.48
24:CC:80:ARG:HH11	1:D1:830:G:H1'	1.78	0.48
2:DA:28:HIS:HD2	2:DA:31:LYS:N	1.99	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DE:69:LEU:HD21	5:DE:114:ASP:HA	1.96	0.48
1:D1:3235:U:N3	8:DH:12:THR:O	2.46	0.48
8:DH:43:ASN:O	8:DH:84:ASN:HA	2.13	0.48
12:DM:13:VAL:HG12	12:DM:14:ASN:N	2.28	0.48
13:DN:115:LYS:O	13:DN:119:VAL:HG23	2.14	0.48
13:DN:36:ARG:NH1	13:DN:74:TYR:CB	2.77	0.48
19:DX:87:LYS:HG3	19:DX:89:TYR:CZ	2.49	0.48
20:E2:108:G:H4'	20:E2:135:A:H5'	1.96	0.48
20:E2:28:G:N7	40:ES:12:ARG:NH2	2.62	0.48
22:EA:181:LEU:HD12	46:EY:14:TYR:CE1	2.49	0.48
23:EB:250:ILE:CG1	1:F1:2388:G:H4'	2.42	0.48
24:EC:159:PHE:CZ	24:EC:179:VAL:CG1	2.96	0.48
27:EF:56:GLN:OE1	27:EF:56:GLN:HA	2.13	0.48
32:EK:106:LYS:HD3	18:FU:160:SER:CB	2.40	0.48
34:EM:65:VAL:HA	34:EM:73:ARG:O	2.13	0.48
35:EN:180:LEU:O	35:EN:181:LYS:C	2.51	0.48
36:EO:96:MET:O	36:EO:100:ARG:HG3	2.13	0.48
37:EP:45:ASP:C	37:EP:45:ASP:OD1	2.52	0.48
39:ER:145:ASN:HA	39:ER:150:ILE:HD11	1.96	0.48
39:ER:76:THR:O	39:ER:76:THR:CG2	2.62	0.48
42:EU:97:THR:HG22	42:EU:99:LYS:H	1.78	0.48
43:EV:42:ILE:HG22	43:EV:46:GLN:NE2	2.28	0.48
43:EV:98:ARG:HH12	43:EV:101:ARG:NH1	2.11	0.48
29:EH:40:LYS:HD2	1:F1:1037:A:OP1	2.13	0.48
1:F1:1254:C:C3'	1:F1:1255:A:H5''	2.43	0.48
1:F1:1406:G:N2	50:F1:3744:HOH:O	2.47	0.48
1:F1:969:C:H1'	1:F1:1457:G:N2	2.29	0.48
1:F1:1691:U:H2'	1:F1:1692:G:C8	2.49	0.48
1:F1:1682:G:C5	1:F1:1822:G:C6	3.02	0.48
1:F1:2119:G:H5''	1:F1:2119:G:H8	1.78	0.48
22:EA:175:ARG:NH2	1:F1:2175:A:OP1	2.46	0.48
1:F1:2219:A:OP1	16:FQ:78:ARG:CZ	2.62	0.48
1:F1:2849:U:C2	1:F1:2850:U:C6	3.01	0.48
23:EB:252:ALA:HB1	1:F1:2931:G:O2'	2.13	0.48
1:F1:296:G:H3'	16:FQ:34:LEU:HD21	1.96	0.48
1:F1:3046:A:H5''	1:F1:3047:U:OP2	2.13	0.48
1:F1:3085:C:H2'	1:F1:3086:U:C6	2.49	0.48
24:EC:55:VAL:CG1	1:F1:345:C:OP1	2.62	0.48
5:FE:113:GLU:OE1	5:FE:113:GLU:HA	2.14	0.48
8:FH:9:VAL:HG12	8:FH:10:ALA:H	1.79	0.48
13:FN:114:LEU:HD22	13:FN:118:PHE:CE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:FX:7:GLN:HE22	19:FX:80:GLU:N	2.12	0.48
20:G2:17:U:H5''	20:G2:18:G:OP2	2.14	0.48
20:G2:22:A:O2'	20:G2:23:U:H5'	2.14	0.48
20:G2:60:C:N4	2:HA:64:ARG:NH1	2.62	0.48
20:G2:93:A:H2'	20:G2:94:U:H6	1.79	0.48
22:GA:3:ARG:HB2	22:GA:208:VAL:HG12	1.95	0.48
23:GB:172:LYS:HA	23:GB:172:LYS:HD2	1.44	0.48
29:GH:46:PHE:HZ	29:GH:83:ASP:O	1.96	0.48
34:GM:49:TYR:O	34:GM:144:ALA:HA	2.14	0.48
35:GN:89:ASN:ND2	35:GN:109:THR:HG22	2.22	0.48
40:GS:18:HIS:CE1	40:GS:77:TRP:CH2	3.02	0.48
41:GT:35:THR:HG21	41:GT:37:LYS:HG2	1.94	0.48
43:GV:142:SER:HG	43:GV:146:TYR:HE2	1.60	0.48
43:GV:34:MET:HA	43:GV:37:ARG:HD2	1.95	0.48
45:GX:79:ARG:HH12	1:H1:1448:G:C2'	2.26	0.48
1:H1:666:U:H5'	1:H1:1143:G:O6	2.14	0.48
1:H1:1235:U:C6	10:HK:109:ASN:ND2	2.77	0.48
1:H1:2509:U:OP1	1:H1:2509:U:H6	1.96	0.48
1:H1:2557:A:H2'	1:H1:2558:U:C6	2.49	0.48
25:GD:124:GLY:HA3	1:H1:2663:A:C2	2.49	0.48
1:H1:2667:A:C6	1:H1:2668:A:C6	3.02	0.48
1:H1:2703:G:O6	1:H1:2730:C:N3	2.47	0.48
1:H1:2732:G:C6	1:H1:2733:C:N4	2.82	0.48
1:H1:2886:G:H5''	1:H1:2887:C:H5'	1.96	0.48
1:H1:3305:A:C2	1:H1:3315:A:C2	3.02	0.48
1:H1:497:G:H2'	1:H1:498:A:H5'	1.94	0.48
1:H1:974:C:H2'	1:H1:975:G:O4'	2.13	0.48
2:HA:26:THR:O	2:HA:34:CYS:HA	2.14	0.48
5:HE:62:ARG:CZ	6:HF:105:ASP:OD1	2.62	0.48
8:HH:58:TYR:CE2	8:HH:60:TYR:CD2	3.02	0.48
9:HJ:215:ILE:O	9:HJ:219:GLU:HG3	2.14	0.48
1:A1:1035:A:C2	1:A1:1068:U:C1'	2.95	0.47
1:A1:1490:G:N2	1:A1:1493:A:OP2	2.46	0.47
1:A1:1655:A:C4	1:A1:1669:G:C5	3.02	0.47
1:A1:1666:A:H5'	1:A1:1667:A:OP2	2.14	0.47
1:A1:1703:A:H2'	1:A1:1704:G:H8	1.79	0.47
1:A1:1715:U:H2'	1:A1:1716:U:C6	2.49	0.47
1:A1:213:A:N6	1:A1:227:G:C2'	2.77	0.47
1:A1:2395:G:N7	1:A1:2396:A:N6	2.61	0.47
1:A1:2409:G:H2'	1:A1:2410:C:O5'	2.14	0.47
1:A1:281:G:H5''	1:A1:282:G:P	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2914:A:H2'	1:A1:2915:C:C6	2.49	0.47
1:A1:2962:U:H2'	1:A1:2963:U:C6	2.49	0.47
1:A1:300:G:H5'	1:A1:300:G:H8	1.78	0.47
1:A1:3077:G:H2'	1:A1:3078:C:C6	2.49	0.47
1:A1:49:A:O2'	1:A1:50:A:H5'	2.13	0.47
1:A1:557:U:O2'	1:A1:558:U:H5'	2.14	0.47
1:A1:703:U:O2'	1:A1:704:G:H5'	2.13	0.47
1:A1:8:U:H2'	1:A1:9:G:O4'	2.14	0.47
1:A1:974:C:H2'	1:A1:975:G:O4'	2.14	0.47
1:A1:579:G:H1	6:AF:29:ASN:HD21	1.61	0.47
8:AH:58:TYR:HD2	8:AH:73:ILE:HD12	1.79	0.47
9:AJ:115:ALA:HB2	9:AJ:135:VAL:HG11	1.95	0.47
9:AJ:46:ILE:HD11	9:AJ:202:TRP:CZ2	2.49	0.47
1:A1:1507:A:N1	11:AL:2:ALA:HB3	2.28	0.47
13:AN:36:ARG:NH1	13:AN:74:TYR:CB	2.77	0.47
20:B2:61:G:C2'	20:B2:100:C:O2'	2.62	0.47
21:B3:83:G:C2	21:B3:93:G:N2	2.82	0.47
22:BA:169:ILE:HG22	22:BA:170:VAL:O	2.14	0.47
23:BB:111:ASP:N	23:BB:111:ASP:OD1	2.47	0.47
24:BC:159:PHE:CZ	24:BC:179:VAL:CG1	2.97	0.47
24:BC:242:ASN:C	24:BC:244:LEU:N	2.65	0.47
29:BH:19:LYS:HG3	29:BH:26:VAL:HG11	1.96	0.47
30:BI:79:PHE:O	30:BI:82:ALA:HB3	2.14	0.47
1:A1:656:C:P	30:BI:92:PRO:HG2	2.54	0.47
32:BK:46:LEU:HD23	32:BK:46:LEU:HA	1.70	0.47
34:BM:181:PRO:HD2	34:BM:200:HIS:ND1	2.29	0.47
34:BM:34:LYS:HA	34:BM:37:ILE:HG22	1.96	0.47
43:BV:128:LEU:O	43:BV:224:TRP:HB2	2.14	0.47
23:CB:282:ARG:NH2	23:CB:293:SER:O	2.27	0.47
23:CB:56:ILE:HG21	23:CB:354:LEU:CD2	2.41	0.47
23:CB:56:ILE:HD11	23:CB:321:MET:CE	2.43	0.47
24:CC:276:THR:HG23	24:CC:277:GLY:N	2.29	0.47
26:CE:167:GLU:O	26:CE:168:LYS:HG2	2.14	0.47
26:CE:168:LYS:HB2	26:CE:173:PHE:CE2	2.49	0.47
27:CF:122:PRO:CG	1:D1:119:A:H2	2.23	0.47
27:CF:19:ASN:CB	27:CF:20:PRO:HD3	2.35	0.47
33:CL:119:TYR:CE1	33:CL:131:GLU:HB2	2.49	0.47
34:CM:231:TRP:HZ2	34:CM:243:VAL:HG21	1.79	0.47
21:C3:1:G:H4'	34:CM:275:LYS:HZ3	1.78	0.47
35:CN:173:LYS:HE2	1:D1:87:A:OP2	2.13	0.47
35:CN:75:THR:O	35:CN:79:GLN:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CW:43:MET:HA	44:CW:43:MET:HE2	1.95	0.47
1:D1:1235:U:H4'	1:D1:1235:U:OP1	2.13	0.47
1:D1:1779:C:N4	50:D1:4876:HOH:O	2.47	0.47
1:D1:1845:U:H5'	1:D1:1846:C:OP2	2.14	0.47
1:D1:1902:C:H2'	1:D1:1903:A:H5''	1.96	0.47
1:D1:2245:G:C5	1:D1:2246:G:N7	2.82	0.47
1:D1:2731:C:H4'	4:DC:18:HIS:CD2	2.49	0.47
1:D1:3047:U:C6	1:D1:3047:U:H3'	2.48	0.47
1:D1:53:G:H5'	1:D1:1573:A:O2'	2.13	0.47
1:D1:566:U:C5	1:D1:567:C:C6	3.02	0.47
1:D1:871:A:C6	1:D1:872:A:C6	3.02	0.47
11:DL:56:ILE:HG23	11:DL:71:ALA:O	2.14	0.47
17:DT:48:LYS:C	17:DT:55:LYS:HZ2	2.17	0.47
21:E3:5:U:H2'	21:E3:6:C:H6	1.79	0.47
23:EB:46:PHE:CZ	23:EB:84:MET:HG3	2.49	0.47
24:EC:147:HIS:NE2	24:EC:254:ARG:HG3	2.28	0.47
24:EC:275:THR:CG2	24:EC:276:THR:N	2.77	0.47
25:ED:32:LYS:HE2	25:ED:119:SER:HA	1.95	0.47
26:EE:34:ILE:HD11	26:EE:147:ILE:CG2	2.40	0.47
27:EF:58:ARG:HG2	1:F1:2574:U:O2	2.14	0.47
34:EM:136:GLN:HB3	34:EM:141:PRO:HD3	1.94	0.47
38:EQ:85:TRP:O	38:EQ:87:VAL:N	2.46	0.47
24:EC:333:LEU:CD2	43:EV:161:THR:O	2.62	0.47
43:EV:185:ILE:HA	43:EV:192:PHE:CE1	2.49	0.47
44:EW:43:MET:HG3	44:EW:90:THR:CG2	2.43	0.47
1:F1:1027:G:N7	1:F1:1068:U:OP2	2.47	0.47
1:F1:1095:C:C4'	1:F1:1096:G:OP2	2.62	0.47
1:F1:111:C:C2'	1:F1:112:A:H5'	2.42	0.47
1:F1:1231:A:H2'	1:F1:1232:A:H5'	1.96	0.47
1:F1:1217:A:H62	1:F1:1342:U:H3	1.60	0.47
1:F1:1370:A:N1	1:F1:1389:G:C6	2.82	0.47
1:F1:22:U:H2'	1:F1:23:U:C6	2.49	0.47
1:F1:2517:G:C4'	1:F1:2518:A:OP1	2.58	0.47
1:F1:2521:A:N1	1:F1:2522:A:C6	2.81	0.47
1:F1:3190:A:N6	1:F1:3191:G:H22	2.12	0.47
1:F1:3141:U:OP1	1:F1:3253:U:H1'	2.14	0.47
1:F1:440:C:N4	1:F1:538:A:C2	2.82	0.47
1:F1:558:U:O2'	1:F1:559:G:H5'	2.14	0.47
1:F1:882:G:H2'	1:F1:883:A:OP2	2.13	0.47
1:F1:42:U:H1'	4:FC:52:THR:HG23	1.96	0.47
5:FE:173:TYR:OH	6:FF:105:ASP:HB3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FH:44:THR:O	8:FH:48:VAL:HG23	2.14	0.47
9:FJ:213:THR:O	9:FJ:216:SER:HB2	2.14	0.47
12:FM:98:THR:CG2	12:FM:99:SER:N	2.77	0.47
13:FN:23:ALA:CB	13:FN:43:VAL:HG12	2.42	0.47
13:FN:53:VAL:HG11	13:FN:62:ILE:HG23	1.95	0.47
17:FT:41:ARG:O	17:FT:45:ARG:HG3	2.13	0.47
22:GA:30:TYR:HD2	22:GA:124:ARG:C	2.17	0.47
22:GA:16:VAL:CG2	1:H1:936:C:C5'	2.92	0.47
23:GB:58:ARG:HH21	23:GB:60:VAL:HG12	1.78	0.47
24:GC:145:ARG:HH22	24:GC:248:PRO:HB2	1.79	0.47
24:GC:195:ARG:HH11	24:GC:204:ARG:HB2	1.78	0.47
29:GH:138:VAL:CG2	29:GH:152:LEU:HD11	2.44	0.47
30:GI:196:PHE:HE2	6:HF:110:ARG:CD	2.22	0.47
31:GJ:11:VAL:CG2	31:GJ:131:PRO:HD3	2.44	0.47
35:GN:155:ALA:CB	35:GN:158:GLN:NE2	2.69	0.47
38:GQ:126:LYS:HE2	38:GQ:144:SER:HB3	1.96	0.47
38:GQ:34:VAL:O	38:GQ:38:ILE:HG13	2.14	0.47
38:GQ:61:PRO:HG2	38:GQ:78:PHE:CD1	2.49	0.47
20:G2:81:G:H4'	42:GU:42:ALA:HB1	1.96	0.47
1:H1:1050:C:H2'	1:H1:1051:C:H1'	1.92	0.47
1:H1:1191:G:H2'	1:H1:1192:A:C8	2.45	0.47
1:H1:1215:U:N3	1:H1:1344:A:N6	2.60	0.47
39:GR:121:LEU:HD21	1:H1:1549:U:C4'	2.42	0.47
1:H1:2703:G:OP2	1:H1:2705:U:C1'	2.58	0.47
1:H1:983:U:OP1	1:H1:2787:A:H3'	2.14	0.47
1:H1:3019:G:C5	1:H1:3020:G:C5	3.02	0.47
1:H1:3077:G:H2'	1:H1:3078:C:C6	2.49	0.47
1:H1:33:A:O2'	1:H1:34:C:H5'	2.13	0.47
1:H1:632:G:C5	1:H1:633:C:C5	3.01	0.47
1:H1:727:C:H2'	1:H1:728:G:H8	1.79	0.47
1:H1:828:C:HO2'	1:H1:829:C:H5'	1.79	0.47
2:HA:28:HIS:HD2	2:HA:31:LYS:N	1.97	0.47
5:HE:42:ARG:H	5:HE:92:GLN:HE21	1.61	0.47
9:HJ:49:ILE:HD11	9:HJ:88:LEU:HD13	1.96	0.47
11:HL:73:THR:HG22	11:HL:74:VAL:N	2.27	0.47
13:HN:38:PHE:HE2	13:HN:76:ASN:HB2	1.78	0.47
15:HP:11:PHE:O	15:HP:15:TRP:CD1	2.67	0.47
1:A1:1185:A:C3'	1:A1:1186:A:C5'	2.87	0.47
1:A1:1539:G:H2'	1:A1:1541:U:C5	2.49	0.47
1:A1:1549:U:C4'	39:BR:121:LEU:HD21	2.44	0.47
1:A1:1698:G:C6	1:A1:1800:A:N1	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1808:A:H2'	1:A1:1809:C:C6	2.49	0.47
1:A1:2715:C:H3'	1:A1:2717:G:N2	2.29	0.47
1:A1:2727:A:HO2'	1:A1:2728:A:P	2.37	0.47
1:A1:3035:A:C2	1:A1:3036:U:C2	3.02	0.47
1:A1:3079:U:O2'	1:A1:3080:A:C5'	2.62	0.47
1:A1:3174:U:C6	1:A1:3174:U:OP2	2.67	0.47
1:A1:451:A:H2'	1:A1:452:U:O4'	2.14	0.47
1:A1:453:A:H61	1:A1:524:G:H2'	1.72	0.47
1:A1:53:G:H5'	1:A1:1573:A:O2'	2.13	0.47
1:A1:636:U:H4'	5:AE:34:LYS:HE2	1.96	0.47
1:A1:970:C:C2	1:A1:971:C:C5	3.02	0.47
2:AA:62:THR:CG2	2:AA:63:GLY:N	2.77	0.47
3:AB:2:GLY:CA	50:AB:105:HOH:O	2.62	0.47
5:AE:179:THR:CG2	5:AE:180:LEU:N	2.76	0.47
13:AN:111:ARG:O	13:AN:115:LYS:HG3	2.13	0.47
13:AN:26:VAL:HG22	13:AN:93:PHE:HB3	1.96	0.47
17:AT:48:LYS:C	17:AT:55:LYS:HZ1	2.17	0.47
18:AU:58:LYS:HB2	18:AU:63:TYR:CB	2.42	0.47
21:B3:11:A:P	34:BM:18:THR:HG21	2.54	0.47
22:BA:3:ARG:HB3	22:BA:208:VAL:O	2.14	0.47
23:BB:110:ILE:CG2	23:BB:114:THR:HG21	2.43	0.47
23:BB:292:ALA:HB3	23:BB:301:LYS:C	2.35	0.47
23:BB:78:VAL:HG21	23:BB:303:ILE:HG21	1.96	0.47
24:BC:205:ARG:HB3	24:BC:206:TYR:CD2	2.49	0.47
24:BC:95:ALA:HB1	24:BC:101:CYS:SG	2.54	0.47
1:A1:118:A:C8	27:BF:122:PRO:CD	2.97	0.47
27:BF:50:TYR:CZ	27:BF:51:ILE:HG23	2.49	0.47
21:B3:64:A:OP1	29:BH:203:ARG:HD2	2.14	0.47
29:BH:48:TYR:O	29:BH:139:ARG:HA	2.13	0.47
30:BI:165:THR:O	30:BI:166:TYR:C	2.53	0.47
34:BM:99:TYR:CG	34:BM:204:ILE:CG2	2.97	0.47
35:BN:128:ALA:O	35:BN:132:PRO:HG3	2.14	0.47
36:BO:152:SER:HA	36:BO:163:ARG:NH1	2.29	0.47
37:BP:76:VAL:HG12	37:BP:77:HIS:H	1.79	0.47
20:C2:73:G:O2'	20:C2:88:G:N2	2.47	0.47
22:CA:34:ASP:O	22:CA:38:ARG:HG2	2.14	0.47
23:CB:20:ARG:HB2	1:D1:2979:A:P	2.54	0.47
24:CC:242:ASN:C	24:CC:244:LEU:N	2.65	0.47
24:CC:311:ALA:H	35:CN:40:ARG:HH22	1.54	0.47
25:CD:36:VAL:HG21	25:CD:123:PHE:CE2	2.49	0.47
27:CF:136:ILE:HG22	27:CF:166:ASN:HD22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:48:TYR:O	29:CH:139:ARG:HA	2.13	0.47
30:CI:109:THR:HG22	1:D1:3206:A:H2'	1.96	0.47
33:CL:73:ARG:HA	33:CL:74:PRO:HD2	1.59	0.47
21:C3:34:C:O2	34:CM:203:ARG:NH1	2.42	0.47
35:CN:30:LEU:O	35:CN:33:LEU:HB3	2.14	0.47
47:CO:163:UNK:O	47:CO:166:UNK:CG	2.59	0.47
40:CS:111:ASP:OD1	40:CS:111:ASP:C	2.53	0.47
41:CT:22:ARG:NH2	41:CT:32:PHE:HE2	2.12	0.47
45:CX:65:THR:HA	45:CX:68:LEU:HD12	1.96	0.47
1:D1:1052:A:H2	1:D1:1053:A:C6	2.32	0.47
32:CK:21:ARG:HD2	1:D1:1396:A:H5''	1.96	0.47
1:D1:147:U:O2	1:D1:147:U:H2'	2.13	0.47
1:D1:1655:A:C2'	1:D1:1655:A:N3	2.73	0.47
1:D1:20:G:C5	1:D1:21:A:N7	2.82	0.47
1:D1:2279:C:O2	1:D1:2279:C:H2'	2.15	0.47
1:D1:255:G:HO2'	1:D1:256:A:H8	1.61	0.47
1:D1:278:U:H2'	1:D1:279:U:C6	2.49	0.47
1:D1:3144:G:C6	1:D1:3146:G:C8	3.01	0.47
1:D1:3229:C:O2	1:D1:3229:C:H2'	2.12	0.47
1:D1:3306:G:N2	1:D1:3314:U:C2	2.81	0.47
1:D1:440:C:N4	1:D1:538:A:C2	2.82	0.47
1:D1:71:U:C2'	1:D1:72:A:OP1	2.62	0.47
1:D1:871:A:H2'	1:D1:872:A:H8	1.77	0.47
1:D1:897:A:H2'	1:D1:898:C:H5'	1.93	0.47
1:D1:8:U:H2'	1:D1:9:G:O4'	2.15	0.47
1:D1:1661:A:H4'	13:DN:15:GLN:HG3	1.96	0.47
14:DO:6:TRP:HZ3	14:DO:40:LEU:CD1	2.22	0.47
19:DX:44:PHE:CE2	19:DX:117:VAL:HG21	2.50	0.47
23:EB:32:PHE:HD2	23:EB:44:THR:HG21	1.79	0.47
23:EB:58:ARG:HH21	23:EB:60:VAL:HG12	1.78	0.47
24:EC:117:HIS:HB2	33:EL:202:ARG:O	2.14	0.47
24:EC:29:PHE:CE2	24:EC:156:PRO:HG3	2.49	0.47
26:EE:88:PHE:HD1	26:EE:182:LYS:HA	1.78	0.47
27:EF:53:LEU:HD23	27:EF:53:LEU:HA	1.68	0.47
29:EH:139:ARG:HD3	29:EH:173:PHE:HE1	1.75	0.47
47:CO:173:UNK:CG	29:EH:144:HIS:HE1	2.27	0.47
29:EH:50:VAL:CG1	29:EH:152:LEU:HD12	2.44	0.47
30:EI:10:ALA:O	30:EI:13:HIS:HB2	2.14	0.47
31:EJ:32:ASN:HD21	31:EJ:117:GLN:N	2.12	0.47
31:EJ:11:VAL:CG2	31:EJ:131:PRO:HD3	2.43	0.47
38:EQ:93:ILE:O	38:EQ:96:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:ES:66:LYS:HE3	40:ES:106:THR:HG21	1.95	0.47
42:EU:89:THR:O	42:EU:93:ARG:HD2	2.13	0.47
37:EP:35:LYS:NZ	1:F1:1112:A:OP1	2.46	0.47
1:F1:1128:G:H2'	1:F1:1129:C:C6	2.49	0.47
27:EF:127:TYR:CE2	1:F1:117:G:N2	2.81	0.47
43:EV:206:THR:CG2	1:F1:1195:U:C1'	2.92	0.47
1:F1:1413:G:C2	1:F1:1414:C:C6	3.01	0.47
1:F1:1580:G:C5'	1:F1:1581:C:OP2	2.62	0.47
39:ER:51:TYR:CE1	1:F1:16:G:OP2	2.66	0.47
1:F1:2377:G:H2'	1:F1:2378:A:H5'	1.96	0.47
1:F1:2531:U:C2	1:F1:2532:G:H1'	2.49	0.47
1:F1:298:G:C6	16:FQ:31:LYS:HB2	2.49	0.47
1:F1:3029:A:H2'	1:F1:3030:A:H8	1.78	0.47
1:F1:3144:G:C6	1:F1:3146:G:C8	3.02	0.47
1:F1:566:U:C5	1:F1:567:C:C6	3.02	0.47
1:F1:665:C:H42	1:F1:669:A:H8	1.61	0.47
1:F1:790:C:O2	1:F1:790:C:H2'	2.13	0.47
4:FC:19:THR:HG22	4:FC:20:ASN:N	2.28	0.47
1:F1:3232:A:H1'	5:FE:94:TYR:CE2	2.49	0.47
5:FE:42:ARG:NH2	5:FE:95:THR:O	2.39	0.47
7:FG:57:GLU:HA	7:FG:67:ILE:HD13	1.96	0.47
9:FJ:187:ASN:ND2	9:FJ:207:GLY:HA3	2.17	0.47
11:FL:39:VAL:HG11	11:FL:60:ARG:HA	1.96	0.47
15:FP:15:TRP:CH2	15:FP:67:ALA:O	2.68	0.47
1:F1:315:U:C6	16:FQ:28:VAL:HG11	2.49	0.47
24:GC:69:ALA:HB1	24:GC:96:ALA:CB	2.44	0.47
26:GE:101:GLU:OE1	26:GE:134:ARG:HD2	2.14	0.47
27:GF:92:TYR:CE2	27:GF:123:ILE:CG2	2.96	0.47
29:GH:136:PHE:HE1	29:GH:159:PHE:HZ	1.62	0.47
33:GL:28:TRP:O	33:GL:32:GLN:HG2	2.13	0.47
21:G3:109:U:H5''	34:GM:281:LYS:HZ2	1.79	0.47
35:GN:65:LEU:O	35:GN:69:VAL:HG23	2.15	0.47
37:GP:5:TYR:N	37:GP:5:TYR:CD1	2.81	0.47
20:G2:77:U:C4	40:GS:73:TYR:CD2	3.02	0.47
42:GU:121:ALA:HB1	18:HU:146:ALA:HB3	1.96	0.47
43:GV:205:ASP:HB3	43:GV:238:MET:O	2.14	0.47
43:GV:82:PHE:HB3	43:GV:231:ILE:CD1	2.45	0.47
45:GX:73:PHE:HE1	45:GX:120:ARG:HH11	1.61	0.47
46:GY:42:CYS:SG	46:GY:44:LYS:HG3	2.54	0.47
1:H1:1095:C:C4'	1:H1:1096:G:OP2	2.62	0.47
1:H1:1237:U:O2'	1:H1:1238:U:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1512:G:H3'	50:H1:4094:HOH:O	2.13	0.47
1:H1:1694:C:O2	1:H1:1804:G:N2	2.28	0.47
1:H1:1845:U:H3	11:HL:69:ARG:HG3	1.80	0.47
1:H1:2101:G:C8	50:H1:4225:HOH:O	2.67	0.47
1:H1:2125:C:O2'	1:H1:2140:A:N3	2.47	0.47
1:H1:2148:A:H2'	1:H1:2149:U:H6	1.78	0.47
1:H1:2187:C:H2'	1:H1:2188:U:C5'	2.44	0.47
1:H1:2212:U:H2'	1:H1:2213:G:H8	1.80	0.47
1:H1:2586:G:O2'	1:H1:2587:G:H5'	2.14	0.47
1:H1:358:C:H4'	1:H1:842:A:H61	1.78	0.47
1:H1:360:A:H1'	1:H1:839:U:O4'	2.14	0.47
1:H1:68:A:H1'	1:H1:70:C:H41	1.79	0.47
1:H1:940:A:N3	1:H1:940:A:C2'	2.76	0.47
5:HE:69:LEU:HD21	5:HE:114:ASP:HA	1.96	0.47
13:HN:23:ALA:CB	13:HN:45:GLY:HA3	2.43	0.47
1:H1:511:U:H5''	14:HO:70:VAL:HG21	1.96	0.47
17:HT:12:GLN:OE1	17:HT:12:GLN:HA	2.13	0.47
1:H1:74:G:H2'	18:HU:98:ARG:CD	2.44	0.47
19:HX:15:GLN:NE2	19:HX:115:GLY:CA	2.77	0.47
19:HX:45:ALA:HA	19:HX:50:HIS:HD2	1.78	0.47
1:A1:1249:G:C2'	1:A1:1250:A:OP2	2.62	0.47
1:A1:1343:G:C2	30:BI:129:ARG:NH2	2.83	0.47
1:A1:1453:U:O2'	1:A1:1454:A:H5'	2.14	0.47
1:A1:147:U:O2	1:A1:147:U:H2'	2.14	0.47
1:A1:1495:C:C4'	1:A1:1496:U:OP2	2.59	0.47
1:A1:1772:G:C2'	1:A1:1773:G:H5'	2.44	0.47
1:A1:2180:G:OP1	22:BA:203:VAL:HG23	2.14	0.47
1:A1:2602:U:O2	1:A1:2792:A:C8	2.67	0.47
1:A1:474:G:H2'	1:A1:475:C:H6	1.79	0.47
1:A1:70:C:O2'	1:A1:71:U:H5''	2.13	0.47
1:A1:718:A:C2'	1:A1:719:C:H5'	2.44	0.47
1:A1:73:G:OP1	18:AU:56:VAL:CG1	2.63	0.47
1:A1:747:G:C2'	1:A1:748:G:H5'	2.43	0.47
2:AA:21:ARG:HB2	2:AA:39:TYR:HD1	1.80	0.47
8:AH:54:LYS:HA	8:AH:110:PRO:HG2	1.94	0.47
1:A1:1880:C:C1'	11:AL:7:TYR:HE1	2.28	0.47
14:AO:52:GLY:HA3	14:AO:118:ASN:ND2	2.27	0.47
1:A1:2219:A:OP1	16:AQ:78:ARG:NH2	2.47	0.47
16:AQ:15:THR:HG21	18:AU:103:CYS:SG	2.53	0.47
20:B2:108:G:H4'	20:B2:135:A:H5'	1.96	0.47
23:BB:121:ASN:HD21	23:BB:124:ASN:HD22	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:58:ARG:HH21	23:BB:60:VAL:HG12	1.79	0.47
24:BC:222:THR:HG23	24:BC:225:ARG:HD2	1.96	0.47
18:AU:164:LYS:HZ3	32:BK:100:PRO:HB3	1.77	0.47
34:BM:119:TYR:CE1	34:BM:132:VAL:HG11	2.46	0.47
35:BN:102:CYS:SG	35:BN:127:LEU:HG	2.55	0.47
35:BN:36:PHE:CZ	35:BN:40:ARG:HD2	2.50	0.47
1:A1:242:G:H5'	42:BU:98:LYS:NZ	2.29	0.47
20:C2:3:A:N3	20:C2:3:A:H2'	2.28	0.47
22:CA:117:VAL:CG1	22:CA:118:GLU:N	2.77	0.47
24:CC:175:PHE:C	24:CC:175:PHE:CD1	2.87	0.47
24:CC:163:VAL:HG21	24:CC:175:PHE:HE2	1.78	0.47
27:CF:92:TYR:CE1	27:CF:200:ASP:OD2	2.67	0.47
29:CH:201:GLY:O	29:CH:208:ARG:NH2	2.46	0.47
32:CK:76:ASN:HA	32:CK:113:LEU:O	2.14	0.47
33:CL:78:GLY:HA2	33:CL:89:ILE:CD1	2.45	0.47
35:CN:114:ILE:O	35:CN:119:GLY:HA3	2.14	0.47
35:CN:122:LEU:HA	35:CN:126:GLN:OE1	2.15	0.47
47:CO:106:LEU:HB3	47:CO:120:TYR:HE1	1.78	0.47
34:CM:34:LYS:HE3	37:CP:30:TYR:HE1	1.80	0.47
42:CU:33:ARG:O	42:CU:37:ILE:HG13	2.13	0.47
43:CV:100:LEU:HD23	43:CV:100:LEU:HA	1.61	0.47
43:CV:141:ILE:HG21	43:CV:185:ILE:HG21	1.95	0.47
43:CV:66:ALA:HB1	43:CV:72:PHE:HA	1.97	0.47
1:D1:1051:C:H2'	1:D1:1052:A:C1'	2.43	0.47
1:D1:1114:C:C2'	1:D1:1115:U:C5'	2.92	0.47
1:D1:1227:A:C2'	1:D1:1227:A:N3	2.76	0.47
1:D1:125:G:H2'	1:D1:126:A:O4'	2.14	0.47
45:CX:80:ASN:HD22	1:D1:1413:G:H4'	1.79	0.47
1:D1:2245:G:C6	1:D1:2246:G:C6	3.02	0.47
1:D1:2247:A:C2'	1:D1:2248:G:H8	2.22	0.47
22:CA:71:LYS:CE	1:D1:2517:G:O6	2.62	0.47
1:D1:2583:C:H2'	1:D1:2584:A:O4'	2.13	0.47
1:D1:2899:C:H5''	50:D1:4562:HOH:O	2.15	0.47
33:CL:69:GLY:O	1:D1:289:G:H4'	2.14	0.47
1:D1:3114:U:C3'	1:D1:3115:C:H5''	2.44	0.47
1:D1:3174:U:C6	1:D1:3174:U:OP2	2.67	0.47
1:D1:434:A:C5'	1:D1:435:A:OP1	2.61	0.47
1:D1:772:U:O2'	1:D1:773:C:H5'	2.14	0.47
1:D1:94:A:C2	1:D1:95:U:C6	3.02	0.47
6:DF:23:LYS:CB	6:DF:43:ILE:HD11	2.44	0.47
6:DF:67:GLN:HE21	6:DF:71:LEU:CB	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DG:14:LEU:O	7:DG:18:MET:HG2	2.13	0.47
8:DH:9:VAL:HG12	8:DH:10:ALA:H	1.78	0.47
10:DK:93:LYS:HA	10:DK:105:PRO:HD3	1.97	0.47
1:D1:519:A:C5'	14:DO:89:ARG:HH11	2.25	0.47
33:CL:6:TYR:CA	16:DQ:45:ILE:HD11	2.39	0.47
23:EB:228:ILE:O	23:EB:232:GLY:HA2	2.14	0.47
24:EC:369:HIS:CE1	43:EV:68:LYS:HZ1	2.32	0.47
25:ED:57:PHE:CD1	1:F1:2669:A:C6	3.02	0.47
26:EE:48:PRO:HB3	26:EE:53:VAL:HG22	1.95	0.47
27:EF:122:PRO:HD3	1:F1:118:A:N7	2.29	0.47
23:EB:260:PHE:HD1	30:EI:63:HIS:O	1.97	0.47
34:EM:141:PRO:HB2	34:EM:172:ASN:HB2	1.97	0.47
21:E3:48:G:O2'	34:EM:227:GLN:O	2.20	0.47
34:EM:283:THR:HG22	34:EM:285:ALA:N	2.26	0.47
34:EM:59:ARG:CD	34:EM:61:ILE:HG12	2.40	0.47
35:EN:63:LEU:CD2	35:EN:140:LEU:HB3	2.44	0.47
38:EQ:21:ALA:HB2	38:EQ:96:LEU:HD21	1.96	0.47
44:EW:10:ASP:OD1	44:EW:73:ARG:CG	2.57	0.47
45:EX:89:MET:CE	14:FO:31:VAL:O	2.61	0.47
1:F1:1112:A:C6	1:F1:1113:A:N6	2.82	0.47
1:F1:1137:U:H2'	1:F1:1138:U:O4'	2.14	0.47
1:F1:1237:U:O2'	1:F1:1238:U:H5'	2.14	0.47
24:EC:299:ILE:HG22	1:F1:1375:A:O2'	2.14	0.47
1:F1:2559:U:N3	1:F1:2560:U:C5	2.82	0.47
1:F1:2562:U:OP2	13:FN:58:GLY:N	2.47	0.47
1:F1:2738:G:C2'	1:F1:2739:C:H5'	2.43	0.47
23:EB:253:TRP:CE2	1:F1:2929:A:N7	2.82	0.47
1:F1:3006:A:O2'	1:F1:3007:G:H5'	2.14	0.47
1:F1:3294:A:O5'	1:F1:3294:A:H8	1.97	0.47
1:F1:3298:U:H1'	1:F1:3299:G:P	2.54	0.47
1:F1:33:A:O2'	1:F1:34:C:H5'	2.14	0.47
1:F1:927:G:C4	1:F1:928:U:C6	3.03	0.47
5:FE:160:LEU:HA	5:FE:160:LEU:HD23	1.66	0.47
19:FX:7:GLN:HE22	19:FX:80:GLU:CB	2.25	0.47
22:GA:33:TYR:CD1	22:GA:164:ARG:NH2	2.82	0.47
22:GA:238:LEU:H	22:GA:238:LEU:HG	1.40	0.47
24:GC:351:SER:O	24:GC:355:ARG:HG3	2.14	0.47
25:GD:109:HIS:HE2	25:GD:120:THR:CG2	2.27	0.47
25:GD:160:ILE:HG22	25:GD:164:LYS:HE3	1.96	0.47
25:GD:16:LYS:HB3	25:GD:72:ARG:HE	1.78	0.47
26:GE:45:ILE:HG23	26:GE:55:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:GI:159:ARG:HB2	30:GI:162:ARG:CZ	2.45	0.47
34:GM:21:ARG:HA	34:GM:24:ARG:CZ	2.44	0.47
35:GN:36:PHE:CZ	35:GN:40:ARG:HD2	2.49	0.47
35:GN:6:HIS:CE1	1:H1:1131:G:N3	2.81	0.47
37:GP:42:ILE:HG22	37:GP:60:ARG:O	2.14	0.47
40:GS:80:HIS:ND1	40:GS:95:GLN:CB	2.76	0.47
43:GV:128:LEU:O	43:GV:224:TRP:HB2	2.14	0.47
45:GX:62:ASP:HA	1:H1:1366:C:H5''	1.97	0.47
37:GP:130:ARG:NH2	1:H1:1088:A:N3	2.62	0.47
1:H1:125:G:H2'	1:H1:126:A:O4'	2.14	0.47
1:H1:1592:G:H2'	1:H1:1593:A:H8	1.74	0.47
1:H1:1600:U:C5	1:H1:1601:U:C5	3.01	0.47
1:H1:1655:A:N3	1:H1:1655:A:C2'	2.72	0.47
1:H1:1907:A:H2'	1:H1:1908:A:H8	1.79	0.47
40:GS:61:LYS:HG2	1:H1:218:G:O6	2.13	0.47
1:H1:2249:U:C2	1:H1:2250:A:C8	3.03	0.47
1:H1:2520:G:H4'	1:H1:2521:A:OP2	2.13	0.47
1:H1:2572:U:O2'	1:H1:2573:U:H5'	2.14	0.47
1:H1:2669:A:C3'	1:H1:2670:U:C6	2.97	0.47
1:H1:2700:A:H2'	1:H1:2701:U:O4'	2.14	0.47
1:H1:39:G:C4	1:H1:2789:A:C2	3.02	0.47
1:H1:3178:U:H5''	6:HF:97:LYS:NZ	2.29	0.47
1:H1:3191:G:H2'	1:H1:3192:C:OP2	2.13	0.47
1:H1:3234:U:H6	1:H1:3234:U:O5'	1.97	0.47
41:GT:52:THR:HB	1:H1:3292:U:C5	2.49	0.47
1:H1:443:G:C6	1:H1:444:A:C6	3.03	0.47
1:H1:558:U:O2'	1:H1:559:G:H5'	2.14	0.47
1:H1:619:G:O2'	1:H1:620:A:C2	2.64	0.47
1:H1:943:C:O2'	1:H1:944:U:H5'	2.14	0.47
2:HA:26:THR:HG21	2:HA:36:ALA:HB2	1.95	0.47
5:HE:180:LEU:HD21	5:HE:186:PRO:HG3	1.96	0.47
5:HE:179:THR:HG22	5:HE:180:LEU:N	2.30	0.47
5:HE:18:TRP:CB	14:HO:95:ARG:NH2	2.77	0.47
1:H1:1507:A:N1	11:HL:2:ALA:HB3	2.28	0.47
19:HX:18:VAL:HG21	19:HX:117:VAL:HG12	1.95	0.47
1:A1:207:U:H2'	1:A1:207:U:O2	2.13	0.47
1:A1:198:A:C6	1:A1:219:A:C6	3.02	0.47
1:A1:2266:A:N7	1:A1:2267:G:C6	2.82	0.47
1:A1:2583:C:H2'	1:A1:2584:A:O4'	2.14	0.47
1:A1:2703:G:H2'	1:A1:2740:G:N2	2.30	0.47
1:A1:2751:A:H2'	1:A1:2752:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:105:A:H1'	1:A1:324:A:N3	2.29	0.47
1:A1:32:A:H2'	1:A1:33:A:C8	2.50	0.47
1:A1:3304:U:H2'	1:A1:3305:A:C8	2.49	0.47
1:A1:467:A:C6	1:A1:468:A:C4	3.02	0.47
1:A1:927:G:C4	1:A1:928:U:C6	3.02	0.47
5:AE:128:ASN:OD1	5:AE:130:PHE:N	2.47	0.47
6:AF:28:VAL:CG1	6:AF:66:ASN:H	2.24	0.47
7:AG:13:LYS:CD	7:AG:100:ILE:HD13	2.43	0.47
13:AN:101:LYS:CA	13:AN:106:ALA:HB3	2.45	0.47
16:AQ:18:LEU:HA	16:AQ:18:LEU:HD23	1.65	0.47
1:A1:742:U:C5	17:AT:61:LYS:HD2	2.44	0.47
18:AU:29:GLN:O	18:AU:30:LYS:C	2.53	0.47
20:B2:143:U:H2'	20:B2:144:U:C6	2.50	0.47
20:B2:16:G:H5''	50:B2:329:HOH:O	2.14	0.47
22:BA:31:ARG:CB	22:BA:37:GLU:OE2	2.63	0.47
22:BA:43:ARG:HD2	22:BA:88:TYR:CD1	2.50	0.47
1:A1:2332:C:P	23:BB:238:LYS:HE3	2.54	0.47
23:BB:54:THR:CG2	23:BB:358:ASP:HB3	2.43	0.47
23:BB:57:LEU:HB3	23:BB:356:PHE:HB3	1.96	0.47
24:BC:7:ILE:HD11	24:BC:25:LEU:HD13	1.97	0.47
26:BE:5:LEU:HB2	26:BE:58:TRP:CZ3	2.50	0.47
27:BF:153:ILE:O	27:BF:157:ILE:HG13	2.14	0.47
27:BF:196:VAL:HG21	27:BF:204:LEU:HD11	1.97	0.47
31:BJ:83:ILE:CD1	31:BJ:105:VAL:HG23	2.45	0.47
32:BK:127:ALA:HB3	32:BK:130:PHE:CZ	2.50	0.47
18:AU:166:VAL:HB	32:BK:98:LYS:HA	1.96	0.47
33:BL:102:ALA:O	33:BL:106:VAL:HG23	2.14	0.47
33:BL:182:LYS:CG	33:BL:183:SER:N	2.75	0.47
34:BM:49:TYR:HB2	34:BM:143:LYS:O	2.14	0.47
35:BN:30:LEU:O	35:BN:33:LEU:HB3	2.15	0.47
40:BS:51:LYS:O	40:BS:51:LYS:HG3	2.14	0.47
43:BV:114:PHE:CD2	43:BV:115:ARG:O	2.67	0.47
45:BX:8:HIS:NE2	45:BX:72:GLY:HA2	2.29	0.47
21:C3:8:G:C5	21:C3:9:C:C5	3.02	0.47
22:CA:31:ARG:HH12	22:CA:42:ILE:CG1	2.27	0.47
23:CB:303:ILE:O	23:CB:305:PRO:HD3	2.13	0.47
24:CC:356:GLN:O	24:CC:360:LYS:HG2	2.14	0.47
25:CD:162:TRP:CH2	25:CD:167:PHE:CE2	3.02	0.47
29:CH:92:HIS:HD2	1:D1:1070:U:C1'	2.27	0.47
30:CI:183:ALA:HB1	30:CI:184:PRO:CD	2.45	0.47
32:CK:15:VAL:HG21	32:CK:21:ARG:HH21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:26:ARG:CZ	33:CL:43:SER:OG	2.62	0.47
47:CO:163:UNK:HA	47:CO:166:UNK:HG3	1.96	0.47
40:CS:3:THR:CG2	40:CS:3:THR:O	2.63	0.47
46:CY:10:ILE:CD1	46:CY:30:GLU:HB3	2.44	0.47
44:CW:32:ILE:HD12	1:D1:1484:U:O2'	2.13	0.47
1:D1:1598:C:C3'	1:D1:1599:G:H5'	2.44	0.47
1:D1:1589:G:C8	1:D1:1605:G:N2	2.82	0.47
1:D1:2123:U:C2'	1:D1:2124:C:H5'	2.45	0.47
1:D1:2300:G:O5'	1:D1:2300:G:H8	1.97	0.47
1:D1:2962:U:H6	1:D1:2962:U:C5'	2.28	0.47
23:CB:178:GLU:HB2	1:D1:2992:G:OP1	2.14	0.47
1:D1:3085:C:H2'	1:D1:3086:U:C6	2.48	0.47
1:D1:347:A:H1'	1:D1:351:A:N3	2.29	0.47
1:D1:451:A:H2'	1:D1:452:U:O4'	2.14	0.47
1:D1:591:G:C2'	1:D1:592:A:O5'	2.62	0.47
1:D1:643:A:H4'	1:D1:644:A:O5'	2.15	0.47
1:D1:680:A:C6	1:D1:681:A:C6	3.03	0.47
1:D1:68:A:C2	1:D1:69:A:N3	2.83	0.47
1:D1:941:G:O6	1:D1:2409:G:O2'	2.30	0.47
8:DH:44:THR:O	8:DH:48:VAL:HG23	2.14	0.47
13:DN:57:MET:HE3	13:DN:65:ARG:NH1	2.30	0.47
13:DN:90:LEU:O	13:DN:121:LYS:HE3	2.13	0.47
1:D1:1775:A:C5'	15:DP:34:LYS:NZ	2.77	0.47
42:CU:118:ARG:CD	18:DU:123:LEU:HD11	2.42	0.47
42:CU:119:LYS:HB2	18:DU:124:PHE:HB2	1.97	0.47
32:CK:98:LYS:HA	18:DU:166:VAL:HG23	1.96	0.47
32:CK:142:GLY:C	18:DU:173:ARG:NH2	2.66	0.47
19:DX:45:ALA:HA	19:DX:50:HIS:HD2	1.79	0.47
20:E2:95:C:O2'	20:E2:96:A:H8	1.97	0.47
22:EA:208:VAL:HG21	1:F1:941:G:O6	2.11	0.47
23:EB:56:ILE:CD1	23:EB:321:MET:HE3	2.43	0.47
23:EB:56:ILE:O	23:EB:73:VAL:HA	2.15	0.47
24:EC:44:ASP:N	24:EC:44:ASP:OD1	2.45	0.47
27:EF:22:PHE:O	1:F1:2553:G:C5'	2.63	0.47
32:EK:76:ASN:HB3	32:EK:78:ASP:OD1	2.15	0.47
39:ER:75:LEU:HD21	39:ER:93:TYR:CE2	2.49	0.47
39:ER:75:LEU:HD21	39:ER:93:TYR:HE2	1.80	0.47
43:EV:72:PHE:HD1	43:EV:73:TYR:N	2.09	0.47
1:F1:1817:C:H2'	1:F1:1818:C:C6	2.49	0.47
1:F1:2189:G:H1'	1:F1:2269:U:C2	2.50	0.47
1:F1:2324:A:C5	1:F1:2325:C:C5	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:170:A:N6	1:F1:249:G:H1'	2.27	0.47
25:ED:140:ARG:HH22	1:F1:2674:A:P	2.36	0.47
29:EH:61:THR:OG1	1:F1:2842:U:OP1	2.32	0.47
1:F1:2934:A:N6	50:F1:3948:HOH:O	2.46	0.47
1:F1:3174:U:OP2	1:F1:3174:U:C6	2.67	0.47
1:F1:3230:G:H22	5:FE:142:GLU:CD	2.07	0.47
23:EB:171:GLN:CG	1:F1:3273:U:H5''	2.43	0.47
1:F1:3343:U:H5''	1:F1:3344:U:OP1	2.15	0.47
1:F1:358:C:H4'	1:F1:842:A:H61	1.73	0.47
1:F1:655:A:H2'	1:F1:656:C:H6	1.76	0.47
1:F1:687:C:H2'	1:F1:688:U:H6	1.79	0.47
1:F1:822:U:OP1	18:FU:1:MET:N	2.41	0.47
2:FA:65:MET:HE2	2:FA:68:MET:HG3	1.96	0.47
3:FB:44:TRP:CZ3	3:FB:45:ARG:HD2	2.49	0.47
5:FE:104:LEU:O	5:FE:107:VAL:HG22	2.14	0.47
7:FG:64:GLN:CG	7:FG:64:GLN:O	2.62	0.47
13:FN:118:PHE:HE2	13:FN:138:PHE:HE2	1.62	0.47
33:EL:13:LYS:HZ3	16:FQ:46:ARG:HA	1.76	0.47
18:FU:44:VAL:CG1	18:FU:47:ARG:HG3	2.44	0.47
19:FX:57:TYR:O	19:FX:60:ARG:HG2	2.14	0.47
20:G2:2:G:C5	1:H1:2983:A:C2	3.02	0.47
23:GB:382:ARG:HH22	1:H1:3287:U:P	2.37	0.47
24:GC:98:GLY:HA2	24:GC:105:ARG:HH12	1.79	0.47
27:GF:169:PRO:CB	27:GF:211:PHE:HB2	2.43	0.47
35:GN:24:ASN:ND2	35:GN:27:HIS:HB2	2.30	0.47
35:GN:67:ARG:HD3	35:GN:67:ARG:HA	1.72	0.47
35:GN:73:ASN:HB2	35:GN:76:ASN:OD1	2.14	0.47
36:GO:6:LEU:HD11	36:GO:10:LEU:HD11	1.95	0.47
37:GP:27:ILE:O	37:GP:30:TYR:HB2	2.15	0.47
38:GQ:8:ARG:HD3	38:GQ:118:HIS:HB2	1.94	0.47
42:GU:35:ALA:HB1	42:GU:44:LYS:HD3	1.97	0.47
42:GU:36:LYS:HE3	42:GU:48:ILE:HD12	1.96	0.47
43:GV:184:GLU:O	43:GV:188:VAL:N	2.47	0.47
46:GY:8:VAL:CG1	46:GY:12:ARG:N	2.78	0.47
46:GY:26:VAL:O	46:GY:27:LYS:C	2.53	0.47
1:H1:1403:C:O2'	1:H1:1434:G:O2'	2.26	0.47
1:H1:1871:A:OP1	50:H1:4113:HOH:O	2.20	0.47
1:H1:2103:A:C2	1:H1:2104:C:C2	3.03	0.47
1:H1:261:U:H2'	1:H1:262:C:H5'	1.96	0.47
1:H1:2631:A:H5'	17:HT:7:SER:HB3	1.95	0.47
32:GK:63:PHE:CE1	1:H1:282:G:N3	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2885:A:O2'	1:H1:2886:G:H3'	2.14	0.47
23:GB:152:TYR:CE2	1:H1:3204:A:C8	3.02	0.47
1:H1:661:C:H1'	1:H1:662:C:C6	2.49	0.47
1:H1:976:A:OP2	1:H1:1394:G:N2	2.44	0.47
6:HF:28:VAL:CG1	6:HF:66:ASN:HA	2.44	0.47
9:HJ:117:ILE:HD13	9:HJ:137:VAL:CG1	2.45	0.47
9:HJ:4:ARG:HA	9:HJ:206:CYS:O	2.14	0.47
13:HN:111:ARG:O	13:HN:115:LYS:HG3	2.14	0.47
14:HO:9:VAL:HG12	14:HO:13:ASN:CB	2.44	0.47
17:HT:32:THR:HG23	17:HT:40:LEU:HD21	1.96	0.47
26:GE:58:TRP:NE1	19:HX:164:PRO:HG2	2.29	0.47
1:A1:1077:U:H4'	37:BP:19:TYR:CD2	2.49	0.47
1:A1:1136:C:H4'	35:BN:152:TRP:CE2	2.49	0.47
1:A1:1593:A:C2	1:A1:1594:C:N3	2.83	0.47
1:A1:1746:U:C1'	36:BO:96:MET:HG2	2.45	0.47
1:A1:2103:A:C2	1:A1:2104:C:C2	3.02	0.47
1:A1:1937:G:O2'	1:A1:2116:A:H1'	2.14	0.47
1:A1:2343:A:H2'	1:A1:2344:U:H5''	1.96	0.47
1:A1:2350:G:H5'	38:BQ:141:TYR:CE2	2.49	0.47
1:A1:170:A:C5	1:A1:250:U:N3	2.83	0.47
1:A1:2713:U:H4'	37:BP:54:TYR:CD1	2.50	0.47
1:A1:344:G:O6	1:A1:347:A:OP1	2.31	0.47
1:A1:415:A:H4'	1:A1:653:C:O3'	2.15	0.47
1:A1:709:G:H5''	18:AU:37:ARG:CZ	2.45	0.47
1:A1:766:G:O2'	1:A1:767:C:P	2.72	0.47
13:AN:23:ALA:CB	13:AN:45:GLY:HA3	2.43	0.47
17:AT:12:GLN:OE1	17:AT:12:GLN:HA	2.14	0.47
18:AU:29:GLN:NE2	50:AU:304:HOH:O	2.46	0.47
20:B2:2:G:O2'	20:B2:3:A:P	2.72	0.47
22:BA:179:PRO:HG2	46:BY:26:VAL:CG2	2.44	0.47
1:A1:117:G:C4	27:BF:131:HIS:CE1	3.03	0.47
27:BF:153:ILE:HG22	27:BF:157:ILE:CG1	2.44	0.47
27:BF:183:VAL:O	27:BF:184:ASN:HB2	2.15	0.47
27:BF:143:LEU:HD22	27:BF:211:PHE:HD2	1.79	0.47
35:BN:122:LEU:HA	35:BN:126:GLN:OE1	2.14	0.47
36:BO:150:ILE:O	36:BO:150:ILE:HG22	2.15	0.47
1:A1:3341:C:H1'	44:BW:105:THR:HG21	1.95	0.47
44:BW:81:GLU:OE1	44:BW:81:GLU:HA	2.15	0.47
46:BY:26:VAL:O	46:BY:27:LYS:C	2.51	0.47
20:C2:148:U:O2'	27:CF:58:ARG:NH1	2.37	0.47
20:C2:71:G:H2'	20:C2:72:C:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:301:LYS:HD3	23:CB:359:THR:CG2	2.43	0.47
23:CB:46:PHE:CE1	23:CB:84:MET:HG3	2.49	0.47
24:CC:175:PHE:CE1	24:CC:179:VAL:HG21	2.50	0.47
24:CC:230:ILE:HG22	24:CC:233:VAL:HG13	1.96	0.47
24:CC:351:SER:O	24:CC:355:ARG:HG3	2.15	0.47
25:CD:115:LYS:CG	25:CD:116:TYR:N	2.77	0.47
21:C3:54:A:O2'	25:CD:152:GLN:NE2	2.47	0.47
27:CF:114:GLY:O	27:CF:115:LYS:HB2	2.15	0.47
27:CF:232:GLN:O	27:CF:233:LYS:C	2.51	0.47
28:CG:9:UNK:O	28:CG:13:UNK:HB2	2.15	0.47
30:CI:141:SER:HB3	30:CI:146:TRP:HB3	1.97	0.47
30:CI:98:LEU:HD23	30:CI:98:LEU:HA	1.74	0.47
31:CJ:83:ILE:CG2	31:CJ:122:VAL:HA	2.44	0.47
1:D1:1039:G:C2'	1:D1:1041:C:H41	2.26	0.47
1:D1:1351:U:H2'	1:D1:1352:U:C6	2.49	0.47
1:D1:1370:A:N1	1:D1:1389:G:C6	2.83	0.47
1:D1:219:A:N1	1:D1:1416:U:H2'	2.27	0.47
39:CR:43:LEU:HD11	1:D1:1599:G:C5'	2.44	0.47
47:CO:42:ARG:HH22	1:D1:1626:U:P	2.38	0.47
1:D1:1698:G:C6	1:D1:1800:A:N1	2.82	0.47
47:CO:128:LYS:NZ	1:D1:1745:U:O4	2.45	0.47
1:D1:1554:G:N2	1:D1:1857:G:C4	2.83	0.47
1:D1:2259:U:H2'	1:D1:2260:C:C6	2.49	0.47
1:D1:2275:A:O2'	1:D1:2276:A:P	2.70	0.47
42:CU:98:LYS:CG	1:D1:242:G:OP1	2.62	0.47
1:D1:2719:A:H2'	1:D1:2720:G:C8	2.46	0.47
1:D1:2751:A:H2'	1:D1:2752:U:C6	2.49	0.47
1:D1:3008:U:O2'	1:D1:3009:U:H5'	2.14	0.47
1:D1:3098:A:C2	1:D1:3115:C:N3	2.82	0.47
1:D1:3176:A:C4'	1:D1:3177:G:O5'	2.58	0.47
1:D1:3230:G:HO2'	1:D1:3231:U:P	2.35	0.47
1:D1:3344:U:C2'	1:D1:3344:U:O2	2.61	0.47
1:D1:561:A:C2'	1:D1:562:G:H5'	2.44	0.47
8:DH:91:PHE:CD1	8:DH:91:PHE:N	2.83	0.47
1:D1:1104:C:N1	17:DT:42:ASN:ND2	2.61	0.47
19:DX:4:LYS:HE2	19:DX:12:ASP:OD1	2.15	0.47
23:EB:110:ILE:CG2	23:EB:114:THR:HG21	2.45	0.47
24:EC:77:ALA:HA	50:F1:4562:HOH:O	2.14	0.47
26:EE:2:ARG:HH12	30:EI:129:ARG:CZ	2.26	0.47
30:EI:186:LEU:HD11	6:FF:122:SER:CB	2.28	0.47
31:EJ:41:ILE:HD13	1:F1:2290:A:C4	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:EK:141:VAL:O	32:EK:141:VAL:CG1	2.61	0.47
32:EK:18:GLY:HA2	1:F1:1397:G:H5''	1.97	0.47
33:EL:27:THR:CG2	33:EL:124:ASP:HB3	2.43	0.47
34:EM:41:LYS:HZ1	37:EP:30:TYR:C	2.14	0.47
43:EV:124:ILE:O	43:EV:124:ILE:HG22	2.14	0.47
46:EY:17:ARG:C	46:EY:18:TYR:CD2	2.87	0.47
1:F1:1223:U:O2'	1:F1:1224:A:H5'	2.15	0.47
1:F1:1252:A:N3	1:F1:3105:G:C8	2.82	0.47
1:F1:207:U:O2	1:F1:207:U:H2'	2.13	0.47
1:F1:2138:A:H4'	1:F1:2139:A:O5'	2.14	0.47
1:F1:2753:C:C5	1:F1:2754:C:C5	3.03	0.47
1:F1:3000:A:H4'	1:F1:3001:A:H4'	1.96	0.47
30:EI:163:ALA:HB1	1:F1:3163:A:O2'	2.14	0.47
1:F1:486:C:C2'	1:F1:487:G:H5'	2.44	0.47
1:F1:578:G:H2'	1:F1:579:G:H5''	1.97	0.47
1:F1:661:C:C2	1:F1:662:C:C5	3.02	0.47
45:EX:29:LYS:HG2	1:F1:679:C:OP1	2.15	0.47
1:F1:897:A:H2'	1:F1:898:C:H5'	1.97	0.47
2:FA:36:ALA:O	2:FA:45:ARG:HD3	2.14	0.47
12:FM:60:ASN:OD1	12:FM:60:ASN:O	2.33	0.47
13:FN:33:THR:HG22	13:FN:34:LYS:H	1.80	0.47
17:FT:56:SER:OG	17:FT:57:LYS:N	2.47	0.47
18:FU:34:LEU:HA	18:FU:37:ARG:HD2	1.97	0.47
21:G3:29:C:OP1	25:GD:134:PRO:O	2.32	0.47
24:GC:182:TYR:CE2	24:GC:186:LEU:HG	2.50	0.47
24:GC:44:ASP:N	24:GC:44:ASP:OD1	2.47	0.47
30:GI:48:ARG:HH12	1:H1:1217:A:H8	1.61	0.47
34:GM:140:LYS:O	1:H1:1107:A:H4'	2.14	0.47
34:GM:175:HIS:HD2	34:GM:180:PHE:CE2	2.29	0.47
34:GM:34:LYS:HA	34:GM:37:ILE:HG22	1.96	0.47
35:GN:25:VAL:CG1	14:HO:7:GLU:HB2	2.42	0.47
38:GQ:66:THR:CG2	38:GQ:82:GLN:NE2	2.77	0.47
41:GT:57:ARG:HD2	41:GT:61:TRP:CD1	2.49	0.47
1:H1:1104:C:N1	17:HT:42:ASN:ND2	2.61	0.47
1:H1:1247:C:C5'	1:H1:1248:G:H5''	2.35	0.47
1:H1:1593:A:C2	1:H1:1594:C:N3	2.82	0.47
1:H1:1907:A:H2'	1:H1:1908:A:C8	2.49	0.47
1:H1:2304:A:N3	1:H1:2949:G:O2'	2.44	0.47
37:GP:3:HIS:NE2	1:H1:2620:U:O4	2.43	0.47
1:H1:2730:C:H2'	1:H1:2731:C:O5'	2.13	0.47
1:H1:2945:G:N7	50:H1:3971:HOH:O	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2276:A:C6	1:H1:2947:C:H1'	2.49	0.47
1:H1:550:G:C6	1:H1:551:U:C4	3.03	0.47
1:H1:94:A:C2	1:H1:95:U:C6	3.03	0.47
4:HC:7:THR:HB	4:HC:94:ILE:CD1	2.41	0.47
5:HE:160:LEU:HA	5:HE:160:LEU:HD23	1.66	0.47
6:HF:44:VAL:HG12	6:HF:45:ARG:N	2.30	0.47
7:HG:43:PHE:CD1	7:HG:68:HIS:HD2	2.33	0.47
8:HH:11:PRO:CG	8:HH:12:THR:N	2.78	0.47
12:HM:35:PHE:HD1	12:HM:65:ILE:CD1	2.25	0.47
15:HP:33:VAL:HG22	15:HP:42:PHE:CD2	2.49	0.47
15:HP:15:TRP:CH2	15:HP:67:ALA:O	2.68	0.47
1:A1:1017:U:C3'	1:A1:1017:U:C6	2.97	0.47
1:A1:1682:G:N7	50:A1:4036:HOH:O	2.35	0.47
1:A1:1842:A:H2'	1:A1:1843:U:C6	2.49	0.47
1:A1:2529:G:H2'	1:A1:2530:G:C8	2.49	0.47
1:A1:2573:U:H1'	27:BF:232:GLN:OE1	2.14	0.47
1:A1:2584:A:H8	1:A1:2584:A:O5'	1.96	0.47
1:A1:2625:A:H5'	1:A1:2626:A:H5''	1.94	0.47
1:A1:3006:A:O2'	1:A1:3007:G:H5'	2.14	0.47
1:A1:3035:A:H2'	1:A1:3036:U:O4'	2.14	0.47
1:A1:3136:A:C5	1:A1:3137:U:C5	3.03	0.47
1:A1:368:A:C5'	1:A1:369:U:OP1	2.62	0.47
1:A1:663:G:H4'	1:A1:1460:G:O6	2.14	0.47
1:A1:70:C:C4	1:A1:72:A:C5	3.03	0.47
5:AE:135:THR:O	5:AE:139:LYS:HG3	2.14	0.47
9:AJ:126:GLU:HG3	9:AJ:137:VAL:HG11	1.96	0.47
14:AO:26:THR:HG22	14:AO:26:THR:O	2.14	0.47
16:AQ:83:THR:HG22	16:AQ:86:ARG:H	1.80	0.47
19:AX:88:THR:O	19:AX:143:LEU:HB2	2.14	0.47
24:BC:258:TRP:CZ3	24:BC:266:LEU:HD21	2.50	0.47
26:BE:7:GLU:OE1	26:BE:54:LYS:HE2	2.14	0.47
37:BP:66:ASN:OD1	37:BP:67:VAL:N	2.47	0.47
45:BX:84:LEU:HD13	45:BX:113:ARG:HB3	1.96	0.47
20:C2:11:C:H2'	20:C2:12:A:C8	2.50	0.47
22:CA:84:TYR:CE1	22:CA:87:GLN:HB2	2.49	0.47
23:CB:368:PHE:CE1	23:CB:374:LYS:HA	2.50	0.47
24:CC:376:TRP:CD1	1:D1:564:A:C1'	2.81	0.47
34:CM:166:ALA:HB1	34:CM:173:ILE:HD11	1.96	0.47
34:CM:201:LYS:HA	34:CM:204:ILE:HG13	1.97	0.47
34:CM:283:THR:HG22	34:CM:285:ALA:N	2.26	0.47
34:CM:54:ARG:NH1	34:CM:149:GLY:HA3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CR:77:THR:O	39:CR:78:GLU:C	2.53	0.47
42:CU:35:ALA:O	42:CU:36:LYS:C	2.53	0.47
43:CV:156:GLN:OE1	1:D1:1389:G:H1'	2.14	0.47
43:CV:81:ALA:HB3	43:CV:114:PHE:CZ	2.50	0.47
45:CX:65:THR:O	45:CX:68:LEU:HB2	2.14	0.47
45:CX:84:LEU:HD13	45:CX:113:ARG:HB3	1.96	0.47
1:D1:1066:A:C6	1:D1:1067:U:C5	3.02	0.47
1:D1:1448:G:C4	1:D1:1449:C:C5	3.03	0.47
1:D1:1620:U:O2'	1:D1:1631:U:O2	2.30	0.47
1:D1:1656:G:C6	1:D1:1657:C:C4	3.03	0.47
1:D1:1808:A:H2'	1:D1:1809:C:C6	2.49	0.47
1:D1:1820:U:H4'	1:D1:1821:U:OP2	2.12	0.47
1:D1:1923:G:H2'	50:D1:4586:HOH:O	2.14	0.47
1:D1:2252:C:C6	1:D1:2252:C:H3'	2.50	0.47
1:D1:300:G:H5'	1:D1:300:G:H8	1.79	0.47
1:D1:3077:G:H2'	1:D1:3078:C:C6	2.49	0.47
1:D1:3229:C:O2'	1:D1:3230:G:OP1	2.31	0.47
1:D1:74:G:H2'	18:DU:98:ARG:CD	2.44	0.47
1:D1:738:U:O2'	1:D1:778:G:OP1	2.32	0.47
2:DA:18:LEU:HA	2:DA:24:LYS:O	2.15	0.47
20:C2:114:G:N2	3:DB:11:LYS:HZ1	2.12	0.47
1:D1:1518:G:O2'	3:DB:48:LYS:NZ	2.47	0.47
5:DE:104:LEU:O	5:DE:107:VAL:HG22	2.14	0.47
5:DE:113:GLU:HA	5:DE:113:GLU:OE1	2.15	0.47
5:DE:41:LEU:CD1	5:DE:45:ILE:HG21	2.42	0.47
14:DO:87:VAL:HG22	14:DO:115:HIS:CD2	2.49	0.47
19:DX:44:PHE:CD2	19:DX:117:VAL:HG21	2.48	0.47
20:E2:3:A:C5'	20:E2:4:A:OP2	2.63	0.47
21:E3:22:A:C6	21:E3:23:A:C6	3.03	0.47
24:EC:173:VAL:HG12	24:EC:177:LYS:HE3	1.97	0.47
25:ED:16:LYS:HB3	25:ED:72:ARG:HE	1.79	0.47
27:EF:196:VAL:CG1	27:EF:197:ARG:N	2.78	0.47
32:EK:42:HIS:O	1:F1:989:G:N2	2.41	0.47
35:EN:172:ARG:HG2	35:EN:173:LYS:HG2	1.97	0.47
35:EN:31:ILE:CG2	35:EN:35:LYS:HE3	2.44	0.47
38:EQ:118:HIS:O	38:EQ:150:ILE:HA	2.14	0.47
39:ER:73:THR:HG23	42:EU:37:ILE:HD11	1.97	0.47
41:ET:49:GLN:O	41:ET:57:ARG:HB2	2.15	0.47
1:F1:1307:C:O2'	1:F1:1308:U:H5'	2.14	0.47
1:F1:1334:G:N3	1:F1:1335:A:C2	2.83	0.47
1:F1:145:A:N6	50:F1:3708:HOH:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:122:U:H4'	1:F1:150:A:H1'	1.96	0.47
1:F1:1772:G:C2'	1:F1:1773:G:H5'	2.44	0.47
1:F1:1842:A:H2'	1:F1:1843:U:C6	2.50	0.47
1:F1:2112:G:N3	1:F1:2112:G:H5'	2.28	0.47
1:F1:2260:C:O2'	1:F1:2261:U:H5'	2.14	0.47
1:F1:2499:U:H2'	1:F1:2500:C:H6	1.77	0.47
25:ED:59:ILE:HD11	1:F1:2669:A:N3	2.30	0.47
1:F1:3229:C:HO2'	1:F1:3230:G:P	2.37	0.47
1:F1:3237:C:N4	8:FH:10:ALA:CA	2.70	0.47
24:EC:319:ARG:CZ	1:F1:634:G:N7	2.77	0.47
1:F1:701:A:N6	1:F1:811:A:O4'	2.47	0.47
2:FA:28:HIS:HD2	2:FA:31:LYS:N	1.95	0.47
7:FG:48:CYS:SG	7:FG:49:PRO:HD2	2.55	0.47
8:FH:13:ARG:NE	8:FH:15:TRP:CE2	2.82	0.47
1:F1:615:G:N2	8:FH:79:LYS:CE	2.77	0.47
1:F1:1663:C:N4	11:FL:75:SER:OG	2.47	0.47
11:FL:83:CYS:O	11:FL:87:VAL:HG23	2.14	0.47
12:FM:32:ILE:HG21	12:FM:61:ASP:O	2.15	0.47
1:F1:1380:C:N3	14:FO:32:THR:HG21	2.30	0.47
16:FQ:19:GLU:O	16:FQ:23:GLN:HG3	2.14	0.47
21:G3:22:A:C6	34:GM:274:HIS:CG	3.03	0.47
23:GB:218:VAL:HA	23:GB:271:HIS:O	2.15	0.47
32:GK:114:GLY:O	1:H1:740:A:H5'	2.15	0.47
33:GL:6:TYR:CD1	16:HQ:45:ILE:HD11	2.49	0.47
34:GM:216:LEU:HD12	34:GM:228:PHE:CE2	2.50	0.47
35:GN:41:THR:HG22	35:GN:43:SER:H	1.79	0.47
35:GN:63:LEU:O	35:GN:87:VAL:HA	2.13	0.47
36:GO:28:GLU:HB3	36:GO:49:LEU:HD13	1.96	0.47
20:G2:18:G:OP1	38:GQ:125:GLN:HG3	2.15	0.47
43:GV:188:VAL:HG12	43:GV:188:VAL:O	2.13	0.47
29:GH:193:ASP:CB	1:H1:1037:A:H1'	2.45	0.47
1:H1:1053:A:H4'	1:H1:1054:G:O4'	2.14	0.47
45:GX:29:LYS:HE3	1:H1:1459:A:O4'	2.14	0.47
1:H1:1902:C:O2	1:H1:1902:C:H2'	2.14	0.47
31:GJ:26:VAL:N	1:H1:1923:G:OP1	2.35	0.47
1:H1:219:A:H2	1:H1:1416:U:C2'	2.22	0.47
1:H1:2537:C:H2'	1:H1:2538:C:H6	1.79	0.47
1:H1:2673:C:H2'	1:H1:2674:A:C8	2.50	0.47
1:H1:2871:U:H2'	1:H1:2872:C:C6	2.49	0.47
1:H1:2919:C:N3	1:H1:2923:U:H5	2.13	0.47
1:H1:3098:A:C2	1:H1:3115:C:N3	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:32:A:H2'	1:H1:33:A:C8	2.49	0.47
1:H1:470:C:H1'	1:H1:510:A:C2	2.49	0.47
1:H1:734:A:H2'	1:H1:735:A:O4'	2.15	0.47
24:GC:81:ILE:HG13	1:H1:829:C:O2'	2.15	0.47
1:H1:848:C:H2'	1:H1:849:U:H6	1.79	0.47
5:HE:102:VAL:HG22	5:HE:170:LEU:CD2	2.38	0.47
5:HE:179:THR:CG2	5:HE:180:LEU:N	2.78	0.47
16:HQ:52:ALA:O	16:HQ:55:GLU:HB2	2.15	0.47
17:HT:32:THR:O	17:HT:32:THR:HG22	2.15	0.47
1:A1:1254:C:C3'	1:A1:1255:A:H5''	2.45	0.47
1:A1:970:C:O2'	1:A1:1432:G:H1'	2.14	0.47
1:A1:1438:A:H2'	1:A1:1439:U:C6	2.49	0.47
1:A1:1598:C:C5	1:A1:1599:G:C5	3.03	0.47
1:A1:1740:U:H5''	1:A1:1741:U:OP1	2.15	0.47
1:A1:2557:A:H2'	1:A1:2558:U:C6	2.50	0.47
1:A1:2398:G:C5'	1:A1:2859:G:H5''	2.45	0.47
1:A1:3081:C:O3'	1:A1:3082:C:H3'	2.14	0.47
1:A1:314:C:H2'	1:A1:315:U:H6	1.79	0.47
1:A1:3205:A:O2'	1:A1:3206:A:OP2	2.31	0.47
1:A1:1966:U:O2'	1:A1:3303:G:H1'	2.15	0.47
1:A1:974:C:C2'	1:A1:975:G:H5'	2.44	0.47
1:A1:42:U:H1'	4:AC:52:THR:HG23	1.96	0.47
5:AE:42:ARG:H	5:AE:92:GLN:HE21	1.62	0.47
11:AL:49:CYS:O	46:BY:61:LYS:NZ	2.38	0.47
12:AM:98:THR:CG2	12:AM:99:SER:N	2.77	0.47
19:AX:96:GLN:HB3	19:AX:134:THR:CG2	2.45	0.47
22:BA:31:ARG:HH12	22:BA:42:ILE:CG1	2.27	0.47
24:BC:164:GLU:OE1	24:BC:218:ASN:HB2	2.14	0.47
24:BC:337:ALA:O	24:BC:341:LYS:HG2	2.14	0.47
29:BH:98:ARG:NH2	29:BH:119:PHE:CZ	2.83	0.47
30:BI:107:ILE:HD12	30:BI:159:ARG:NH2	2.29	0.47
30:BI:35:VAL:O	30:BI:36:ARG:HB2	2.15	0.47
30:BI:45:SER:HB2	30:BI:48:ARG:H	1.80	0.47
30:BI:92:PRO:O	30:BI:95:ALA:HB3	2.14	0.47
1:A1:826:A:P	32:BK:27:LYS:NZ	2.86	0.47
18:AU:26:GLN:HG2	33:BL:202:ARG:NH2	2.30	0.47
35:BN:172:ARG:HG2	35:BN:173:LYS:HG2	1.96	0.47
36:BO:6:LEU:HD11	36:BO:10:LEU:HD11	1.96	0.47
37:BP:40:VAL:HG13	37:BP:96:VAL:HG13	1.95	0.47
40:BS:57:ILE:HG22	40:BS:63:LYS:HA	1.97	0.47
41:BT:27:ASP:OD1	41:BT:27:ASP:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:185:ILE:HA	43:BV:192:PHE:CE1	2.49	0.47
1:A1:564:A:O5'	43:BV:67:ARG:NH1	2.48	0.47
22:CA:12:ARG:HD2	50:CA:302:HOH:O	2.15	0.47
24:CC:126:ARG:NE	24:CC:280:LYS:HD2	2.30	0.47
24:CC:222:THR:HG23	24:CC:225:ARG:HD2	1.96	0.47
26:CE:84:GLU:HB3	26:CE:185:ALA:O	2.15	0.47
27:CF:143:LEU:HD23	27:CF:169:PRO:HG2	1.97	0.47
30:CI:30:GLN:HG3	30:CI:32:ILE:CD1	2.45	0.47
21:C3:5:U:H1'	34:CM:63:GLN:HE22	1.79	0.47
34:CM:66:TYR:CZ	34:CM:73:ARG:HB2	2.50	0.47
35:CN:37:LEU:O	35:CN:41:THR:CB	2.63	0.47
40:CS:121:LYS:HE2	1:D1:186:U:OP1	2.14	0.47
42:CU:36:LYS:HZ3	42:CU:45:LEU:CD2	2.21	0.47
43:CV:7:GLU:O	43:CV:11:LYS:HG3	2.14	0.47
46:CY:62:LYS:NZ	1:D1:2545:A:N7	2.61	0.47
1:D1:122:U:O2'	1:D1:123:C:H5'	2.15	0.47
1:D1:12:A:H2'	1:D1:13:C:C6	2.50	0.47
1:D1:1598:C:C5	1:D1:1599:G:C5	3.03	0.47
1:D1:1771:U:H4'	15:DP:54:LYS:NZ	2.30	0.47
1:D1:1793:A:C2'	1:D1:1794:G:H5'	2.45	0.47
1:D1:2309:U:C5'	1:D1:2310:G:OP2	2.62	0.47
1:D1:2393:A:C2	1:D1:2394:A:C4	3.03	0.47
1:D1:2557:A:C2	1:D1:2564:G:C5	3.03	0.47
1:D1:2650:U:H2'	1:D1:2651:A:C8	2.49	0.47
34:CM:160:PHE:HE1	1:D1:2735:A:H1'	1.79	0.47
1:D1:3035:A:H2'	1:D1:3036:U:O4'	2.15	0.47
1:D1:3229:C:HO2'	1:D1:3230:G:P	2.37	0.47
1:D1:59:A:H2'	1:D1:60:A:O4'	2.14	0.47
1:D1:820:G:C2'	1:D1:821:U:C5'	2.93	0.47
1:D1:827:C:O2'	1:D1:828:C:H5'	2.15	0.47
1:D1:927:G:C4	1:D1:928:U:C6	3.02	0.47
2:DA:14:LYS:HD3	3:DB:52:TYR:HD1	1.76	0.47
4:DC:95:THR:O	4:DC:99:LYS:HG3	2.15	0.47
6:DF:28:VAL:CG1	6:DF:66:ASN:N	2.78	0.47
19:DX:96:GLN:HB3	19:DX:134:THR:HG21	1.95	0.47
20:E2:105:A:OP2	20:E2:106:A:H2'	2.15	0.47
23:EB:304:THR:HG21	23:EB:314:VAL:HA	1.96	0.47
24:EC:64:GLY:O	24:EC:97:PHE:HB3	2.14	0.47
27:EF:92:TYR:CE1	27:EF:200:ASP:OD2	2.68	0.47
33:EL:119:TYR:CE1	33:EL:131:GLU:HB2	2.49	0.47
34:EM:132:VAL:HG12	34:EM:132:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:177:GLU:HG3	34:EM:177:GLU:O	2.13	0.47
34:EM:175:HIS:CD2	34:EM:180:PHE:CE2	2.94	0.47
24:EC:34:ARG:NE	35:EN:24:ASN:HB2	2.29	0.47
35:EN:94:LEU:HD23	35:EN:94:LEU:HA	1.66	0.47
37:EP:48:GLN:HG3	37:EP:94:GLU:HG3	1.96	0.47
43:EV:41:TRP:HE1	43:EV:176:THR:CG2	2.27	0.47
1:F1:1061:G:H2'	1:F1:1062:A:C8	2.48	0.47
1:F1:1383:G:HO2'	1:F1:1384:G:P	2.37	0.47
1:F1:146:U:OP1	1:F1:147:U:H3'	2.15	0.47
1:F1:1504:C:P	50:F1:4007:HOH:O	2.57	0.47
1:F1:1580:G:H5''	1:F1:1581:C:OP2	2.14	0.47
1:F1:1507:A:H5''	1:F1:1883:A:H62	1.80	0.47
1:F1:2192:C:H4'	1:F1:2193:A:C8	2.49	0.47
1:F1:2649:G:H2'	1:F1:2650:U:H6	1.77	0.47
1:F1:2801:A:N6	1:F1:2802:G:C6	2.82	0.47
1:F1:2879:U:O2'	1:F1:3003:U:H5'	2.15	0.47
1:F1:304:U:O2'	1:F1:305:A:H8	1.97	0.47
1:F1:3175:A:C2	1:F1:3177:G:C6	3.02	0.47
1:F1:331:C:H2'	1:F1:332:G:C5'	2.45	0.47
1:F1:790:C:O2	1:F1:790:C:C2'	2.61	0.47
35:EN:92:ARG:NE	1:F1:810:G:N7	2.63	0.47
8:FH:48:VAL:HG11	8:FH:87:ALA:HB2	1.95	0.47
9:FJ:157:ARG:O	9:FJ:180:PRO:HD2	2.15	0.47
15:FP:47:LYS:HA	15:FP:47:LYS:HD3	1.64	0.47
22:GA:243:ARG:HG3	22:GA:244:THR:H	1.78	0.47
23:GB:32:PHE:HD2	23:GB:44:THR:HG21	1.79	0.47
24:GC:129:VAL:O	24:GC:132:ALA:HB3	2.15	0.47
25:GD:36:VAL:HG21	25:GD:123:PHE:CE2	2.49	0.47
27:GF:136:ILE:HG22	27:GF:166:ASN:HD22	1.79	0.47
32:GK:75:VAL:CG2	32:GK:109:PHE:CB	2.92	0.47
33:GL:118:SER:HB3	33:GL:132:VAL:HG22	1.97	0.47
38:GQ:117:GLN:O	38:GQ:151:PHE:O	2.32	0.47
43:GV:170:LEU:HA	43:GV:170:LEU:HD23	1.59	0.47
43:GV:123:MET:CG	1:H1:1012:U:H1'	2.45	0.47
1:H1:1040:A:C8	1:H1:1041:C:C5	3.02	0.47
30:GI:61:MET:HA	1:H1:1333:G:C6	2.50	0.47
1:H1:1222:A:H2'	1:H1:1336:U:O2	2.14	0.47
44:GW:63:ILE:HG13	1:H1:1482:A:C6	2.50	0.47
1:H1:1547:G:C2	1:H1:1548:U:H5	2.33	0.47
1:H1:1598:C:C5	1:H1:1599:G:C5	3.02	0.47
1:H1:1654:G:N3	1:H1:1654:G:C2'	2.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1743:G:H4'	1:H1:1756:U:H4'	1.97	0.47
1:H1:1570:U:H4'	1:H1:2164:C:O4'	2.14	0.47
1:H1:2194:G:O2'	1:H1:2195:U:H5'	2.14	0.47
36:BO:165:LYS:HZ2	1:H1:2893:U:H1'	1.80	0.47
1:H1:3132:A:H2'	1:H1:3133:G:OP1	2.14	0.47
1:H1:3174:U:OP2	1:H1:3174:U:C6	2.68	0.47
1:H1:344:G:O6	1:H1:347:A:OP1	2.33	0.47
5:HE:135:THR:O	5:HE:139:LYS:HG3	2.15	0.47
6:HF:17:TYR:O	6:HF:17:TYR:CD1	2.67	0.47
9:HJ:59:VAL:HG23	9:HJ:60:GLY:N	2.29	0.47
26:GE:179:VAL:HB	10:HK:89:TYR:OH	2.15	0.47
11:HL:23:VAL:HG21	11:HL:33:GLN:CD	2.34	0.47
13:HN:16:GLY:H	13:HN:19:ALA:HB2	1.79	0.47
14:HO:48:VAL:HG23	14:HO:98:PHE:HZ	1.78	0.47
15:HP:47:LYS:HD3	15:HP:47:LYS:HA	1.62	0.47
19:HX:20:GLN:HE21	19:HX:42:ARG:HG3	1.80	0.47
19:HX:44:PHE:CD2	19:HX:117:VAL:HG21	2.50	0.47
1:A1:1062:A:C2	1:A1:1063:C:C6	3.02	0.47
1:A1:1173:A:OP1	45:BX:49:ARG:HB3	2.15	0.47
1:A1:1252:A:N3	1:A1:3105:G:C8	2.83	0.47
1:A1:1821:U:OP2	22:BA:192:ARG:CZ	2.63	0.47
1:A1:1958:G:N7	50:A1:4530:HOH:O	2.36	0.47
1:A1:2738:G:C2'	1:A1:2739:C:H5'	2.45	0.47
1:A1:2741:U:C4'	1:A1:2742:G:OP2	2.62	0.47
1:A1:2861:U:H5''	50:A1:4262:HOH:O	2.13	0.47
1:A1:2869:C:O2'	1:A1:2870:U:H5'	2.15	0.47
1:A1:3109:C:C6	10:AK:111:ARG:CZ	2.98	0.47
1:A1:3325:G:N7	41:BT:58:ARG:NE	2.62	0.47
1:A1:434:A:C5'	1:A1:435:A:OP1	2.62	0.47
1:A1:643:A:O2'	1:A1:644:A:P	2.72	0.47
4:AC:26:TYR:HB2	4:AC:67:ALA:HB3	1.96	0.47
5:AE:58:PHE:CG	5:AE:85:VAL:HG22	2.49	0.47
6:AF:18:GLY:O	6:AF:21:LYS:HG2	2.15	0.47
9:AJ:4:ARG:HA	9:AJ:206:CYS:O	2.15	0.47
9:AJ:59:VAL:HG23	9:AJ:60:GLY:N	2.29	0.47
11:AL:39:VAL:HG11	11:AL:60:ARG:HA	1.95	0.47
1:A1:1845:U:O2	11:AL:69:ARG:HB2	2.15	0.47
20:B2:43:A:H3'	20:B2:43:A:C8	2.50	0.47
20:B2:45:G:C2'	20:B2:46:A:H5'	2.45	0.47
21:B3:27:A:H5''	34:BM:57:ASN:ND2	2.26	0.47
22:BA:184:GLY:O	22:BA:187:PHE:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BA:33:TYR:CD1	22:BA:164:ARG:NH2	2.82	0.47
22:BA:84:TYR:CE2	22:BA:87:GLN:HA	2.50	0.47
1:A1:365:A:P	24:BC:103:LYS:HZ1	2.37	0.47
24:BC:276:THR:CG2	24:BC:282:GLY:HA2	2.45	0.47
25:BD:36:VAL:HG21	25:BD:123:PHE:CE2	2.49	0.47
29:BH:139:ARG:HB3	29:BH:173:PHE:CE1	2.50	0.47
33:BL:33:LEU:O	33:BL:65:ARG:NH1	2.47	0.47
34:BM:16:PHE:O	37:BP:20:LYS:HE2	2.14	0.47
37:BP:15:PHE:N	37:BP:15:PHE:CD1	2.82	0.47
37:BP:43:MET:HE3	37:BP:43:MET:HB3	1.61	0.47
39:BR:75:LEU:HD12	39:BR:91:VAL:CG1	2.44	0.47
1:A1:186:U:OP1	40:BS:121:LYS:HE2	2.14	0.47
20:C2:58:U:N3	20:C2:65:C:C5	2.71	0.47
21:C3:19:G:H2'	21:C3:20:U:O4'	2.15	0.47
23:CB:233:VAL:HG12	23:CB:234:LYS:O	2.15	0.47
23:CB:292:ALA:HB2	23:CB:303:ILE:N	2.30	0.47
23:CB:56:ILE:HD11	23:CB:321:MET:SD	2.54	0.47
23:CB:306:LEU:HD11	23:CB:371:VAL:HG23	1.95	0.47
23:CB:54:THR:CG2	23:CB:358:ASP:HB3	2.45	0.47
24:CC:157:TYR:CE1	24:CC:179:VAL:CG1	2.97	0.47
24:CC:272:THR:O	24:CC:275:THR:O	2.31	0.47
26:CE:67:VAL:O	26:CE:71:ILE:HG13	2.15	0.47
27:CF:45:VAL:HG12	27:CF:46:ARG:N	2.29	0.47
27:CF:69:GLN:OE1	33:CL:18:LEU:HD22	2.14	0.47
30:CI:159:ARG:HB2	30:CI:162:ARG:CZ	2.44	0.47
30:CI:160:ARG:O	30:CI:163:ALA:HB3	2.15	0.47
34:CM:136:GLN:HB3	34:CM:141:PRO:HD3	1.96	0.47
34:CM:54:ARG:NH2	34:CM:149:GLY:HA3	2.30	0.47
47:CO:24:LEU:HD22	47:CO:50:VAL:HG22	1.96	0.47
37:CP:70:ARG:O	37:CP:93:ILE:HG13	2.14	0.47
45:CX:8:HIS:NE2	45:CX:72:GLY:HA2	2.30	0.47
46:CY:17:ARG:C	46:CY:18:TYR:CD2	2.88	0.47
1:D1:105:A:H2'	1:D1:106:A:O4'	2.15	0.47
1:D1:1185:A:C3'	1:D1:1186:A:C5'	2.88	0.47
1:D1:1488:A:O2'	1:D1:1489:U:H5'	2.15	0.47
47:CO:42:ARG:NH2	1:D1:1626:U:OP1	2.48	0.47
1:D1:165:C:O3'	18:DU:132:LYS:HG3	2.14	0.47
1:D1:864:C:O2'	1:D1:1748:U:OP1	2.19	0.47
1:D1:1936:U:O2	1:D1:2117:A:H3'	2.14	0.47
1:D1:2143:A:H2'	1:D1:2144:A:O4'	2.14	0.47
1:D1:915:C:O2'	1:D1:2319:A:N3	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2356:A:C8	1:D1:2356:A:H5'	2.43	0.47
1:D1:2559:U:N3	1:D1:2560:U:C5	2.83	0.47
1:D1:2277:U:H1'	1:D1:2948:C:O2'	2.14	0.47
1:D1:296:G:O2'	16:DQ:32:GLY:HA2	2.15	0.47
1:D1:3068:U:H3'	1:D1:3069:G:H5''	1.96	0.47
1:D1:3155:A:C5	8:DH:102:SER:HB3	2.49	0.47
23:CB:270:TYR:CD2	1:D1:3265:A:H5'	2.47	0.47
1:D1:368:A:H4'	1:D1:369:U:OP1	2.15	0.47
1:D1:197:G:N2	1:D1:371:A:C8	2.83	0.47
1:D1:632:G:C5	1:D1:633:C:C4	3.03	0.47
1:D1:817:A:H2'	1:D1:818:U:C6	2.50	0.47
9:DJ:160:LEU:HD12	9:DJ:182:CYS:O	2.14	0.47
12:DM:52:LEU:O	12:DM:53:GLY:O	2.33	0.47
19:DX:18:VAL:HG21	19:DX:117:VAL:HG12	1.97	0.47
22:EA:43:ARG:O	22:EA:43:ARG:HG3	2.15	0.47
24:EC:299:ILE:HA	24:EC:304:VAL:HG11	1.97	0.47
31:EJ:83:ILE:CD1	31:EJ:105:VAL:HG23	2.43	0.47
35:EN:73:ASN:N	35:EN:76:ASN:OD1	2.47	0.47
38:EQ:60:ILE:HD11	38:EQ:90:VAL:HG22	1.96	0.47
43:EV:108:LEU:O	43:EV:109:HIS:HB2	2.15	0.47
43:EV:141:ILE:HG21	43:EV:185:ILE:HG21	1.95	0.47
45:EX:65:THR:O	45:EX:65:THR:HG22	2.14	0.47
46:EY:21:SER:O	46:EY:25:VAL:HG23	2.15	0.47
34:EM:6:VAL:CG1	1:F1:1065:U:OP1	2.56	0.47
1:F1:1380:C:O2'	14:FO:38:VAL:HB	2.15	0.47
1:F1:141:C:H3'	50:F1:3713:HOH:O	2.14	0.47
1:F1:1440:A:C5	1:F1:1441:U:C5	3.03	0.47
38:EQ:131:THR:CG2	1:F1:1533:G:N2	2.78	0.47
1:F1:156:A:P	16:FQ:27:ALA:HB3	2.54	0.47
1:F1:1589:G:C8	1:F1:1605:G:N2	2.83	0.47
1:F1:1592:G:H2'	1:F1:1593:A:H8	1.75	0.47
1:F1:2520:G:H4'	1:F1:2521:A:OP2	2.12	0.47
1:F1:2617:G:H1'	1:F1:2786:C:C2	2.50	0.47
1:F1:2906:G:C8	1:F1:2906:G:H5''	2.46	0.47
1:F1:3035:A:H2'	1:F1:3036:U:O4'	2.14	0.47
1:F1:3096:U:O2'	1:F1:3097:G:H5'	2.14	0.47
1:F1:64:A:H5'	1:F1:315:U:OP1	2.14	0.47
1:F1:3305:A:C2	1:F1:3315:A:C2	3.03	0.47
1:F1:3312:C:H2'	1:F1:3313:C:C6	2.50	0.47
1:F1:439:A:C8	1:F1:439:A:P	2.99	0.47
33:EL:81:TYR:OH	1:F1:933:G:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:56:GLY:O	5:FE:59:ARG:HB3	2.14	0.47
9:FJ:143:ALA:C	9:FJ:144:ASN:ND2	2.56	0.47
1:F1:1880:C:H1'	11:FL:7:TYR:HE1	1.79	0.47
14:FO:75:THR:HG21	14:FO:77:GLU:HG2	1.97	0.47
35:EN:168:ARG:HH11	18:FU:9:VAL:HG21	1.76	0.47
20:G2:3:A:C5'	20:G2:4:A:OP2	2.63	0.47
20:G2:67:C:H5'	20:G2:68:A:OP2	2.14	0.47
24:GC:138:LEU:N	24:GC:138:LEU:HD23	2.30	0.47
24:GC:163:VAL:CG2	24:GC:175:PHE:CE2	2.97	0.47
24:GC:7:ILE:HD11	24:GC:25:LEU:HD13	1.97	0.47
27:GF:95:GLU:OE1	27:GF:100:LYS:CG	2.63	0.47
29:GH:73:ASN:O	29:GH:77:ILE:HG23	2.14	0.47
31:GJ:28:ASN:N	31:GJ:102:ASN:O	2.46	0.47
32:GK:52:PRO:HG3	35:GN:156:PRO:O	2.15	0.47
34:GM:82:GLU:OE1	34:GM:104:LEU:CD2	2.63	0.47
36:GO:14:VAL:HG11	36:GO:45:ILE:CD1	2.44	0.47
38:GQ:114:LEU:HD23	38:GQ:114:LEU:HA	1.58	0.47
42:GU:122:LEU:HD13	18:HU:150:LEU:HD23	1.95	0.47
1:H1:1058:C:O2	1:H1:1058:C:H2'	2.15	0.47
1:H1:1121:G:O5'	1:H1:1121:G:H8	1.98	0.47
1:H1:1475:A:C2	1:H1:2351:A:C5	3.02	0.47
1:H1:1919:A:H5'	1:H1:1919:A:C8	2.44	0.47
22:GA:11:GLY:HA3	1:H1:2159:C:O2	2.13	0.47
1:H1:2309:U:C5'	1:H1:2310:G:OP2	2.63	0.47
1:H1:232:C:HO2'	1:H1:233:G:P	2.37	0.47
1:H1:236:G:H2'	1:H1:237:A:C8	2.49	0.47
1:H1:2545:A:N6	11:HL:48:GLY:HA3	2.30	0.47
1:H1:2886:G:C8	1:H1:2886:G:C3'	2.98	0.47
1:H1:3035:A:H2'	1:H1:3036:U:O4'	2.13	0.47
1:H1:3198:A:C5	1:H1:3199:G:C5	3.02	0.47
1:H1:3343:U:H5''	1:H1:3344:U:OP1	2.14	0.47
1:H1:430:G:H2'	1:H1:431:A:H8	1.77	0.47
1:H1:68:A:H1'	1:H1:70:C:N4	2.30	0.47
1:H1:911:C:C2'	1:H1:912:G:H5'	2.45	0.47
5:HE:46:ALA:HB3	5:HE:49:THR:OG1	2.13	0.47
8:HH:48:VAL:HG22	8:HH:85:GLY:HA2	1.97	0.47
11:HL:7:TYR:HE2	11:HL:18:ASN:OD1	1.98	0.47
12:HM:13:VAL:HG12	12:HM:14:ASN:N	2.30	0.47
1:A1:1344:A:H5''	30:BI:127:ARG:NH1	2.30	0.47
1:A1:144:A:O3'	50:A1:3710:HOH:O	2.20	0.47
1:A1:1533:G:H5''	1:A1:1533:G:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1572:A:H2'	1:A1:1573:A:O4'	2.15	0.47
1:A1:2111:G:OP1	50:A1:4570:HOH:O	2.21	0.47
1:A1:2391:G:H5'	1:A1:2392:A:C4'	2.40	0.47
1:A1:2650:U:H2'	1:A1:2651:A:C8	2.50	0.47
1:A1:2945:G:H2'	1:A1:2946:A:H5'	1.96	0.47
1:A1:2954:G:O2'	1:A1:2955:A:H5'	2.15	0.47
1:A1:3198:A:C6	1:A1:3199:G:C5	3.03	0.47
1:A1:461:A:O2'	1:A1:462:G:H5'	2.14	0.47
1:A1:500:G:O2'	1:A1:501:A:O5'	2.27	0.47
1:A1:687:C:H2'	1:A1:688:U:C6	2.49	0.47
1:A1:68:A:C2	1:A1:69:A:N3	2.83	0.47
1:A1:828:C:H4'	24:BC:99:ASN:HD21	1.79	0.47
1:A1:837:G:N3	2:AA:50:TRP:NE1	2.54	0.47
1:A1:623:G:N2	5:AE:30:ARG:NH1	2.63	0.47
6:AF:67:GLN:HE22	6:AF:75:LYS:HE3	1.80	0.47
19:AX:22:VAL:HG22	24:BC:380:PHE:HE1	1.80	0.47
21:B3:10:C:C6	34:BM:20:TYR:CE1	3.03	0.47
19:AX:61:LYS:NZ	21:B3:76:U:OP1	2.45	0.47
25:BD:107:GLN:HG2	25:BD:108:GLU:H	1.80	0.47
27:BF:169:PRO:CB	27:BF:211:PHE:HB2	2.45	0.47
1:A1:2575:G:C6	27:BF:233:LYS:HB2	2.49	0.47
27:BF:45:VAL:HG12	27:BF:46:ARG:N	2.30	0.47
30:BI:13:HIS:HE1	30:BI:119:VAL:H	1.63	0.47
1:A1:148:G:H4'	33:BL:55:ASN:HB2	1.96	0.47
34:BM:119:TYR:CE1	34:BM:132:VAL:CG1	2.98	0.47
1:A1:1112:A:H4'	34:BM:44:TYR:CD1	2.50	0.47
35:BN:63:LEU:O	35:BN:87:VAL:HA	2.14	0.47
36:BO:60:ARG:O	36:BO:61:SER:C	2.53	0.47
41:BT:11:CYS:SG	41:BT:13:TYR:HD2	2.36	0.47
22:CA:30:TYR:HD2	22:CA:124:ARG:C	2.17	0.47
23:CB:121:ASN:HD21	23:CB:124:ASN:HB2	1.79	0.47
23:CB:56:ILE:O	23:CB:73:VAL:HA	2.15	0.47
26:CE:12:ILE:HD11	26:CE:53:VAL:CG2	2.45	0.47
27:CF:171:ALA:HB2	27:CF:211:PHE:CD1	2.50	0.47
29:CH:136:PHE:HE1	29:CH:159:PHE:HZ	1.62	0.47
30:CI:139:ASP:O	30:CI:142:ALA:HB3	2.15	0.47
30:CI:196:PHE:CE1	6:DF:111:VAL:CG2	2.93	0.47
32:CK:109:PHE:C	32:CK:110:PHE:HD1	2.19	0.47
32:CK:13:GLY:HA2	1:D1:968:U:O5'	2.15	0.47
33:CL:177:LYS:HG2	33:CL:185:ARG:HH21	1.79	0.47
47:CO:170:UNK:CA	47:CO:174:UNK:CG	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:30:TYR:HD1	37:CP:27:ILE:HD11	1.80	0.47
39:CR:100:LYS:N	39:CR:101:PRO:HD2	2.30	0.47
40:CS:21:SER:CB	40:CS:26:ARG:HG2	2.45	0.47
42:CU:98:LYS:NZ	1:D1:242:G:H5'	2.29	0.47
46:CY:21:SER:O	46:CY:25:VAL:HG23	2.14	0.47
1:D1:1361:U:C5'	1:D1:1361:U:C6	2.95	0.47
1:D1:143:G:C2'	1:D1:144:A:H5'	2.45	0.47
1:D1:2353:C:H3'	1:D1:2354:C:H6	1.79	0.47
27:CF:46:ARG:CD	1:D1:2518:A:H5'	2.45	0.47
1:D1:2673:C:H2'	1:D1:2674:A:C8	2.50	0.47
1:D1:3191:G:H2'	1:D1:3192:C:OP2	2.14	0.47
1:D1:39:G:C5	1:D1:2789:A:C2	3.02	0.47
1:D1:402:U:C2'	1:D1:403:G:H5'	2.45	0.47
1:D1:608:C:C2'	1:D1:609:A:O5'	2.63	0.47
1:D1:655:A:H2'	1:D1:656:C:H6	1.75	0.47
1:D1:745:A:C6	1:D1:746:A:C2	3.03	0.47
1:D1:909:A:OP2	2:DA:4:GLY:HA3	2.15	0.47
5:DE:63:VAL:HG13	5:DE:78:GLY:N	2.29	0.47
5:DE:98:THR:HG22	5:DE:100:THR:H	1.79	0.47
6:DF:11:ARG:O	6:DF:26:VAL:HA	2.15	0.47
6:DF:13:VAL:CG1	6:DF:53:VAL:HG13	2.45	0.47
9:DJ:112:ASP:H	9:DJ:156:ASN:ND2	2.09	0.47
16:DQ:7:VAL:HG11	18:DU:185:LYS:HG3	1.97	0.47
19:DX:108:TYR:CZ	19:DX:120:LEU:HA	2.50	0.47
19:DX:92:VAL:HG12	19:DX:138:ILE:HB	1.96	0.47
21:C3:93:G:H4'	19:DX:96:GLN:HE22	1.80	0.47
21:E3:33:U:C2	34:EM:212:TYR:HD1	2.31	0.47
21:E3:8:G:C5	21:E3:9:C:C5	3.03	0.47
23:EB:119:TYR:CE2	23:EB:122:TRP:CZ3	2.97	0.47
23:EB:230:ARG:HG2	23:EB:231:PHE:CZ	2.50	0.47
23:EB:235:HIS:HD2	23:EB:236:LEU:O	1.98	0.47
23:EB:306:LEU:HD11	23:EB:371:VAL:HG23	1.96	0.47
29:EH:80:ILE:HD11	29:EH:144:HIS:HB3	1.97	0.47
29:EH:10:ARG:NH2	29:EH:161:GLY:HA3	2.30	0.47
29:EH:44:GLU:OE1	29:EH:44:GLU:HA	2.15	0.47
24:EC:117:HIS:CD2	33:EL:202:ARG:HB2	2.49	0.47
34:EM:195:TYR:HD1	34:EM:197:PRO:HD3	1.80	0.47
34:EM:60:ILE:H	34:EM:80:SER:HB2	1.80	0.47
37:EP:27:ILE:O	37:EP:30:TYR:HB2	2.15	0.47
40:ES:18:HIS:O	40:ES:21:SER:OG	2.26	0.47
20:E2:69:A:H5'	42:EU:11:ARG:HH22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:EV:205:ASP:HB3	43:EV:238:MET:O	2.15	0.47
43:EV:34:MET:HA	43:EV:37:ARG:HD2	1.97	0.47
1:F1:1036:G:H2'	1:F1:1037:A:H5'	1.96	0.47
1:F1:1222:A:H2'	1:F1:1336:U:O2	2.14	0.47
1:F1:1554:G:H2'	1:F1:1555:A:H8	1.80	0.47
1:F1:1572:A:H2'	1:F1:1573:A:O4'	2.14	0.47
1:F1:1598:C:C3'	1:F1:1599:G:H5'	2.44	0.47
1:F1:1720:A:H4'	11:FL:23:VAL:HG11	1.96	0.47
1:F1:2113:A:C8	1:F1:3053:U:H1'	2.50	0.47
1:F1:2598:A:O2'	1:F1:2599:G:H5'	2.15	0.47
1:F1:2640:G:OP1	1:F1:2641:U:H1'	2.14	0.47
1:F1:2920:U:O2	1:F1:2922:A:H8	1.98	0.47
1:F1:3308:A:H2'	1:F1:3309:U:N1	2.29	0.47
1:F1:945:A:H61	2:FA:15:THR:HG21	1.80	0.47
14:FO:75:THR:CG2	14:FO:77:GLU:CG	2.92	0.47
42:EU:120:PHE:HA	18:FU:122:VAL:O	2.14	0.47
19:FX:20:GLN:HE21	19:FX:42:ARG:HG3	1.79	0.47
20:G2:18:G:H1'	1:H1:406:A:N6	2.25	0.47
20:G2:3:A:H2	1:H1:3243:A:O4'	1.96	0.47
22:GA:108:ILE:HB	22:GA:137:ILE:CD1	2.45	0.47
23:GB:178:GLU:HB2	1:H1:2992:G:OP1	2.15	0.47
24:GC:258:TRP:CZ3	24:GC:266:LEU:HD21	2.50	0.47
24:GC:276:THR:HG22	24:GC:277:GLY:N	2.30	0.47
26:GE:112:ILE:HD13	26:GE:177:ILE:CD1	2.45	0.47
28:GG:9:UNK:O	28:GG:13:UNK:HB2	2.14	0.47
32:GK:46:LEU:HA	32:GK:46:LEU:HD23	1.73	0.47
32:GK:119:PRO:HG3	35:GN:94:LEU:HD13	1.95	0.47
37:GP:40:VAL:HG13	37:GP:96:VAL:HG13	1.95	0.47
43:GV:84:ILE:HA	43:GV:110:ASN:O	2.15	0.47
43:GV:139:ASN:O	43:GV:143:LYS:HG3	2.13	0.47
22:GA:58:PRO:HG3	46:GY:53:GLY:HA3	1.96	0.47
27:GF:100:LYS:NZ	1:H1:119:A:H2'	2.29	0.47
1:H1:1334:G:N3	1:H1:1335:A:C2	2.83	0.47
1:H1:1505:C:C3'	1:H1:1506:G:H5'	2.45	0.47
38:GQ:131:THR:CG2	1:H1:1533:G:N2	2.78	0.47
1:H1:1736:G:C6	1:H1:1737:A:C6	3.02	0.47
1:H1:1845:U:H5'	1:H1:1846:C:OP2	2.14	0.47
1:H1:2124:C:H2'	1:H1:2125:C:H6	1.80	0.47
1:H1:2241:G:H2'	1:H1:2242:G:H8	1.80	0.47
1:H1:2284:U:O2'	1:H1:2285:C:H5'	2.15	0.47
1:H1:2353:C:H3'	1:H1:2354:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2572:U:C2'	1:H1:2573:U:H5'	2.45	0.47
1:H1:3029:A:H2'	1:H1:3030:A:H8	1.80	0.47
1:H1:3331:C:C4'	1:H1:3332:A:H5''	2.44	0.47
1:H1:558:U:H2'	1:H1:559:G:C8	2.46	0.47
1:H1:874:C:C4	1:H1:875:U:C5	3.03	0.47
1:H1:8:U:H2'	1:H1:9:G:O4'	2.15	0.47
24:GC:105:ARG:NE	1:H1:958:A:C6	2.83	0.47
4:HC:19:THR:HB	4:HC:21:HIS:NE2	2.30	0.47
7:HG:77:LEU:HA	7:HG:77:LEU:HD23	1.71	0.47
8:HH:48:VAL:CG1	8:HH:87:ALA:HB2	2.45	0.47
9:HJ:67:LYS:HD2	9:HJ:112:ASP:CG	2.35	0.47
13:HN:76:ASN:C	13:HN:76:ASN:OD1	2.54	0.47
19:HX:106:LYS:HE2	19:HX:123:ASP:OD2	2.15	0.47
1:A1:1179:G:H1	1:A1:1226:C:H42	1.63	0.47
1:A1:1196:A:P	50:A1:4312:HOH:O	2.73	0.47
1:A1:125:G:H2'	1:A1:126:A:O4'	2.14	0.47
1:A1:1381:G:H4'	1:A1:1382:A:OP2	2.15	0.47
1:A1:1396:A:H5''	32:BK:21:ARG:HD2	1.96	0.47
1:A1:1397:G:O2'	1:A1:1398:G:H5'	2.14	0.47
1:A1:1573:A:O2'	1:A1:1574:C:H5'	2.15	0.47
1:A1:1736:G:N1	1:A1:1737:A:C2	2.83	0.47
1:A1:1811:U:O2'	1:A1:1812:G:H5'	2.14	0.47
1:A1:1880:C:H1'	11:AL:7:TYR:HE1	1.78	0.47
1:A1:2408:A:O2'	1:A1:2409:G:H5'	2.15	0.47
1:A1:2411:U:H4'	1:A1:2955:A:O4'	2.14	0.47
1:A1:2735:A:C8	34:BM:153:THR:HG21	2.49	0.47
1:A1:3013:A:C8	1:A1:3014:C:C5	3.03	0.47
1:A1:3305:A:C2	1:A1:3315:A:C2	3.03	0.47
1:A1:440:C:N4	1:A1:538:A:C2	2.83	0.47
1:A1:59:A:H2'	1:A1:60:A:O4'	2.14	0.47
1:A1:635:A:HO2'	1:A1:636:U:C5'	2.16	0.47
4:AC:83:ILE:CG2	4:AC:84:LYS:N	2.78	0.47
1:A1:1845:U:H3	11:AL:69:ARG:HG3	1.80	0.47
12:AM:23:GLN:HB3	12:AM:109:TYR:HE1	1.80	0.47
13:AN:7:TYR:OH	13:AN:93:PHE:N	2.38	0.47
1:A1:461:A:H4'	14:AO:73:THR:CG2	2.44	0.47
14:AO:87:VAL:HG22	14:AO:115:HIS:CD2	2.49	0.47
16:AQ:45:ILE:HD11	33:BL:6:TYR:CA	2.44	0.47
19:AX:44:PHE:HD1	19:AX:137:ILE:HD11	1.80	0.47
23:BB:172:LYS:HA	23:BB:172:LYS:HD2	1.47	0.47
50:A1:4449:HOH:O	23:BB:365:HIS:CE1	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:306:LEU:HD11	23:BB:371:VAL:HG23	1.97	0.47
24:BC:303:GLU:H	24:BC:303:GLU:CD	2.15	0.47
25:BD:32:LYS:HE2	25:BD:119:SER:HA	1.97	0.47
1:A1:2886:G:OP1	26:BE:171:ARG:NH2	2.48	0.47
29:BH:3:ARG:HH12	29:BH:63:GLU:CB	2.27	0.47
30:BI:63:HIS:CD2	30:BI:64:ASN:HB2	2.50	0.47
31:BJ:11:VAL:O	31:BJ:11:VAL:CG1	2.57	0.47
33:BL:120:TRP:CE2	33:BL:122:GLY:CA	2.98	0.47
33:BL:33:LEU:HB3	33:BL:34:PRO:HD2	1.96	0.47
34:BM:201:LYS:HA	34:BM:204:ILE:HG13	1.97	0.47
37:BP:91:VAL:HG11	37:BP:96:VAL:HG23	1.97	0.47
38:BQ:8:ARG:NH1	38:BQ:118:HIS:N	2.63	0.47
38:BQ:12:ASN:HB3	38:BQ:15:LYS:HB2	1.97	0.47
39:BR:145:ASN:HD22	39:BR:150:ILE:CD1	2.27	0.47
40:BS:105:LEU:HA	40:BS:105:LEU:HD23	1.79	0.47
1:A1:190:U:OP1	40:BS:36:LYS:NZ	2.48	0.47
42:BU:35:ALA:O	42:BU:36:LYS:C	2.53	0.47
42:BU:74:PHE:CB	42:BU:80:LYS:HE3	2.45	0.47
43:BV:132:THR:HG21	43:BV:227:ARG:HD2	1.96	0.47
44:BW:66:ILE:HG23	44:BW:67:PRO:HD2	1.97	0.47
21:C3:22:A:C6	34:CM:274:HIS:CG	3.03	0.47
21:C3:54:A:H5'	25:CD:7:ASN:HD21	1.80	0.47
22:CA:218:GLN:HB3	50:CA:306:HOH:O	2.15	0.47
23:CB:60:VAL:CG2	23:CB:67:HIS:O	2.63	0.47
24:CC:337:ALA:O	24:CC:341:LYS:HG2	2.15	0.47
25:CD:124:GLY:HA3	1:D1:2663:A:C4	2.49	0.47
26:CE:22:GLN:O	26:CE:23:ARG:HB2	2.15	0.47
29:CH:47:PRO:HB3	29:CH:171:TRP:CZ2	2.46	0.47
31:CJ:75:LYS:HE2	1:D1:2289:U:OP2	2.14	0.47
34:CM:107:ARG:HD2	34:CM:107:ARG:HA	1.74	0.47
34:CM:243:VAL:CG1	34:CM:247:PHE:CD2	2.98	0.47
37:CP:15:PHE:HE2	37:CP:52:MET:CE	2.28	0.47
41:CT:49:GLN:O	41:CT:57:ARG:HB2	2.15	0.47
42:CU:97:THR:HG22	42:CU:99:LYS:H	1.80	0.47
43:CV:107:GLN:HE22	43:CV:203:LYS:HE2	1.79	0.47
43:CV:235:VAL:O	43:CV:239:LEU:HG	2.14	0.47
43:CV:41:TRP:HE1	43:CV:176:THR:CG2	2.28	0.47
46:CY:32:THR:CG2	46:CY:70:GLU:HG2	2.44	0.47
1:D1:1006:C:H2'	1:D1:1007:G:OP1	2.15	0.47
34:CM:3:PHE:CZ	1:D1:1041:C:N3	2.82	0.47
1:D1:1095:C:C2'	1:D1:1095:C:O2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:114:A:C4'	16:DQ:37:ARG:NH2	2.67	0.47
1:D1:115:G:C4'	1:D1:116:U:OP1	2.52	0.47
1:D1:1318:A:N6	1:D1:1319:C:C4	2.83	0.47
1:D1:663:G:H4'	1:D1:1460:G:C6	2.50	0.47
1:D1:1677:G:O2'	11:DL:42:THR:HG23	2.14	0.47
40:CS:58:VAL:HG11	1:D1:190:U:H2'	1.97	0.47
31:CJ:26:VAL:N	1:D1:1923:G:OP1	2.39	0.47
1:D1:2219:A:N1	1:D1:2771:U:O2'	2.38	0.47
1:D1:164:A:C6	1:D1:256:A:C5	3.03	0.47
1:D1:2586:G:O2'	1:D1:2587:G:H5'	2.15	0.47
1:D1:2958:C:O2'	1:D1:2959:A:N7	2.43	0.47
1:D1:3011:G:N2	1:D1:3020:G:C5	2.82	0.47
1:D1:3205:A:O2'	1:D1:3206:A:OP2	2.27	0.47
1:D1:443:G:C6	1:D1:444:A:C6	3.02	0.47
1:D1:768:A:O2'	1:D1:769:G:H5'	2.14	0.47
1:D1:784:G:C2	1:D1:797:A:N6	2.83	0.47
1:D1:882:G:C2'	1:D1:883:A:OP2	2.63	0.47
13:DN:33:THR:HG22	13:DN:34:LYS:H	1.80	0.47
16:DQ:68:LYS:HG3	16:DQ:69:ASP:N	2.29	0.47
22:EA:48:ASP:OD1	22:EA:49:ILE:N	2.48	0.47
23:EB:121:ASN:HB3	1:F1:3275:A:C6	2.50	0.47
23:EB:130:PHE:O	23:EB:134:GLU:HG3	2.15	0.47
24:EC:7:ILE:CD1	24:EC:156:PRO:HD2	2.45	0.47
25:ED:162:TRP:CH2	25:ED:167:PHE:HE2	2.33	0.47
25:ED:48:SER:HB3	1:F1:2671:C:OP1	2.15	0.47
27:EF:237:LYS:O	27:EF:241:LEU:HG	2.15	0.47
30:EI:55:GLU:O	30:EI:59:LYS:HE2	2.13	0.47
32:EK:89:ARG:HG3	32:EK:90:GLN:N	2.29	0.47
33:EL:13:LYS:NZ	16:FQ:46:ARG:CA	2.77	0.47
33:EL:80:VAL:CG1	33:EL:87:VAL:HA	2.45	0.47
34:EM:181:PRO:HD2	34:EM:200:HIS:ND1	2.30	0.47
39:ER:145:ASN:HD22	39:ER:150:ILE:CD1	2.27	0.47
42:EU:42:ALA:HA	42:EU:45:LEU:HG	1.97	0.47
24:EC:333:LEU:HA	43:EV:163:ASN:HD21	1.80	0.47
1:F1:1036:G:O2'	1:F1:1037:A:H5'	2.15	0.47
1:F1:1223:U:O2	1:F1:1223:U:C2'	2.57	0.47
1:F1:1681:C:C4	1:F1:1823:A:H5''	2.49	0.47
1:F1:1902:C:HO2'	1:F1:1903:A:P	2.34	0.47
1:F1:2546:A:C8	11:FL:93:ARG:NH1	2.83	0.47
1:F1:2650:U:H2'	1:F1:2651:A:C8	2.49	0.47
1:F1:2703:G:H4'	1:F1:2704:A:C5'	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2907:A:OP2	50:F1:4327:HOH:O	2.20	0.47
1:F1:3094:U:H2'	1:F1:3095:A:H8	1.78	0.47
1:F1:3096:U:OP1	10:FK:114:LYS:NZ	2.29	0.47
1:F1:3098:A:N1	1:F1:3115:C:C4	2.82	0.47
1:F1:3191:G:H2'	1:F1:3192:C:OP2	2.14	0.47
1:F1:3198:A:C5	1:F1:3199:G:C5	3.03	0.47
1:F1:3229:C:N3	5:FE:57:ARG:HG3	2.29	0.47
1:F1:734:A:H2'	1:F1:735:A:O4'	2.15	0.47
4:FC:7:THR:HB	4:FC:94:ILE:CD1	2.43	0.47
7:FG:43:PHE:CD1	7:FG:68:HIS:HD2	2.33	0.47
9:FJ:159:GLY:O	9:FJ:221:ILE:HD13	2.15	0.47
12:FM:52:LEU:O	12:FM:53:GLY:O	2.33	0.47
14:FO:87:VAL:HG21	14:FO:115:HIS:CD2	2.50	0.47
18:FU:76:GLN:HB2	18:FU:101:ASN:HD22	1.80	0.47
20:G2:27:G:H5'	20:G2:27:G:C8	2.45	0.47
21:G3:95:U:H2'	21:G3:96:U:H6	1.79	0.47
22:GA:30:TYR:OH	22:GA:116:ASN:HB3	2.15	0.47
23:GB:86:ILE:HG12	23:GB:158:VAL:CG1	2.45	0.47
23:GB:82:PRO:HG3	23:GB:167:LEU:HD21	1.96	0.47
23:GB:56:ILE:O	23:GB:73:VAL:HA	2.13	0.47
26:GE:7:GLU:OE1	26:GE:54:LYS:HE2	2.14	0.47
28:GG:60:UNK:HB1	1:H1:1248:G:H5'	1.97	0.47
29:GH:139:ARG:HD3	29:GH:173:PHE:HE1	1.79	0.47
30:GI:17:ARG:NH2	30:GI:127:ARG:HD2	2.29	0.47
31:GJ:122:VAL:O	31:GJ:140:VAL:HA	2.15	0.47
29:GH:212:PHE:CE1	34:GM:298:ALA:HB2	2.50	0.47
34:GM:60:ILE:H	34:GM:80:SER:HB2	1.80	0.47
39:GR:90:MET:HB3	39:GR:90:MET:HE2	1.42	0.47
24:GC:203:ASN:ND2	40:GS:10:ALA:HA	2.30	0.47
42:GU:113:ASN:HB3	1:H1:167:U:O2'	2.15	0.47
44:GW:68:ARG:C	44:GW:69:ARG:HG2	2.35	0.47
1:H1:1221:G:O5'	1:H1:1221:G:H8	1.98	0.47
1:H1:1249:G:HO2'	1:H1:1250:A:P	2.35	0.47
1:H1:144:A:C2'	1:H1:145:A:H5'	2.45	0.47
1:H1:1580:G:C5'	1:H1:1581:C:OP2	2.63	0.47
1:H1:164:A:C6	1:H1:256:A:C5	3.03	0.47
1:H1:20:G:C6	1:H1:21:A:N7	2.83	0.47
1:H1:2410:C:N4	50:H1:3643:HOH:O	2.47	0.47
1:H1:2536:A:H2'	1:H1:2537:C:H6	1.78	0.47
1:H1:2714:U:C2'	1:H1:2715:C:H5'	2.45	0.47
1:H1:2741:U:C4'	1:H1:2742:G:OP2	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:458:G:H2'	1:H1:459:G:O4'	2.15	0.47
1:H1:63:A:H5''	1:H1:64:A:H4'	1.95	0.47
1:H1:718:A:C2'	1:H1:719:C:H5'	2.44	0.47
1:H1:71:U:C2'	1:H1:72:A:OP1	2.63	0.47
1:H1:761:A:H8	1:H1:761:A:O5'	1.97	0.47
1:H1:77:A:C2	1:H1:324:A:N3	2.83	0.47
1:H1:855:A:O2'	1:H1:1890:C:H2'	2.15	0.47
46:GY:12:ARG:HB3	1:H1:861:A:O2'	2.14	0.47
1:H1:991:U:OP1	18:HU:2:LYS:O	2.33	0.47
2:HA:59:GLY:O	2:HA:62:THR:HB	2.15	0.47
5:HE:56:GLY:N	5:HE:59:ARG:HB3	2.30	0.47
6:HF:34:ASN:O	6:HF:50:ILE:N	2.46	0.47
18:HU:106:SER:O	18:HU:110:ASN:ND2	2.46	0.47
1:A1:1051:C:O2	1:A1:1054:G:N2	2.47	0.47
1:A1:1352:U:H2'	1:A1:1353:G:C8	2.49	0.47
1:A1:1512:G:H3'	50:A1:4365:HOH:O	2.15	0.47
1:A1:1743:G:H4'	1:A1:1756:U:H4'	1.96	0.47
1:A1:1973:A:H2'	1:A1:1974:U:H6	1.80	0.47
1:A1:1936:U:O2	1:A1:2117:A:H3'	2.14	0.47
1:A1:2119:G:H8	1:A1:2119:G:H5''	1.78	0.47
1:A1:2663:A:C4	25:BD:124:GLY:HA3	2.49	0.47
1:A1:3142:A:H8	1:A1:3142:A:O5'	1.98	0.47
1:A1:3166:A:H2'	1:A1:3167:U:C6	2.50	0.47
1:A1:3273:U:H5''	23:BB:171:GLN:NE2	2.29	0.47
1:A1:470:C:O2'	1:A1:471:A:H5'	2.15	0.47
1:A1:67:U:O2	18:AU:59:GLN:NE2	2.47	0.47
1:A1:683:G:H2'	1:A1:684:A:N7	2.30	0.47
6:AF:106:PHE:HD2	6:AF:110:ARG:HH21	1.62	0.47
6:AF:17:TYR:HD1	6:AF:17:TYR:O	1.98	0.47
8:AH:48:VAL:HG22	8:AH:85:GLY:HA2	1.96	0.47
13:AN:30:GLU:HA	13:AN:30:GLU:OE1	2.15	0.47
18:AU:166:VAL:HG12	18:AU:167:SER:N	2.29	0.47
21:B3:11:A:C8	34:BM:18:THR:CB	2.97	0.47
21:B3:8:G:C5	21:B3:9:C:C5	3.03	0.47
1:A1:2178:A:O2'	22:BA:236:VAL:O	2.30	0.47
24:BC:166:TYR:HD1	24:BC:171:GLN:CG	2.28	0.47
24:BC:126:ARG:HD3	24:BC:283:TYR:HD2	1.81	0.47
26:BE:110:ILE:CG1	26:BE:132:ILE:HD13	2.45	0.47
30:BI:98:LEU:HD23	30:BI:98:LEU:HA	1.68	0.47
32:BK:74:VAL:HG11	32:BK:113:LEU:CD1	2.45	0.47
34:BM:65:VAL:HA	34:BM:73:ARG:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:27:ILE:O	37:BP:30:TYR:HB2	2.15	0.47
38:BQ:39:LYS:HE2	38:BQ:119:GLY:N	2.27	0.47
45:BX:105:GLN:HG3	45:BX:106:VAL:N	2.30	0.47
20:C2:38:C:O4'	2:DA:68:MET:HE1	2.15	0.47
21:C3:64:A:N3	21:C3:64:A:H2'	2.29	0.47
24:CC:149:ILE:O	24:CC:149:ILE:HG22	2.14	0.47
25:CD:19:ILE:CG2	25:CD:125:MET:HE1	2.45	0.47
26:CE:137:GLU:O	26:CE:139:LYS:HG3	2.15	0.47
26:CE:78:MET:O	26:CE:82:VAL:HG23	2.15	0.47
27:CF:196:VAL:CG1	27:CF:197:ARG:N	2.78	0.47
27:CF:50:TYR:CZ	27:CF:51:ILE:HG23	2.50	0.47
27:CF:89:LEU:HD23	27:CF:193:LEU:HD21	1.97	0.47
32:CK:140:ALA:HB1	1:D1:743:A:C8	2.49	0.47
35:CN:2:ALA:HB3	1:D1:1186:A:OP1	2.14	0.47
35:CN:36:PHE:CZ	35:CN:40:ARG:HD2	2.50	0.47
35:CN:87:VAL:HG23	35:CN:103:ALA:CB	2.45	0.47
47:CO:123:PHE:CE2	47:CO:142:ILE:HG12	2.50	0.47
38:CQ:24:LEU:HD13	38:CQ:92:VAL:HG11	1.96	0.47
41:CT:52:THR:HA	41:CT:57:ARG:HG2	1.97	0.47
43:CV:139:ASN:O	43:CV:143:LYS:HG3	2.15	0.47
43:CV:144:LEU:CD2	43:CV:239:LEU:HD21	2.45	0.47
1:D1:1056:A:H2'	1:D1:1057:U:O4'	2.15	0.47
1:D1:1432:G:N2	1:D1:1433:A:C2	2.83	0.47
1:D1:144:A:H2'	1:D1:145:A:H5'	1.97	0.47
1:D1:1505:C:C3'	1:D1:1506:G:H5'	2.45	0.47
1:D1:1580:G:O2'	1:D1:1581:C:H5''	2.15	0.47
1:D1:1589:G:C5	1:D1:1605:G:C2	3.02	0.47
1:D1:1653:A:C6	1:D1:1839:A:C2	3.03	0.47
1:D1:1654:G:C2'	1:D1:1654:G:N3	2.75	0.47
1:D1:2211:G:O5'	1:D1:2211:G:H8	1.97	0.47
1:D1:2240:C:H2'	1:D1:2241:G:O5'	2.14	0.47
1:D1:2654:U:H4'	1:D1:2655:C:OP1	2.13	0.47
1:D1:2669:A:C3'	1:D1:2670:U:C6	2.98	0.47
1:D1:2703:G:OP2	1:D1:2705:U:C1'	2.59	0.47
1:D1:3061:A:H2'	1:D1:3062:A:H5'	1.97	0.47
1:D1:331:C:H2'	1:D1:332:G:C5'	2.44	0.47
1:D1:481:C:O2'	1:D1:482:G:H5'	2.14	0.47
1:D1:734:A:H2'	1:D1:735:A:O4'	2.15	0.47
32:CK:137:ARG:HH21	1:D1:741:G:H4'	1.79	0.47
4:DC:63:THR:HG22	4:DC:87:LYS:HG2	1.96	0.47
8:DH:18:ALA:HB2	8:DH:39:LEU:CD2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DJ:162:HIS:CG	9:DJ:163:PRO:HD2	2.50	0.47
9:DJ:157:ARG:O	9:DJ:180:PRO:HD2	2.15	0.47
12:DM:43:ILE:HG21	12:DM:56:ILE:HD13	1.96	0.47
12:DM:98:THR:CG2	12:DM:99:SER:N	2.78	0.47
13:DN:4:PHE:HD1	13:DN:4:PHE:H	0.76	0.47
14:DO:105:GLN:HA	14:DO:105:GLN:OE1	2.15	0.47
16:DQ:9:ILE:HD11	18:DU:187:ASN:CB	2.28	0.47
20:E2:2:G:C5	1:F1:2983:A:C2	3.02	0.47
20:E2:96:A:N3	2:FA:83:THR:CG2	2.77	0.47
21:E3:19:G:H2'	21:E3:20:U:O4'	2.15	0.47
21:E3:5:U:O3'	34:EM:54:ARG:HG3	2.14	0.47
23:EB:140:LYS:O	23:EB:144:LEU:HG	2.15	0.47
24:EC:283:TYR:C	24:EC:283:TYR:CD1	2.87	0.47
27:EF:169:PRO:CB	27:EF:211:PHE:HB2	2.45	0.47
27:EF:69:GLN:HE21	27:EF:222:ARG:HH12	1.63	0.47
29:EH:3:ARG:HH12	29:EH:63:GLU:CB	2.28	0.47
32:EK:77:ILE:HG23	32:EK:118:LEU:HG	1.97	0.47
32:EK:39:GLY:HA3	32:EK:55:TYR:OH	2.15	0.47
34:EM:131:ASN:OD1	34:EM:172:ASN:HA	2.15	0.47
34:EM:54:ARG:CZ	34:EM:149:GLY:HA3	2.45	0.47
34:EM:19:LYS:O	34:EM:24:ARG:NH1	2.48	0.47
34:EM:88:VAL:HG12	34:EM:246:LEU:HD21	1.96	0.47
35:EN:30:LEU:O	35:EN:33:LEU:HB3	2.15	0.47
35:EN:57:ARG:HH12	1:F1:697:A:H5'	1.80	0.47
35:EN:88:THR:HG22	35:EN:107:THR:HG23	1.96	0.47
42:EU:122:LEU:HD13	18:FU:150:LEU:HD23	1.97	0.47
42:EU:92:ILE:HA	42:EU:95:LYS:HE2	1.96	0.47
43:EV:114:PHE:CD2	43:EV:115:ARG:O	2.68	0.47
34:EM:140:LYS:NZ	1:F1:1108:A:P	2.88	0.47
1:F1:1430:G:C6	1:F1:1434:G:C6	3.03	0.47
1:F1:1703:A:H2'	1:F1:1704:G:H8	1.79	0.47
1:F1:1823:A:H2'	1:F1:1824:A:O4'	2.14	0.47
40:ES:59:ARG:NH1	1:F1:200:C:P	2.88	0.47
1:F1:219:A:N1	1:F1:1416:U:O2'	2.40	0.47
1:F1:2365:G:N7	50:F1:3791:HOH:O	2.46	0.47
1:F1:2529:G:H2'	1:F1:2530:G:C8	2.50	0.47
1:F1:2645:A:C8	1:F1:2647:G:C8	3.03	0.47
1:F1:2890:A:H2'	1:F1:2891:A:O4'	2.14	0.47
1:F1:3144:G:C2	1:F1:3249:U:C2	3.03	0.47
1:F1:3177:G:OP1	1:F1:3177:G:H8	1.98	0.47
1:F1:3178:U:H5''	6:FF:97:LYS:HZ1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:105:A:H1'	1:F1:324:A:N3	2.30	0.47
1:F1:368:A:C5'	1:F1:369:U:OP1	2.61	0.47
1:F1:53:G:H5'	1:F1:1573:A:O2'	2.14	0.47
1:F1:800:G:O2'	1:F1:801:U:C5	2.68	0.47
31:EJ:127:ALA:CB	9:FJ:58:ILE:HD13	2.41	0.47
13:FN:76:ASN:C	13:FN:76:ASN:OD1	2.53	0.47
13:FN:76:ASN:OD1	13:FN:77:LEU:N	2.48	0.47
19:FX:87:LYS:HG3	19:FX:89:TYR:CZ	2.50	0.47
20:G2:143:U:H2'	20:G2:144:U:C6	2.50	0.47
20:G2:58:U:C2	20:G2:65:C:H5	2.33	0.47
21:G3:5:U:H2'	21:G3:6:C:H6	1.77	0.47
22:GA:102:VAL:O	22:GA:103:LEU:HD23	2.15	0.47
23:GB:111:ASP:N	23:GB:111:ASP:OD1	2.48	0.47
23:GB:52:GLY:HA3	23:GB:309:PHE:HD1	1.80	0.47
24:GC:7:ILE:CD1	24:GC:156:PRO:HD2	2.45	0.47
24:GC:200:LYS:HZ1	1:H1:1446:C:P	2.37	0.47
26:GE:110:ILE:CG1	26:GE:132:ILE:HD13	2.44	0.47
26:GE:23:ARG:NH1	26:GE:39:ARG:O	2.48	0.47
38:GQ:122:ASN:HB2	38:GQ:147:HIS:HB2	1.96	0.47
38:GQ:85:TRP:O	38:GQ:87:VAL:N	2.48	0.47
42:GU:122:LEU:HD12	18:HU:48:PRO:HB3	1.97	0.47
1:H1:1004:U:C4'	1:H1:1005:A:OP2	2.63	0.47
1:H1:1017:U:H6	1:H1:1017:U:H3'	1.80	0.47
1:H1:1316:G:H8	1:H1:1316:G:H5''	1.80	0.47
1:H1:1398:G:C2'	1:H1:1399:A:O5'	2.63	0.47
1:H1:1594:C:H2'	1:H1:1595:A:C5'	2.44	0.47
1:H1:1682:G:C5	1:H1:1822:G:C6	3.03	0.47
1:H1:191:U:H2'	1:H1:192:C:H5'	1.97	0.47
1:H1:2106:G:O2'	1:H1:2107:A:P	2.73	0.47
1:H1:2255:U:C3'	1:H1:2256:G:H8	2.28	0.47
1:H1:2756:U:H2'	1:H1:2757:U:C6	2.49	0.47
44:GW:64:ARG:NH1	1:H1:3069:G:OP2	2.44	0.47
1:H1:3191:G:O2'	1:H1:3192:C:P	2.73	0.47
1:H1:3294:A:H8	1:H1:3294:A:O5'	1.98	0.47
1:H1:3306:G:N2	1:H1:3314:U:C2	2.83	0.47
1:H1:555:G:C3'	1:H1:556:A:H5''	2.45	0.47
1:H1:604:A:C8	1:H1:604:A:O5'	2.65	0.47
35:GN:18:ARG:NH1	1:H1:696:A:OP1	2.45	0.47
1:H1:766:G:HO2'	1:H1:767:C:P	2.37	0.47
1:H1:833:A:O2'	1:H1:2408:A:H5'	2.15	0.47
1:H1:237:A:O4'	2:HA:88:LYS:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:23:LEU:HD22	3:HB:35:ILE:HG22	1.97	0.47
3:HB:6:THR:HB	3:HB:9:MET:HG3	1.96	0.47
6:HF:67:GLN:HE21	6:HF:71:LEU:CB	2.28	0.47
9:HJ:88:LEU:HG	9:HJ:92:VAL:HG11	1.97	0.47
1:H1:296:G:O2'	16:HQ:32:GLY:CA	2.62	0.47
18:HU:54:PRO:HB3	18:HU:73:PHE:CE1	2.50	0.47
19:HX:188:THR:O	19:HX:189:PHE:CB	2.62	0.47
1:A1:10:A:H2'	1:A1:11:A:H8	1.78	0.46
1:A1:1173:A:H4'	1:A1:1358:U:C5	2.50	0.46
1:A1:1686:G:H22	1:A1:1813:A:H2	1.63	0.46
1:A1:199:A:N3	1:A1:201:A:C8	2.83	0.46
1:A1:19:A:C4'	1:A1:20:G:OP2	2.60	0.46
1:A1:2181:U:H5''	50:A1:4185:HOH:O	2.15	0.46
1:A1:2347:A:C6	1:A1:2348:G:C5	3.03	0.46
1:A1:2368:A:N3	1:A1:2812:G:O2'	2.42	0.46
1:A1:2499:U:H2'	1:A1:2500:C:H6	1.79	0.46
1:A1:3112:A:C3'	1:A1:3113:G:H5'	2.45	0.46
1:A1:3234:U:O4	1:A1:3236:C:C6	2.68	0.46
1:A1:33:A:O2'	1:A1:34:C:H5'	2.14	0.46
1:A1:37:A:H5''	1:A1:38:A:H4'	1.96	0.46
1:A1:409:G:C4	20:B2:15:G:N2	2.83	0.46
1:A1:703:U:H2'	1:A1:704:G:C8	2.50	0.46
1:A1:738:U:C2'	1:A1:739:G:H5'	2.45	0.46
1:A1:72:A:C2	1:A1:73:G:C8	3.04	0.46
1:A1:784:G:O2'	1:A1:796:A:N6	2.48	0.46
1:A1:832:A:H3'	1:A1:833:A:H5''	1.98	0.46
9:AJ:118:HIS:HD2	9:AJ:120:ASP:O	1.97	0.46
1:A1:1663:C:OP1	11:AL:54:ASN:HB2	2.16	0.46
13:AN:4:PHE:HB3	13:AN:9:ARG:HH21	1.79	0.46
19:AX:15:GLN:HE21	19:AX:115:GLY:HA2	1.79	0.46
22:BA:46:ILE:HD12	22:BA:87:GLN:HB3	1.97	0.46
23:BB:26:ARG:HD2	23:BB:177:LEU:CD2	2.45	0.46
23:BB:86:ILE:HG12	23:BB:158:VAL:HG11	1.97	0.46
27:BF:21:LEU:HD12	27:BF:21:LEU:HA	1.71	0.46
30:BI:21:TYR:HE2	30:BI:121:ASP:HB3	1.79	0.46
34:BM:195:TYR:HD1	34:BM:197:PRO:HD3	1.81	0.46
36:BO:4:LEU:CD2	36:BO:7:GLN:HG3	2.41	0.46
37:BP:65:PHE:HB3	37:BP:75:ILE:HG13	1.97	0.46
40:BS:44:VAL:HG11	40:BS:47:MET:CE	2.45	0.46
40:BS:55:VAL:HG11	40:BS:103:LEU:HB3	1.96	0.46
43:BV:166:VAL:HG12	43:BV:175:ILE:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:14:ASN:O	44:BW:18:GLN:HG2	2.15	0.46
20:C2:88:G:HO2'	20:C2:89:A:P	2.36	0.46
20:C2:95:C:H5''	2:DA:77:ASN:ND2	2.30	0.46
22:CA:116:ASN:OD1	22:CA:125:GLY:HA3	2.15	0.46
23:CB:68:ASN:O	23:CB:70:LYS:HG3	2.15	0.46
24:CC:29:PHE:CE2	24:CC:156:PRO:HG3	2.49	0.46
25:CD:99:THR:CG2	1:D1:2673:C:HO2'	2.28	0.46
27:CF:232:GLN:NE2	1:D1:2573:U:C4'	2.59	0.46
30:CI:45:SER:HB2	30:CI:48:ARG:H	1.80	0.46
32:CK:127:ALA:HB3	32:CK:130:PHE:CZ	2.50	0.46
33:CL:14:LYS:NZ	1:D1:268:G:C5'	2.62	0.46
34:CM:141:PRO:HB2	34:CM:172:ASN:HB2	1.97	0.46
39:CR:76:THR:CG2	39:CR:76:THR:O	2.63	0.46
39:CR:94:VAL:HG12	39:CR:98:SER:OG	2.15	0.46
43:CV:216:HIS:O	43:CV:222:GLY:HA3	2.15	0.46
1:D1:1179:G:H1	1:D1:1226:C:H42	1.61	0.46
1:D1:1211:A:OP2	19:DX:171:ARG:NH2	2.48	0.46
1:D1:1703:A:H2'	1:D1:1704:G:H8	1.79	0.46
1:D1:1907:A:H2'	1:D1:1908:A:H8	1.80	0.46
1:D1:1928:C:N4	1:D1:1929:G:C6	2.83	0.46
1:D1:2256:G:O2'	1:D1:2257:A:C5'	2.64	0.46
1:D1:213:A:N6	1:D1:227:G:C2'	2.78	0.46
1:D1:2732:G:C6	1:D1:2733:C:N4	2.84	0.46
1:D1:3101:G:O6	1:D1:3109:C:H5'	2.15	0.46
1:D1:334:G:H2'	1:D1:335:A:O4'	2.15	0.46
1:D1:415:A:H4'	1:D1:653:C:O3'	2.15	0.46
1:D1:585:A:C6	1:D1:586:A:C5	3.03	0.46
24:CC:319:ARG:HD2	1:D1:634:G:C8	2.50	0.46
1:D1:974:C:C2'	1:D1:975:G:H5'	2.45	0.46
2:DA:21:ARG:CZ	2:DA:44:MET:CE	2.93	0.46
4:DC:83:ILE:CG2	4:DC:84:LYS:N	2.78	0.46
1:D1:439:A:C5'	5:DE:126:HIS:ND1	2.71	0.46
9:DJ:115:ALA:HB2	9:DJ:135:VAL:HG11	1.98	0.46
9:DJ:12:ASP:O	9:DJ:13:ILE:C	2.53	0.46
11:DL:59:VAL:HG13	11:DL:63:GLU:OE1	2.15	0.46
12:DM:23:GLN:N	12:DM:24:PRO:HD2	2.30	0.46
13:DN:126:ASN:HA	13:DN:127:PRO:HD3	1.74	0.46
15:DP:11:PHE:O	15:DP:15:TRP:CD1	2.69	0.46
19:DX:28:LEU:O	19:DX:29:PRO:C	2.52	0.46
20:E2:11:C:H2'	20:E2:12:A:C8	2.50	0.46
21:E3:95:U:H2'	21:E3:96:U:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:157:ARG:HG2	23:EB:180:GLN:CA	2.44	0.46
23:EB:281:TYR:OH	23:EB:323:LYS:HD2	2.15	0.46
24:EC:337:ALA:O	24:EC:341:LYS:HG2	2.15	0.46
24:EC:388:ILE:HD11	19:FX:139:ARG:HB2	1.97	0.46
25:ED:109:HIS:HE2	25:ED:120:THR:CG2	2.27	0.46
25:ED:25:GLU:O	25:ED:30:LEU:HD11	2.15	0.46
29:EH:91:VAL:CG1	29:EH:127:ALA:HB1	2.45	0.46
32:EK:100:PRO:HA	18:FU:164:LYS:HD3	1.97	0.46
32:EK:117:ARG:HH11	32:EK:137:ARG:CZ	2.28	0.46
37:EP:83:ARG:HH22	1:F1:2717:G:H5'	1.73	0.46
38:EQ:32:TYR:CE2	38:EQ:36:ARG:HD2	2.50	0.46
1:F1:1052:A:H2	1:F1:1053:A:C5	2.33	0.46
1:F1:1060:C:H2'	1:F1:1061:G:O4'	2.14	0.46
1:F1:1211:A:OP2	19:FX:171:ARG:NH2	2.48	0.46
1:F1:1738:A:C8	1:F1:1752:G:C2	3.04	0.46
36:EO:20:LYS:HG2	1:F1:1899:G:OP2	2.16	0.46
1:F1:2741:U:C4'	1:F1:2742:G:OP2	2.60	0.46
1:F1:3114:U:C3'	1:F1:3115:C:H5''	2.44	0.46
1:F1:31:G:H1'	1:F1:49:A:N6	2.30	0.46
1:F1:3141:U:H5''	1:F1:3252:G:N2	2.30	0.46
1:F1:3272:U:C4	1:F1:3273:U:C5	3.02	0.46
1:F1:332:G:C3'	1:F1:333:G:H5''	2.45	0.46
24:EC:89:THR:OG1	1:F1:354:A:N1	2.45	0.46
1:F1:379:U:C2	1:F1:389:G:N2	2.84	0.46
1:F1:461:A:O2'	1:F1:462:G:H5'	2.15	0.46
1:F1:807:G:O2'	1:F1:808:A:H5'	2.15	0.46
3:FB:6:THR:HB	3:FB:9:MET:HG3	1.97	0.46
6:FF:13:VAL:HG21	6:FF:27:ILE:CD1	2.41	0.46
8:FH:47:ASP:N	8:FH:47:ASP:OD1	2.48	0.46
8:FH:58:TYR:CE2	8:FH:60:TYR:CD2	3.03	0.46
31:EJ:139:SER:HB3	9:FJ:102:SER:H	1.80	0.46
9:FJ:119:PRO:HD3	9:FJ:140:THR:O	2.14	0.46
1:F1:3096:U:H5''	10:FK:112:LYS:NZ	2.29	0.46
12:FM:43:ILE:HG21	12:FM:56:ILE:HD13	1.95	0.46
1:F1:511:U:C5'	14:FO:70:VAL:HG21	2.41	0.46
15:FP:11:PHE:O	15:FP:15:TRP:CD1	2.68	0.46
18:FU:77:GLU:OE2	18:FU:110:ASN:ND2	2.49	0.46
19:FX:45:ALA:CA	19:FX:50:HIS:HD2	2.28	0.46
21:G3:93:G:H4'	19:HX:96:GLN:HE22	1.80	0.46
24:GC:289:LEU:HD23	24:GC:289:LEU:HA	1.62	0.46
24:GC:337:ALA:O	24:GC:341:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:GF:127:TYR:CE1	1:H1:146:U:C2	3.03	0.46
27:GF:53:LEU:HA	27:GF:53:LEU:HD23	1.65	0.46
29:GH:101:LYS:HB3	29:GH:121:LYS:HZ2	1.71	0.46
23:GB:259:ARG:HA	30:GI:63:HIS:HB2	1.97	0.46
32:GK:78:ASP:OD2	32:GK:115:LYS:HD3	2.15	0.46
32:GK:38:GLY:HA3	32:GK:42:HIS:CE1	2.51	0.46
34:GM:83:LEU:O	34:GM:88:VAL:HG22	2.15	0.46
36:GO:60:ARG:O	36:GO:61:SER:C	2.53	0.46
41:GT:49:GLN:O	41:GT:57:ARG:HB2	2.15	0.46
45:GX:22:PHE:CD2	45:GX:23:GLU:HG3	2.51	0.46
1:H1:1111:G:H3'	1:H1:1112:A:H8	1.79	0.46
1:H1:1631:U:C5	11:HL:8:ARG:HD3	2.50	0.46
1:H1:1753:A:H3'	1:H1:1754:G:C5'	2.40	0.46
1:H1:1719:U:N3	1:H1:1775:A:H2	2.07	0.46
1:H1:1842:A:H2'	1:H1:1843:U:C6	2.50	0.46
1:H1:2130:G:N2	1:H1:2143:A:H1'	2.29	0.46
1:H1:2275:A:O2'	1:H1:2276:A:P	2.71	0.46
1:H1:2398:G:C5'	1:H1:2859:G:H5''	2.45	0.46
1:H1:2208:A:H1'	1:H1:2590:A:O2'	2.15	0.46
1:H1:2625:A:H5'	1:H1:2626:A:H5''	1.97	0.46
1:H1:3011:G:N2	1:H1:3020:G:C5	2.82	0.46
1:H1:561:A:C2'	1:H1:562:G:H5'	2.45	0.46
1:H1:790:C:O2	1:H1:790:C:C2'	2.62	0.46
1:H1:861:A:C1'	1:H1:883:A:C2	2.98	0.46
5:HE:104:LEU:O	5:HE:107:VAL:HG22	2.15	0.46
5:HE:58:PHE:CG	5:HE:85:VAL:HG22	2.51	0.46
6:HF:21:LYS:NZ	19:HX:174:GLU:HG2	2.30	0.46
6:HF:44:VAL:HG12	6:HF:45:ARG:H	1.81	0.46
6:HF:62:ASN:O	6:HF:75:LYS:NZ	2.37	0.46
9:HJ:182:CYS:CB	9:HJ:221:ILE:HD12	2.46	0.46
19:HX:93:LEU:HD21	19:HX:120:LEU:CD2	2.43	0.46
1:A1:1047:G:C2'	1:A1:1048:U:C5'	2.86	0.46
1:A1:119:A:O2'	1:A1:120:A:P	2.73	0.46
1:A1:1388:U:H2'	1:A1:1389:G:C8	2.51	0.46
1:A1:1464:U:H2'	1:A1:1465:U:H6	1.79	0.46
1:A1:1864:U:C5'	50:A1:4164:HOH:O	2.52	0.46
1:A1:19:A:H8	1:A1:19:A:O5'	1.98	0.46
1:A1:2109:G:H2'	1:A1:2110:C:H5'	1.98	0.46
1:A1:2539:A:N3	1:A1:2540:G:C8	2.84	0.46
1:A1:2569:A:C2'	1:A1:2570:U:OP1	2.62	0.46
1:A1:3029:A:H2'	1:A1:3030:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3225:U:C4	1:A1:3226:A:N7	2.84	0.46
1:A1:3227:A:C2	5:AE:80:TYR:CZ	3.03	0.46
1:A1:3308:A:H2'	1:A1:3309:U:N1	2.30	0.46
1:A1:726:G:C5	1:A1:727:C:C4	3.03	0.46
7:AG:14:LEU:HD21	7:AG:43:PHE:CZ	2.51	0.46
9:AJ:140:THR:CG2	9:AJ:141:THR:H	2.12	0.46
9:AJ:187:ASN:HD21	9:AJ:207:GLY:CA	2.18	0.46
9:AJ:213:THR:O	9:AJ:216:SER:HB2	2.14	0.46
9:AJ:49:ILE:HD13	9:AJ:87:SER:HB2	1.97	0.46
12:AM:13:VAL:HG12	12:AM:14:ASN:N	2.30	0.46
13:AN:25:ILE:HG23	13:AN:41:VAL:CG1	2.41	0.46
14:AO:4:LEU:O	14:AO:8:ILE:HG13	2.16	0.46
15:AP:48:LYS:HE3	15:AP:49:TYR:HE1	1.79	0.46
19:AX:134:THR:O	19:AX:134:THR:HG22	2.12	0.46
19:AX:137:ILE:HG13	19:AX:137:ILE:O	2.15	0.46
20:B2:87:C:O4'	20:B2:87:C:O2	2.31	0.46
22:BA:109:PRO:HG2	22:BA:112:THR:OG1	2.15	0.46
23:BB:46:PHE:CE1	23:BB:84:MET:HG3	2.51	0.46
24:BC:34:ARG:NE	35:BN:24:ASN:CB	2.79	0.46
29:BH:138:VAL:CG2	29:BH:152:LEU:HD11	2.45	0.46
30:BI:107:ILE:HG13	30:BI:159:ARG:HH12	1.79	0.46
1:A1:741:G:C4	32:BK:136:ARG:NH2	2.83	0.46
34:BM:228:PHE:CD2	34:BM:231:TRP:CD1	3.01	0.46
35:BN:88:THR:HG22	35:BN:107:THR:HG23	1.97	0.46
43:BV:166:VAL:CG1	43:BV:175:ILE:HG22	2.45	0.46
43:BV:205:ASP:HB3	43:BV:238:MET:O	2.15	0.46
20:C2:111:A:H8	20:C2:111:A:O5'	1.98	0.46
22:CA:208:VAL:HG21	1:D1:941:G:O6	2.13	0.46
23:CB:301:LYS:HG2	23:CB:359:THR:HG21	1.96	0.46
24:CC:65:MET:HE3	24:CC:105:ARG:CG	2.45	0.46
24:CC:230:ILE:CG2	24:CC:233:VAL:HG13	2.46	0.46
30:CI:156:GLU:OE1	30:CI:156:GLU:HA	2.15	0.46
30:CI:7:VAL:HG22	30:CI:33:VAL:HB	1.96	0.46
32:CK:121:GLN:HA	32:CK:122:PRO:HD3	1.60	0.46
33:CL:27:THR:CG2	33:CL:124:ASP:HB3	2.40	0.46
34:CM:163:LEU:HD21	34:CM:175:HIS:HB3	1.96	0.46
34:CM:65:VAL:HA	34:CM:73:ARG:O	2.15	0.46
34:CM:86:PHE:CE1	34:CM:253:GLU:HB3	2.51	0.46
35:CN:168:ARG:HH11	18:DU:9:VAL:HG22	1.80	0.46
43:CV:18:LYS:O	43:CV:21:LYS:HB2	2.15	0.46
45:CX:69:LEU:HG	45:CX:73:PHE:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1020:G:N3	1:D1:1021:U:H5	2.14	0.46
1:D1:1215:U:N3	1:D1:1344:A:N6	2.59	0.46
1:D1:146:U:O2	1:D1:148:G:N2	2.47	0.46
1:D1:1902:C:O2	1:D1:1902:C:H2'	2.15	0.46
1:D1:190:U:C4	1:D1:224:C:O4'	2.68	0.46
1:D1:2148:A:H2'	1:D1:2149:U:H6	1.80	0.46
1:D1:2392:A:O2'	50:D1:4367:HOH:O	2.21	0.46
1:D1:2727:A:HO2'	1:D1:2728:A:P	2.37	0.46
1:D1:2784:G:H4'	1:D1:2786:C:C6	2.50	0.46
1:D1:2921:A:C6	1:D1:2922:A:N1	2.83	0.46
1:D1:2930:C:P	50:D1:4237:HOH:O	2.63	0.46
1:D1:2276:A:N6	1:D1:2947:C:O2'	2.48	0.46
1:D1:3029:A:H2'	1:D1:3030:A:C8	2.50	0.46
1:D1:3155:A:N7	8:DH:101:GLY:C	2.68	0.46
1:D1:3308:A:H2'	1:D1:3309:U:N1	2.29	0.46
24:CC:6:GLN:NE2	1:D1:471:A:H4'	2.17	0.46
1:D1:585:A:C5	1:D1:586:A:C5	3.03	0.46
1:D1:641:U:O4'	1:D1:3233:A:N6	2.48	0.46
1:D1:74:G:H2'	18:DU:98:ARG:HD2	1.96	0.46
3:DB:9:MET:HB3	3:DB:13:PHE:CE2	2.47	0.46
5:DE:11:GLY:HA2	5:DE:14:LYS:HE3	1.97	0.46
5:DE:46:ALA:HB3	5:DE:49:THR:OG1	2.15	0.46
9:DJ:211:THR:O	9:DJ:215:ILE:HG13	2.15	0.46
11:DL:23:VAL:HG21	11:DL:33:GLN:CD	2.35	0.46
12:DM:17:PHE:CD1	12:DM:75:LYS:HB3	2.50	0.46
1:D1:511:U:H5''	14:DO:70:VAL:HG21	1.97	0.46
15:DP:48:LYS:HE3	15:DP:49:TYR:HE2	1.81	0.46
20:E2:43:A:H3'	20:E2:43:A:C8	2.51	0.46
25:ED:107:GLN:HG2	25:ED:108:GLU:H	1.80	0.46
26:EE:167:GLU:O	26:EE:168:LYS:HG2	2.14	0.46
26:EE:88:PHE:HD2	26:EE:152:VAL:CG1	2.29	0.46
27:EF:19:ASN:CB	27:EF:20:PRO:HD3	2.34	0.46
30:EI:183:ALA:HB1	30:EI:184:PRO:CD	2.45	0.46
31:EJ:32:ASN:ND2	31:EJ:117:GLN:N	2.63	0.46
32:EK:100:PRO:HA	18:FU:164:LYS:CE	2.45	0.46
32:EK:81:TRP:CE3	32:EK:89:ARG:HB3	2.50	0.46
34:EM:216:LEU:HD12	34:EM:228:PHE:CD1	2.50	0.46
32:EK:49:LYS:O	35:EN:156:PRO:O	2.33	0.46
37:EP:100:ASN:ND2	1:F1:1017:U:OP1	2.48	0.46
39:ER:74:PRO:HB2	39:ER:149:LEU:HD11	1.97	0.46
40:ES:3:THR:N	1:F1:229:A:H5''	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EU:78:SER:O	42:EU:79:LEU:HB2	2.15	0.46
42:EU:80:LYS:HB3	42:EU:81:PRO:HD2	1.97	0.46
43:EV:84:ILE:HA	43:EV:110:ASN:O	2.15	0.46
45:EX:27:PHE:CD2	45:EX:29:LYS:HE2	2.50	0.46
1:F1:1095:C:C2'	1:F1:1095:C:O2	2.62	0.46
1:F1:1114:C:C2'	1:F1:1115:U:C5'	2.93	0.46
43:EV:108:LEU:HD11	1:F1:1185:A:H5'	1.98	0.46
1:F1:1191:G:H2'	1:F1:1192:A:C8	2.47	0.46
27:EF:122:PRO:CG	1:F1:119:A:C2	2.98	0.46
1:F1:359:G:H2'	1:F1:360:A:C8	2.50	0.46
1:F1:402:U:H2'	1:F1:403:G:H5'	1.97	0.46
1:F1:608:C:H2'	1:F1:609:A:O5'	2.15	0.46
4:FC:83:ILE:HG22	4:FC:84:LYS:N	2.28	0.46
6:FF:7:VAL:HG22	6:FF:55:LEU:HD21	1.96	0.46
9:FJ:215:ILE:O	9:FJ:219:GLU:HG3	2.15	0.46
9:FJ:43:VAL:CG1	9:FJ:44:PRO:N	2.75	0.46
11:FL:77:VAL:HG11	13:FN:144:PHE:CE1	2.51	0.46
19:FX:15:GLN:HE21	19:FX:115:GLY:HA2	1.79	0.46
23:GB:216:LEU:HD23	23:GB:274:THR:HA	1.97	0.46
24:GC:375:ALA:O	24:GC:378:ALA:HB3	2.14	0.46
25:GD:37:LEU:CD1	25:GD:69:VAL:HG23	2.45	0.46
26:GE:113:LYS:HD2	26:GE:114:HIS:N	2.30	0.46
26:GE:90:MET:O	26:GE:141:THR:HG23	2.15	0.46
26:GE:88:PHE:HD1	26:GE:182:LYS:HA	1.76	0.46
27:GF:41:LEU:HD22	1:H1:2519:A:H1'	1.97	0.46
30:GI:165:THR:O	30:GI:166:TYR:C	2.53	0.46
33:GL:27:THR:CG2	33:GL:124:ASP:HB3	2.40	0.46
34:GM:76:CYS:HB3	34:GM:105:LEU:CD1	2.46	0.46
35:GN:172:ARG:HG2	35:GN:173:LYS:HG2	1.97	0.46
35:GN:34:TYR:CD2	35:GN:37:LEU:HD12	2.50	0.46
36:GO:114:LYS:O	36:GO:146:LYS:HE2	2.14	0.46
38:GQ:12:ASN:HB3	38:GQ:15:LYS:HB2	1.97	0.46
39:GR:90:MET:HE2	39:GR:92:PHE:CE1	2.49	0.46
42:GU:41:THR:H	42:GU:44:LYS:HD2	1.80	0.46
44:GW:43:MET:HG3	44:GW:90:THR:CG2	2.45	0.46
1:H1:1116:C:H6	1:H1:1116:C:O5'	1.98	0.46
1:H1:166:C:H2'	1:H1:166:C:O2	2.15	0.46
1:H1:1680:A:H4'	1:H1:1681:C:O5'	2.15	0.46
1:H1:1926:G:C2	1:H1:1927:U:H1'	2.50	0.46
1:H1:2300:G:O5'	1:H1:2300:G:C8	2.69	0.46
1:H1:2529:G:H2'	1:H1:2530:G:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2958:C:O2'	1:H1:2959:A:N7	2.44	0.46
1:H1:2999:U:C4	50:H1:4347:HOH:O	2.55	0.46
1:H1:3047:U:H3'	1:H1:3047:U:C6	2.50	0.46
1:H1:314:C:H2'	1:H1:315:U:H6	1.78	0.46
1:H1:3308:A:H2'	1:H1:3309:U:N1	2.30	0.46
24:GC:103:LYS:HZ1	1:H1:365:A:P	2.38	0.46
1:H1:415:A:H4'	1:H1:653:C:O3'	2.14	0.46
1:H1:579:G:H1'	19:HX:158:ASN:HA	1.96	0.46
1:H1:59:A:H2'	1:H1:60:A:O4'	2.15	0.46
1:H1:679:C:O2'	1:H1:680:A:H5'	2.14	0.46
1:H1:703:U:O2'	1:H1:704:G:H5'	2.16	0.46
46:GY:10:ILE:HG23	1:H1:862:A:H4'	1.96	0.46
1:A1:2254:A:C6	1:H1:873:A:H4'	2.49	0.46
6:HF:23:LYS:CB	6:HF:43:ILE:HD11	2.45	0.46
6:HF:45:ARG:NH1	19:HX:84:ASN:O	2.47	0.46
9:HJ:46:ILE:HG22	9:HJ:47:PRO:O	2.15	0.46
1:H1:46:A:P	18:HU:15:HIS:HD2	2.37	0.46
18:HU:31:LYS:O	18:HU:34:LEU:HB2	2.15	0.46
18:HU:44:VAL:CG1	18:HU:47:ARG:HG3	2.45	0.46
19:HX:134:THR:O	19:HX:134:THR:HG22	2.15	0.46
1:H1:3168:A:N7	19:HX:166:VAL:HG11	2.29	0.46
19:HX:55:PHE:CZ	19:HX:59:MET:CE	2.98	0.46
1:A1:1046:G:H2'	1:A1:1047:G:O4'	2.14	0.46
1:A1:1247:C:C5'	1:A1:1248:G:H5''	2.35	0.46
1:A1:1397:G:C2'	1:A1:1398:G:H5'	2.45	0.46
1:A1:155:A:H1'	16:AQ:27:ALA:CB	2.44	0.46
1:A1:1646:G:O2'	1:A1:1647:U:H5'	2.16	0.46
1:A1:2133:U:P	50:A1:4109:HOH:O	2.73	0.46
1:A1:2227:A:H2'	1:A1:2228:A:O4'	2.15	0.46
1:A1:2436:U:H2'	1:A1:2437:G:C8	2.51	0.46
1:A1:2586:G:O2'	1:A1:2587:G:H5'	2.14	0.46
1:A1:2698:A:H2'	1:A1:2699:C:C6	2.51	0.46
1:A1:2929:A:OP2	23:BB:254:HIS:CD2	2.68	0.46
1:A1:332:G:C3'	1:A1:333:G:H5''	2.46	0.46
1:A1:358:C:O2'	2:AA:16:HIS:HD2	1.98	0.46
1:A1:435:A:N3	1:A1:435:A:C2'	2.78	0.46
1:A1:486:C:C2'	1:A1:487:G:H5'	2.45	0.46
1:A1:603:A:H2'	1:A1:604:A:C8	2.50	0.46
1:A1:792:G:H5'	18:AU:190:TRP:CE2	2.50	0.46
5:AE:173:TYR:CE2	6:AF:106:PHE:CA	2.99	0.46
6:AF:13:VAL:HG21	6:AF:27:ILE:CD1	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:33:THR:HG22	13:AN:34:LYS:H	1.80	0.46
18:AU:58:LYS:CB	18:AU:63:TYR:HB3	2.44	0.46
19:AX:108:TYR:CZ	19:AX:120:LEU:HA	2.50	0.46
19:AX:151:PRO:O	19:AX:155:ALA:HB2	2.14	0.46
6:AF:45:ARG:NH1	19:AX:84:ASN:O	2.48	0.46
23:BB:376:LYS:NZ	9:DJ:44:PRO:CG	2.78	0.46
1:A1:2672:U:H1'	25:BD:128:TYR:CE2	2.50	0.46
25:BD:9:MET:O	25:BD:134:PRO:HD3	2.15	0.46
1:A1:118:A:N7	27:BF:121:LYS:HA	2.30	0.46
27:BF:155:LEU:HD23	33:BL:7:LEU:HD11	1.97	0.46
1:A1:485:A:H2'	32:BK:84:VAL:CG1	2.45	0.46
34:BM:54:ARG:CZ	34:BM:149:GLY:HA3	2.45	0.46
37:BP:43:MET:HE3	37:BP:58:HIS:CE1	2.50	0.46
37:BP:42:ILE:HG23	37:BP:57:TYR:O	2.16	0.46
39:BR:141:LEU:O	39:BR:144:ALA:HB3	2.15	0.46
39:BR:77:THR:O	39:BR:78:GLU:C	2.53	0.46
40:BS:55:VAL:CG1	40:BS:56:LEU:N	2.79	0.46
33:BL:147:ARG:HE	42:BU:105:LEU:HD21	1.80	0.46
1:A1:663:G:OP1	45:BX:39:GLY:HA3	2.15	0.46
20:C2:22:A:O2'	20:C2:23:U:H5'	2.16	0.46
20:C2:71:G:C5	20:C2:72:C:C5	3.03	0.46
22:CA:114:VAL:HG12	22:CA:115:CYS:N	2.30	0.46
22:CA:133:CYS:O	22:CA:170:VAL:HG23	2.14	0.46
22:CA:42:ILE:CD1	22:CA:43:ARG:N	2.71	0.46
23:CB:17:ARG:HA	23:CB:18:PRO:C	2.36	0.46
32:CK:77:ILE:HG23	32:CK:118:LEU:HG	1.97	0.46
34:CM:60:ILE:H	34:CM:80:SER:HB2	1.80	0.46
35:CN:174:PHE:C	35:CN:176:ARG:N	2.68	0.46
1:D1:1006:C:C2'	1:D1:1007:G:OP1	2.64	0.46
1:D1:116:U:C4	1:D1:117:G:C5	3.03	0.46
28:CG:60:UNK:CG	1:D1:1249:G:H5''	2.30	0.46
35:CN:3:ILE:HD11	1:D1:1391:U:OP1	2.16	0.46
1:D1:1823:A:H2'	1:D1:1824:A:O4'	2.15	0.46
1:D1:2124:C:H2'	1:D1:2125:C:H6	1.81	0.46
1:D1:2146:G:H2'	1:D1:2147:C:H5'	1.97	0.46
1:D1:2208:A:H1'	1:D1:2590:A:O2'	2.16	0.46
1:D1:2569:A:C2'	1:D1:2570:U:OP1	2.63	0.46
37:CP:23:GLY:HA3	1:D1:2691:A:OP1	2.15	0.46
1:D1:2703:G:H2'	1:D1:2740:G:N2	2.30	0.46
1:D1:3144:G:C2	1:D1:3249:U:C2	3.03	0.46
1:D1:3283:C:H2'	1:D1:3284:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:474:G:H2'	1:D1:475:C:H6	1.79	0.46
2:DA:21:ARG:HB2	2:DA:39:TYR:CD1	2.50	0.46
3:DB:50:LYS:O	3:DB:51:ILE:HG13	2.14	0.46
4:DC:100:ALA:O	4:DC:104:LYS:HG3	2.16	0.46
1:D1:1662:A:C4'	11:DL:76:ARG:NH2	2.78	0.46
22:EA:103:LEU:HB2	22:EA:108:ILE:HD11	1.98	0.46
23:EB:292:ALA:HB2	23:EB:303:ILE:N	2.30	0.46
24:EC:163:VAL:CG2	24:EC:175:PHE:CE2	2.96	0.46
24:EC:19:THR:CG2	24:EC:20:ALA:N	2.78	0.46
24:EC:97:PHE:O	24:EC:97:PHE:HD1	1.99	0.46
25:ED:12:VAL:O	25:ED:12:VAL:HG23	2.15	0.46
29:EH:50:VAL:HG12	29:EH:152:LEU:HD12	1.98	0.46
34:EM:90:THR:O	34:EM:231:TRP:CZ3	2.67	0.46
35:EN:151:HIS:ND1	35:EN:164:ALA:O	2.39	0.46
36:EO:102:LEU:HD13	36:EO:127:SER:HB3	1.98	0.46
38:EQ:12:ASN:HB3	38:EQ:15:LYS:HB2	1.98	0.46
40:ES:10:ALA:HB3	40:ES:13:LYS:HG3	1.97	0.46
43:EV:120:SER:O	43:EV:124:ILE:HG13	2.14	0.46
43:EV:128:LEU:N	43:EV:129:PRO:CD	2.78	0.46
44:EW:75:CYS:O	44:EW:90:THR:HG23	2.15	0.46
46:EY:73:THR:HG22	46:EY:75:PRO:CD	2.39	0.46
1:F1:1808:A:H2'	1:F1:1809:C:C6	2.50	0.46
1:F1:1843:U:C2	1:F1:1844:U:C5	3.03	0.46
1:F1:2536:A:H2'	1:F1:2537:C:H6	1.76	0.46
1:F1:2557:A:C2	1:F1:2564:G:C5	3.03	0.46
1:F1:2767:A:H2'	1:F1:2768:G:O5'	2.15	0.46
1:F1:2276:A:N6	1:F1:2947:C:O2'	2.47	0.46
1:F1:300:G:H8	1:F1:300:G:H5'	1.80	0.46
1:F1:3068:U:H3'	1:F1:3069:G:H5''	1.98	0.46
1:F1:3132:A:C2'	1:F1:3133:G:OP1	2.63	0.46
1:F1:3180:C:H2'	1:F1:3181:G:H8	1.80	0.46
1:F1:3214:A:H5''	1:F1:3215:C:H6	1.76	0.46
1:F1:3229:C:O2'	1:F1:3230:G:OP1	2.33	0.46
1:F1:3340:U:H2'	1:F1:3341:C:C6	2.49	0.46
1:F1:334:G:H2'	1:F1:335:A:O4'	2.15	0.46
1:F1:445:C:N4	50:F1:4607:HOH:O	2.47	0.46
1:F1:470:C:O2'	1:F1:471:A:H5'	2.15	0.46
1:F1:600:G:H5''	1:F1:601:A:OP2	2.16	0.46
1:F1:861:A:C2	1:F1:883:A:H1'	2.50	0.46
2:FA:21:ARG:NE	2:FA:44:MET:HE1	2.30	0.46
2:FA:84:GLN:OE1	2:FA:84:GLN:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:98:THR:HG22	5:FE:100:THR:H	1.79	0.46
6:FF:87:GLU:O	6:FF:92:LYS:HE3	2.15	0.46
8:FH:43:ASN:O	8:FH:84:ASN:HA	2.14	0.46
14:FO:115:HIS:O	14:FO:118:ASN:N	2.49	0.46
1:F1:46:A:P	18:FU:15:HIS:HD2	2.39	0.46
20:G2:11:C:H2'	20:G2:12:A:C8	2.50	0.46
20:G2:73:G:OP2	40:GS:117:LEU:HD21	2.16	0.46
21:G3:39:U:C2	25:GD:46:VAL:HG21	2.50	0.46
22:GA:116:ASN:OD1	22:GA:125:GLY:HA3	2.15	0.46
23:GB:33:PRO:CD	23:GB:44:THR:HG23	2.44	0.46
23:GB:46:PHE:CZ	23:GB:84:MET:HG3	2.50	0.46
23:GB:86:ILE:CD1	23:GB:196:LEU:HD13	2.45	0.46
25:GD:134:PRO:HG2	25:GD:135:GLY:N	2.31	0.46
29:GH:50:VAL:CG1	29:GH:152:LEU:HD12	2.45	0.46
32:GK:98:LYS:HA	18:HU:166:VAL:CB	2.45	0.46
34:GM:157:ASN:ND2	34:GM:159:VAL:HG22	2.30	0.46
35:GN:57:ARG:NH1	1:H1:697:A:OP2	2.41	0.46
37:GP:70:ARG:O	37:GP:93:ILE:HG13	2.15	0.46
38:GQ:113:ASN:O	38:GQ:154:GLU:HA	2.14	0.46
20:G2:81:G:H4'	42:GU:42:ALA:HB3	1.97	0.46
1:H1:1066:A:H2'	1:H1:1067:U:O4'	2.15	0.46
45:GX:57:ILE:HG23	1:H1:1366:C:O2'	2.15	0.46
24:GC:207:LYS:NZ	1:H1:1412:U:O4	2.48	0.46
1:H1:146:U:C4'	1:H1:147:U:O5'	2.56	0.46
1:H1:3228:U:C3'	1:H1:3229:C:C5'	2.94	0.46
1:H1:439:A:N6	1:H1:539:A:H1'	2.30	0.46
1:H1:461:A:O2'	1:H1:462:G:H5'	2.16	0.46
1:H1:775:C:O2	1:H1:775:C:C2'	2.62	0.46
4:HC:83:ILE:HG22	4:HC:84:LYS:N	2.30	0.46
8:HH:43:ASN:O	8:HH:84:ASN:HA	2.15	0.46
9:HJ:119:PRO:CG	9:HJ:146:VAL:HG12	2.45	0.46
9:HJ:117:ILE:HD13	9:HJ:137:VAL:HG11	1.97	0.46
9:HJ:157:ARG:O	9:HJ:180:PRO:HD2	2.15	0.46
19:HX:45:ALA:HB1	19:HX:50:HIS:HB3	1.97	0.46
1:A1:1195:U:H1'	43:BV:206:THR:CG2	2.45	0.46
1:A1:1215:U:N3	1:A1:1344:A:N6	2.62	0.46
1:A1:1348:G:C2'	1:A1:1349:U:O5'	2.63	0.46
1:A1:1376:A:OP2	43:BV:15:ARG:NH2	2.46	0.46
1:A1:1620:U:O2'	1:A1:1631:U:O2	2.31	0.46
1:A1:1667:A:C2'	1:A1:1668:A:O5'	2.64	0.46
1:A1:1906:G:H5''	44:BW:33:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2143:A:H2'	1:A1:2144:A:O4'	2.16	0.46
1:A1:2358:A:O2'	1:A1:2359:G:H5'	2.15	0.46
1:A1:2515:G:C6	1:A1:2516:U:C4	3.03	0.46
1:A1:2667:A:C6	1:A1:2668:A:C6	3.03	0.46
1:A1:3027:U:OP1	23:BB:62:ARG:NH2	2.48	0.46
1:A1:3298:U:C1'	1:A1:3299:G:P	3.03	0.46
1:A1:621:G:O6	1:A1:622:G:N1	2.48	0.46
1:A1:640:G:H2'	1:A1:641:U:H6	1.81	0.46
1:A1:685:G:OP1	1:A1:685:G:H4'	2.15	0.46
1:A1:71:U:C2'	1:A1:72:A:OP1	2.64	0.46
1:A1:820:G:C2'	1:A1:821:U:C5'	2.94	0.46
2:AA:21:ARG:CZ	2:AA:44:MET:HE1	2.46	0.46
4:AC:100:ALA:O	4:AC:104:LYS:HG3	2.16	0.46
5:AE:113:GLU:HA	5:AE:113:GLU:OE1	2.15	0.46
5:AE:135:THR:HB	5:AE:138:GLN:HG3	1.95	0.46
5:AE:170:LEU:HA	6:AF:106:PHE:CE1	2.46	0.46
1:A1:426:A:H4'	8:AH:94:ASN:O	2.14	0.46
9:AJ:111:ASN:ND2	9:AJ:156:ASN:HD22	2.12	0.46
12:AM:13:VAL:O	12:AM:70:THR:HA	2.15	0.46
19:AX:7:GLN:HE22	19:AX:80:GLU:N	2.13	0.46
24:BC:89:THR:HG22	24:BC:91:ARG:HB3	1.97	0.46
31:BJ:10:GLN:HG3	31:BJ:129:ILE:HG22	1.94	0.46
33:BL:26:ARG:NH1	33:BL:43:SER:OG	2.48	0.46
34:BM:9:THR:O	34:BM:13:PHE:HD1	1.98	0.46
24:BC:290:LEU:HD22	35:BN:125:ASP:HB3	1.97	0.46
38:BQ:93:ILE:O	38:BQ:96:LEU:HB2	2.15	0.46
1:A1:1547:G:P	39:BR:77:THR:HG21	2.55	0.46
43:BV:132:THR:CG2	43:BV:227:ARG:HG3	2.45	0.46
46:BY:55:TRP:N	46:BY:55:TRP:CD1	2.82	0.46
20:C2:35:U:O2	20:C2:37:A:N6	2.48	0.46
23:CB:140:LYS:O	23:CB:144:LEU:HG	2.15	0.46
23:CB:337:ARG:HH21	23:CB:340:ILE:HG23	1.79	0.46
23:CB:294:THR:HG21	23:CB:354:LEU:O	2.15	0.46
23:CB:33:PRO:CD	23:CB:44:THR:CG2	2.94	0.46
24:CC:27:ALA:HB2	24:CC:272:THR:HG23	1.97	0.46
24:CC:82:PRO:O	24:CC:96:ALA:N	2.36	0.46
27:CF:62:GLN:OE1	1:D1:2574:U:C4	2.68	0.46
30:CI:101:LEU:HD11	30:CI:103:ILE:HG12	1.97	0.46
32:CK:148:THR:HG22	32:CK:149:ALA:H	1.77	0.46
37:CP:40:VAL:HG13	37:CP:96:VAL:HG13	1.97	0.46
44:CW:59:TRP:HZ3	44:CW:63:ILE:HG12	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:119:A:O2'	1:D1:120:A:P	2.74	0.46
1:D1:1647:U:H2'	1:D1:1648:G:O4'	2.15	0.46
1:D1:1712:U:C4	12:DM:80:TYR:HD1	2.33	0.46
40:CS:125:LEU:HD21	1:D1:186:U:O3'	2.15	0.46
24:CC:77:ALA:CA	1:D1:2397:A:OP2	2.63	0.46
1:D1:2537:C:H2'	1:D1:2538:C:H6	1.79	0.46
1:D1:3005:A:H2'	1:D1:3006:A:C8	2.50	0.46
1:D1:3083:A:H2'	1:D1:3084:U:C6	2.50	0.46
1:D1:3101:G:C2	1:D1:3110:U:C5	3.03	0.46
1:D1:3115:C:H2'	1:D1:3116:A:O5'	2.14	0.46
1:D1:1966:U:O2'	1:D1:3303:G:H1'	2.14	0.46
38:CQ:103:ASN:ND2	1:D1:388:A:C1'	2.61	0.46
1:D1:592:A:OP1	6:DF:68:ARG:HG3	2.16	0.46
1:D1:632:G:N7	5:DE:32:GLN:NE2	2.63	0.46
1:D1:723:U:O3'	1:D1:724:C:H6	1.98	0.46
1:D1:766:G:C2'	1:D1:767:C:OP2	2.63	0.46
22:CA:16:VAL:HG23	1:D1:936:C:P	2.55	0.46
1:D1:943:C:O2'	1:D1:944:U:H5'	2.16	0.46
30:CI:186:LEU:CD1	6:DF:122:SER:HB3	2.28	0.46
13:DN:105:ASN:CG	13:DN:105:ASN:O	2.54	0.46
32:CK:51:HIS:CE1	18:DU:6:GLN:HA	2.47	0.46
19:DX:8:GLU:OE2	19:DX:19:ARG:NH1	2.46	0.46
20:E2:33:C:O2'	20:E2:34:G:H5'	2.14	0.46
21:E3:69:G:H2'	21:E3:70:G:C8	2.47	0.46
24:EC:230:ILE:CG2	24:EC:233:VAL:HG13	2.46	0.46
25:ED:160:ILE:HG22	25:ED:164:LYS:HE3	1.98	0.46
25:ED:17:LEU:CB	25:ED:76:ALA:HB1	2.45	0.46
27:EF:161:GLN:OE1	27:EF:164:ARG:NH1	2.48	0.46
27:EF:89:LEU:HD23	27:EF:193:LEU:HD21	1.98	0.46
30:EI:132:ARG:NH1	1:F1:1216:C:O2'	2.49	0.46
30:EI:30:GLN:HG3	30:EI:32:ILE:CD1	2.46	0.46
32:EK:48:GLU:OE1	32:EK:48:GLU:CA	2.57	0.46
34:EM:157:ASN:ND2	34:EM:159:VAL:HG22	2.29	0.46
35:EN:128:ALA:O	35:EN:132:PRO:HD3	2.14	0.46
37:EP:15:PHE:N	37:EP:15:PHE:HD1	2.13	0.46
38:EQ:77:GLU:HB2	38:EQ:78:PHE:CE2	2.50	0.46
39:ER:113:VAL:HG12	39:ER:114:LYS:N	2.29	0.46
40:ES:44:VAL:HG11	40:ES:47:MET:CE	2.45	0.46
41:ET:27:ASP:N	41:ET:27:ASP:OD1	2.47	0.46
43:EV:85:ARG:CZ	43:EV:100:LEU:HD13	2.46	0.46
1:F1:1049:U:C2'	1:F1:1050:C:O4'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1127:U:C2	1:F1:1128:G:C8	3.04	0.46
1:F1:1207:A:C4	1:F1:1209:G:C8	3.04	0.46
1:F1:1596:U:H4'	1:F1:1597:U:OP2	2.06	0.46
1:F1:1617:G:HO2'	1:F1:1618:A:P	2.31	0.46
1:F1:1964:G:H2'	1:F1:1965:C:O4'	2.16	0.46
1:F1:2125:C:O2'	1:F1:2140:A:N3	2.49	0.46
1:F1:2245:G:C5	50:F1:4294:HOH:O	2.68	0.46
1:F1:2408:A:H8	1:F1:2408:A:O5'	1.98	0.46
1:F1:2432:G:N2	1:F1:2506:G:H1'	2.31	0.46
1:F1:2535:A:H2'	1:F1:2536:A:O4'	2.15	0.46
25:ED:128:TYR:CE2	1:F1:2672:U:H1'	2.50	0.46
1:F1:882:G:O2'	1:F1:883:A:O5'	2.33	0.46
1:D1:1046:G:H5''	13:FN:3:LYS:CG	2.46	0.46
19:FX:93:LEU:CD2	19:FX:120:LEU:HD21	2.40	0.46
1:F1:1321:A:OP1	19:FX:99:THR:HG21	2.16	0.46
20:G2:10:U:H2'	20:G2:11:C:H6	1.80	0.46
24:GC:258:TRP:HZ3	24:GC:266:LEU:HD21	1.79	0.46
24:GC:273:TYR:HB3	24:GC:287:ARG:HH12	1.81	0.46
24:GC:289:LEU:O	35:GN:123:THR:OG1	2.32	0.46
26:GE:167:GLU:O	26:GE:168:LYS:HG2	2.15	0.46
21:G3:63:A:C8	29:GH:206:LEU:HD21	2.51	0.46
30:GI:132:ARG:HH12	1:H1:1216:C:C2'	2.22	0.46
31:GJ:83:ILE:CG2	31:GJ:122:VAL:HA	2.45	0.46
34:GM:254:ILE:O	34:GM:258:PRO:HB3	2.16	0.46
34:GM:38:ILE:HG13	34:GM:38:ILE:O	2.15	0.46
34:GM:65:VAL:HA	34:GM:73:ARG:O	2.15	0.46
35:GN:57:ARG:HH12	1:H1:697:A:H5'	1.80	0.46
36:GO:96:MET:O	36:GO:100:ARG:HG3	2.15	0.46
36:GO:123:PHE:CE2	36:GO:142:ILE:HG12	2.50	0.46
37:GP:15:PHE:HD1	37:GP:15:PHE:N	2.12	0.46
39:GR:76:THR:O	39:GR:76:THR:CG2	2.63	0.46
42:GU:66:ARG:O	42:GU:69:ALA:HB3	2.15	0.46
1:H1:1073:A:C2'	1:H1:1074:A:O5'	2.63	0.46
1:H1:1130:A:C2	1:H1:1390:A:O2'	2.61	0.46
1:H1:969:C:H1'	1:H1:1457:G:N2	2.30	0.46
1:H1:1691:U:H2'	1:H1:1692:G:C8	2.50	0.46
1:H1:1703:A:H2'	1:H1:1704:G:H8	1.81	0.46
1:H1:1880:C:H1'	11:HL:7:TYR:CE1	2.51	0.46
1:H1:2535:A:H2'	1:H1:2536:A:O4'	2.16	0.46
1:H1:2557:A:C2	1:H1:2564:G:C5	3.04	0.46
1:H1:2690:U:O4'	1:H1:2694:A:C6	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2999:U:P	50:H1:4338:HOH:O	2.74	0.46
1:H1:3008:U:O2'	1:H1:3009:U:H5'	2.15	0.46
1:H1:3128:G:C5'	1:H1:3128:G:C8	2.92	0.46
23:GB:364:GLY:HA3	1:H1:3288:A:H4'	1.97	0.46
1:H1:396:A:C2	1:H1:397:A:C5	3.04	0.46
38:GQ:3:LYS:CE	1:H1:398:G:N7	2.79	0.46
4:HC:26:TYR:HB2	4:HC:67:ALA:HB3	1.97	0.46
1:H1:3226:A:N3	5:HE:84:GLY:HA3	2.30	0.46
12:HM:17:PHE:CD1	12:HM:75:LYS:HB3	2.50	0.46
13:HN:33:THR:HG22	13:HN:34:LYS:H	1.80	0.46
13:HN:36:ARG:NH1	13:HN:74:TYR:CB	2.78	0.46
13:HN:95:GLU:OE1	13:HN:95:GLU:HA	2.14	0.46
13:HN:4:PHE:HB3	13:HN:9:ARG:HH21	1.78	0.46
26:GE:58:TRP:CE2	19:HX:164:PRO:HG2	2.50	0.46
1:A1:1318:A:H2'	1:A1:1319:C:H5''	1.97	0.46
1:A1:1373:G:H2'	1:A1:1374:C:C6	2.44	0.46
1:A1:146:U:HO2'	1:A1:147:U:P	2.38	0.46
1:A1:1654:G:C2'	1:A1:1654:G:N3	2.76	0.46
1:A1:1907:A:H2'	1:A1:1908:A:C8	2.50	0.46
1:A1:1909:C:H5''	1:A1:3266:G:C2	2.51	0.46
1:A1:2112:G:N3	1:A1:2112:G:H5'	2.30	0.46
1:A1:2264:U:H2'	1:A1:2265:A:O5'	2.16	0.46
1:A1:186:U:C2	1:A1:230:G:O6	2.69	0.46
1:A1:2434:A:C2	1:A1:2504:U:C2	3.03	0.46
1:A1:2751:A:OP2	50:A1:3799:HOH:O	2.21	0.46
1:A1:3267:A:OP1	23:BB:224:PHE:HB2	2.15	0.46
1:A1:3306:G:N2	1:A1:3314:U:C2	2.84	0.46
1:A1:449:G:C4	1:A1:450:C:C5	3.03	0.46
1:A1:526:U:H4'	5:AE:10:ARG:HG3	1.98	0.46
1:A1:621:G:N7	1:A1:622:G:C6	2.84	0.46
1:A1:745:A:C6	1:A1:746:A:C2	3.04	0.46
1:A1:937:G:H2'	1:A1:939:A:N7	2.30	0.46
8:AH:58:TYR:CE2	8:AH:60:TYR:HD2	2.33	0.46
9:AJ:30:ALA:HB3	9:AJ:35:TYR:CE1	2.51	0.46
9:AJ:42:LEU:HD21	9:AJ:205:PHE:CE1	2.50	0.46
15:AP:11:PHE:O	15:AP:15:TRP:CD1	2.69	0.46
18:AU:106:SER:O	18:AU:110:ASN:ND2	2.45	0.46
1:A1:991:U:OP1	18:AU:2:LYS:O	2.33	0.46
18:AU:34:LEU:HA	18:AU:37:ARG:HD2	1.96	0.46
22:BA:33:TYR:HD1	22:BA:164:ARG:NH2	2.14	0.46
23:BB:55:HIS:CE1	41:BT:18:GLY:HA3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:56:ILE:HD11	23:BB:321:MET:CE	2.45	0.46
23:BB:60:VAL:CG2	23:BB:67:HIS:O	2.64	0.46
25:BD:160:ILE:HG22	25:BD:164:LYS:HE3	1.98	0.46
29:BH:41:ALA:HB3	29:BH:139:ARG:HH21	1.77	0.46
31:BJ:11:VAL:HG21	31:BJ:131:PRO:HD3	1.97	0.46
33:BL:126:THR:HG1	33:BL:127:TYR:HD1	1.59	0.46
34:BM:200:HIS:O	34:BM:204:ILE:HG13	2.16	0.46
35:BN:155:ALA:HA	35:BN:156:PRO:HD3	1.48	0.46
35:BN:31:ILE:O	35:BN:35:LYS:HG3	2.15	0.46
42:BU:44:LYS:O	42:BU:47:ARG:HB2	2.15	0.46
45:BX:22:PHE:O	45:BX:23:GLU:HB2	2.15	0.46
45:BX:71:ASN:OD1	45:BX:71:ASN:C	2.54	0.46
21:C3:89:G:C6	21:C3:90:A:C6	3.04	0.46
22:CA:108:ILE:HB	22:CA:137:ILE:CD1	2.45	0.46
22:CA:118:GLU:HB2	22:CA:163:CYS:HB3	1.97	0.46
22:CA:243:ARG:NH2	1:D1:2237:A:OP1	2.48	0.46
24:CC:23:LEU:HD11	24:CC:264:LYS:HE2	1.98	0.46
24:CC:260:GLU:OE1	24:CC:264:LYS:HE3	2.15	0.46
25:CD:109:HIS:HE2	25:CD:120:THR:CG2	2.28	0.46
25:CD:82:ARG:CB	25:CD:112:LEU:HD22	2.38	0.46
23:BB:199:LYS:HG2	26:CE:106:ASP:OD1	2.15	0.46
27:CF:63:ARG:CZ	27:CF:231:GLY:HA3	2.45	0.46
27:CF:95:GLU:OE1	27:CF:100:LYS:CG	2.63	0.46
33:CL:26:ARG:C	33:CL:30:TYR:HD1	2.19	0.46
47:CO:96:MET:CE	47:CO:100:ARG:NH2	2.79	0.46
40:CS:117:LEU:HD23	40:CS:120:ARG:CZ	2.46	0.46
1:D1:1150:U:H2'	1:D1:1151:U:O4'	2.16	0.46
1:D1:1205:A:H5'	1:D1:1205:A:C8	2.50	0.46
1:D1:2103:A:H2'	1:D1:2104:C:C6	2.50	0.46
22:CA:236:VAL:HG12	1:D1:2179:U:OP1	2.15	0.46
1:D1:2531:U:C2	1:D1:2532:G:H1'	2.51	0.46
1:D1:2539:A:N3	1:D1:2540:G:C8	2.84	0.46
1:D1:2617:G:H5''	1:D1:2618:C:OP2	2.16	0.46
1:D1:2801:A:N6	1:D1:2802:G:C6	2.83	0.46
1:D1:3230:G:H22	5:DE:142:GLU:CD	2.05	0.46
1:D1:344:G:O6	1:D1:347:A:OP1	2.33	0.46
1:D1:453:A:H61	1:D1:524:G:H2'	1.77	0.46
1:D1:738:U:O2'	1:D1:739:G:H5'	2.13	0.46
1:D1:825:G:N2	1:D1:826:A:C2	2.84	0.46
22:CA:12:ARG:HH11	1:D1:935:G:H5'	1.79	0.46
7:DG:13:LYS:CD	7:DG:100:ILE:HD13	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DH:13:ARG:CG	8:DH:15:TRP:CE3	2.92	0.46
13:DN:4:PHE:HB3	13:DN:9:ARG:HH21	1.77	0.46
15:DP:15:TRP:CH2	15:DP:67:ALA:O	2.69	0.46
16:DQ:83:THR:HG22	16:DQ:86:ARG:H	1.80	0.46
1:D1:745:A:C4'	17:DT:58:ASN:HD21	2.29	0.46
19:DX:134:THR:HG22	19:DX:134:THR:O	2.16	0.46
21:E3:11:A:C8	34:EM:18:THR:CB	2.96	0.46
22:EA:243:ARG:HG3	22:EA:244:THR:H	1.81	0.46
22:EA:46:ILE:HD12	22:EA:87:GLN:HB3	1.96	0.46
22:EA:25:ILE:HG13	22:EA:52:GLU:HG3	1.97	0.46
23:EB:121:ASN:HD21	23:EB:124:ASN:HD22	1.63	0.46
23:EB:172:LYS:HA	23:EB:172:LYS:HD2	1.46	0.46
23:EB:303:ILE:O	23:EB:305:PRO:HD3	2.16	0.46
24:EC:173:VAL:O	24:EC:177:LYS:HG3	2.16	0.46
24:EC:300:ASN:OD1	1:F1:1375:A:O2'	2.34	0.46
33:EL:26:ARG:CZ	33:EL:43:SER:OG	2.63	0.46
21:E3:116:A:C4'	34:EM:260:ARG:NH2	2.78	0.46
34:EM:34:LYS:HE3	37:EP:30:TYR:CE1	2.50	0.46
24:EC:34:ARG:CZ	35:EN:24:ASN:CB	2.94	0.46
39:ER:100:LYS:N	39:ER:101:PRO:HD2	2.30	0.46
39:ER:111:TYR:HD2	39:ER:143:LEU:HD11	1.80	0.46
39:ER:74:PRO:HB3	39:ER:149:LEU:HD11	1.97	0.46
44:EW:32:ILE:CD1	1:F1:1485:C:H5'	2.45	0.46
45:EX:98:ILE:C	45:EX:123:ASN:HD21	2.19	0.46
1:F1:1037:A:H2'	1:F1:1038:G:H8	1.80	0.46
1:F1:1040:A:C2'	1:F1:1041:C:H6	2.29	0.46
1:F1:1107:A:C4	1:F1:1108:A:C8	3.03	0.46
1:F1:1318:A:N6	1:F1:1319:C:C4	2.84	0.46
1:F1:1371:G:H8	1:F1:1371:G:H5'	1.80	0.46
1:F1:1647:U:H2'	1:F1:1648:G:O4'	2.16	0.46
1:F1:1845:U:H3	11:FL:69:ARG:HG3	1.80	0.46
27:EF:36:GLN:HB3	1:F1:2519:A:H61	1.81	0.46
1:F1:2599:G:H2'	1:F1:2600:U:O4'	2.16	0.46
1:F1:3008:U:H6	1:F1:3008:U:O5'	1.98	0.46
23:EB:220:LYS:HD2	1:F1:3036:U:C5'	2.45	0.46
1:F1:3205:A:O2'	1:F1:3206:A:OP2	2.31	0.46
1:F1:368:A:H4'	1:F1:369:U:OP1	2.15	0.46
1:F1:452:U:HO2'	1:F1:453:A:H8	1.62	0.46
1:F1:497:G:H2'	1:F1:498:A:H5'	1.96	0.46
1:F1:555:G:C3'	1:F1:556:A:H5''	2.45	0.46
1:F1:655:A:H2'	1:F1:656:C:C5	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:689:A:H2'	1:F1:690:U:H6	1.81	0.46
1:F1:8:U:H2'	1:F1:9:G:O4'	2.15	0.46
6:FF:81:LEU:HA	6:FF:81:LEU:HD12	1.80	0.46
12:FM:16:GLY:HA2	12:FM:67:VAL:O	2.16	0.46
13:FN:87:VAL:HG12	13:FN:90:LEU:HB2	1.95	0.46
18:FU:123:LEU:CD2	18:FU:135:LEU:O	2.64	0.46
19:FX:134:THR:O	19:FX:134:THR:HG22	2.16	0.46
20:G2:71:G:H2'	20:G2:72:C:H6	1.80	0.46
22:GA:3:ARG:HB3	22:GA:208:VAL:O	2.15	0.46
24:GC:147:HIS:CD2	24:GC:254:ARG:HA	2.51	0.46
26:GE:43:VAL:O	1:H1:3168:A:O2'	2.33	0.46
31:GJ:32:ASN:HD21	31:GJ:117:GLN:N	2.14	0.46
34:GM:131:ASN:HB3	34:GM:133:ASP:OD1	2.15	0.46
34:GM:201:LYS:HA	34:GM:204:ILE:HG13	1.98	0.46
34:GM:39:GLN:HG2	34:GM:40:ASP:H	1.79	0.46
35:GN:114:ILE:O	35:GN:119:GLY:HA3	2.16	0.46
35:GN:62:PRO:O	35:GN:142:ALA:HB1	2.16	0.46
38:GQ:21:ALA:HB2	38:GQ:96:LEU:HD21	1.98	0.46
40:GS:111:ASP:C	40:GS:111:ASP:OD1	2.53	0.46
40:GS:120:ARG:O	40:GS:123:ALA:HB3	2.15	0.46
45:GX:4:LYS:HD2	45:GX:92:ARG:NE	2.29	0.46
1:H1:1054:G:C2	1:H1:1055:A:C6	3.03	0.46
1:H1:105:A:H2'	1:H1:106:A:O4'	2.15	0.46
1:H1:1158:G:C4	1:H1:2368:A:C2	3.03	0.46
1:H1:1461:A:H5''	1:H1:1462:U:C5'	2.42	0.46
1:H1:1661:A:H4'	13:HN:15:GLN:HG3	1.96	0.46
1:H1:1819:C:H4'	1:H1:1820:U:OP2	2.12	0.46
1:H1:1843:U:C2	1:H1:1844:U:C5	3.04	0.46
1:H1:213:A:N6	1:H1:227:G:C2'	2.78	0.46
1:H1:2249:U:C4	1:H1:2250:A:C5	3.04	0.46
1:H1:2432:G:C6	1:H1:2506:G:C5	3.04	0.46
1:H1:2521:A:N1	1:H1:2522:A:C6	2.84	0.46
27:GF:233:LYS:NZ	1:H1:2577:G:OP1	2.36	0.46
1:H1:2927:G:O2'	1:H1:2928:A:H5'	2.16	0.46
1:H1:3064:A:H2'	1:H1:3065:C:C6	2.50	0.46
1:H1:3182:A:N6	6:HF:115:LYS:HD2	2.30	0.46
1:A1:2253:U:H3	1:H1:873:A:H5''	1.80	0.46
46:GY:12:ARG:HG3	1:H1:883:A:H2	1.79	0.46
4:HC:100:ALA:O	4:HC:104:LYS:HG3	2.16	0.46
8:HH:48:VAL:HG11	8:HH:87:ALA:HB2	1.97	0.46
9:HJ:128:ILE:O	9:HJ:132:THR:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:35:TYR:CZ	9:HJ:50:HIS:CE1	3.04	0.46
1:H1:1681:C:OP1	11:HL:40:ASN:ND2	2.48	0.46
13:HN:87:VAL:HG12	13:HN:90:LEU:HB2	1.95	0.46
14:HO:5:VAL:CG1	14:HO:43:THR:HG23	2.45	0.46
19:HX:93:LEU:HD11	19:HX:120:LEU:CD1	2.30	0.46
1:A1:1114:C:C2'	1:A1:1115:U:C5'	2.92	0.46
1:A1:111:C:C2'	1:A1:112:A:H5'	2.43	0.46
1:A1:111:C:O2	1:A1:111:C:C2'	2.64	0.46
1:A1:1211:A:C2	1:A1:1350:G:C4	3.04	0.46
1:A1:1598:C:C3'	1:A1:1599:G:H5'	2.45	0.46
1:A1:1693:U:H2'	1:A1:1694:C:H6	1.81	0.46
1:A1:1793:A:C2'	1:A1:1794:G:H5'	2.45	0.46
1:A1:2270:A:H2'	1:A1:2270:A:N3	2.28	0.46
1:A1:2517:G:C4'	1:A1:2518:A:OP1	2.58	0.46
1:A1:2669:A:C3'	1:A1:2670:U:C6	2.99	0.46
1:A1:2:U:O5'	1:A1:2:U:H6	1.98	0.46
1:A1:3068:U:H3'	1:A1:3069:G:H5''	1.98	0.46
1:A1:3101:G:O2'	26:BE:70:SER:HB3	2.14	0.46
1:A1:3101:G:O6	1:A1:3109:C:H5'	2.16	0.46
1:A1:3229:C:N3	5:AE:57:ARG:HG3	2.30	0.46
1:A1:3331:C:C4'	1:A1:3332:A:H5''	2.46	0.46
1:A1:820:G:H2'	1:A1:821:U:C5'	2.45	0.46
1:A1:827:C:O2'	1:A1:828:C:H5'	2.16	0.46
1:A1:987:A:H2	50:A1:3949:HOH:O	1.99	0.46
2:AA:21:ARG:NH1	2:AA:44:MET:CE	2.79	0.46
2:AA:4:GLY:C	2:AA:6:PRO:CD	2.84	0.46
9:AJ:71:LEU:HB3	9:AJ:97:ILE:CD1	2.44	0.46
15:AP:15:TRP:CH2	15:AP:67:ALA:O	2.68	0.46
23:BB:49:PHE:CD2	23:BB:333:VAL:HG12	2.50	0.46
1:A1:828:C:H5'	24:BC:107:PHE:CE1	2.50	0.46
24:BC:369:HIS:ND1	43:BV:68:LYS:NZ	2.61	0.46
26:BE:67:VAL:O	26:BE:71:ILE:HG13	2.15	0.46
30:BI:159:ARG:HB2	30:BI:162:ARG:CZ	2.45	0.46
30:BI:55:GLU:O	30:BI:59:LYS:HE2	2.16	0.46
33:BL:160:GLU:HG2	33:BL:161:LEU:HG	1.96	0.46
34:BM:136:GLN:CB	34:BM:141:PRO:HD3	2.45	0.46
1:A1:1599:G:C5'	39:BR:43:LEU:CD1	2.94	0.46
43:BV:37:ARG:O	43:BV:38:LYS:C	2.54	0.46
46:BY:57:CYS:SG	46:BY:59:PRO:CD	3.04	0.46
46:BY:8:VAL:O	46:BY:11:THR:HB	2.16	0.46
20:C2:33:C:O2'	20:C2:34:G:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C3:95:U:H2'	21:C3:96:U:H6	1.79	0.46
23:CB:117:ARG:NH1	23:CB:173:LYS:HG2	2.30	0.46
31:CJ:27:MET:HB2	31:CJ:102:ASN:O	2.16	0.46
34:CM:99:TYR:CG	34:CM:204:ILE:HG23	2.51	0.46
34:CM:82:GLU:OE1	34:CM:104:LEU:CD2	2.64	0.46
34:CM:17:GLN:HE22	37:CP:22:LYS:N	2.14	0.46
43:CV:166:VAL:CG1	43:CV:175:ILE:HG22	2.46	0.46
44:CW:75:CYS:O	44:CW:90:THR:HG23	2.15	0.46
45:CX:73:PHE:HE1	45:CX:120:ARG:HH11	1.63	0.46
1:D1:1685:A:H2'	1:D1:1686:G:C8	2.51	0.46
1:D1:1570:U:H4'	1:D1:2164:C:O4'	2.14	0.46
1:D1:169:A:P	1:D1:249:G:N2	2.89	0.46
1:D1:2504:U:H2'	1:D1:2505:U:C6	2.51	0.46
33:CL:172:ARG:HD3	1:D1:28:G:H5''	1.97	0.46
1:D1:3059:A:N7	50:D1:4509:HOH:O	2.36	0.46
1:D1:3061:A:C2'	1:D1:3062:A:H5'	2.46	0.46
1:D1:3166:A:H2'	1:D1:3167:U:C6	2.51	0.46
1:D1:470:C:O2'	1:D1:471:A:H5'	2.16	0.46
1:D1:567:C:N4	1:D1:603:A:C2	2.84	0.46
1:D1:730:A:H4'	1:D1:731:A:OP1	2.15	0.46
5:DE:180:LEU:HD21	5:DE:186:PRO:HG3	1.97	0.46
8:DH:57:VAL:HG12	8:DH:58:TYR:N	2.31	0.46
14:DO:9:VAL:HG12	14:DO:13:ASN:CB	2.46	0.46
1:D1:2727:A:H5''	17:DT:36:ASN:HB2	1.98	0.46
19:DX:113:LEU:HD11	19:DX:140:THR:CG2	2.42	0.46
19:DX:167:LYS:HA	19:DX:188:THR:HG22	1.93	0.46
19:DX:57:TYR:O	19:DX:60:ARG:HG2	2.15	0.46
21:E3:43:A:C5	21:E3:44:C:C4	3.03	0.46
22:EA:136:THR:HB	22:EA:150:ARG:HB3	1.97	0.46
22:EA:42:ILE:CD1	22:EA:43:ARG:H	2.18	0.46
23:EB:62:ARG:CZ	1:F1:3027:U:OP1	2.64	0.46
24:EC:129:VAL:O	24:EC:132:ALA:HB3	2.15	0.46
24:EC:166:TYR:HD1	24:EC:171:GLN:CG	2.28	0.46
27:EF:45:VAL:HB	27:EF:47:TRP:CE2	2.50	0.46
27:EF:66:VAL:HB	27:EF:226:GLY:O	2.15	0.46
30:EI:109:THR:HG22	1:F1:3206:A:H2'	1.96	0.46
30:EI:177:ARG:HA	30:EI:180:GLU:HG2	1.98	0.46
30:EI:91:THR:HG22	30:EI:93:LYS:N	2.31	0.46
32:EK:114:GLY:O	1:F1:740:A:H5'	2.15	0.46
32:EK:148:THR:HG22	32:EK:149:ALA:H	1.76	0.46
33:EL:14:LYS:HZ1	1:F1:268:G:C4'	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:242:SER:OG	34:EM:245:LYS:HG2	2.16	0.46
34:EM:83:LEU:CB	34:EM:88:VAL:CG2	2.91	0.46
35:EN:36:PHE:CZ	1:F1:1375:A:H2'	2.50	0.46
37:EP:21:THR:HG22	37:EP:21:THR:O	2.15	0.46
38:EQ:49:TYR:HD1	38:EQ:58:ARG:NH1	2.14	0.46
39:ER:75:LEU:HB2	39:ER:91:VAL:HB	1.98	0.46
42:EU:41:THR:H	42:EU:44:LYS:HD2	1.81	0.46
45:EX:6:VAL:HG23	45:EX:92:ARG:O	2.15	0.46
46:EY:55:TRP:CZ2	46:EY:70:GLU:C	2.89	0.46
1:F1:1026:C:O2'	1:F1:1027:G:P	2.74	0.46
21:E3:103:U:H4'	1:F1:1027:G:H1	1.79	0.46
1:F1:1252:A:O2'	1:F1:1253:G:H5'	2.15	0.46
1:F1:1663:C:O2'	1:F1:1664:G:H5'	2.14	0.46
1:F1:1667:A:C2'	1:F1:1668:A:O5'	2.63	0.46
1:F1:1734:A:OP1	13:FN:79:HIS:HE1	1.98	0.46
1:F1:187:A:O2'	1:F1:188:A:H5'	2.14	0.46
1:F1:2106:G:HO2'	1:F1:2107:A:P	2.39	0.46
1:F1:3011:G:N2	1:F1:3020:G:C5	2.83	0.46
1:F1:3175:A:N3	1:F1:3175:A:H3'	2.31	0.46
1:F1:64:A:N6	1:F1:66:C:C2	2.83	0.46
1:F1:68:A:C2	1:F1:69:A:N3	2.84	0.46
1:F1:766:G:C2'	1:F1:767:C:OP2	2.62	0.46
32:EK:24:LYS:CD	1:F1:967:U:O4	2.63	0.46
5:FE:51:LEU:HB3	5:FE:95:THR:CG2	2.45	0.46
9:FJ:46:ILE:HG22	9:FJ:47:PRO:O	2.16	0.46
13:FN:101:LYS:CA	13:FN:106:ALA:HB3	2.46	0.46
15:FP:33:VAL:HG22	15:FP:42:PHE:CD2	2.50	0.46
19:FX:131:GLN:O	19:FX:134:THR:HB	2.16	0.46
23:GB:250:ILE:HG13	23:GB:264:ARG:NH2	2.22	0.46
24:GC:161:ASP:OD1	24:GC:260:GLU:HB2	2.16	0.46
24:GC:55:VAL:CG1	1:H1:345:C:OP1	2.63	0.46
26:GE:75:ILE:O	26:GE:76:LYS:C	2.54	0.46
27:GF:196:VAL:CG1	27:GF:197:ARG:N	2.78	0.46
27:GF:45:VAL:HG12	27:GF:46:ARG:N	2.30	0.46
29:GH:75:ASN:HB3	29:GH:151:ALA:HB2	1.97	0.46
29:GH:50:VAL:HG12	29:GH:152:LEU:HD12	1.97	0.46
30:GI:181:LEU:HG	30:GI:190:LYS:HE3	1.97	0.46
32:GK:8:THR:CG2	1:H1:685:G:H5'	2.46	0.46
33:GL:68:ARG:HH21	33:GL:123:GLN:HG3	1.81	0.46
1:H1:1647:U:H2'	1:H1:1648:G:O4'	2.15	0.46
1:H1:2378:A:C2'	1:H1:2379:A:O5'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2796:A:C8	1:H1:2943:U:H4'	2.51	0.46
1:H1:528:C:H2'	1:H1:529:G:C8	2.51	0.46
24:GC:319:ARG:NH2	1:H1:634:G:C6	2.84	0.46
2:HA:71:ILE:O	2:HA:75:ALA:HB2	2.14	0.46
3:HB:33:THR:HG22	3:HB:35:ILE:N	2.05	0.46
7:HG:35:ARG:HH12	13:HN:78:ASN:N	2.14	0.46
8:HH:15:TRP:CH2	8:HH:105:ARG:NH2	2.84	0.46
1:H1:3097:G:P	10:HK:112:LYS:HZ1	2.39	0.46
11:HL:21:ARG:HG2	11:HL:22:LYS:N	2.31	0.46
1:A1:1002:A:OP2	35:BN:141:ARG:NH1	2.49	0.46
1:A1:1178:U:H3'	1:A1:1179:G:C8	2.51	0.46
1:A1:1404:G:H5'	1:A1:1434:G:HO2'	1.80	0.46
1:A1:164:A:C6	1:A1:256:A:C5	3.03	0.46
1:A1:2378:A:C2'	1:A1:2379:A:O5'	2.63	0.46
1:A1:2666:G:O6	25:BD:57:PHE:HE1	1.99	0.46
1:A1:2795:U:O3'	1:A1:2796:A:H3'	2.16	0.46
1:A1:2800:C:O2'	1:A1:2801:A:H5'	2.16	0.46
1:A1:2:U:N3	20:B2:153:A:N6	2.63	0.46
1:A1:765:A:C6	1:A1:766:G:C2	3.04	0.46
5:AE:187:HIS:CD2	8:AH:47:ASP:HB3	2.51	0.46
5:AE:41:LEU:CD1	5:AE:45:ILE:HG21	2.44	0.46
9:AJ:157:ARG:O	9:AJ:180:PRO:HD2	2.16	0.46
9:AJ:58:ILE:HD13	31:BJ:127:ALA:CB	2.39	0.46
13:AN:115:LYS:O	13:AN:119:VAL:HG23	2.15	0.46
18:AU:154:VAL:N	18:AU:155:PRO:HD3	2.31	0.46
21:B3:33:U:C5	34:BM:212:TYR:CE1	3.03	0.46
23:BB:140:LYS:O	23:BB:144:LEU:HG	2.16	0.46
23:BB:220:LYS:HG2	23:BB:329:PRO:CD	2.45	0.46
23:BB:24:HIS:CE1	23:BB:28:ARG:CD	2.96	0.46
23:BB:281:TYR:OH	23:BB:323:LYS:HD2	2.16	0.46
24:BC:7:ILE:CD1	24:BC:156:PRO:HD2	2.46	0.46
24:BC:157:TYR:CE1	24:BC:159:PHE:CZ	3.04	0.46
24:BC:269:ILE:HG22	24:BC:270:PHE:CD1	2.51	0.46
24:BC:44:ASP:N	24:BC:44:ASP:OD1	2.49	0.46
27:BF:171:ALA:HB2	27:BF:211:PHE:CD1	2.50	0.46
30:BI:181:LEU:HG	30:BI:190:LYS:HE3	1.97	0.46
31:BJ:87:ARG:HD2	31:BJ:88:PRO:CD	2.44	0.46
18:AU:173:ARG:HH21	32:BK:142:GLY:CA	2.25	0.46
34:BM:160:PHE:HA	34:BM:163:LEU:HB2	1.98	0.46
36:BO:145:SER:OG	36:BO:150:ILE:CD1	2.63	0.46
37:BP:11:THR:HG23	37:BP:15:PHE:CG	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:2:G:O2'	20:C2:3:A:P	2.74	0.46
20:C2:63:U:O4	42:CU:63:ASN:ND2	2.48	0.46
23:CB:86:ILE:HG12	23:CB:158:VAL:HG11	1.97	0.46
24:CC:7:ILE:CD1	24:CC:156:PRO:HD2	2.46	0.46
24:CC:380:PHE:CE1	19:DX:78:ILE:HD11	2.51	0.46
28:CG:15:UNK:CG	28:CG:65:UNK:CA	2.75	0.46
30:CI:184:PRO:HA	30:CI:187:LYS:HE2	1.98	0.46
30:CI:99:GLU:HG2	30:CI:99:GLU:O	2.16	0.46
32:CK:79:LYS:HG2	32:CK:79:LYS:H	1.59	0.46
33:CL:37:HIS:NE2	33:CL:63:ARG:HD2	2.30	0.46
33:CL:98:LEU:O	33:CL:101:CYS:HB2	2.15	0.46
47:CO:173:UNK:HG2	29:EH:144:HIS:HE1	1.81	0.46
37:CP:116:LYS:HZ1	37:CP:128:THR:CB	2.16	0.46
38:CQ:141:TYR:CZ	1:D1:2350:G:H4'	2.50	0.46
39:CR:141:LEU:O	39:CR:144:ALA:HB3	2.16	0.46
40:CS:30:MET:HE3	40:CS:77:TRP:HA	1.98	0.46
1:D1:146:U:C4'	1:D1:147:U:O5'	2.54	0.46
1:D1:1964:G:H2'	1:D1:1965:C:O4'	2.15	0.46
1:D1:2499:U:H2'	1:D1:2500:C:H6	1.80	0.46
1:D1:2946:A:N6	50:D1:4280:HOH:O	2.44	0.46
1:D1:2960:G:N7	50:D1:3746:HOH:O	2.49	0.46
1:D1:3204:A:H1'	1:D1:3207:A:H5''	1.98	0.46
1:D1:3232:A:N6	1:D1:3233:A:C2	2.84	0.46
1:D1:555:G:H2'	1:D1:556:A:C5'	2.29	0.46
1:D1:555:G:C3'	1:D1:556:A:H5''	2.45	0.46
1:D1:632:G:C6	1:D1:633:C:C4	3.03	0.46
32:CK:136:ARG:NH1	1:D1:741:G:N3	2.58	0.46
1:D1:870:G:N2	1:D1:874:C:C4	2.84	0.46
1:D1:907:A:P	50:D1:4249:HOH:O	2.74	0.46
5:DE:128:ASN:OD1	5:DE:130:PHE:N	2.49	0.46
5:DE:54:LEU:CD2	8:DH:14:LEU:HD13	2.45	0.46
12:DM:13:VAL:O	12:DM:70:THR:HA	2.15	0.46
13:DN:54:THR:CG2	13:DN:56:ARG:H	2.26	0.46
20:E2:3:A:C2	1:F1:3243:A:C4'	2.98	0.46
21:E3:11:A:C2'	21:E3:12:U:H5''	2.45	0.46
22:EA:20:HIS:ND1	1:F1:848:C:C5'	2.79	0.46
23:EB:17:ARG:HA	23:EB:18:PRO:C	2.36	0.46
24:EC:7:ILE:HD13	24:EC:156:PRO:HD2	1.96	0.46
24:EC:157:TYR:CE1	24:EC:179:VAL:CG1	2.98	0.46
24:EC:242:ASN:C	24:EC:244:LEU:N	2.65	0.46
24:EC:28:VAL:HG11	24:EC:133:LEU:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:EF:171:ALA:HB2	27:EF:211:PHE:CD1	2.50	0.46
28:EG:23:UNK:HB1	28:EG:87:UNK:HB2	1.97	0.46
30:EI:165:THR:O	30:EI:166:TYR:C	2.53	0.46
30:EI:7:VAL:HG22	30:EI:33:VAL:HB	1.98	0.46
32:EK:46:LEU:HD12	18:FU:1:MET:HG2	1.97	0.46
33:EL:112:GLU:H	33:EL:112:GLU:CD	2.19	0.46
35:EN:89:ASN:ND2	35:EN:109:THR:HG22	2.25	0.46
31:EJ:100:GLU:OE2	41:ET:26:LYS:HG3	2.15	0.46
43:EV:216:HIS:O	43:EV:222:GLY:HA3	2.16	0.46
1:F1:1040:A:C8	1:F1:1041:C:C6	3.04	0.46
1:F1:1322:G:H2'	1:F1:1323:C:C6	2.51	0.46
1:F1:1815:G:H2'	1:F1:1816:A:H8	1.80	0.46
1:F1:1845:U:H5'	1:F1:1846:C:OP2	2.16	0.46
1:F1:1966:U:C2'	1:F1:1967:C:O5'	2.64	0.46
1:F1:2148:A:H2'	1:F1:2149:U:C6	2.51	0.46
1:F1:269:U:HO2'	1:F1:317:A:H1'	1.78	0.46
1:F1:2715:C:H6	1:F1:2715:C:O5'	1.99	0.46
1:F1:2862:G:HO2'	1:F1:2863:U:H5	1.57	0.46
1:F1:2873:C:N4	1:F1:2874:U:O4	2.49	0.46
1:F1:3005:A:H2'	1:F1:3006:A:C8	2.51	0.46
1:F1:3068:U:O2'	1:F1:3070:C:OP2	2.32	0.46
1:F1:3228:U:C3'	1:F1:3229:C:C5'	2.93	0.46
1:F1:549:G:N1	1:F1:619:G:N2	2.63	0.46
1:F1:615:G:H2'	1:F1:616:A:H8	1.80	0.46
35:EN:107:THR:HG21	1:F1:700:G:H3'	1.98	0.46
1:F1:703:U:H2'	1:F1:704:G:C8	2.51	0.46
22:EA:12:ARG:NH1	1:F1:935:G:H5'	2.31	0.46
5:FE:122:ALA:CB	5:FE:132:ALA:HB1	2.46	0.46
9:FJ:197:LEU:HD12	9:FJ:205:PHE:O	2.15	0.46
9:FJ:58:ILE:O	9:FJ:59:VAL:C	2.53	0.46
12:FM:23:GLN:HB3	12:FM:109:TYR:HE1	1.81	0.46
1:F1:511:U:OP1	14:FO:70:VAL:HB	2.16	0.46
18:FU:77:GLU:HG3	18:FU:101:ASN:HD21	1.81	0.46
19:FX:25:ALA:CB	19:FX:71:ARG:O	2.57	0.46
19:FX:92:VAL:O	19:FX:138:ILE:N	2.43	0.46
19:FX:96:GLN:HB3	19:FX:134:THR:CG2	2.46	0.46
20:G2:112:G:C4'	20:G2:113:U:OP1	2.50	0.46
21:G3:64:A:H2'	21:G3:64:A:N3	2.31	0.46
22:GA:42:ILE:CD1	22:GA:43:ARG:H	2.17	0.46
24:GC:356:GLN:O	24:GC:360:LYS:HG2	2.16	0.46
24:GC:41:VAL:HG12	24:GC:45:LEU:CD1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:GF:219:ASP:HB3	27:GF:223:LYS:HE3	1.97	0.46
31:GJ:91:ARG:HD2	31:GJ:97:ILE:CD1	2.45	0.46
33:GL:36:ILE:HD11	33:GL:105:ARG:HB3	1.96	0.46
33:GL:112:GLU:H	33:GL:112:GLU:CD	2.19	0.46
33:GL:33:LEU:HB3	33:GL:34:PRO:HD2	1.98	0.46
34:GM:66:TYR:CZ	34:GM:73:ARG:HB2	2.51	0.46
24:GC:298:ILE:HD12	35:GN:125:ASP:HB2	1.97	0.46
35:GN:174:PHE:C	35:GN:176:ARG:H	2.19	0.46
37:GP:42:ILE:CD1	37:GP:91:VAL:HG21	2.45	0.46
40:GS:51:LYS:O	40:GS:51:LYS:HG3	2.15	0.46
39:GR:147:ILE:CG2	42:GU:34:ILE:HD13	2.46	0.46
46:GY:8:VAL:CG2	1:H1:1951:G:OP1	2.64	0.46
1:H1:1041:C:O2	1:H1:1041:C:C2'	2.63	0.46
1:H1:1211:A:C2	1:H1:1350:G:C4	3.03	0.46
1:H1:1397:G:C2'	1:H1:1398:G:H5'	2.45	0.46
1:H1:1462:U:O5'	1:H1:1463:C:H5''	2.15	0.46
1:H1:1466:G:H2'	1:H1:1467:G:H8	1.81	0.46
1:H1:165:C:H5''	18:HU:132:LYS:HZ2	1.78	0.46
1:H1:2113:A:H2'	1:H1:2114:C:O4'	2.16	0.46
1:H1:2256:G:C2	1:H1:2257:A:C8	3.04	0.46
1:H1:2411:U:H4'	1:H1:2955:A:O4'	2.15	0.46
1:H1:2561:A:N3	1:H1:2563:U:C6	2.84	0.46
1:H1:3061:A:C2'	1:H1:3062:A:H5'	2.46	0.46
23:GB:100:ARG:NE	1:H1:3135:A:H4'	2.30	0.46
1:H1:3298:U:C1'	1:H1:3299:G:P	3.04	0.46
1:H1:445:C:N4	50:H1:4466:HOH:O	2.47	0.46
1:H1:504:A:O2'	1:H1:505:A:C8	2.62	0.46
1:H1:591:G:H8	1:H1:591:G:H5'	1.81	0.46
1:H1:703:U:H2'	1:H1:704:G:H8	1.81	0.46
5:HE:63:VAL:HG13	5:HE:78:GLY:N	2.31	0.46
11:HL:56:ILE:HG23	11:HL:71:ALA:O	2.16	0.46
12:HM:97:VAL:HG22	12:HM:107:LEU:CD2	2.46	0.46
15:HP:43:LYS:CD	15:HP:52:THR:HG23	2.34	0.46
19:HX:19:ARG:HG3	19:HX:21:TYR:OH	2.15	0.46
1:A1:1035:A:C5'	1:A1:1035:A:H8	2.25	0.46
1:A1:1221:G:C6	1:A1:1222:A:N6	2.84	0.46
1:A1:122:U:O2'	1:A1:123:C:H5'	2.16	0.46
1:A1:125:G:C6	1:A1:142:A:C6	3.03	0.46
1:A1:1394:G:HO2'	1:A1:1395:U:P	2.38	0.46
1:A1:1490:G:N2	1:A1:1493:A:H5'	2.29	0.46
1:A1:1742:G:OP1	36:BO:118:HIS:CD2	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1964:G:H2'	1:A1:1965:C:O4'	2.16	0.46
1:A1:2255:U:C2'	1:A1:2256:G:C5'	2.94	0.46
1:A1:2509:U:OP1	1:A1:2509:U:H6	1.99	0.46
1:A1:2535:A:H2'	1:A1:2536:A:O4'	2.16	0.46
1:A1:278:U:H2'	1:A1:279:U:H6	1.80	0.46
1:A1:3085:C:H2'	1:A1:3086:U:H6	1.81	0.46
1:A1:312:U:H2'	1:A1:313:U:H6	1.80	0.46
1:A1:470:C:H1'	1:A1:510:A:C2	2.51	0.46
1:A1:511:U:C5'	14:AO:70:VAL:CG2	2.92	0.46
1:A1:665:C:H42	1:A1:669:A:H8	1.62	0.46
1:A1:761:A:O5'	1:A1:761:A:H8	1.99	0.46
5:AE:63:VAL:HG13	5:AE:78:GLY:N	2.31	0.46
8:AH:26:SER:HG	8:AH:29:THR:HB	1.81	0.46
11:AL:23:VAL:O	11:AL:30:LEU:HD12	2.15	0.46
12:AM:110:PHE:O	12:AM:111:ASN:CB	2.63	0.46
1:A1:1654:G:H5'	13:AN:67:SER:OG	2.16	0.46
16:AQ:52:ALA:O	16:AQ:55:GLU:HB2	2.15	0.46
19:AX:36:PRO:HG2	37:BP:141:VAL:HG13	1.98	0.46
14:AO:76:ILE:HD11	24:BC:152:VAL:HG12	1.98	0.46
24:BC:129:VAL:HG13	24:BC:246:LEU:HD12	1.96	0.46
25:BD:17:LEU:CB	25:BD:76:ALA:HB1	2.45	0.46
1:A1:3168:A:O2'	26:BE:43:VAL:O	2.33	0.46
27:BF:196:VAL:CG1	27:BF:197:ARG:N	2.78	0.46
30:BI:109:THR:O	30:BI:110:PRO:C	2.53	0.46
30:BI:160:ARG:O	30:BI:163:ALA:HB3	2.15	0.46
1:A1:268:G:C4'	33:BL:14:LYS:HZ1	2.29	0.46
33:BL:37:HIS:NE2	33:BL:63:ARG:HB2	2.31	0.46
1:A1:148:G:H5''	33:BL:55:ASN:HD22	1.77	0.46
34:BM:175:HIS:HD2	34:BM:180:PHE:CE2	2.33	0.46
21:B3:33:U:C6	34:BM:212:TYR:HE1	2.34	0.46
1:A1:1136:C:H5''	35:BN:152:TRP:CG	2.51	0.46
37:BP:11:THR:CG2	37:BP:15:PHE:CG	2.99	0.46
43:BV:129:PRO:HG2	43:BV:130:PHE:CD2	2.50	0.46
46:BY:10:ILE:HD12	46:BY:30:GLU:HB3	1.97	0.46
21:C3:40:C:O2	21:C3:40:C:C2'	2.64	0.46
21:C3:5:U:O3'	34:CM:54:ARG:HG3	2.16	0.46
21:C3:90:A:C2	29:CH:162:ARG:NH2	2.84	0.46
21:C3:95:U:H2'	21:C3:96:U:C6	2.51	0.46
23:CB:172:LYS:HA	23:CB:172:LYS:HD2	1.46	0.46
23:CB:36:ASP:HA	23:CB:37:PRO:HD2	1.74	0.46
23:CB:33:PRO:CD	23:CB:44:THR:HG23	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:29:U:H5''	24:CC:56:LYS:HD2	1.98	0.46
32:CK:75:VAL:CG2	32:CK:109:PHE:CB	2.93	0.46
34:CM:131:ASN:OD1	34:CM:172:ASN:HA	2.15	0.46
21:C3:11:A:H8	34:CM:18:THR:HG21	1.80	0.46
34:CM:254:ILE:O	34:CM:258:PRO:HB3	2.15	0.46
34:CM:76:CYS:HB3	34:CM:105:LEU:CD1	2.46	0.46
38:CQ:128:ARG:HG2	38:CQ:142:LEU:CD2	2.46	0.46
39:CR:145:ASN:HA	39:CR:150:ILE:HD11	1.97	0.46
42:CU:7:VAL:HG13	42:CU:61:ILE:HD11	1.98	0.46
45:CX:98:ILE:C	45:CX:123:ASN:HD21	2.18	0.46
1:D1:1052:A:O2'	1:D1:1053:A:O5'	2.31	0.46
1:D1:121:A:C6	1:D1:150:A:C6	3.03	0.46
1:D1:1373:G:H2'	1:D1:1374:C:C6	2.43	0.46
24:CC:300:ASN:HB3	1:D1:1376:A:H1'	1.98	0.46
1:D1:1595:A:C6	1:D1:1596:U:H1'	2.49	0.46
1:D1:164:A:C2'	1:D1:165:C:H5'	2.46	0.46
1:D1:1681:C:C4	1:D1:1823:A:H5''	2.51	0.46
44:CW:33:ARG:NH2	1:D1:1906:G:H5''	2.30	0.46
1:D1:2376:A:C2	1:D1:2377:G:C8	3.04	0.46
1:D1:2378:A:C2'	1:D1:2379:A:O5'	2.64	0.46
1:D1:2617:G:H1'	1:D1:2786:C:C2	2.50	0.46
1:D1:2886:G:C3'	1:D1:2886:G:C8	2.99	0.46
1:D1:3006:A:O2'	1:D1:3007:G:H5'	2.15	0.46
1:D1:3021:A:C2	1:D1:3022:A:C4	3.03	0.46
1:D1:3141:U:H5''	1:D1:3252:G:N2	2.31	0.46
1:D1:49:A:C2'	1:D1:50:A:H5'	2.46	0.46
1:D1:632:G:H2'	1:D1:633:C:O4'	2.16	0.46
1:D1:72:A:O3'	18:DU:56:VAL:HG11	2.16	0.46
1:D1:738:U:C2'	1:D1:739:G:H5'	2.46	0.46
1:D1:761:A:O5'	1:D1:761:A:H8	1.99	0.46
1:D1:933:G:C4'	1:D1:934:G:H5''	2.43	0.46
6:DF:21:LYS:HZ2	19:DX:174:GLU:HG2	1.80	0.46
6:DF:34:ASN:C	6:DF:50:ILE:HG13	2.36	0.46
9:DJ:63:THR:HG22	9:DJ:73:PRO:HD3	1.97	0.46
13:DN:101:LYS:CA	13:DN:106:ALA:HB3	2.46	0.46
16:DQ:19:GLU:O	16:DQ:23:GLN:HG3	2.15	0.46
18:DU:76:GLN:HB2	18:DU:101:ASN:HD22	1.81	0.46
19:DX:45:ALA:CA	19:DX:50:HIS:HD2	2.28	0.46
21:E3:54:A:C2'	25:ED:152:GLN:NE2	2.78	0.46
23:EB:220:LYS:HG2	23:EB:329:PRO:CD	2.46	0.46
23:EB:377:PHE:CD2	23:EB:378:PHE:CE1	3.01	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EH:138:VAL:CG2	29:EH:152:LEU:HD11	2.46	0.46
30:EI:109:THR:O	30:EI:110:PRO:C	2.53	0.46
30:EI:99:GLU:HG2	30:EI:99:GLU:O	2.15	0.46
34:EM:44:TYR:CD2	37:EP:34:TYR:O	2.69	0.46
20:E2:7:U:OP1	38:EQ:64:ARG:HG2	2.14	0.46
39:ER:99:THR:O	39:ER:103:ILE:HG13	2.16	0.46
45:EX:113:ARG:O	45:EX:117:LEU:HG	2.16	0.46
1:F1:112:A:H2'	1:F1:113:A:O4'	2.15	0.46
1:F1:125:G:H2'	1:F1:126:A:O4'	2.15	0.46
1:F1:121:A:H61	1:F1:150:A:N6	2.12	0.46
1:F1:1562:G:C6	50:F1:3928:HOH:O	2.67	0.46
1:F1:1598:C:C5	1:F1:1599:G:C5	3.03	0.46
1:F1:1654:G:N3	1:F1:1654:G:C2'	2.75	0.46
1:F1:1666:A:H5'	1:F1:1667:A:OP2	2.16	0.46
1:F1:164:A:C6	1:F1:256:A:C5	3.04	0.46
1:F1:2701:U:H2'	1:F1:2702:U:C6	2.51	0.46
1:F1:3197:A:OP2	1:F1:3213:G:N2	2.44	0.46
1:F1:361:A:C3'	1:F1:362:G:H5''	2.46	0.46
1:F1:619:G:O2'	1:F1:620:A:C2	2.67	0.46
1:F1:632:G:H2'	1:F1:633:C:O4'	2.16	0.46
1:F1:933:G:C4'	1:F1:934:G:H5''	2.41	0.46
1:F1:974:C:H2'	1:F1:975:G:O4'	2.14	0.46
1:F1:2790:A:C4	4:FC:54:PRO:HA	2.50	0.46
5:FE:134:LEU:HD22	5:FE:138:GLN:OE1	2.16	0.46
6:FF:96:ILE:O	6:FF:99:LYS:HB2	2.16	0.46
7:FG:14:LEU:HD21	7:FG:43:PHE:CZ	2.51	0.46
7:FG:60:ALA:O	7:FG:64:GLN:N	2.49	0.46
5:FE:42:ARG:NH1	8:FH:111:ASN:ND2	2.62	0.46
9:FJ:128:ILE:O	9:FJ:132:THR:HB	2.16	0.46
13:FN:95:GLU:O	13:FN:98:LYS:HE2	2.15	0.46
16:FQ:6:ALA:O	16:FQ:7:VAL:CB	2.58	0.46
21:G3:22:A:C6	21:G3:23:A:C6	3.04	0.46
22:GA:31:ARG:HB3	22:GA:37:GLU:OE2	2.15	0.46
23:GB:186:VAL:O	23:GB:190:VAL:HG23	2.16	0.46
24:GC:89:THR:HG22	24:GC:91:ARG:HB3	1.98	0.46
25:GD:117:ASP:H	25:GD:120:THR:HB	1.81	0.46
35:GN:122:LEU:HA	35:GN:126:GLN:OE1	2.15	0.46
20:G2:39:G:N3	42:GU:90:ARG:NH1	2.63	0.46
43:GV:81:ALA:HB3	43:GV:114:PHE:CZ	2.50	0.46
44:GW:14:ASN:O	44:GW:18:GLN:HG2	2.15	0.46
46:GY:12:ARG:HG2	1:H1:861:A:H4'	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GY:55:TRP:CD1	46:GY:66:GLY:HA3	2.51	0.46
1:H1:1048:U:C2'	1:H1:1049:U:C5'	2.92	0.46
1:H1:1148:U:H2'	1:H1:1149:U:H6	1.79	0.46
1:H1:1252:A:O2'	1:H1:1253:G:H5'	2.15	0.46
40:GS:36:LYS:NZ	1:H1:190:U:OP1	2.48	0.46
1:H1:1019:G:N3	1:H1:2626:A:H2'	2.31	0.46
1:H1:2879:U:O2'	1:H1:3003:U:H5'	2.15	0.46
1:H1:2939:G:H21	1:H1:2940:G:H1'	1.80	0.46
1:H1:2954:G:O2'	1:H1:2955:A:H5'	2.15	0.46
1:H1:398:G:O2'	1:H1:399:A:C8	2.67	0.46
1:H1:401:U:O2	1:H1:401:U:H2'	2.16	0.46
30:GI:193:LEU:HD21	6:HF:114:LEU:CB	2.46	0.46
8:HH:91:PHE:N	8:HH:91:PHE:HD1	2.14	0.46
23:EB:376:LYS:HZ1	9:HJ:41:GLU:C	2.19	0.46
18:HU:17:GLN:HG3	18:HU:17:GLN:H	1.25	0.46
1:A1:1012:U:H1'	43:BV:123:MET:CG	2.46	0.46
1:A1:1252:A:O2'	1:A1:1253:G:H5'	2.15	0.46
1:A1:1411:U:O4	24:BC:207:LYS:NZ	2.37	0.46
1:A1:146:U:O2	27:BF:127:TYR:HE1	1.99	0.46
1:A1:1647:U:H2'	1:A1:1648:G:O4'	2.16	0.46
1:A1:1732:C:H1'	11:AL:54:ASN:HD21	1.81	0.46
1:A1:189:G:OP2	40:BS:45:ARG:NH2	2.48	0.46
1:A1:2237:A:OP1	22:BA:243:ARG:NH2	2.47	0.46
1:A1:2292:U:O2'	1:A1:2908:U:H4'	2.16	0.46
1:A1:2343:A:C3'	1:A1:2344:U:C5'	2.90	0.46
1:A1:2595:G:H4'	1:A1:2596:G:OP1	2.16	0.46
1:A1:2933:G:C4'	1:A1:2934:A:OP1	2.57	0.46
1:A1:3122:C:H2'	1:A1:3123:A:O4'	2.16	0.46
1:A1:585:A:C5	1:A1:586:A:C5	3.03	0.46
1:A1:619:G:O2'	1:A1:620:A:C2	2.67	0.46
1:A1:64:A:N6	1:A1:66:C:C2	2.84	0.46
1:A1:655:A:H2'	1:A1:656:C:C5	2.49	0.46
1:A1:70:C:C4	1:A1:72:A:C4	3.04	0.46
5:AE:69:LEU:HD21	5:AE:114:ASP:HA	1.96	0.46
5:AE:98:THR:HG21	5:AE:173:TYR:OH	2.16	0.46
9:AJ:112:ASP:H	9:AJ:156:ASN:ND2	2.10	0.46
9:AJ:211:THR:O	9:AJ:215:ILE:HG13	2.16	0.46
16:AQ:5:GLN:O	16:AQ:12:GLY:CA	2.64	0.46
18:AU:123:LEU:HD11	42:BU:118:ARG:HD2	1.98	0.46
6:AF:45:ARG:HH11	19:AX:84:ASN:HB3	1.81	0.46
20:B2:17:U:H5''	20:B2:18:G:OP2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BA:68:TYR:C	22:BA:69:ARG:HG2	2.36	0.46
23:BB:114:THR:CG2	23:BB:115:LYS:N	2.78	0.46
23:BB:235:HIS:O	23:BB:235:HIS:CD2	2.69	0.46
24:BC:41:VAL:HG12	24:BC:45:LEU:HD12	1.98	0.46
27:BF:66:VAL:HB	27:BF:226:GLY:O	2.15	0.46
30:BI:177:ARG:HA	30:BI:180:GLU:HG2	1.97	0.46
34:BM:131:ASN:OD1	34:BM:172:ASN:HA	2.16	0.46
38:BQ:122:ASN:HB2	38:BQ:147:HIS:HB2	1.98	0.46
39:BR:94:VAL:HG21	39:BR:130:ALA:HB2	1.98	0.46
39:BR:145:ASN:HD22	39:BR:150:ILE:HD11	1.81	0.46
40:BS:24:HIS:NE2	40:BS:25:LEU:HG	2.30	0.46
43:BV:134:GLY:HA3	43:BV:231:ILE:HB	1.97	0.46
24:BC:320:LYS:HB2	43:BV:159:PRO:HB3	1.98	0.46
45:BX:65:THR:HA	45:BX:68:LEU:HD12	1.98	0.46
14:AO:19:ASN:ND2	45:BX:77:LEU:H	2.00	0.46
46:BY:72:THR:HG22	46:BY:77:VAL:CG2	2.46	0.46
20:C2:130:C:H4'	39:CR:102:GLN:NE2	2.30	0.46
23:CB:110:ILE:CG2	23:CB:114:THR:HG21	2.46	0.46
25:CD:12:VAL:O	25:CD:12:VAL:HG23	2.15	0.46
25:CD:25:GLU:O	25:CD:30:LEU:HD11	2.15	0.46
27:CF:126:LYS:NZ	27:CF:194:THR:HG1	2.07	0.46
30:CI:165:THR:O	30:CI:166:TYR:C	2.53	0.46
33:CL:192:TRP:CZ2	33:CL:196:GLN:HG3	2.51	0.46
35:CN:158:GLN:CD	50:CN:306:HOH:O	2.53	0.46
38:CQ:126:LYS:HE2	38:CQ:144:SER:HB3	1.97	0.46
38:CQ:24:LEU:HB2	38:CQ:146:CYS:HB2	1.98	0.46
40:CS:105:LEU:HD23	40:CS:105:LEU:HA	1.75	0.46
45:CX:4:LYS:HD2	45:CX:92:ARG:NE	2.31	0.46
45:CX:62:ASP:CB	1:D1:1365:C:O3'	2.57	0.46
1:D1:1591:A:O2'	1:D1:1592:G:H5'	2.15	0.46
1:D1:1683:U:H2'	1:D1:1684:C:C6	2.51	0.46
1:D1:2250:A:H4'	1:D1:2251:A:C8	2.50	0.46
1:D1:2284:U:O2'	1:D1:2285:C:H5'	2.15	0.46
1:D1:2535:A:H2'	1:D1:2536:A:O4'	2.15	0.46
1:D1:2569:A:O2'	1:D1:2570:U:OP1	2.23	0.46
1:D1:2640:G:OP1	1:D1:2641:U:H1'	2.16	0.46
1:D1:2715:C:H3'	1:D1:2717:G:N2	2.31	0.46
1:D1:2890:A:H2'	1:D1:2891:A:O4'	2.16	0.46
1:D1:3141:U:OP1	1:D1:3253:U:H1'	2.16	0.46
1:D1:3303:G:H2'	1:D1:3304:U:C6	2.50	0.46
1:D1:904:U:O2'	1:D1:905:G:OP1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:940:A:N3	1:D1:940:A:C2'	2.79	0.46
5:DE:98:THR:HG21	5:DE:173:TYR:OH	2.16	0.46
5:DE:56:GLY:O	5:DE:59:ARG:N	2.32	0.46
8:DH:47:ASP:OD1	8:DH:47:ASP:N	2.49	0.46
9:DJ:118:HIS:HD2	9:DJ:120:ASP:O	1.98	0.46
19:DX:93:LEU:HD11	19:DX:120:LEU:CD1	2.28	0.46
22:EA:188:HIS:O	22:EA:191:ALA:HB3	2.16	0.46
22:EA:31:ARG:CB	22:EA:37:GLU:OE2	2.64	0.46
22:EA:43:ARG:HD2	22:EA:88:TYR:CD1	2.51	0.46
23:EB:93:ILE:CD1	23:EB:102:LEU:HD22	2.43	0.46
23:EB:46:PHE:HD1	23:EB:206:ILE:HD12	1.81	0.46
23:EB:56:ILE:HD11	23:EB:321:MET:CE	2.46	0.46
24:EC:310:VAL:HG12	24:EC:311:ALA:N	2.31	0.46
24:EC:89:THR:HG22	24:EC:91:ARG:HB3	1.97	0.46
27:EF:95:GLU:OE1	27:EF:100:LYS:CG	2.63	0.46
31:EJ:85:GLN:HA	31:EJ:102:ASN:ND2	2.29	0.46
34:EM:99:TYR:CG	34:EM:204:ILE:HG23	2.51	0.46
36:EO:76:THR:HG22	36:EO:81:ARG:HH21	1.81	0.46
40:ES:21:SER:CB	40:ES:26:ARG:HG2	2.45	0.46
1:F1:1019:G:N3	1:F1:2626:A:H2'	2.31	0.46
1:F1:1051:C:H2'	1:F1:1052:A:C1'	2.45	0.46
1:F1:1045:G:C6	1:F1:1060:C:N3	2.84	0.46
1:F1:1072:A:H5''	1:F1:1073:A:OP2	2.16	0.46
1:F1:1348:G:C2'	1:F1:1349:U:O5'	2.64	0.46
1:F1:1385:C:O2'	1:F1:1386:U:H5'	2.16	0.46
1:F1:1462:U:O5'	1:F1:1463:C:H5''	2.15	0.46
1:F1:1475:A:C2	1:F1:2351:A:C5	3.04	0.46
39:ER:77:THR:HG21	1:F1:1546:G:O3'	2.16	0.46
1:F1:155:A:H1'	16:FQ:27:ALA:CB	2.46	0.46
22:EA:203:VAL:HG23	1:F1:2180:G:OP1	2.15	0.46
1:F1:2539:A:N3	1:F1:2540:G:C8	2.83	0.46
1:F1:2784:G:H4'	1:F1:2786:C:C6	2.51	0.46
1:F1:3097:G:C2'	1:F1:3098:A:O5'	2.63	0.46
1:F1:3122:C:H2'	1:F1:3123:A:O4'	2.16	0.46
1:F1:3191:G:O2'	1:F1:3192:C:P	2.74	0.46
1:F1:469:U:O2	1:F1:469:U:H2'	2.16	0.46
1:F1:481:C:O2'	1:F1:482:G:H5'	2.16	0.46
1:F1:49:A:O2'	1:F1:50:A:H5'	2.15	0.46
1:F1:564:A:C2'	1:F1:564:A:N3	2.74	0.46
1:F1:624:G:O2'	1:F1:625:C:C6	2.69	0.46
1:F1:738:U:C2'	1:F1:739:G:H5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:58:PHE:CG	5:FE:85:VAL:HG22	2.50	0.46
8:FH:26:SER:O	8:FH:27:LYS:C	2.53	0.46
9:FJ:63:THR:HG22	9:FJ:73:PRO:HD3	1.98	0.46
12:FM:55:ASN:ND2	12:FM:71:ILE:HD11	2.28	0.46
14:FO:52:GLY:HA3	14:FO:118:ASN:ND2	2.27	0.46
37:EP:88:ARG:HH22	17:FT:30:ILE:HG22	1.80	0.46
18:FU:166:VAL:HG12	18:FU:167:SER:N	2.30	0.46
22:GA:3:ARG:HG2	22:GA:4:VAL:H	1.80	0.46
22:GA:68:TYR:C	22:GA:69:ARG:CG	2.84	0.46
25:GD:107:GLN:HG2	25:GD:108:GLU:H	1.79	0.46
33:GL:188:ARG:HH21	1:H1:279:U:H4'	1.81	0.46
35:GN:53:LEU:C	35:GN:60:LYS:NZ	2.69	0.46
37:GP:76:VAL:HG12	37:GP:77:HIS:H	1.81	0.46
38:GQ:77:GLU:HB2	38:GQ:78:PHE:CD2	2.51	0.46
43:GV:132:THR:HG21	43:GV:227:ARG:HD2	1.97	0.46
46:GY:10:ILE:CD1	46:GY:30:GLU:HB3	2.45	0.46
1:H1:1036:G:H22	1:H1:1066:A:H2	1.64	0.46
1:H1:112:A:H2'	1:H1:113:A:O4'	2.16	0.46
39:GR:43:LEU:CD1	1:H1:1599:G:C5'	2.94	0.46
1:H1:19:A:O5'	1:H1:19:A:H8	1.99	0.46
1:H1:2795:U:O3'	1:H1:2796:A:H3'	2.16	0.46
1:H1:2844:G:H2'	1:H1:2845:C:H6	1.81	0.46
1:H1:2889:G:N2	1:H1:3019:G:O2'	2.49	0.46
1:H1:3061:A:H2'	1:H1:3062:A:H5'	1.98	0.46
1:H1:3068:U:H3'	1:H1:3069:G:H5''	1.98	0.46
1:H1:3085:C:H2'	1:H1:3086:U:H6	1.81	0.46
30:GI:166:TYR:CD2	1:H1:3162:A:C6	3.04	0.46
1:H1:3234:U:O4	1:H1:3236:C:C6	2.68	0.46
1:H1:579:G:HO2'	19:HX:158:ASN:HA	1.81	0.46
1:H1:79:C:H2'	1:H1:80:C:H5'	1.98	0.46
1:H1:866:A:C8	1:H1:866:A:C5'	2.98	0.46
32:GK:36:LYS:CB	1:H1:94:A:OP2	2.59	0.46
2:HA:62:THR:HG22	2:HA:63:GLY:H	1.80	0.46
20:G2:114:G:N2	3:HB:11:LYS:NZ	2.64	0.46
1:H1:1518:G:O3'	3:HB:48:LYS:HD2	2.15	0.46
7:HG:52:ARG:O	7:HG:56:ILE:HG13	2.16	0.46
8:HH:97:PRO:O	8:HH:100:ILE:HG13	2.16	0.46
8:HH:18:ALA:HB2	8:HH:39:LEU:HD22	1.98	0.46
14:HO:114:PHE:O	14:HO:117:ALA:HB3	2.15	0.46
19:HX:156:MET:HE2	19:HX:161:LEU:CD2	2.45	0.46
1:A1:105:A:H2'	1:A1:106:A:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:997:G:H4'	1:A1:1399:A:O2'	2.16	0.46
1:A1:1591:A:O2'	1:A1:1592:G:H5'	2.16	0.46
1:A1:915:C:O2'	1:A1:2319:A:N3	2.39	0.46
1:A1:2353:C:H5''	1:A1:2354:C:OP2	2.16	0.46
1:A1:2383:U:H5''	1:A1:2383:U:H6	1.80	0.46
1:A1:2557:A:C2	1:A1:2564:G:C5	3.04	0.46
1:A1:2617:G:H1'	1:A1:2786:C:C2	2.51	0.46
1:A1:2700:A:O2'	1:A1:2733:C:H5''	2.16	0.46
1:A1:2888:A:O2'	1:A1:2889:G:H5'	2.16	0.46
1:A1:3144:G:C2	1:A1:3249:U:C2	3.03	0.46
1:A1:3256:A:H2	1:A1:3349:U:C2	2.34	0.46
1:A1:3261:U:O2'	23:BB:170:ARG:NH2	2.48	0.46
1:A1:3312:C:H2'	1:A1:3313:C:C6	2.51	0.46
1:A1:401:U:O2	1:A1:401:U:H2'	2.16	0.46
1:A1:585:A:C6	1:A1:586:A:C5	3.04	0.46
1:A1:640:G:H2'	1:A1:641:U:C6	2.51	0.46
5:AE:11:GLY:HA2	5:AE:14:LYS:HE3	1.98	0.46
5:AE:179:THR:HG22	5:AE:180:LEU:N	2.30	0.46
5:AE:185:ARG:HB3	5:AE:187:HIS:CE1	2.51	0.46
1:A1:1880:C:O2'	11:AL:7:TYR:HE1	1.99	0.46
18:AU:76:GLN:HB2	18:AU:101:ASN:HD22	1.81	0.46
19:AX:134:THR:CG2	19:AX:134:THR:O	2.64	0.46
22:BA:256:ALA:CB	22:GA:253:GLU:CD	2.85	0.46
22:BA:3:ARG:HB2	22:BA:208:VAL:HG12	1.97	0.46
24:BC:153:GLN:OE1	24:BC:153:GLN:HA	2.16	0.46
24:BC:42:PHE:CD1	24:BC:244:LEU:HD23	2.51	0.46
1:A1:1372:A:N3	24:BC:314:THR:CG2	2.79	0.46
26:BE:19:THR:HB	26:BE:26:GLU:HB2	1.97	0.46
27:BF:127:TYR:O	27:BF:127:TYR:CD1	2.69	0.46
27:BF:136:ILE:HD13	27:BF:163:CYS:SG	2.56	0.46
29:BH:58:GLU:CD	29:BH:160:PRO:HB2	2.36	0.46
30:BI:136:LYS:HG3	30:BI:139:ASP:OD2	2.16	0.46
30:BI:30:GLN:HG3	30:BI:32:ILE:CD1	2.46	0.46
32:BK:117:ARG:HH11	32:BK:137:ARG:CZ	2.28	0.46
35:BN:3:ILE:HG23	43:BV:107:GLN:HB3	1.98	0.46
38:BQ:62:PHE:HE1	38:BQ:84:ARG:HB2	1.81	0.46
39:BR:124:ILE:H	39:BR:124:ILE:HG13	1.45	0.46
20:C2:28:G:N7	40:CS:12:ARG:NH2	2.64	0.46
20:C2:3:A:C5'	20:C2:4:A:OP2	2.64	0.46
21:C3:43:A:C5	21:C3:44:C:C4	3.03	0.46
24:CC:143:PHE:CE1	24:CC:149:ILE:HB	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:299:ILE:HD12	1:D1:1375:A:C2	2.51	0.46
24:CC:316:THR:O	24:CC:317:HIS:CD2	2.68	0.46
26:CE:45:ILE:HG23	26:CE:55:LEU:HD21	1.98	0.46
27:CF:50:TYR:CD1	27:CF:51:ILE:HG23	2.51	0.46
29:CH:15:LYS:NZ	1:D1:2624:A:P	2.89	0.46
21:C3:63:A:C8	29:CH:206:LEU:CD2	2.99	0.46
32:CK:59:GLY:HA3	1:D1:734:A:H1'	1.98	0.46
34:CM:119:TYR:CE1	34:CM:132:VAL:HG11	2.48	0.46
34:CM:99:TYR:CG	34:CM:204:ILE:CG2	2.99	0.46
35:CN:31:ILE:CG2	35:CN:35:LYS:HE3	2.46	0.46
35:CN:89:ASN:C	35:CN:89:ASN:OD1	2.54	0.46
39:CR:94:VAL:HG21	39:CR:103:ILE:HD13	1.98	0.46
43:CV:160:LEU:HD23	43:CV:160:LEU:HA	1.76	0.46
22:CA:85:SER:HB3	46:CY:63:ILE:HB	1.98	0.46
46:CY:8:VAL:O	46:CY:11:THR:HB	2.15	0.46
1:D1:1227:A:HO2'	1:D1:1228:C:P	2.39	0.46
1:D1:1337:G:H8	50:D1:4382:HOH:O	1.99	0.46
43:CV:109:HIS:HD2	1:D1:1360:C:O2'	1.99	0.46
1:D1:146:U:HO2'	1:D1:147:U:P	2.39	0.46
1:D1:1638:A:OP1	15:DP:50:LEU:N	2.49	0.46
1:D1:1666:A:H5'	1:D1:1667:A:OP2	2.16	0.46
1:D1:2130:G:N2	1:D1:2143:A:H1'	2.31	0.46
23:CB:245:ARG:NH2	1:D1:2336:A:OP2	2.49	0.46
1:D1:2683:A:C5'	1:D1:2684:A:OP2	2.64	0.46
1:D1:2844:G:H2'	1:D1:2845:C:H6	1.81	0.46
1:D1:2902:G:O2'	1:D1:2922:A:N1	2.39	0.46
1:D1:2992:G:C2	1:D1:2993:C:C6	3.04	0.46
1:D1:637:U:C2	1:D1:638:U:C5	3.04	0.46
24:CC:240:ARG:CZ	1:D1:712:G:H4'	2.47	0.46
1:D1:701:A:N6	1:D1:811:A:O4'	2.48	0.46
24:CC:40:LYS:HZ3	1:D1:815:U:H1'	1.80	0.46
8:DH:39:LEU:CD2	8:DH:106:VAL:HG21	2.46	0.46
13:DN:26:VAL:HG22	13:DN:93:PHE:HB3	1.98	0.46
13:DN:83:THR:CG2	13:DN:85:TYR:HD2	2.29	0.46
1:D1:292:C:O2'	16:DQ:80:ARG:HA	2.15	0.46
1:D1:73:G:C5'	18:DU:56:VAL:HG11	2.46	0.46
20:E2:134:C:H6	20:E2:134:C:H3'	1.81	0.46
22:EA:32:VAL:HA	22:EA:124:ARG:NH1	2.31	0.46
23:EB:86:ILE:CD1	23:EB:196:LEU:HD13	2.46	0.46
23:EB:218:VAL:HB	23:EB:332:ARG:NE	2.30	0.46
23:EB:277:ASN:HD21	23:EB:343:GLN:NE2	2.08	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:EI:184:PRO:HA	30:EI:187:LYS:HE2	1.98	0.46
33:EL:14:LYS:NZ	33:EL:120:TRP:CZ3	2.84	0.46
34:EM:213:MET:H	34:EM:213:MET:HG2	1.48	0.46
37:EP:27:ILE:CA	37:EP:30:TYR:HD2	2.22	0.46
39:ER:90:MET:HE2	39:ER:90:MET:HB3	1.41	0.46
39:ER:147:ILE:HG22	42:EU:34:ILE:HG21	1.98	0.46
43:EV:107:GLN:HG2	43:EV:110:ASN:ND2	2.30	0.46
46:EY:74:PRO:N	46:EY:75:PRO:CD	2.79	0.46
1:F1:1063:C:C4	1:F1:1064:C:C5	3.03	0.46
1:F1:126:A:C5	1:F1:139:A:C6	3.04	0.46
1:F1:137:A:C6	1:F1:138:C:C4	3.04	0.46
1:F1:1414:C:N3	1:F1:1415:C:C5	2.84	0.46
1:F1:1428:G:H2'	1:F1:1429:C:H6	1.81	0.46
1:F1:144:A:C2'	1:F1:145:A:H5'	2.46	0.46
1:F1:1505:C:C3'	1:F1:1506:G:H5'	2.46	0.46
1:F1:1521:U:H1'	3:FB:44:TRP:CZ2	2.51	0.46
1:F1:1589:G:C5	1:F1:1605:G:C2	3.04	0.46
1:F1:2194:G:O2'	1:F1:2195:U:H5'	2.15	0.46
1:F1:222:A:C6	1:F1:223:C:C4	3.04	0.46
1:F1:2300:G:O5'	1:F1:2300:G:C8	2.68	0.46
24:EC:74:THR:HG22	1:F1:2397:A:H5''	1.98	0.46
1:F1:2719:A:H2'	1:F1:2720:G:C8	2.48	0.46
23:EB:272:HIS:CD2	1:F1:3127:U:OP1	2.58	0.46
1:F1:3331:C:C4'	1:F1:3332:A:H5''	2.46	0.46
1:F1:550:G:C5	1:F1:551:U:C5	3.04	0.46
1:F1:591:G:H5'	1:F1:591:G:H8	1.81	0.46
1:F1:832:A:H3'	1:F1:833:A:H5''	1.97	0.46
3:FB:12:ARG:O	3:FB:15:ARG:HB3	2.15	0.46
5:FE:180:LEU:HD21	5:FE:186:PRO:HG3	1.98	0.46
7:FG:15:ALA:O	7:FG:19:ARG:HG3	2.16	0.46
8:FH:11:PRO:CG	8:FH:12:THR:N	2.78	0.46
13:FN:111:ARG:O	13:FN:115:LYS:HG3	2.16	0.46
16:FQ:83:THR:O	16:FQ:84:HIS:C	2.54	0.46
18:FU:166:VAL:O	18:FU:169:ILE:N	2.49	0.46
19:FX:34:THR:CG2	19:FX:35:LYS:N	2.79	0.46
19:FX:58:ASN:HD21	19:FX:136:GLN:NE2	2.14	0.46
19:FX:55:PHE:CZ	19:FX:59:MET:CE	2.99	0.46
23:GB:54:THR:CG2	23:GB:358:ASP:HB3	2.46	0.46
24:GC:195:ARG:NH1	24:GC:204:ARG:HB2	2.30	0.46
21:G3:39:U:H4'	25:GD:44:GLU:HB3	1.98	0.46
25:GD:9:MET:O	25:GD:134:PRO:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:G2:153:A:OP1	27:GF:79:LYS:HE3	2.16	0.46
29:GH:34:TYR:HB2	1:H1:1034:U:O2'	2.16	0.46
30:GI:11:LYS:O	30:GI:13:HIS:CD2	2.68	0.46
30:GI:35:VAL:CG1	30:GI:107:ILE:HG12	2.45	0.46
24:GC:34:ARG:NE	35:GN:24:ASN:HB2	2.31	0.46
39:GR:113:VAL:HG13	39:GR:138:SER:CB	2.46	0.46
39:GR:150:ILE:H	39:GR:150:ILE:CD1	2.19	0.46
39:GR:84:MET:HG2	39:GR:89:THR:O	2.15	0.46
42:GU:44:LYS:O	42:GU:47:ARG:HB2	2.16	0.46
43:GV:114:PHE:CZ	43:GV:124:ILE:HD11	2.50	0.46
44:GW:81:GLU:HA	44:GW:81:GLU:OE1	2.16	0.46
1:H1:1028:A:H2	1:H1:1076:U:O2'	1.98	0.46
1:H1:1249:G:H2'	1:H1:1312:G:H22	1.80	0.46
1:H1:1318:A:H2'	1:H1:1319:C:H5''	1.97	0.46
1:H1:1322:G:H2'	1:H1:1323:C:C6	2.51	0.46
1:H1:1352:U:H2'	1:H1:1353:G:C8	2.51	0.46
1:H1:1540:U:C5	1:H1:1865:A:N3	2.84	0.46
1:H1:2240:C:H2'	1:H1:2241:G:O5'	2.16	0.46
1:H1:186:U:C2	1:H1:230:G:O6	2.69	0.46
22:GA:71:LYS:NZ	1:H1:2517:G:O6	2.47	0.46
1:H1:2517:G:C4'	1:H1:2518:A:OP1	2.58	0.46
1:H1:2650:U:H2'	1:H1:2651:A:C8	2.51	0.46
1:H1:2690:U:H5'	1:H1:2694:A:N6	2.30	0.46
1:H1:3183:A:H4'	1:H1:3184:A:OP1	2.16	0.46
23:GB:119:TYR:HE1	1:H1:3255:A:H5'	1.80	0.46
1:H1:641:U:O4'	1:H1:3233:A:N6	2.48	0.46
4:HC:19:THR:HG22	4:HC:20:ASN:N	2.30	0.46
5:HE:136:GLU:OE1	5:HE:139:LYS:HD2	2.16	0.46
6:HF:28:VAL:CG1	6:HF:66:ASN:H	2.26	0.46
14:HO:27:ASP:OD2	14:HO:42:PHE:HD1	1.98	0.46
18:HU:154:VAL:N	18:HU:155:PRO:HD3	2.31	0.46
18:HU:58:LYS:HB2	18:HU:63:TYR:CB	2.43	0.46
1:A1:1039:G:N2	1:A1:1064:C:N3	2.64	0.45
1:A1:1334:G:N3	1:A1:1335:A:C2	2.83	0.45
1:A1:1385:C:O2'	1:A1:1386:U:H5'	2.16	0.45
1:A1:1413:G:O2'	45:BX:80:ASN:HB3	2.15	0.45
1:A1:1685:A:H2'	1:A1:1686:G:C8	2.51	0.45
1:A1:1919:A:C8	1:A1:1919:A:H5'	2.49	0.45
1:A1:199:A:C4	1:A1:201:A:C8	3.05	0.45
1:A1:2369:C:C2'	1:A1:2369:C:O2	2.63	0.45
1:A1:2377:G:H2'	1:A1:2378:A:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2432:G:H2'	1:A1:2433:A:O4'	2.16	0.45
1:A1:2769:U:H2'	1:A1:2770:U:O4'	2.16	0.45
1:A1:2815:U:O2'	1:A1:2817:U:O4	2.33	0.45
1:A1:3036:U:C4	1:A1:3037:A:N6	2.84	0.45
1:A1:481:C:O2'	1:A1:482:G:H5'	2.16	0.45
1:A1:727:C:H2'	1:A1:728:G:H8	1.82	0.45
1:A1:831:A:H2'	1:A1:832:A:C8	2.51	0.45
9:AJ:97:ILE:HD12	9:AJ:104:LEU:CD1	2.45	0.45
9:AJ:159:GLY:O	9:AJ:221:ILE:HD13	2.15	0.45
9:AJ:58:ILE:O	9:AJ:59:VAL:C	2.53	0.45
12:AM:43:ILE:HG21	12:AM:56:ILE:HD13	1.97	0.45
13:AN:122:TYR:O	13:AN:125:ILE:HG13	2.16	0.45
13:AN:54:THR:HG22	13:AN:55:LYS:N	2.32	0.45
15:AP:39:ILE:HG23	15:AP:55:THR:O	2.16	0.45
19:AX:44:PHE:CD1	19:AX:137:ILE:HD11	2.50	0.45
19:AX:167:LYS:HE2	30:BI:125:VAL:HG12	1.97	0.45
19:AX:188:THR:O	19:AX:189:PHE:CB	2.64	0.45
22:BA:203:VAL:HA	22:BA:213:GLY:HA2	1.98	0.45
23:BB:68:ASN:O	23:BB:70:LYS:HG3	2.16	0.45
29:BH:201:GLY:O	29:BH:208:ARG:NH2	2.49	0.45
29:BH:42:THR:HG23	29:BH:192:THR:CG2	2.44	0.45
30:BI:156:GLU:HA	30:BI:156:GLU:OE1	2.15	0.45
33:BL:64:VAL:CG2	33:BL:106:VAL:CG2	2.94	0.45
33:BL:136:ASP:HA	33:BL:137:PRO:HD2	1.78	0.45
34:BM:283:THR:HG22	34:BM:285:ALA:N	2.29	0.45
35:BN:38:VAL:HG13	35:BN:47:GLN:HG2	1.98	0.45
36:BO:41:ILE:O	36:BO:44:LEU:HB2	2.16	0.45
36:BO:96:MET:CE	36:BO:100:ARG:NH2	2.79	0.45
39:BR:69:SER:O	39:BR:95:HIS:HB2	2.17	0.45
42:BU:78:SER:O	42:BU:79:LEU:HB2	2.16	0.45
45:BX:22:PHE:CD2	45:BX:23:GLU:HG3	2.52	0.45
46:BY:21:SER:O	46:BY:25:VAL:HG23	2.16	0.45
23:CB:257:ARG:HD3	30:CI:63:HIS:CE1	2.51	0.45
27:CF:127:TYR:CD1	27:CF:127:TYR:O	2.68	0.45
27:CF:237:LYS:O	27:CF:241:LEU:HG	2.15	0.45
29:CH:58:GLU:OE2	29:CH:160:PRO:HB2	2.17	0.45
30:CI:91:THR:HG22	30:CI:93:LYS:H	1.81	0.45
35:CN:53:LEU:C	35:CN:60:LYS:NZ	2.70	0.45
38:CQ:39:LYS:HE2	38:CQ:119:GLY:N	2.30	0.45
33:CL:147:ARG:HE	42:CU:105:LEU:HD21	1.81	0.45
46:CY:10:ILE:O	46:CY:13:LYS:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1046:G:H2'	1:D1:1047:G:O4'	2.16	0.45
1:D1:1065:U:H2'	1:D1:1066:A:H8	1.80	0.45
1:D1:1222:A:C2	1:D1:1336:U:C2	3.04	0.45
43:CV:12:LYS:NZ	1:D1:1376:A:H3'	2.31	0.45
39:CR:124:ILE:HD13	1:D1:1520:U:C4	2.52	0.45
1:D1:1667:A:C2'	1:D1:1668:A:O5'	2.64	0.45
1:D1:2123:U:O2'	1:D1:2124:C:H5'	2.16	0.45
1:D1:2187:C:H2'	1:D1:2188:U:C5'	2.46	0.45
24:CC:77:ALA:N	1:D1:2397:A:OP2	2.49	0.45
1:D1:2434:A:C2	1:D1:2504:U:C2	3.04	0.45
1:D1:2715:C:H3'	1:D1:2717:G:H21	1.81	0.45
1:D1:3019:G:C5	1:D1:3020:G:C5	3.04	0.45
1:D1:312:U:H2'	1:D1:313:U:H6	1.81	0.45
1:D1:3175:A:C2	1:D1:3177:G:C6	3.04	0.45
1:D1:3183:A:H4'	1:D1:3184:A:OP1	2.16	0.45
30:CI:155:LEU:HD13	1:D1:3205:A:C8	2.51	0.45
1:D1:3298:U:C1'	1:D1:3299:G:P	3.04	0.45
1:D1:608:C:H2'	1:D1:609:A:O5'	2.15	0.45
1:D1:683:G:H2'	1:D1:684:A:N7	2.31	0.45
1:D1:89:G:H1'	1:D1:93:A:N6	2.31	0.45
2:DA:59:GLY:O	2:DA:62:THR:HB	2.16	0.45
4:DC:93:ASP:O	4:DC:97:ILE:HG13	2.15	0.45
7:DG:43:PHE:CD1	7:DG:68:HIS:HD2	2.33	0.45
8:DH:57:VAL:HG22	8:DH:74:TRP:CE3	2.51	0.45
9:DJ:4:ARG:HA	9:DJ:206:CYS:O	2.16	0.45
12:DM:23:GLN:HB3	12:DM:109:TYR:HE1	1.80	0.45
13:DN:111:ARG:O	13:DN:115:LYS:HG3	2.16	0.45
14:DO:27:ASP:OD2	14:DO:42:PHE:HD1	1.98	0.45
18:DU:177:VAL:O	18:DU:180:ILE:HB	2.16	0.45
21:E3:10:C:N3	34:EM:20:TYR:CD1	2.83	0.45
22:EA:208:VAL:HG21	1:F1:941:G:C5	2.50	0.45
22:EA:33:TYR:CD1	22:EA:164:ARG:NH2	2.83	0.45
24:EC:125:LYS:HD3	1:F1:719:C:OP1	2.15	0.45
24:EC:164:GLU:OE1	24:EC:218:ASN:HB2	2.17	0.45
24:EC:258:TRP:HZ3	24:EC:266:LEU:HD21	1.79	0.45
24:EC:303:GLU:N	24:EC:303:GLU:OE1	2.41	0.45
25:ED:94:LYS:O	1:F1:2661:G:H5''	2.16	0.45
27:EF:232:GLN:O	27:EF:233:LYS:C	2.53	0.45
31:EJ:91:ARG:HD2	31:EJ:97:ILE:CD1	2.45	0.45
32:EK:121:GLN:HA	32:EK:122:PRO:HD3	1.61	0.45
33:EL:120:TRP:CE2	33:EL:122:GLY:CA	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:160:GLU:HG2	33:EL:161:LEU:HG	1.97	0.45
35:EN:25:VAL:CG1	14:FO:7:GLU:HB2	2.46	0.45
37:EP:42:ILE:HG23	37:EP:57:TYR:O	2.16	0.45
40:ES:55:VAL:CG1	40:ES:56:LEU:N	2.79	0.45
45:EX:105:GLN:HG3	45:EX:106:VAL:N	2.31	0.45
45:EX:80:ASN:HB2	45:EX:81:PRO:CD	2.35	0.45
1:F1:1053:A:H1'	1:F1:1054:G:P	2.57	0.45
1:F1:1178:U:H3'	1:F1:1179:G:C8	2.51	0.45
1:F1:1186:A:O2'	1:F1:1187:C:P	2.72	0.45
1:F1:1233:G:C2'	1:F1:1234:G:H5'	2.46	0.45
1:F1:1474:U:C5	1:F1:2350:G:N2	2.84	0.45
40:ES:125:LEU:HD21	1:F1:186:U:O3'	2.16	0.45
1:F1:1907:A:H2'	1:F1:1908:A:H8	1.80	0.45
1:F1:2261:U:H2'	1:F1:2262:C:C6	2.50	0.45
1:F1:186:U:C2	1:F1:230:G:O6	2.69	0.45
1:F1:2393:A:C2	1:F1:2394:A:C4	3.04	0.45
1:F1:2902:G:O2'	1:F1:2922:A:N1	2.37	0.45
1:F1:449:G:C4	1:F1:450:C:C5	3.04	0.45
1:F1:467:A:C5	1:F1:468:A:C5	3.04	0.45
1:F1:528:C:H6	1:F1:528:C:C5'	2.27	0.45
1:F1:726:G:C5	1:F1:727:C:C4	3.04	0.45
1:F1:761:A:H8	1:F1:761:A:O5'	1.99	0.45
1:F1:77:A:C2	1:F1:324:A:N3	2.84	0.45
12:FM:21:CYS:O	12:FM:24:PRO:HD2	2.15	0.45
18:FU:58:LYS:CB	18:FU:63:TYR:HB3	2.46	0.45
22:GA:136:THR:HB	22:GA:150:ARG:HB3	1.98	0.45
22:GA:33:TYR:HD1	22:GA:164:ARG:NH2	2.14	0.45
23:GB:49:PHE:CD2	23:GB:333:VAL:HG12	2.50	0.45
23:GB:54:THR:HG22	23:GB:55:HIS:H	1.72	0.45
24:GC:33:ILE:CD1	24:GC:135:ALA:HA	2.46	0.45
24:GC:164:GLU:HB3	24:GC:221:SER:HB3	1.98	0.45
24:GC:359:LEU:HD21	24:GC:363:ARG:HH21	1.81	0.45
26:GE:88:PHE:HD2	26:GE:152:VAL:HG12	1.81	0.45
26:GE:88:PHE:HD2	26:GE:152:VAL:CG1	2.30	0.45
27:GF:36:GLN:NE2	1:H1:2520:G:N1	2.64	0.45
33:GL:191:ASN:O	33:GL:194:ALA:HB3	2.15	0.45
36:GO:138:LEU:O	36:GO:142:ILE:HG13	2.15	0.45
42:GU:78:SER:O	42:GU:79:LEU:HB2	2.16	0.45
42:GU:7:VAL:HG13	42:GU:61:ILE:HD11	1.97	0.45
43:GV:125:LYS:O	43:GV:128:LEU:HG	2.17	0.45
46:GY:16:THR:HG21	1:H1:2316:A:O2'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:112:A:N1	1:H1:265:A:O2'	2.47	0.45
1:H1:1147:A:H2'	1:H1:1148:U:C6	2.51	0.45
1:H1:1181:A:C5'	1:H1:1182:C:OP2	2.64	0.45
1:H1:1207:A:HO2'	1:H1:1208:U:P	2.31	0.45
1:H1:1505:C:H2'	1:H1:1506:G:H5'	1.98	0.45
1:H1:1573:A:O2'	1:H1:1574:C:H5'	2.15	0.45
1:H1:1598:C:C3'	1:H1:1599:G:H5'	2.45	0.45
22:GA:153:SER:OG	1:H1:2153:G:N7	2.45	0.45
1:H1:2227:A:H2'	1:H1:2228:A:O4'	2.16	0.45
1:H1:2308:A:OP1	50:H1:4239:HOH:O	2.20	0.45
1:H1:2391:G:H5'	1:H1:2392:A:O5'	2.16	0.45
1:H1:170:A:C5	1:H1:250:U:N3	2.84	0.45
1:H1:2605:C:C2'	1:H1:2606:U:H5'	2.47	0.45
1:H1:2902:G:C6	1:H1:2903:U:N3	2.84	0.45
1:H1:3028:A:H2'	1:H1:3029:A:C8	2.51	0.45
1:H1:402:U:H2'	1:H1:403:G:H5'	1.98	0.45
1:H1:451:A:H2'	1:H1:452:U:O4'	2.16	0.45
1:H1:608:C:H2'	1:H1:609:A:O5'	2.16	0.45
1:H1:237:A:H4'	2:HA:87:PRO:O	2.16	0.45
9:HJ:88:LEU:HD12	9:HJ:88:LEU:HA	1.63	0.45
13:HN:9:ARG:HD2	13:HN:83:THR:O	2.14	0.45
18:HU:72:GLY:HA3	18:HU:96:ASP:CB	2.44	0.45
18:HU:74:THR:HB	18:HU:101:ASN:ND2	2.32	0.45
1:A1:1094:G:H5'	37:BP:110:GLN:NE2	2.30	0.45
1:A1:1121:G:O5'	1:A1:1121:G:H8	1.98	0.45
1:A1:1394:G:O2'	1:A1:1395:U:H6	1.98	0.45
1:A1:2221:U:H2'	1:A1:2222:C:C6	2.51	0.45
1:A1:2569:A:HO2'	1:A1:2570:U:P	2.33	0.45
1:A1:2914:A:H2'	1:A1:2915:C:H6	1.81	0.45
1:A1:2921:A:C6	1:A1:2922:A:N1	2.84	0.45
1:A1:3291:G:HO2'	1:A1:3292:U:P	2.28	0.45
1:A1:3292:U:C5	41:BT:52:THR:HB	2.51	0.45
1:A1:439:A:H5''	5:AE:126:HIS:CB	2.46	0.45
1:A1:458:G:H2'	1:A1:459:G:O4'	2.15	0.45
1:A1:684:A:N1	1:A1:966:G:O2'	2.45	0.45
1:A1:78:G:C2	1:A1:79:C:C6	3.04	0.45
1:A1:623:G:H22	5:AE:30:ARG:NH1	2.13	0.45
18:AU:177:VAL:HG12	18:AU:181:ILE:HD11	1.98	0.45
18:AU:177:VAL:O	18:AU:180:ILE:HB	2.16	0.45
20:B2:29:U:O2'	24:BC:54:GLY:O	2.34	0.45
21:B3:70:G:C2	21:B3:71:G:C8	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:304:THR:HG21	23:BB:314:VAL:HA	1.97	0.45
24:BC:108:ALA:O	24:BC:109:PRO:C	2.54	0.45
27:BF:95:GLU:OE1	27:BF:100:LYS:CG	2.64	0.45
28:BG:23:UNK:HB1	28:BG:87:UNK:HB2	1.98	0.45
31:BJ:88:PRO:HA	31:BJ:97:ILE:O	2.17	0.45
31:BJ:91:ARG:HD2	31:BJ:97:ILE:CD1	2.45	0.45
32:BK:129:TYR:N	32:BK:129:TYR:CD1	2.85	0.45
32:BK:15:VAL:HG21	32:BK:21:ARG:HH21	1.81	0.45
34:BM:264:THR:HG22	34:BM:264:THR:O	2.16	0.45
35:BN:27:HIS:CD2	35:BN:31:ILE:HD11	2.50	0.45
35:BN:53:LEU:C	35:BN:60:LYS:NZ	2.69	0.45
43:BV:60:VAL:HG13	43:BV:63:LYS:HZ3	1.80	0.45
20:C2:29:U:O2'	24:CC:54:GLY:O	2.32	0.45
23:CB:54:THR:HG22	23:CB:55:HIS:H	1.71	0.45
24:CC:205:ARG:HB3	24:CC:206:TYR:CD2	2.50	0.45
24:CC:78:VAL:HG12	24:CC:83:ARG:NH2	2.30	0.45
25:CD:7:ASN:C	25:CD:9:MET:N	2.70	0.45
26:CE:110:ILE:HD12	26:CE:159:ILE:HD11	1.98	0.45
34:CM:283:THR:HG22	34:CM:284:ALA:N	2.31	0.45
35:CN:174:PHE:O	35:CN:176:ARG:N	2.49	0.45
47:CO:28:GLU:HB3	47:CO:49:LEU:HD13	1.96	0.45
37:CP:27:ILE:O	37:CP:30:TYR:HB2	2.16	0.45
40:CS:31:SER:HA	40:CS:49:VAL:HG23	1.98	0.45
23:CB:365:HIS:HA	41:CT:19:ARG:NH2	2.31	0.45
43:CV:166:VAL:HG12	43:CV:175:ILE:HG22	1.97	0.45
43:CV:74:VAL:HA	43:CV:75:PRO:HD2	1.83	0.45
1:D1:1065:U:H2'	1:D1:1066:A:C8	2.52	0.45
1:D1:1095:C:C4'	1:D1:1096:G:OP2	2.63	0.45
1:D1:1128:G:H2'	1:D1:1129:C:C6	2.51	0.45
1:D1:1186:A:C2'	1:D1:1186:A:N3	2.75	0.45
1:D1:1221:G:C6	1:D1:1222:A:N6	2.84	0.45
1:D1:1223:U:O2'	1:D1:1224:A:H5'	2.15	0.45
1:D1:1233:G:C2'	1:D1:1234:G:H5'	2.46	0.45
1:D1:1464:U:H2'	1:D1:1465:U:H6	1.81	0.45
1:D1:1533:G:H5''	1:D1:1533:G:C8	2.51	0.45
1:D1:1700:A:P	12:DM:74:SER:HB2	2.56	0.45
47:CO:118:HIS:CD2	1:D1:1742:G:OP1	2.69	0.45
1:D1:1907:A:H2'	1:D1:1908:A:C8	2.51	0.45
1:D1:199:A:N3	1:D1:201:A:C8	2.85	0.45
1:D1:2251:A:O4'	46:EY:74:PRO:HG3	2.15	0.45
1:D1:2303:C:C2'	1:D1:2304:A:OP1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:261:U:H2'	1:D1:262:C:H5'	1.98	0.45
1:D1:2664:C:H6	1:D1:2664:C:O5'	1.99	0.45
1:D1:2398:G:C5'	1:D1:2859:G:H5''	2.47	0.45
23:CB:252:ALA:HB1	1:D1:2931:G:O2'	2.15	0.45
1:D1:3092:A:H2'	1:D1:3093:U:O5'	2.16	0.45
23:CB:121:ASN:HB2	1:D1:3275:A:C5	2.51	0.45
1:D1:33:A:O2'	1:D1:34:C:H5'	2.16	0.45
1:D1:357:G:N2	1:D1:360:A:OP2	2.47	0.45
1:D1:398:G:O2'	1:D1:399:A:C8	2.61	0.45
1:D1:486:C:H2'	1:D1:487:G:H5'	1.98	0.45
1:D1:517:A:C4'	1:D1:518:G:OP2	2.61	0.45
1:D1:636:U:H4'	5:DE:34:LYS:HE2	1.98	0.45
1:D1:838:G:H1'	2:DA:50:TRP:CZ2	2.51	0.45
8:DH:107:MET:HB3	8:DH:109:TYR:CE2	2.51	0.45
1:D1:1845:U:O2	11:DL:69:ARG:HB2	2.15	0.45
12:DM:60:ASN:OD1	12:DM:60:ASN:O	2.33	0.45
13:DN:9:ARG:HD2	13:DN:83:THR:O	2.16	0.45
14:DO:43:THR:HB	14:DO:44:HIS:H	1.62	0.45
16:DQ:68:LYS:HZ2	16:DQ:72:LYS:HG3	1.81	0.45
18:DU:100:LYS:HE3	18:DU:102:ARG:HH21	1.78	0.45
18:DU:166:VAL:O	18:DU:169:ILE:N	2.49	0.45
22:EA:97:ILE:HD11	22:EA:109:PRO:HD3	1.98	0.45
22:EA:30:TYR:HD2	22:EA:124:ARG:C	2.19	0.45
23:EB:121:ASN:HB2	1:F1:3275:A:C5	2.51	0.45
29:EH:44:GLU:CD	29:EH:181:TYR:OH	2.54	0.45
30:EI:181:LEU:HG	30:EI:190:LYS:HE3	1.98	0.45
32:EK:129:TYR:CD1	32:EK:129:TYR:N	2.83	0.45
34:EM:15:ARG:HD3	34:EM:15:ARG:HA	1.83	0.45
40:ES:3:THR:HB	1:F1:229:A:H5''	1.99	0.45
1:F1:1051:C:N1	1:F1:1052:A:C8	2.84	0.45
1:F1:1439:U:H2'	1:F1:1440:A:H8	1.81	0.45
1:F1:1516:A:H3'	50:F1:4258:HOH:O	2.15	0.45
1:F1:1808:A:H2'	1:F1:1809:C:H6	1.81	0.45
1:F1:1963:G:C5	50:F1:4366:HOH:O	2.67	0.45
1:F1:2113:A:H2'	1:F1:2114:C:O4'	2.16	0.45
1:F1:2260:C:H2'	1:F1:2261:U:C6	2.51	0.45
22:EA:71:LYS:NZ	1:F1:2517:G:O6	2.47	0.45
1:F1:2552:A:H2'	1:F1:2553:G:H5'	1.98	0.45
1:F1:2815:U:O2'	1:F1:2817:U:O4	2.34	0.45
1:F1:2844:G:H2'	1:F1:2845:C:H6	1.81	0.45
1:F1:2954:G:O2'	1:F1:2955:A:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2958:C:O2'	1:F1:2959:A:N7	2.43	0.45
1:F1:3198:A:C6	1:F1:3199:G:C6	3.04	0.45
1:F1:3251:C:H5'	1:F1:3251:C:H6	1.81	0.45
44:EW:103:LEU:O	1:F1:3283:C:H4'	2.16	0.45
1:F1:459:G:C5	1:F1:517:A:C6	3.04	0.45
1:F1:561:A:C2'	1:F1:562:G:H5'	2.46	0.45
1:F1:70:C:C5	1:F1:72:A:C4	3.03	0.45
1:F1:768:A:O2'	1:F1:769:G:H5'	2.17	0.45
4:FC:19:THR:HG22	4:FC:20:ASN:O	2.15	0.45
6:FF:28:VAL:CG1	6:FF:66:ASN:N	2.79	0.45
8:FH:54:LYS:CD	8:FH:110:PRO:HG2	2.42	0.45
9:FJ:4:ARG:NE	9:FJ:215:ILE:HD11	2.31	0.45
13:FN:54:THR:CG2	13:FN:56:ARG:H	2.26	0.45
17:FT:12:GLN:OE1	17:FT:12:GLN:HA	2.16	0.45
17:FT:48:LYS:C	17:FT:55:LYS:HZ2	2.20	0.45
19:FX:16:MET:HE1	19:FX:121:ILE:HD12	1.96	0.45
20:G2:107:C:C5	20:G2:135:A:C4	3.05	0.45
20:G2:111:A:H2'	20:G2:112:G:H5''	1.96	0.45
24:GC:260:GLU:OE1	24:GC:264:LYS:HE3	2.16	0.45
24:GC:276:THR:HG23	24:GC:277:GLY:H	1.80	0.45
24:GC:348:ALA:C	24:GC:350:ALA:H	2.19	0.45
30:GI:63:HIS:CD2	30:GI:64:ASN:HB2	2.52	0.45
32:GK:84:VAL:CG1	1:H1:485:A:H2'	2.46	0.45
34:GM:230:LYS:O	34:GM:234:THR:HB	2.16	0.45
37:GP:139:VAL:HG21	19:HX:30:ILE:CD1	2.38	0.45
37:GP:45:ASP:OD1	37:GP:45:ASP:C	2.55	0.45
1:H1:116:U:H3'	1:H1:117:G:C8	2.51	0.45
1:H1:131:G:C6	1:H1:133:C:H1'	2.51	0.45
1:H1:1361:U:C5'	1:H1:1361:U:C6	2.92	0.45
1:H1:2385:A:O4'	1:H1:3267:A:C6	2.69	0.45
1:H1:2990:U:O2'	1:H1:2991:U:H5'	2.16	0.45
1:H1:3000:A:H4'	1:H1:3001:A:H4'	1.96	0.45
1:H1:3205:A:O2'	1:H1:3206:A:OP2	2.33	0.45
1:H1:481:C:O2'	1:H1:482:G:H5'	2.17	0.45
24:GC:376:TRP:CB	1:H1:564:A:O2'	2.56	0.45
1:H1:608:C:C2'	1:H1:609:A:O5'	2.64	0.45
1:H1:723:U:O3'	1:H1:724:C:H6	1.99	0.45
35:GN:92:ARG:NE	1:H1:810:G:N7	2.64	0.45
1:H1:237:A:C4'	2:HA:88:LYS:HA	2.47	0.45
2:HA:14:LYS:NZ	3:HB:52:TYR:CE1	2.77	0.45
8:HH:57:VAL:HG22	8:HH:74:TRP:CE3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:117:ILE:HD11	9:HJ:139:ARG:HE	1.81	0.45
9:HJ:197:LEU:HD12	9:HJ:205:PHE:O	2.16	0.45
12:HM:110:PHE:O	12:HM:111:ASN:CB	2.65	0.45
6:HF:29:ASN:OD1	19:HX:109:ARG:NH2	2.50	0.45
19:HX:92:VAL:O	19:HX:138:ILE:N	2.43	0.45
1:A1:1049:U:C2	1:A1:1056:A:C2	3.04	0.45
1:A1:1107:A:C4	1:A1:1108:A:C8	3.04	0.45
1:A1:1150:U:H2'	1:A1:1151:U:O4'	2.16	0.45
1:A1:1221:G:H8	1:A1:1221:G:O5'	1.99	0.45
1:A1:1652:U:H5''	1:A1:1655:A:H4'	1.98	0.45
1:A1:1680:A:H4'	1:A1:1681:C:O5'	2.16	0.45
1:A1:1817:C:H2'	1:A1:1818:C:C6	2.52	0.45
1:A1:2265:A:N1	1:A1:2266:A:C2	2.84	0.45
1:A1:2599:G:H2'	1:A1:2600:U:O4'	2.15	0.45
1:A1:2624:A:O4'	1:A1:2625:A:C2	2.70	0.45
1:A1:2939:G:H21	1:A1:2940:G:H1'	1.81	0.45
1:A1:3021:A:C2	1:A1:3022:A:C4	3.04	0.45
1:A1:3115:C:H2'	1:A1:3116:A:O5'	2.17	0.45
1:A1:3175:A:C2	1:A1:3177:G:C6	3.05	0.45
1:A1:439:A:N6	1:A1:539:A:H1'	2.32	0.45
1:A1:810:G:H3'	1:A1:811:A:H8	1.79	0.45
6:AF:28:VAL:CG1	6:AF:66:ASN:N	2.80	0.45
6:AF:14:TYR:CE1	6:AF:90:PHE:HE2	2.34	0.45
9:AJ:102:SER:H	31:BJ:139:SER:CB	2.28	0.45
1:A1:1676:G:O2'	11:AL:81:GLU:OE2	2.15	0.45
12:AM:16:GLY:HA2	12:AM:67:VAL:O	2.16	0.45
1:A1:1146:C:N4	17:AT:10:LYS:NZ	2.54	0.45
19:AX:93:LEU:CD2	19:AX:120:LEU:HD21	2.44	0.45
20:B2:148:U:O2'	27:BF:58:ARG:NH1	2.38	0.45
20:B2:95:C:HO2'	20:B2:96:A:H8	1.58	0.45
22:BA:43:ARG:HG3	22:BA:43:ARG:O	2.16	0.45
23:BB:119:TYR:CE2	23:BB:122:TRP:CZ3	2.98	0.45
24:BC:182:TYR:CE2	24:BC:186:LEU:HG	2.50	0.45
25:BD:30:LEU:HD23	25:BD:30:LEU:HA	1.73	0.45
10:AK:86:ALA:HB1	26:BE:174:LEU:HB3	1.98	0.45
28:BG:9:UNK:O	28:BG:13:UNK:HB2	2.15	0.45
32:BK:77:ILE:HG23	32:BK:118:LEU:HG	1.97	0.45
34:BM:66:TYR:CZ	34:BM:73:ARG:HB2	2.50	0.45
36:BO:84:THR:HB	36:BO:87:ALA:H	1.81	0.45
1:A1:16:G:OP2	39:BR:51:TYR:CE1	2.69	0.45
42:BU:81:PRO:HG2	42:BU:84:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:114:PHE:CZ	43:BV:124:ILE:HD11	2.50	0.45
43:BV:145:ILE:HD12	43:BV:182:ILE:HG12	1.97	0.45
44:BW:68:ARG:C	44:BW:69:ARG:HG2	2.34	0.45
46:BY:64:ILE:HD11	46:BY:71:LEU:CD1	2.33	0.45
21:C3:64:A:OP2	29:CH:203:ARG:O	2.34	0.45
23:CB:281:TYR:OH	23:CB:323:LYS:HD2	2.17	0.45
23:CB:78:VAL:HG21	23:CB:303:ILE:HG21	1.97	0.45
24:CC:153:GLN:HA	24:CC:153:GLN:OE1	2.16	0.45
32:CK:98:LYS:HA	18:DU:166:VAL:CG2	2.46	0.45
33:CL:55:ASN:HB2	1:D1:148:G:H4'	1.97	0.45
33:CL:78:GLY:HA2	33:CL:89:ILE:HD12	1.98	0.45
34:CM:163:LEU:HD11	34:CM:173:ILE:CG2	2.47	0.45
34:CM:19:LYS:O	34:CM:24:ARG:NH1	2.49	0.45
35:CN:146:ARG:CB	35:CN:149:TYR:CE2	2.99	0.45
47:CO:11:ALA:HB3	47:CO:22:LEU:HD13	1.98	0.45
38:CQ:8:ARG:HD3	38:CQ:118:HIS:HB2	1.99	0.45
23:CB:365:HIS:HA	41:CT:19:ARG:HH22	1.81	0.45
42:CU:119:LYS:HB3	18:DU:124:PHE:CD1	2.52	0.45
43:CV:157:ARG:HG3	43:CV:200:TRP:CD2	2.51	0.45
45:CX:113:ARG:O	45:CX:117:LEU:HG	2.17	0.45
1:D1:1056:A:C5	1:D1:1057:U:C5	3.05	0.45
1:D1:1371:G:H5'	1:D1:1371:G:H8	1.80	0.45
1:D1:1531:C:C4	1:D1:1532:A:N7	2.85	0.45
1:D1:1592:G:N2	1:D1:1602:U:H1'	2.31	0.45
1:D1:1658:G:O6	13:DN:17:ARG:HD2	2.17	0.45
1:D1:1743:G:H4'	1:D1:1756:U:H4'	1.98	0.45
1:D1:186:U:C2	1:D1:230:G:O6	2.70	0.45
1:D1:3179:U:H2'	1:D1:3180:C:H6	1.77	0.45
1:D1:331:C:C2'	1:D1:332:G:H5''	2.44	0.45
1:D1:439:A:N6	1:D1:539:A:H1'	2.31	0.45
1:D1:47:G:HO2'	1:D1:48:U:P	2.38	0.45
1:D1:640:G:H2'	1:D1:641:U:C6	2.52	0.45
1:D1:1869:G:O2'	2:DA:5:THR:HA	2.15	0.45
3:DB:15:ARG:NH2	50:DB:101:HOH:O	2.49	0.45
4:DC:19:THR:HB	4:DC:21:HIS:NE2	2.32	0.45
4:DC:83:ILE:HG22	4:DC:84:LYS:N	2.31	0.45
6:DF:7:VAL:HG23	6:DF:55:LEU:HD11	1.98	0.45
26:CE:171:ARG:HB3	10:DK:91:CYS:SG	2.55	0.45
11:DL:73:THR:HG22	11:DL:74:VAL:N	2.27	0.45
1:D1:1880:C:H1'	11:DL:7:TYR:HE1	1.81	0.45
1:D1:979:U:C1'	17:DT:12:GLN:HE21	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:DT:30:ILE:HG22	17:DT:31:SER:N	2.31	0.45
6:DF:30:ILE:HD12	19:DX:161:LEU:HD23	1.98	0.45
19:DX:34:THR:CG2	19:DX:35:LYS:N	2.79	0.45
20:E2:28:G:C5	20:E2:29:U:C5	3.05	0.45
22:EA:133:CYS:O	22:EA:170:VAL:HG23	2.16	0.45
22:EA:33:TYR:HD1	22:EA:164:ARG:NH2	2.14	0.45
23:EB:113:ASN:C	23:EB:174:ASN:HD22	2.18	0.45
23:EB:62:ARG:NH1	23:EB:62:ARG:CG	2.72	0.45
26:EE:88:PHE:HD2	26:EE:152:VAL:HG12	1.82	0.45
27:EF:50:TYR:CZ	27:EF:51:ILE:HG23	2.51	0.45
24:EC:405:ILE:HD12	29:EH:183:ARG:HE	1.79	0.45
30:EI:11:LYS:O	30:EI:13:HIS:CD2	2.69	0.45
24:EC:308:VAL:HG11	35:EN:40:ARG:HH11	1.76	0.45
43:EV:107:GLN:HE22	43:EV:203:LYS:HE2	1.81	0.45
43:EV:114:PHE:CZ	43:EV:124:ILE:HD11	2.51	0.45
46:EY:10:ILE:HD12	46:EY:30:GLU:HB3	1.98	0.45
1:F1:1186:A:C2'	1:F1:1186:A:N3	2.79	0.45
1:F1:1245:U:H6	1:F1:1245:U:C5'	2.28	0.45
35:EN:3:ILE:CD1	1:F1:1391:U:OP1	2.62	0.45
32:EK:3:SER:OG	1:F1:1454:A:C8	2.69	0.45
1:F1:1596:U:H4'	1:F1:1597:U:O5'	2.10	0.45
1:F1:1736:G:N1	1:F1:1737:A:C2	2.84	0.45
1:F1:1736:G:N1	1:F1:1737:A:N1	2.65	0.45
1:F1:2257:A:H2'	1:F1:2258:C:C6	2.49	0.45
1:F1:2383:U:H6	1:F1:2383:U:H5''	1.81	0.45
1:F1:2416:U:C6	1:F1:2416:U:H5'	2.34	0.45
1:F1:2432:G:C6	1:F1:2506:G:C5	3.05	0.45
1:F1:170:A:C5	1:F1:250:U:N3	2.84	0.45
1:F1:2732:G:C6	1:F1:2733:C:N4	2.85	0.45
23:EB:119:TYR:HE1	1:F1:3255:A:H5'	1.81	0.45
1:F1:373:A:HO2'	1:F1:375:G:H8	1.62	0.45
1:F1:451:A:H2'	1:F1:452:U:O4'	2.15	0.45
1:F1:784:G:O2'	1:F1:796:A:N6	2.50	0.45
1:F1:947:U:OP1	2:FA:3:ARG:NH1	2.48	0.45
2:FA:17:THR:HG23	3:FB:52:TYR:O	2.15	0.45
2:FA:65:MET:O	2:FA:69:LYS:HG2	2.17	0.45
3:FB:50:LYS:O	3:FB:51:ILE:HG13	2.17	0.45
50:F1:4257:HOH:O	3:FB:9:MET:HE1	2.17	0.45
4:FC:26:TYR:HB2	4:FC:67:ALA:HB3	1.98	0.45
9:FJ:182:CYS:CB	9:FJ:221:ILE:HD12	2.46	0.45
9:FJ:160:LEU:HD12	9:FJ:182:CYS:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:58:ILE:HG13	9:FJ:62:VAL:HG21	1.97	0.45
3:FB:3:ALA:HB2	11:FL:10:ARG:NH1	2.31	0.45
18:FU:4:ASN:O	18:FU:4:ASN:OD1	2.35	0.45
1:F1:822:U:H1'	18:FU:8:PRO:HB3	1.98	0.45
19:FX:93:LEU:O	19:FX:103:ASN:HA	2.16	0.45
23:GB:264:ARG:NH1	1:H1:2976:C:O2	2.49	0.45
24:GC:283:TYR:CD1	24:GC:283:TYR:C	2.90	0.45
25:GD:94:LYS:O	25:GD:94:LYS:HG3	2.16	0.45
27:GF:171:ALA:HB2	27:GF:211:PHE:CD1	2.51	0.45
28:GG:11:UNK:O	28:GG:15:UNK:CG	2.62	0.45
32:GK:89:ARG:HG3	32:GK:90:GLN:N	2.31	0.45
35:GN:88:THR:HG22	35:GN:107:THR:CG2	2.46	0.45
34:GM:17:GLN:HE22	37:GP:22:LYS:N	2.15	0.45
40:GS:105:LEU:HD13	40:GS:108:LEU:CD2	2.47	0.45
23:GB:367:ARG:NH1	41:GT:13:TYR:CD1	2.85	0.45
44:GW:14:ASN:ND2	44:GW:17:LYS:CE	2.78	0.45
45:GX:65:THR:O	45:GX:65:THR:HG22	2.16	0.45
1:H1:1136:C:H2'	1:H1:1137:U:C6	2.52	0.45
1:H1:1217:A:H62	1:H1:1342:U:H3	1.64	0.45
1:H1:1440:A:C5	1:H1:1441:U:C5	3.04	0.45
1:H1:144:A:H2'	1:H1:145:A:H5'	1.99	0.45
1:H1:147:U:O2	1:H1:147:U:H2'	2.16	0.45
1:H1:1589:G:C8	1:H1:1605:G:N2	2.84	0.45
1:H1:1666:A:H5'	1:H1:1667:A:OP2	2.16	0.45
1:H1:1840:U:C6	1:H1:1840:U:OP2	2.67	0.45
23:GB:226:GLY:HA2	1:H1:1911:A:O2'	2.17	0.45
1:H1:2515:G:C6	1:H1:2516:U:C4	3.04	0.45
1:H1:2769:U:H2'	1:H1:2770:U:O4'	2.16	0.45
1:H1:2843:U:H6	1:H1:2843:U:O5'	1.99	0.45
1:H1:2992:G:C2	1:H1:2993:C:C6	3.05	0.45
1:H1:3175:A:N3	1:H1:3175:A:H3'	2.32	0.45
1:H1:3251:C:H6	1:H1:3251:C:H5'	1.82	0.45
1:H1:567:C:H2'	1:H1:568:A:O4'	2.16	0.45
1:H1:632:G:H2'	1:H1:633:C:O4'	2.16	0.45
1:H1:665:C:H2'	1:H1:666:U:O4'	2.17	0.45
1:H1:70:C:C5	1:H1:72:A:C4	3.05	0.45
1:H1:90:G:OP1	4:HC:53:LYS:NZ	2.45	0.45
22:GA:16:VAL:HG21	1:H1:936:C:H5''	1.97	0.45
3:HB:15:ARG:O	3:HB:19:GLN:HG3	2.16	0.45
5:HE:128:ASN:OD1	5:HE:130:PHE:N	2.49	0.45
5:HE:98:THR:HG21	5:HE:173:TYR:OH	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:HE:57:ARG:CZ	5:HE:58:PHE:CE1	3.00	0.45
5:HE:68:GLN:HG3	5:HE:68:GLN:O	2.16	0.45
5:HE:77:THR:CG2	5:HE:157:ASP:OD1	2.64	0.45
9:HJ:12:ASP:O	9:HJ:13:ILE:C	2.53	0.45
26:GE:174:LEU:HD23	10:HK:90:ASN:HD22	1.81	0.45
13:HN:115:LYS:O	13:HN:119:VAL:HG23	2.15	0.45
1:H1:67:U:O2	18:HU:59:GLN:NE2	2.49	0.45
1:A1:114:A:H2'	1:A1:115:G:H8	1.81	0.45
1:A1:1241:U:H2'	1:A1:1242:U:C6	2.51	0.45
1:A1:1374:C:H5'	24:BC:311:ALA:CB	2.46	0.45
1:A1:1383:G:HO2'	1:A1:1384:G:P	2.39	0.45
1:A1:1505:C:C3'	1:A1:1506:G:H5'	2.47	0.45
1:A1:1779:C:O2'	1:A1:1780:A:H5'	2.15	0.45
1:A1:2304:A:N3	1:A1:2949:G:O2'	2.41	0.45
1:A1:2519:A:H61	27:BF:36:GLN:HB3	1.80	0.45
1:A1:2689:G:O2'	37:BP:47:SER:HA	2.16	0.45
1:A1:2113:A:C8	1:A1:3053:U:H1'	2.52	0.45
1:A1:3205:A:C8	30:BI:155:LEU:HD13	2.51	0.45
1:A1:452:U:H6	1:A1:452:U:O5'	1.99	0.45
1:A1:608:C:H2'	1:A1:609:A:O5'	2.16	0.45
1:A1:632:G:H2'	1:A1:633:C:O4'	2.15	0.45
1:A1:911:C:C2'	1:A1:912:G:H5'	2.46	0.45
5:AE:56:GLY:O	5:AE:59:ARG:HB3	2.16	0.45
6:AF:29:ASN:OD1	19:AX:109:ARG:NH2	2.50	0.45
13:AN:100:ASP:OD1	1:H1:1053:A:N3	2.45	0.45
14:AO:9:VAL:HG12	14:AO:13:ASN:CB	2.46	0.45
1:A1:298:G:C6	16:AQ:31:LYS:HG3	2.52	0.45
21:B3:43:A:C5	21:B3:44:C:C4	3.04	0.45
21:B3:64:A:H5'	21:B3:65:G:OP2	2.16	0.45
22:BA:30:TYR:HD2	22:BA:124:ARG:C	2.19	0.45
1:A1:2871:U:OP1	23:BB:10:ARG:NH1	2.50	0.45
23:BB:17:ARG:HA	23:BB:18:PRO:C	2.37	0.45
24:BC:175:PHE:C	24:BC:175:PHE:CD1	2.89	0.45
24:BC:275:THR:CG2	24:BC:276:THR:N	2.79	0.45
26:BE:168:LYS:HB2	26:BE:173:PHE:CE2	2.51	0.45
26:BE:22:GLN:HB3	26:BE:39:ARG:NH2	2.31	0.45
30:BI:109:THR:CG2	30:BI:110:PRO:CD	2.87	0.45
33:BL:177:LYS:HG2	33:BL:185:ARG:HH21	1.81	0.45
33:BL:36:ILE:HD11	33:BL:105:ARG:HB3	1.98	0.45
34:BM:86:PHE:CE1	34:BM:253:GLU:HB3	2.51	0.45
35:BN:63:LEU:CD2	35:BN:140:LEU:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:123:PHE:CE2	36:BO:142:ILE:HG12	2.51	0.45
38:BQ:8:ARG:HD3	38:BQ:118:HIS:HB2	1.97	0.45
46:BY:38:GLY:HA2	46:BY:45:VAL:HA	1.98	0.45
21:C3:76:U:OP1	19:DX:61:LYS:NZ	2.49	0.45
26:CE:103:VAL:HG23	26:CE:110:ILE:HG23	1.97	0.45
26:CE:86:TYR:CE2	26:CE:149:LEU:HB2	2.51	0.45
29:CH:19:LYS:HG3	29:CH:26:VAL:HG11	1.98	0.45
32:CK:89:ARG:HG3	32:CK:90:GLN:N	2.31	0.45
35:CN:63:LEU:CD2	35:CN:140:LEU:HB3	2.46	0.45
38:CQ:114:LEU:HD23	38:CQ:114:LEU:HA	1.59	0.45
41:CT:41:LEU:HD13	41:CT:51:ILE:CD1	2.47	0.45
42:CU:44:LYS:O	42:CU:47:ARG:HB2	2.17	0.45
1:D1:1046:G:H2'	1:D1:1047:G:H8	1.82	0.45
1:D1:1252:A:N3	1:D1:3105:G:C8	2.84	0.45
1:D1:1732:C:H1'	11:DL:54:ASN:HD21	1.81	0.45
1:D1:2246:G:N2	1:D1:2261:U:H1'	2.32	0.45
1:D1:2613:G:N2	1:D1:2615:A:H2	2.13	0.45
1:D1:2761:U:O2	18:DU:190:TRP:HZ2	2.00	0.45
1:D1:284:U:P	1:D1:284:U:O4'	2.75	0.45
1:D1:3105:G:N2	50:D1:4399:HOH:O	2.50	0.45
1:D1:3098:A:N1	1:D1:3115:C:C4	2.84	0.45
1:D1:3190:A:N6	1:D1:3191:G:H22	2.14	0.45
1:D1:3304:U:H2'	1:D1:3305:A:C8	2.51	0.45
1:D1:406:A:C8	1:D1:407:C:C5	3.04	0.45
1:D1:615:G:N2	8:DH:79:LYS:HE2	2.27	0.45
1:D1:549:G:N1	1:D1:619:G:N2	2.65	0.45
1:D1:621:G:N2	1:D1:634:G:H5''	2.27	0.45
1:D1:966:G:C2'	1:D1:967:U:H5'	2.46	0.45
1:D1:969:C:H1'	1:D1:1457:G:N2	2.31	0.45
3:DB:9:MET:O	3:DB:10:LYS:C	2.53	0.45
5:DE:41:LEU:HA	5:DE:92:GLN:HE22	1.79	0.45
9:DJ:128:ILE:O	9:DJ:132:THR:HB	2.16	0.45
1:D1:1880:C:C1'	11:DL:7:TYR:HE1	2.29	0.45
13:DN:118:PHE:CE2	13:DN:138:PHE:HE2	2.34	0.45
7:DG:35:ARG:HH12	13:DN:77:LEU:HB2	1.74	0.45
18:DU:166:VAL:HG12	18:DU:167:SER:N	2.31	0.45
18:DU:72:GLY:HA3	18:DU:96:ASP:CB	2.43	0.45
18:DU:74:THR:O	18:DU:77:GLU:N	2.50	0.45
19:DX:16:MET:CG	19:DX:17:LYS:H	2.29	0.45
22:EA:212:HIS:O	22:EA:214:GLY:N	2.50	0.45
24:EC:33:ILE:HD13	24:EC:135:ALA:CA	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:245:GLN:O	24:EC:254:ARG:NH1	2.40	0.45
24:EC:377:ILE:H	24:EC:377:ILE:HG13	1.47	0.45
27:EF:127:TYR:CD1	27:EF:127:TYR:O	2.69	0.45
34:EM:160:PHE:HA	34:EM:163:LEU:HB2	1.98	0.45
34:EM:82:GLU:OE1	34:EM:104:LEU:CD2	2.64	0.45
38:EQ:32:TYR:HD2	38:EQ:33:GLU:CG	2.25	0.45
40:ES:121:LYS:HE2	1:F1:186:U:OP1	2.17	0.45
43:EV:160:LEU:HD23	43:EV:160:LEU:HA	1.76	0.45
1:F1:1035:A:C2	1:F1:1068:U:H1'	2.52	0.45
1:F1:1052:A:N3	1:F1:1052:A:H2'	2.32	0.45
1:F1:105:A:H2'	1:F1:106:A:O4'	2.16	0.45
1:F1:1141:U:C4	1:F1:1142:G:C2	3.04	0.45
1:F1:1153:G:H2'	1:F1:1154:G:O4'	2.16	0.45
1:F1:1533:G:H5''	1:F1:1533:G:C8	2.52	0.45
1:F1:1552:U:O2	1:F1:1620:U:H5'	2.17	0.45
1:F1:1595:A:C6	1:F1:1596:U:H1'	2.50	0.45
1:F1:1793:A:C2'	1:F1:1794:G:H5'	2.47	0.45
1:F1:1653:A:C6	1:F1:1839:A:C2	3.04	0.45
1:F1:1966:U:H2'	1:F1:1967:C:O5'	2.16	0.45
1:F1:2123:U:C2'	1:F1:2124:C:H5'	2.46	0.45
1:F1:2509:U:H6	1:F1:2509:U:OP1	1.99	0.45
23:EB:20:ARG:CB	1:F1:2979:A:P	3.05	0.45
1:F1:3129:G:H8	1:F1:3129:G:O5'	1.99	0.45
1:F1:3171:A:N6	1:F1:3172:A:N6	2.65	0.45
24:EC:87:SER:CB	1:F1:356:U:O2'	2.65	0.45
1:F1:474:G:H2'	1:F1:475:C:C6	2.52	0.45
1:F1:47:G:HO2'	1:F1:48:U:P	2.38	0.45
1:F1:604:A:C8	1:F1:604:A:O5'	2.66	0.45
1:F1:828:C:HO2'	1:F1:829:C:H5'	1.82	0.45
1:F1:895:A:O2'	1:F1:896:U:OP2	2.27	0.45
5:FE:135:THR:O	5:FE:139:LYS:HG3	2.16	0.45
6:FF:121:THR:CG2	6:FF:121:THR:O	2.64	0.45
6:FF:67:GLN:HE22	6:FF:75:LYS:HE3	1.81	0.45
7:FG:41:LEU:HD12	7:FG:66:SER:O	2.16	0.45
1:F1:1326:U:O2'	10:FK:114:LYS:O	2.29	0.45
13:FN:105:ASN:O	13:FN:105:ASN:CG	2.55	0.45
13:FN:122:TYR:O	13:FN:125:ILE:HG13	2.16	0.45
13:FN:23:ALA:HB1	13:FN:43:VAL:CG1	2.40	0.45
1:F1:156:A:OP1	16:FQ:27:ALA:HB3	2.16	0.45
32:EK:98:LYS:HA	18:FU:166:VAL:CB	2.46	0.45
20:G2:43:A:H3'	20:G2:43:A:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:GA:205:MET:HE2	22:GA:209:ASP:CB	2.43	0.45
23:GB:130:PHE:O	23:GB:134:GLU:HG3	2.16	0.45
23:GB:22:THR:OG1	23:GB:271:HIS:HA	2.16	0.45
30:GI:64:ASN:HD21	30:GI:66:ARG:CG	2.23	0.45
30:GI:6:VAL:HG23	30:GI:30:GLN:HE21	1.75	0.45
34:GM:284:ALA:O	34:GM:288:LYS:HG2	2.17	0.45
38:GQ:24:LEU:CD1	38:GQ:92:VAL:HG11	2.47	0.45
39:GR:123:THR:HG22	39:GR:125:THR:H	1.81	0.45
43:GV:82:PHE:HB3	43:GV:231:ILE:HD13	1.98	0.45
45:GX:113:ARG:HE	45:GX:117:LEU:HD11	1.81	0.45
46:GY:47:VAL:HG11	46:GY:71:LEU:HD22	1.96	0.45
1:H1:1055:A:C4	1:H1:1056:A:C8	3.04	0.45
1:H1:1252:A:N3	1:H1:3105:G:C8	2.84	0.45
1:H1:1433:A:H3'	1:H1:1434:G:O4'	2.17	0.45
1:H1:1470:G:H2'	1:H1:1471:U:O4'	2.17	0.45
1:H1:1524:A:H2'	1:H1:1525:U:H6	1.81	0.45
1:H1:2369:C:N4	1:H1:2929:A:C4	2.85	0.45
1:H1:2416:U:C5'	1:H1:2416:U:H6	2.19	0.45
1:H1:2508:U:C4'	1:H1:2509:U:OP1	2.59	0.45
1:H1:2701:U:H4'	1:H1:2732:G:O3'	2.16	0.45
1:H1:2817:U:H2'	1:H1:2818:G:H5'	1.99	0.45
1:H1:3062:A:H2'	1:H1:3063:G:O4'	2.17	0.45
1:H1:3101:G:C2	1:H1:3110:U:C5	3.04	0.45
1:H1:3233:A:HO2'	1:H1:3234:U:P	2.29	0.45
1:H1:997:G:H4'	1:H1:1399:A:H4'	1.98	0.45
5:HE:51:LEU:HB3	5:HE:95:THR:CG2	2.46	0.45
7:HG:8:ASP:HA	7:HG:11:GLN:HE21	1.80	0.45
9:HJ:4:ARG:NE	9:HJ:215:ILE:HD11	2.31	0.45
12:HM:21:CYS:O	12:HM:24:PRO:HD2	2.16	0.45
16:HQ:5:GLN:O	16:HQ:12:GLY:CA	2.64	0.45
18:HU:57:ARG:HD2	18:HU:64:ASN:O	2.16	0.45
18:HU:81:ALA:CB	18:HU:114:LEU:HD13	2.47	0.45
19:HX:34:THR:CG2	19:HX:35:LYS:N	2.80	0.45
19:HX:45:ALA:CA	19:HX:50:HIS:HD2	2.29	0.45
1:A1:1089:G:N7	1:A1:1124:G:H2'	2.31	0.45
1:A1:1173:A:H4'	1:A1:1358:U:C4	2.52	0.45
1:A1:1393:A:C2	1:A1:1394:G:C4	3.04	0.45
1:A1:1682:G:C5	1:A1:1822:G:C6	3.04	0.45
1:A1:2253:U:O2'	1:A1:2254:A:H5'	2.16	0.45
1:A1:2508:U:H2'	1:A1:2581:G:N1	2.31	0.45
1:A1:2552:A:H2'	1:A1:2553:G:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2872:C:O2'	1:A1:2873:C:H5'	2.16	0.45
1:A1:2885:A:O2'	1:A1:2886:G:H3'	2.17	0.45
1:A1:2902:G:C6	1:A1:2903:U:N3	2.85	0.45
1:A1:3027:U:OP1	23:BB:62:ARG:CZ	2.65	0.45
1:A1:3027:U:OP1	23:BB:62:ARG:NH1	2.50	0.45
1:A1:3094:U:H2'	1:A1:3095:A:H8	1.80	0.45
1:A1:3098:A:C2	1:A1:3115:C:N3	2.84	0.45
1:A1:3190:A:C6	1:A1:3191:G:C2	3.04	0.45
1:A1:3340:U:H2'	1:A1:3341:C:C6	2.52	0.45
1:A1:625:C:C4	1:A1:626:C:C5	3.05	0.45
1:A1:773:C:C2	1:A1:774:A:C8	3.05	0.45
5:AE:67:LYS:HD2	5:AE:109:THR:CB	2.46	0.45
5:AE:42:ARG:HG2	5:AE:92:GLN:NE2	2.32	0.45
1:A1:3237:C:N4	8:AH:10:ALA:CA	2.68	0.45
13:AN:4:PHE:H	13:AN:4:PHE:HD1	0.74	0.45
14:AO:50:LEU:HA	14:AO:59:ALA:O	2.16	0.45
14:AO:75:THR:CG2	14:AO:77:GLU:CG	2.95	0.45
19:AX:93:LEU:O	19:AX:103:ASN:HA	2.16	0.45
20:B2:5:A:C2'	20:B2:6:A:H5'	2.46	0.45
22:BA:34:ASP:O	22:BA:38:ARG:HG2	2.16	0.45
1:A1:2976:C:O2	23:BB:264:ARG:NH1	2.49	0.45
24:BC:380:PHE:HD2	24:BC:381:ASN:OD1	2.00	0.45
29:BH:17:TYR:HD2	29:BH:96:VAL:HB	1.82	0.45
32:BK:60:MET:C	35:BN:172:ARG:NH1	2.70	0.45
1:A1:1744:A:H61	36:BO:125:LEU:HD21	1.82	0.45
37:BP:17:LYS:HB3	37:BP:21:THR:HB	1.97	0.45
37:BP:42:ILE:CD1	37:BP:91:VAL:HG21	2.47	0.45
38:BQ:29:LYS:O	38:BQ:32:TYR:HB3	2.16	0.45
38:BQ:44:GLU:HA	38:BQ:44:GLU:OE1	2.17	0.45
39:BR:56:ARG:HB3	39:BR:61:VAL:CG2	2.46	0.45
40:BS:120:ARG:O	40:BS:123:ALA:HB3	2.16	0.45
42:BU:69:ALA:O	42:BU:72:ASP:HB2	2.17	0.45
45:BX:22:PHE:CE2	45:BX:23:GLU:HG3	2.52	0.45
20:C2:74:A:H62	20:C2:88:G:H1'	1.76	0.45
23:CB:292:ALA:HB3	23:CB:301:LYS:C	2.37	0.45
24:CC:164:GLU:OE1	24:CC:218:ASN:HB2	2.17	0.45
24:CC:81:ILE:HG12	24:CC:82:PRO:HD2	1.99	0.45
25:CD:17:LEU:CB	25:CD:76:ALA:HB1	2.47	0.45
29:CH:15:LYS:HA	29:CH:16:PRO:HD3	1.76	0.45
21:C3:63:A:C8	29:CH:206:LEU:HD21	2.52	0.45
32:CK:91:LYS:HG2	32:CK:92:TYR:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:34:LYS:HA	34:CM:37:ILE:HG22	1.99	0.45
37:CP:15:PHE:CD1	37:CP:15:PHE:N	2.84	0.45
38:CQ:85:TRP:O	38:CQ:87:VAL:N	2.49	0.45
35:CN:3:ILE:HG23	43:CV:106:ARG:O	2.17	0.45
45:CX:80:ASN:HB2	45:CX:81:PRO:CD	2.35	0.45
46:CY:17:ARG:HB2	46:CY:18:TYR:CE2	2.52	0.45
46:CY:55:TRP:CD1	46:CY:55:TRP:N	2.83	0.45
43:CV:123:MET:CG	1:D1:1012:U:H1'	2.47	0.45
1:D1:1058:C:H2'	1:D1:1058:C:O2	2.15	0.45
1:D1:1173:A:H4'	1:D1:1358:U:C5	2.50	0.45
1:D1:1668:A:C8	11:DL:69:ARG:NH1	2.85	0.45
1:D1:1736:G:N1	1:D1:1737:A:C2	2.85	0.45
1:D1:19:A:H8	1:D1:19:A:O5'	2.00	0.45
1:D1:2112:G:N3	1:D1:2112:G:H5'	2.32	0.45
1:D1:2132:U:H5''	50:D1:4109:HOH:O	2.16	0.45
1:D1:2248:G:H1	1:D1:2258:C:H42	1.64	0.45
27:CF:58:ARG:HG2	1:D1:2574:U:O2	2.16	0.45
1:D1:3171:A:N6	1:D1:3172:A:N6	2.64	0.45
1:D1:3198:A:N6	1:D1:3199:G:C6	2.84	0.45
1:D1:449:G:C4	1:D1:450:C:C5	3.03	0.45
1:D1:513:G:C4	1:D1:514:U:C5	3.05	0.45
1:D1:640:G:H2'	1:D1:641:U:H6	1.80	0.45
1:D1:703:U:O2'	1:D1:704:G:H5'	2.17	0.45
1:D1:727:C:H2'	1:D1:728:G:H8	1.81	0.45
5:DE:42:ARG:HH12	8:DH:111:ASN:HD22	1.61	0.45
1:D1:3227:A:H5'	5:DE:57:ARG:HH12	1.76	0.45
5:DE:57:ARG:CZ	5:DE:58:PHE:CE1	3.00	0.45
6:DF:25:ALA:HB1	6:DF:38:ILE:HG23	1.99	0.45
8:DH:48:VAL:HG11	8:DH:87:ALA:HB2	1.98	0.45
17:DT:56:SER:OG	17:DT:57:LYS:N	2.50	0.45
1:D1:165:C:H4'	18:DU:132:LYS:HD2	1.98	0.45
32:CK:46:LEU:HD21	18:DU:2:LYS:O	2.17	0.45
18:DU:59:GLN:O	18:DU:59:GLN:CG	2.65	0.45
20:E2:143:U:H2'	20:E2:144:U:C6	2.51	0.45
21:E3:39:U:N1	25:ED:46:VAL:CG2	2.79	0.45
23:EB:378:PHE:HA	1:F1:3325:G:H22	1.79	0.45
23:EB:84:MET:CE	23:EB:179:ILE:HD11	2.47	0.45
24:EC:182:TYR:CE2	24:EC:186:LEU:HG	2.52	0.45
26:EE:127:LEU:HA	26:EE:127:LEU:HD23	1.81	0.45
29:EH:14:GLY:O	29:EH:128:ARG:NH2	2.37	0.45
33:EL:183:SER:HB3	33:EL:195:ARG:HH22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:54:ARG:NH2	34:EM:149:GLY:HA3	2.31	0.45
35:EN:152:TRP:CE2	1:F1:1136:C:H4'	2.52	0.45
38:EQ:114:LEU:HA	38:EQ:114:LEU:HD23	1.59	0.45
43:EV:215:ARG:HH21	1:F1:1198:G:P	2.39	0.45
43:EV:63:LYS:NZ	1:F1:563:G:P	2.89	0.45
1:F1:1116:C:H6	1:F1:1116:C:O5'	1.99	0.45
45:EX:33:SER:OG	1:F1:1434:G:OP2	2.23	0.45
1:F1:1465:U:C2	1:F1:1466:G:C8	3.05	0.45
1:F1:1691:U:H2'	1:F1:1692:G:H8	1.81	0.45
1:F1:213:A:N6	1:F1:227:G:C2'	2.79	0.45
1:F1:2352:A:H2'	1:F1:2353:C:C6	2.41	0.45
1:F1:2664:C:H6	1:F1:2664:C:O5'	2.00	0.45
1:F1:2762:U:O2	1:F1:2763:U:C6	2.70	0.45
1:F1:2849:U:H3'	1:F1:2850:U:H6	1.81	0.45
1:F1:3079:U:O2'	1:F1:3080:A:C5'	2.64	0.45
1:F1:3112:A:C3'	1:F1:3113:G:H5'	2.46	0.45
1:F1:640:G:H2'	1:F1:641:U:H6	1.81	0.45
1:F1:63:A:H5''	1:F1:64:A:H4'	1.98	0.45
1:F1:745:A:C6	1:F1:746:A:C2	3.04	0.45
1:F1:820:G:C2'	1:F1:821:U:C5'	2.94	0.45
5:FE:102:VAL:HG22	5:FE:170:LEU:CD2	2.34	0.45
5:FE:63:VAL:CG1	5:FE:64:VAL:N	2.79	0.45
9:FJ:88:LEU:HG	9:FJ:92:VAL:CG1	2.46	0.45
13:FN:4:PHE:HD1	13:FN:4:PHE:H	0.75	0.45
14:FO:52:GLY:CA	14:FO:118:ASN:HD21	2.24	0.45
18:FU:74:THR:O	18:FU:77:GLU:N	2.50	0.45
19:FX:45:ALA:HB1	19:FX:50:HIS:HB3	1.98	0.45
20:G2:3:A:C2	1:H1:3243:A:C4'	3.00	0.45
23:GB:281:TYR:OH	23:GB:323:LYS:HD2	2.16	0.45
24:GC:242:ASN:C	24:GC:244:LEU:N	2.69	0.45
24:GC:145:ARG:NH1	24:GC:248:PRO:HD2	2.31	0.45
24:GC:25:LEU:HA	24:GC:26:PRO:HD2	1.85	0.45
25:GD:162:TRP:CH2	25:GD:167:PHE:CE2	3.04	0.45
25:GD:17:LEU:CB	25:GD:76:ALA:HB1	2.46	0.45
27:GF:155:LEU:HD13	1:H1:147:U:C1'	2.44	0.45
27:GF:233:LYS:HA	27:GF:236:HIS:HD2	1.81	0.45
27:GF:237:LYS:O	27:GF:241:LEU:HG	2.16	0.45
29:GH:19:LYS:HG3	29:GH:26:VAL:CG1	2.46	0.45
30:GI:155:LEU:HD13	1:H1:3205:A:C4	2.52	0.45
30:GI:73:ARG:NH1	1:H1:3123:A:OP1	2.49	0.45
32:GK:14:HIS:HB3	50:GK:202:HOH:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:GL:180:ARG:HH22	1:H1:301:A:H5'	1.81	0.45
34:GM:228:PHE:CD1	34:GM:231:TRP:CD1	3.03	0.45
35:GN:146:ARG:CB	35:GN:149:TYR:CE2	2.99	0.45
35:GN:73:ASN:N	35:GN:76:ASN:OD1	2.49	0.45
35:GN:82:VAL:HG21	35:GN:127:LEU:CD1	2.44	0.45
38:GQ:59:CYS:HB3	38:GQ:74:GLN:CB	2.45	0.45
44:GW:14:ASN:HD21	44:GW:17:LYS:HE3	1.79	0.45
43:GV:91:GLN:HG2	1:H1:1166:G:O2'	2.16	0.45
1:H1:1315:U:H2'	1:H1:1316:G:H5''	1.97	0.45
44:GW:32:ILE:HD12	1:H1:1484:U:O2'	2.17	0.45
1:H1:1531:C:C4	1:H1:1532:A:N7	2.85	0.45
1:H1:190:U:C4	1:H1:224:C:O4'	2.69	0.45
1:H1:2119:G:H8	1:H1:2119:G:H5''	1.81	0.45
1:H1:2209:A:OP2	50:H1:4250:HOH:O	2.20	0.45
1:H1:915:C:O2'	1:H1:2319:A:N3	2.35	0.45
1:H1:2606:U:H4'	1:H1:2633:C:H5	1.81	0.45
1:H1:2767:A:H2'	1:H1:2768:G:O5'	2.17	0.45
1:H1:284:U:O2	1:H1:284:U:H2'	2.14	0.45
1:H1:2869:C:O2'	1:H1:2870:U:H5'	2.17	0.45
1:H1:3304:U:H2'	1:H1:3305:A:C8	2.52	0.45
1:H1:467:A:C5	1:H1:468:A:C5	3.05	0.45
1:H1:585:A:C6	1:H1:586:A:C5	3.05	0.45
1:H1:600:G:H5''	1:H1:601:A:OP2	2.17	0.45
1:H1:663:G:H4'	1:H1:1460:G:C6	2.52	0.45
1:H1:882:G:O2'	1:H1:883:A:P	2.72	0.45
1:H1:2135:A:N7	2:HA:2:THR:HG23	2.32	0.45
8:HH:56:VAL:CG2	8:HH:106:VAL:HG22	2.46	0.45
9:HJ:63:THR:HG22	9:HJ:73:PRO:HD3	1.97	0.45
13:HN:30:GLU:HA	13:HN:30:GLU:OE1	2.16	0.45
18:HU:183:GLN:O	18:HU:187:ASN:ND2	2.50	0.45
19:HX:187:THR:CG2	19:HX:188:THR:N	2.80	0.45
1:A1:753:A:H5'	1:A1:1002:A:O4'	2.17	0.45
1:A1:1095:C:C4'	1:A1:1096:G:OP2	2.65	0.45
1:A1:124:U:C2'	1:A1:125:G:H5'	2.46	0.45
1:A1:1355:C:H2'	1:A1:1356:G:O5'	2.17	0.45
1:A1:121:A:H61	1:A1:150:A:N6	2.15	0.45
1:A1:1517:G:C8	50:A1:4400:HOH:O	2.68	0.45
1:A1:1589:G:C5	1:A1:1605:G:C2	3.05	0.45
1:A1:1815:G:H2'	1:A1:1816:A:C8	2.51	0.45
1:A1:1843:U:C2	1:A1:1844:U:C5	3.05	0.45
1:A1:2303:C:C2'	1:A1:2304:A:OP1	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2339:U:H5'	1:A1:3045:A:O2'	2.17	0.45
1:A1:2727:A:C5'	17:AT:37:PRO:HD2	2.46	0.45
1:A1:2927:G:O2'	1:A1:2928:A:H5'	2.17	0.45
1:A1:45:C:H5''	18:AU:14:LYS:HG2	1.99	0.45
1:A1:550:G:C6	1:A1:551:U:C4	3.04	0.45
1:A1:558:U:H2'	1:A1:559:G:C8	2.49	0.45
1:A1:646:A:H2'	1:A1:647:U:H6	1.82	0.45
1:A1:725:C:O2'	1:A1:726:G:H5'	2.16	0.45
1:A1:75:A:H8	18:AU:71:ARG:NH1	2.02	0.45
1:A1:809:A:H4'	35:BN:92:ARG:HH22	1.75	0.45
21:B3:116:A:H4'	34:BM:260:ARG:NH2	2.31	0.45
21:B3:22:A:C6	21:B3:23:A:C6	3.05	0.45
22:BA:136:THR:HB	22:BA:150:ARG:HB3	1.97	0.45
24:BC:126:ARG:NE	24:BC:280:LYS:HD2	2.32	0.45
14:AO:12:ASN:OD1	24:BC:251:HIS:CE1	2.69	0.45
1:A1:634:G:O6	24:BC:319:ARG:NH2	2.49	0.45
24:BC:81:ILE:HG12	24:BC:82:PRO:HD2	1.99	0.45
26:BE:139:LYS:O	26:BE:140:ASN:HB2	2.17	0.45
27:BF:92:TYR:HE1	27:BF:200:ASP:OD2	2.00	0.45
29:BH:75:ASN:HB3	29:BH:151:ALA:HB2	1.98	0.45
29:BH:44:GLU:CD	29:BH:181:TYR:OH	2.54	0.45
29:BH:203:ARG:HD3	29:BH:203:ARG:HA	1.78	0.45
30:BI:60:TRP:C	30:BI:60:TRP:CD1	2.89	0.45
33:BL:63:ARG:HG2	33:BL:131:GLU:HG3	1.99	0.45
34:BM:88:VAL:CG1	34:BM:246:LEU:HD21	2.47	0.45
1:A1:1002:A:P	35:BN:141:ARG:HH22	2.39	0.45
36:BO:42:ARG:HA	36:BO:45:ILE:HD12	1.99	0.45
1:A1:1967:C:H5	36:BO:74:ARG:HH12	1.64	0.45
37:BP:15:PHE:HD1	37:BP:15:PHE:N	2.14	0.45
38:BQ:128:ARG:HG2	38:BQ:142:LEU:CD2	2.46	0.45
38:BQ:32:TYR:CE2	38:BQ:36:ARG:HD2	2.52	0.45
38:BQ:94:LEU:HA	38:BQ:94:LEU:HD12	1.68	0.45
40:BS:111:ASP:OD1	40:BS:111:ASP:C	2.55	0.45
1:A1:1366:C:C5'	45:BX:62:ASP:HA	2.46	0.45
21:C3:81:A:H2'	21:C3:82:G:H5'	1.97	0.45
24:CC:283:TYR:CD1	24:CC:283:TYR:C	2.89	0.45
27:CF:183:VAL:O	27:CF:184:ASN:HB2	2.16	0.45
29:CH:3:ARG:HH12	29:CH:63:GLU:CB	2.29	0.45
31:CJ:28:ASN:N	31:CJ:102:ASN:O	2.49	0.45
32:CK:129:TYR:CD1	32:CK:129:TYR:N	2.84	0.45
34:CM:49:TYR:HB2	34:CM:143:LYS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CK:50:TRP:CD1	35:CN:156:PRO:HD2	2.50	0.45
35:CN:77:LYS:HE2	35:CN:98:LYS:HE2	1.99	0.45
47:CO:41:ILE:O	47:CO:44:LEU:HB2	2.16	0.45
37:CP:8:ARG:C	37:CP:11:THR:HG1	2.17	0.45
42:CU:69:ALA:O	42:CU:72:ASP:HB2	2.16	0.45
43:CV:85:ARG:CZ	43:CV:100:LEU:HD13	2.45	0.45
35:CN:141:ARG:NH1	1:D1:1002:A:OP2	2.49	0.45
1:D1:1009:A:OP1	17:DT:23:LYS:NZ	2.48	0.45
1:D1:1010:G:H4'	1:D1:1011:U:OP2	2.15	0.45
1:D1:1074:A:H5''	1:D1:1075:C:H5'	1.98	0.45
1:D1:112:A:H2'	1:D1:113:A:O4'	2.17	0.45
1:D1:1153:G:H2'	1:D1:1154:G:O4'	2.17	0.45
1:D1:1252:A:O2'	1:D1:1253:G:H5'	2.16	0.45
1:D1:1384:G:C2	1:D1:1385:C:C6	3.04	0.45
1:D1:1427:G:C2	1:D1:1437:U:O2	2.69	0.45
1:D1:1518:G:P	2:DA:14:LYS:NZ	2.88	0.45
1:D1:2278:G:C2'	1:D1:2279:C:OP2	2.65	0.45
1:D1:2293:U:O2'	1:D1:2294:A:H5'	2.17	0.45
1:D1:418:G:N2	1:D1:2360:C:H1'	2.31	0.45
1:D1:2391:G:H5'	1:D1:2392:A:C5'	2.46	0.45
1:D1:2634:G:H2'	1:D1:2635:C:H5'	1.97	0.45
1:D1:2703:G:H4'	1:D1:2704:A:C5'	2.44	0.45
34:CM:38:ILE:HD11	1:D1:2738:G:H5''	1.99	0.45
1:D1:3234:U:O4	1:D1:3236:C:C6	2.70	0.45
41:CT:58:ARG:NE	1:D1:3325:G:N7	2.65	0.45
40:CS:8:SER:OG	1:D1:334:G:H5''	2.17	0.45
1:D1:504:A:O2'	1:D1:505:A:C8	2.62	0.45
1:D1:644:A:H2'	1:D1:645:A:C4'	2.47	0.45
1:D1:765:A:C6	1:D1:766:G:C2	3.04	0.45
35:CN:92:ARG:HH22	1:D1:809:A:H4'	1.70	0.45
7:DG:15:ALA:O	7:DG:19:ARG:HG3	2.17	0.45
7:DG:60:ALA:O	7:DG:64:GLN:N	2.49	0.45
9:DJ:88:LEU:HA	9:DJ:88:LEU:HD12	1.69	0.45
11:DL:30:LEU:HD12	11:DL:30:LEU:HA	1.81	0.45
12:DM:44:LYS:HA	12:DM:48:LYS:O	2.16	0.45
14:DO:3:GLN:HA	14:DO:3:GLN:OE1	2.15	0.45
18:DU:34:LEU:HA	18:DU:37:ARG:HD2	1.99	0.45
20:E2:95:C:H5''	2:FA:77:ASN:ND2	2.31	0.45
22:EA:214:GLY:HA3	1:F1:2955:A:OP1	2.17	0.45
23:EB:233:VAL:HG12	23:EB:234:LYS:O	2.17	0.45
23:EB:294:THR:HG21	23:EB:354:LEU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:195:ARG:NH1	24:EC:204:ARG:HB2	2.32	0.45
24:EC:126:ARG:HD3	24:EC:283:TYR:HD2	1.81	0.45
27:EF:144:VAL:HG23	27:EF:168:VAL:CG1	2.46	0.45
30:EI:113:ARG:HH11	1:F1:3162:A:H61	1.50	0.45
31:EJ:11:VAL:HG21	31:EJ:131:PRO:HD3	1.97	0.45
38:EQ:134:ALA:O	38:EQ:135:HIS:CB	2.62	0.45
38:EQ:8:ARG:HH12	38:EQ:118:HIS:N	2.14	0.45
41:ET:58:ARG:NE	1:F1:3325:G:N7	2.65	0.45
37:EP:59:GLY:HA3	1:F1:1018:A:O2'	2.16	0.45
1:F1:1121:G:O5'	1:F1:1121:G:H8	1.99	0.45
1:F1:1423:A:H2'	1:F1:1424:U:O5'	2.17	0.45
44:EW:32:ILE:HD12	1:F1:1484:U:O2'	2.16	0.45
1:F1:1495:C:C4'	1:F1:1496:U:OP2	2.62	0.45
1:F1:1600:U:C5	1:F1:1601:U:C5	3.04	0.45
1:F1:1743:G:H4'	1:F1:1756:U:H4'	1.97	0.45
1:F1:199:A:C4	1:F1:201:A:C8	3.04	0.45
1:F1:239:G:C6	1:F1:240:A:N6	2.85	0.45
1:F1:2586:G:O2'	1:F1:2587:G:H5'	2.16	0.45
37:EP:49:HIS:HD2	1:F1:2744:C:O2'	2.00	0.45
1:F1:2875:A:P	50:F1:4164:HOH:O	2.74	0.45
1:F1:3234:U:O4	1:F1:3236:C:C6	2.69	0.45
1:F1:37:A:C5'	1:F1:38:A:H4'	2.45	0.45
1:F1:452:U:O5'	1:F1:452:U:H6	2.00	0.45
1:F1:452:U:O2'	1:F1:453:A:C5'	2.65	0.45
1:F1:585:A:C5	1:F1:586:A:C5	3.05	0.45
1:F1:643:A:O2'	1:F1:644:A:P	2.73	0.45
1:F1:729:A:C1'	1:F1:810:G:N2	2.80	0.45
1:F1:975:G:C2	1:F1:1397:G:O6	2.70	0.45
6:FF:79:PHE:O	6:FF:80:ASP:HB2	2.17	0.45
9:FJ:111:ASN:ND2	9:FJ:156:ASN:HD22	2.15	0.45
11:FL:20:VAL:CG1	11:FL:21:ARG:N	2.79	0.45
15:FP:13:LYS:HE2	15:FP:13:LYS:HB3	1.80	0.45
16:FQ:5:GLN:O	16:FQ:12:GLY:HA3	2.16	0.45
18:FU:72:GLY:HA3	18:FU:96:ASP:CB	2.46	0.45
19:FX:108:TYR:CZ	19:FX:120:LEU:HA	2.51	0.45
19:FX:188:THR:O	19:FX:189:PHE:CB	2.64	0.45
20:G2:148:U:O2'	27:GF:58:ARG:NH1	2.33	0.45
23:GB:56:ILE:CG2	23:GB:354:LEU:HD22	2.46	0.45
26:GE:22:GLN:OE1	26:GE:39:ARG:NH2	2.50	0.45
34:GM:216:LEU:HD12	34:GM:228:PHE:CD2	2.51	0.45
34:GM:88:VAL:HG12	34:GM:246:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1110:U:H2'	1:H1:1110:U:O2	2.16	0.45
1:H1:1167:G:H2'	1:H1:1168:C:C6	2.48	0.45
1:H1:1428:G:H2'	1:H1:1429:C:H6	1.82	0.45
1:H1:164:A:C2'	1:H1:165:C:H5'	2.47	0.45
1:H1:169:A:P	1:H1:249:G:N2	2.90	0.45
1:H1:2539:A:N3	1:H1:2540:G:C8	2.84	0.45
1:H1:2595:G:H4'	1:H1:2596:G:OP1	2.16	0.45
1:H1:2607:G:OP1	1:H1:2633:C:H2'	2.17	0.45
23:GB:259:ARG:NH1	1:H1:2871:U:O2'	2.50	0.45
36:GO:62:ARG:HH22	1:H1:3056:C:H3'	1.82	0.45
1:H1:3136:A:C5	1:H1:3137:U:C5	3.04	0.45
1:H1:3144:G:H4'	1:H1:3144:G:OP1	2.17	0.45
1:H1:3268:C:N4	1:H1:3269:G:C5	2.84	0.45
1:H1:332:G:C3'	1:H1:333:G:H5''	2.47	0.45
1:H1:853:A:H2'	1:H1:854:U:C6	2.52	0.45
2:HA:4:GLY:C	2:HA:6:PRO:CD	2.85	0.45
9:HJ:118:HIS:HA	9:HJ:119:PRO:HD2	1.82	0.45
9:HJ:161:VAL:HG12	9:HJ:162:HIS:N	2.31	0.45
35:GN:25:VAL:CG1	14:HO:7:GLU:HB3	2.37	0.45
1:A1:1223:U:O2'	1:A1:1224:A:H5'	2.16	0.45
1:A1:169:A:P	1:A1:249:G:N2	2.90	0.45
1:A1:2208:A:C5	1:A1:2227:A:C6	3.05	0.45
1:A1:2732:G:C6	1:A1:2733:C:N4	2.85	0.45
1:A1:2291:A:H2	1:A1:2906:G:N3	2.15	0.45
1:A1:3272:U:C4	1:A1:3273:U:C5	3.05	0.45
1:A1:347:A:H4'	1:A1:366:A:N6	2.32	0.45
1:A1:680:A:C6	1:A1:681:A:C6	3.04	0.45
1:A1:685:G:H5''	32:BK:17:HIS:CE1	2.52	0.45
1:A1:788:C:C5	1:A1:790:C:C5	3.05	0.45
1:A1:836:U:H2'	1:A1:837:G:H8	1.79	0.45
2:AA:17:THR:HG23	2:AA:18:LEU:H	1.77	0.45
5:AE:67:LYS:NZ	5:AE:109:THR:HB	2.32	0.45
1:A1:3155:A:C6	8:AH:102:SER:HB3	2.52	0.45
8:AH:58:TYR:CE2	8:AH:60:TYR:CD2	3.05	0.45
13:AN:90:LEU:O	13:AN:121:LYS:HE3	2.17	0.45
1:A1:519:A:OP1	14:AO:89:ARG:NH1	2.49	0.45
20:B2:10:U:C4	20:B2:11:C:N4	2.85	0.45
22:BA:108:ILE:HB	22:BA:137:ILE:CD1	2.46	0.45
23:BB:130:PHE:O	23:BB:134:GLU:HG3	2.17	0.45
24:BC:227:LEU:O	24:BC:228:ARG:C	2.55	0.45
24:BC:302:ASN:O	24:BC:306:SER:OG	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:32:ASN:ND2	31:BJ:117:GLN:N	2.63	0.45
34:BM:164:LYS:O	34:BM:168:ASP:HB2	2.17	0.45
34:BM:54:ARG:NH2	34:BM:149:GLY:HA3	2.32	0.45
35:BN:146:ARG:CB	35:BN:149:TYR:CE2	2.99	0.45
35:BN:178:HIS:ND1	35:BN:179:GLY:O	2.49	0.45
37:BP:80:VAL:O	37:BP:83:ARG:HG2	2.16	0.45
22:CA:12:ARG:NH2	22:CA:14:ASN:HD22	2.10	0.45
22:CA:208:VAL:HG21	1:D1:941:G:C5	2.50	0.45
22:CA:46:ILE:O	22:CA:86:GLY:N	2.48	0.45
23:CB:138:ASP:OD1	23:CB:140:LYS:HG2	2.17	0.45
23:CB:216:LEU:HD23	23:CB:274:THR:HA	1.98	0.45
24:CC:150:SER:HA	14:DO:75:THR:CG2	2.46	0.45
24:CC:7:ILE:HD13	24:CC:156:PRO:HD2	1.99	0.45
24:CC:164:GLU:HB3	24:CC:221:SER:HB3	1.99	0.45
24:CC:7:ILE:HD11	24:CC:25:LEU:HD13	1.98	0.45
24:CC:81:ILE:HG23	24:CC:82:PRO:N	2.32	0.45
25:CD:143:ARG:HG3	34:CM:150:LEU:HD12	1.98	0.45
27:CF:22:PHE:O	1:D1:2553:G:C5'	2.65	0.45
31:CJ:44:PHE:CZ	31:CJ:63:LEU:HD13	2.52	0.45
32:CK:18:GLY:HA2	1:D1:1397:G:H5''	1.97	0.45
32:CK:63:PHE:CE1	1:D1:282:G:C4	3.05	0.45
21:C3:33:U:C6	34:CM:212:TYR:CE1	3.01	0.45
34:CM:40:ASP:C	34:CM:42:ASP:N	2.69	0.45
39:CR:124:ILE:HG13	39:CR:124:ILE:H	1.49	0.45
41:CT:44:ARG:NH2	1:D1:2107:A:O2'	2.50	0.45
45:CX:36:ARG:HA	45:CX:37:PRO:HD2	1.83	0.45
1:D1:1017:U:H6	1:D1:1017:U:H3'	1.81	0.45
1:D1:1051:C:N1	1:D1:1052:A:C8	2.84	0.45
1:D1:1107:A:C4	1:D1:1108:A:C8	3.05	0.45
1:D1:1167:G:H2'	1:D1:1168:C:C6	2.52	0.45
1:D1:1385:C:O2'	1:D1:1386:U:H5'	2.16	0.45
22:CA:11:GLY:HA3	1:D1:2159:C:O2	2.16	0.45
22:CA:55:ARG:NH2	1:D1:2171:U:OP1	2.50	0.45
1:D1:2594:G:H2'	1:D1:2596:G:O6	2.17	0.45
1:D1:2698:A:H2'	1:D1:2699:C:C6	2.51	0.45
1:D1:3079:U:O2'	1:D1:3080:A:C5'	2.65	0.45
1:D1:3103:A:H2'	1:D1:3104:G:N7	2.32	0.45
1:D1:3228:U:C3'	1:D1:3229:C:H5'	2.47	0.45
24:CC:319:ARG:NH2	1:D1:634:G:C6	2.85	0.45
1:D1:1866:A:O4'	3:DB:45:ARG:NH1	2.50	0.45
5:DE:68:GLN:O	5:DE:68:GLN:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DG:10:ILE:HG12	7:DG:13:LYS:NZ	2.32	0.45
15:DP:53:PHE:CE1	15:DP:55:THR:CG2	2.98	0.45
18:DU:177:VAL:HA	18:DU:180:ILE:HD12	1.99	0.45
1:D1:73:G:H5'	18:DU:56:VAL:HG11	1.99	0.45
19:DX:131:GLN:O	19:DX:134:THR:HB	2.17	0.45
19:DX:15:GLN:NE2	19:DX:115:GLY:CA	2.80	0.45
19:DX:25:ALA:CB	19:DX:71:ARG:O	2.57	0.45
22:EA:41:TYR:CE1	1:F1:2541:U:N3	2.85	0.45
22:EA:52:GLU:HA	22:EA:53:PRO:HD3	1.82	0.45
24:EC:313:THR:HG22	24:EC:314:THR:H	1.81	0.45
27:EF:145:VAL:HG13	27:EF:173:VAL:CG2	2.47	0.45
29:EH:139:ARG:HB3	29:EH:173:PHE:CE1	2.51	0.45
30:EI:96:ALA:HB1	1:F1:3154:A:O2'	2.17	0.45
32:EK:17:HIS:CE1	1:F1:685:G:H5''	2.52	0.45
33:EL:174:LEU:HD22	33:EL:185:ARG:NH1	2.32	0.45
34:EM:5:LYS:HD3	1:F1:1064:C:H5''	1.97	0.45
32:EK:50:TRP:CD1	35:EN:156:PRO:HD2	2.50	0.45
37:EP:82:GLY:HA3	17:FT:16:SER:HB2	1.98	0.45
45:EX:6:VAL:CG1	45:EX:7:ALA:N	2.65	0.45
1:F1:1017:U:H3'	1:F1:1017:U:H6	1.81	0.45
45:EX:47:ARG:NH2	1:F1:1393:A:O3'	2.38	0.45
1:F1:111:C:H3'	1:F1:154:U:O4	2.16	0.45
1:F1:906:C:H1'	1:F1:1874:A:C8	2.51	0.45
22:EA:8:GLN:HA	1:F1:2159:C:H4'	1.98	0.45
1:F1:1338:G:O2'	1:F1:2376:A:H4'	2.17	0.45
1:F1:2391:G:H3'	1:F1:2393:A:H5''	1.99	0.45
1:F1:2504:U:H2'	1:F1:2505:U:C6	2.52	0.45
1:F1:2761:U:O2	18:FU:190:TRP:HZ2	2.00	0.45
1:F1:3234:U:O5'	1:F1:3234:U:H6	2.00	0.45
1:F1:3268:C:N4	1:F1:3269:G:C5	2.85	0.45
1:F1:3304:U:H2'	1:F1:3305:A:C8	2.52	0.45
1:F1:39:G:C5	1:F1:2789:A:C2	3.04	0.45
1:F1:435:A:N3	1:F1:435:A:C2'	2.78	0.45
1:F1:558:U:H2'	1:F1:559:G:C8	2.50	0.45
1:F1:585:A:C6	1:F1:586:A:C5	3.05	0.45
32:EK:19:HIS:HD2	1:F1:685:G:O6	1.99	0.45
1:F1:77:A:H2'	1:F1:78:G:C8	2.51	0.45
22:EA:182:LYS:HD3	1:F1:885:G:P	2.56	0.45
6:FF:14:TYR:CZ	6:FF:22:GLY:HA2	2.51	0.45
6:FF:6:PHE:HB3	19:FX:162:LYS:HB3	1.98	0.45
12:FM:79:LYS:HB2	12:FM:105:TYR:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:FX:94:LYS:HE2	19:FX:136:GLN:HG2	1.99	0.45
19:FX:168:THR:N	19:FX:188:THR:HG23	2.20	0.45
20:G2:105:A:OP2	20:G2:106:A:H2'	2.17	0.45
23:GB:138:ASP:OD1	23:GB:140:LYS:HG2	2.17	0.45
24:GC:100:GLN:NE2	1:H1:828:C:O2'	2.50	0.45
25:GD:20:ASN:OD1	25:GD:126:ASP:HB2	2.16	0.45
26:GE:34:ILE:HD11	26:GE:147:ILE:CG2	2.43	0.45
28:GG:23:UNK:HB1	28:GG:87:UNK:HB2	1.97	0.45
29:GH:191:VAL:HB	29:GH:198:LYS:HB2	1.97	0.45
32:GK:21:ARG:HD2	1:H1:1396:A:C5'	2.47	0.45
34:GM:247:PHE:O	34:GM:251:HIS:CD2	2.69	0.45
37:GP:82:GLY:CA	50:HT:205:HOH:O	2.64	0.45
39:GR:116:ARG:N	39:GR:133:ARG:O	2.45	0.45
42:GU:97:THR:HG22	42:GU:99:LYS:H	1.82	0.45
43:GV:114:PHE:CD2	43:GV:115:ARG:O	2.69	0.45
1:H1:1046:G:H2'	1:H1:1047:G:H8	1.81	0.45
1:H1:1233:G:C2'	1:H1:1234:G:H5'	2.47	0.45
1:H1:136:C:O2'	1:H1:137:A:H5'	2.16	0.45
1:H1:1711:U:H1'	12:HM:77:TYR:CE2	2.52	0.45
1:H1:1966:U:H2'	1:H1:1967:C:O5'	2.16	0.45
40:GS:59:ARG:NH1	1:H1:200:C:P	2.89	0.45
1:H1:1937:G:O2'	1:H1:2116:A:H1'	2.16	0.45
1:H1:2743:G:C3'	1:H1:2744:C:H5'	2.40	0.45
1:H1:2750:G:H4'	1:H1:2751:A:OP1	2.17	0.45
1:H1:2921:A:C6	1:H1:2922:A:N1	2.85	0.45
1:H1:3070:C:H2'	1:H1:3071:C:C6	2.52	0.45
23:GB:171:GLN:CD	1:H1:3273:U:H5''	2.37	0.45
1:H1:452:U:HO2'	1:H1:453:A:H8	1.65	0.45
1:H1:738:U:O2'	1:H1:778:G:OP1	2.33	0.45
1:H1:964:U:P	50:H1:3770:HOH:O	2.74	0.45
3:HB:38:ASN:ND2	3:HB:41:ARG:HG3	2.32	0.45
2:HA:25:ALA:HB1	3:HB:52:TYR:HD2	1.80	0.45
1:H1:3227:A:O2'	5:HE:86:PRO:CG	2.64	0.45
6:HF:7:VAL:HG23	6:HF:55:LEU:HD11	1.99	0.45
6:HF:79:PHE:O	6:HF:80:ASP:HB2	2.17	0.45
8:HH:57:VAL:O	8:HH:104:LEU:HD22	2.17	0.45
12:HM:55:ASN:ND2	12:HM:71:ILE:HD11	2.29	0.45
19:HX:96:GLN:HB3	19:HX:134:THR:CG2	2.47	0.45
1:A1:1042:U:H2'	1:A1:1043:C:C6	2.51	0.45
1:A1:1597:U:C2'	1:A1:1598:C:C6	2.95	0.45
1:A1:1691:U:H2'	1:A1:1692:G:H8	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2245:G:O2'	1:A1:2246:G:H5'	2.17	0.45
1:A1:2353:C:H3'	1:A1:2354:C:H6	1.82	0.45
1:A1:2561:A:N3	1:A1:2563:U:C6	2.84	0.45
1:A1:2962:U:C5'	1:A1:2962:U:H6	2.30	0.45
1:A1:2934:A:H2'	1:A1:2970:A:N7	2.31	0.45
1:A1:3228:U:C3'	1:A1:3229:C:C5'	2.94	0.45
1:A1:3346:G:H2'	1:A1:3347:A:H8	1.82	0.45
1:A1:345:C:C4	1:A1:347:A:C8	3.05	0.45
1:A1:364:A:H1'	24:BC:89:THR:HG23	1.98	0.45
1:A1:561:A:C2'	1:A1:562:G:H5'	2.47	0.45
1:A1:665:C:H2'	1:A1:666:U:O4'	2.17	0.45
1:A1:689:A:H2'	1:A1:690:U:H6	1.82	0.45
1:A1:766:G:HO2'	1:A1:767:C:P	2.40	0.45
6:AF:96:ILE:O	6:AF:99:LYS:HB2	2.16	0.45
18:AU:72:GLY:HA3	18:AU:96:ASP:CB	2.46	0.45
1:A1:256:A:H4'	18:AU:84:SER:HB3	1.98	0.45
6:AF:30:ILE:CG2	19:AX:163:PHE:HE2	2.25	0.45
20:B2:105:A:C5'	20:B2:106:A:H5''	2.27	0.45
20:B2:119:A:C2	20:B2:133:U:O2	2.70	0.45
1:A1:681:A:H5'	20:B2:20:A:O2'	2.17	0.45
23:BB:117:ARG:NH1	23:BB:173:LYS:HG2	2.31	0.45
23:BB:56:ILE:HG21	23:BB:354:LEU:CD2	2.47	0.45
24:BC:143:PHE:CE1	24:BC:149:ILE:HB	2.52	0.45
24:BC:173:VAL:HG12	24:BC:177:LYS:HE3	1.98	0.45
24:BC:273:TYR:HB3	24:BC:287:ARG:HH12	1.81	0.45
24:BC:311:ALA:H	35:BN:40:ARG:HH22	1.62	0.45
30:BI:99:GLU:HG2	30:BI:99:GLU:O	2.15	0.45
31:BJ:83:ILE:CG2	31:BJ:122:VAL:HA	2.47	0.45
32:BK:75:VAL:CG2	32:BK:109:PHE:CB	2.95	0.45
34:BM:131:ASN:HB3	34:BM:133:ASP:OD1	2.17	0.45
21:B3:48:G:O2'	34:BM:227:GLN:CG	2.65	0.45
37:BP:11:THR:CG2	37:BP:15:PHE:CD2	2.99	0.45
38:BQ:117:GLN:O	38:BQ:151:PHE:O	2.34	0.45
40:BS:21:SER:HB2	40:BS:26:ARG:HG2	1.97	0.45
1:A1:3325:G:N9	41:BT:58:ARG:NH2	2.64	0.45
43:BV:188:VAL:O	43:BV:188:VAL:HG12	2.17	0.45
45:BX:113:ARG:O	45:BX:117:LEU:HG	2.16	0.45
45:BX:69:LEU:HG	45:BX:73:PHE:O	2.17	0.45
20:C2:108:G:H4'	20:C2:135:A:H5'	1.98	0.45
20:C2:130:C:C2'	20:C2:131:C:H5'	2.47	0.45
21:C3:64:A:H5'	21:C3:65:G:OP2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:239:ARG:NH1	1:D1:2158:C:C5'	2.62	0.45
22:CA:33:TYR:HD1	22:CA:164:ARG:NH2	2.15	0.45
23:CB:121:ASN:HB3	1:D1:3275:A:C6	2.51	0.45
23:CB:128:LYS:HD3	23:CB:128:LYS:HA	1.83	0.45
23:CB:220:LYS:HG2	23:CB:329:PRO:CD	2.47	0.45
24:CC:299:ILE:HA	24:CC:304:VAL:HG11	1.99	0.45
26:CE:88:PHE:HD2	26:CE:152:VAL:HG12	1.82	0.45
28:CG:23:UNK:HB1	28:CG:87:UNK:HB2	1.97	0.45
29:CH:101:LYS:HB3	29:CH:121:LYS:HZ3	1.74	0.45
34:CM:216:LEU:HD12	34:CM:228:PHE:CE1	2.52	0.45
34:CM:75:LEU:HA	34:CM:75:LEU:HD23	1.61	0.45
35:CN:178:HIS:ND1	35:CN:179:GLY:O	2.50	0.45
47:CO:21:ARG:NH1	47:CO:52:LYS:HE3	2.32	0.45
37:CP:27:ILE:CA	37:CP:30:TYR:HD2	2.21	0.45
38:CQ:66:THR:CG2	38:CQ:82:GLN:NE2	2.80	0.45
39:CR:145:ASN:HD22	39:CR:150:ILE:HD11	1.82	0.45
39:CR:69:SER:O	39:CR:95:HIS:HB2	2.17	0.45
42:CU:66:ARG:O	42:CU:69:ALA:HB3	2.17	0.45
44:CW:79:ASN:OD1	44:CW:81:GLU:HG2	2.17	0.45
46:CY:74:PRO:N	46:CY:75:PRO:CD	2.79	0.45
1:D1:1105:U:C2	1:D1:1111:G:C2	3.05	0.45
1:D1:116:U:C6	1:D1:117:G:N7	2.85	0.45
1:D1:1334:G:N3	1:D1:1335:A:C2	2.85	0.45
1:D1:1348:G:C2'	1:D1:1349:U:O5'	2.65	0.45
1:D1:1398:G:C2'	1:D1:1399:A:O5'	2.64	0.45
1:D1:1404:G:H5'	1:D1:1434:G:HO2'	1.80	0.45
1:D1:1552:U:O2	1:D1:1620:U:H5'	2.17	0.45
1:D1:1592:G:H2'	1:D1:1593:A:H8	1.78	0.45
1:D1:20:G:C4	1:D1:21:A:C8	3.05	0.45
1:D1:2343:A:C3'	1:D1:2344:U:C5'	2.90	0.45
27:CF:232:GLN:OE1	1:D1:2573:U:H1'	2.17	0.45
1:D1:2595:G:H8	50:D1:4099:HOH:O	1.87	0.45
1:D1:3000:A:N1	1:D1:3032:C:O2'	2.37	0.45
1:D1:3085:C:H2'	1:D1:3086:U:H6	1.82	0.45
30:CI:73:ARG:NH1	1:D1:3123:A:OP1	2.50	0.45
1:D1:314:C:H2'	1:D1:315:U:H6	1.81	0.45
1:D1:376:A:C5'	1:D1:377:A:OP1	2.64	0.45
1:D1:992:A:N6	1:D1:993:G:C6	2.84	0.45
5:DE:124:LYS:HG2	5:DE:132:ALA:CB	2.46	0.45
6:DF:121:THR:CG2	6:DF:121:THR:O	2.65	0.45
6:DF:13:VAL:HG21	6:DF:27:ILE:CD1	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DF:14:TYR:OH	6:DF:22:GLY:HA2	2.16	0.45
26:CE:179:VAL:HB	10:DK:89:TYR:OH	2.16	0.45
27:CF:22:PHE:CD1	13:DN:54:THR:O	2.69	0.45
13:DN:76:ASN:C	13:DN:76:ASN:OD1	2.54	0.45
19:DX:7:GLN:HE22	19:DX:80:GLU:CA	2.29	0.45
20:E2:110:A:C2	20:E2:115:G:O6	2.69	0.45
21:E3:83:G:C2	21:E3:93:G:N2	2.84	0.45
23:EB:117:ARG:HD2	23:EB:117:ARG:HA	1.60	0.45
23:EB:218:VAL:HA	23:EB:271:HIS:O	2.17	0.45
23:EB:218:VAL:O	23:EB:332:ARG:NE	2.49	0.45
24:EC:240:ARG:HB2	1:F1:719:C:H1'	1.98	0.45
24:EC:34:ARG:O	24:EC:38:VAL:HG23	2.17	0.45
25:ED:7:ASN:C	25:ED:9:MET:N	2.69	0.45
27:EF:143:LEU:HD23	27:EF:169:PRO:HG2	1.98	0.45
27:EF:83:SER:O	27:EF:87:LYS:HG3	2.17	0.45
29:EH:201:GLY:O	29:EH:208:ARG:NH2	2.50	0.45
30:EI:91:THR:HG22	30:EI:93:LYS:H	1.81	0.45
34:EM:99:TYR:CG	34:EM:204:ILE:CG2	2.99	0.45
35:EN:88:THR:HG22	35:EN:107:THR:CG2	2.46	0.45
38:EQ:61:PRO:HG2	38:EQ:78:PHE:CD1	2.52	0.45
43:EV:238:MET:HE2	43:EV:238:MET:HB3	1.91	0.45
46:EY:72:THR:HG22	46:EY:77:VAL:CG2	2.47	0.45
1:F1:1040:A:H3'	1:F1:1041:C:C6	2.52	0.45
1:F1:1048:U:H2'	1:F1:1049:U:O4'	2.17	0.45
1:F1:1109:A:C4'	1:F1:1110:U:O5'	2.62	0.45
1:F1:1248:G:C8	1:F1:1248:G:O5'	2.70	0.45
1:F1:1497:U:H2'	1:F1:1498:U:C6	2.52	0.45
1:F1:1680:A:H4'	1:F1:1681:C:O5'	2.17	0.45
1:F1:1685:A:H2'	1:F1:1686:G:C8	2.52	0.45
1:F1:1719:U:N3	1:F1:1775:A:H2	2.07	0.45
1:F1:1554:G:N2	1:F1:1857:G:C4	2.85	0.45
1:F1:20:G:C5	1:F1:21:A:C8	3.05	0.45
1:F1:312:U:H2'	1:F1:313:U:H6	1.79	0.45
1:F1:3275:A:H2'	1:F1:3276:C:OP2	2.15	0.45
24:EC:126:ARG:NH2	1:F1:720:C:H5''	2.30	0.45
5:FE:69:LEU:HD21	5:FE:114:ASP:HA	1.99	0.45
5:FE:41:LEU:HA	5:FE:92:GLN:HE22	1.78	0.45
5:FE:67:LYS:HD2	5:FE:109:THR:CB	2.47	0.45
8:FH:107:MET:HB3	8:FH:109:TYR:CE2	2.52	0.45
8:FH:48:VAL:HG22	8:FH:85:GLY:HA2	1.99	0.45
9:FJ:89:PRO:O	9:FJ:92:VAL:HG12	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:FQ:68:LYS:HG3	16:FQ:69:ASP:N	2.32	0.45
19:FX:89:TYR:O	19:FX:107:GLU:HA	2.16	0.45
20:G2:50:C:N4	50:G2:315:HOH:O	2.50	0.45
22:GA:212:HIS:O	22:GA:214:GLY:N	2.50	0.45
23:GB:114:THR:CG2	23:GB:115:LYS:N	2.79	0.45
23:GB:23:ARG:HE	23:GB:24:HIS:CE1	2.34	0.45
23:GB:340:ILE:HG13	23:GB:341:ILE:H	1.81	0.45
27:GF:69:GLN:HE21	27:GF:222:ARG:HH12	1.65	0.45
31:GJ:83:ILE:CD1	31:GJ:105:VAL:HG23	2.44	0.45
31:GJ:46:ILE:CD1	31:GJ:54:PRO:CB	2.92	0.45
32:GK:109:PHE:C	32:GK:110:PHE:CD1	2.90	0.45
32:GK:126:LYS:HZ2	18:HU:162:ARG:HE	1.63	0.45
32:GK:8:THR:HG21	1:H1:685:G:H5'	1.98	0.45
33:GL:177:LYS:HG2	33:GL:185:ARG:HH21	1.80	0.45
33:GL:183:SER:HB3	33:GL:195:ARG:HH22	1.81	0.45
34:GM:200:HIS:O	34:GM:204:ILE:HG13	2.16	0.45
37:GP:52:MET:HA	37:GP:95:HIS:CE1	2.52	0.45
38:GQ:66:THR:HG23	38:GQ:82:GLN:NE2	2.32	0.45
43:GV:18:LYS:O	43:GV:21:LYS:HB2	2.17	0.45
44:GW:91:LEU:HA	44:GW:91:LEU:HD23	1.65	0.45
1:H1:1028:A:C2	1:H1:1076:U:O2'	2.68	0.45
1:H1:1040:A:C2'	1:H1:1041:C:H5'	2.47	0.45
1:H1:1235:U:H4'	1:H1:1235:U:OP1	2.15	0.45
1:H1:1319:C:H2'	1:H1:1320:U:C6	2.48	0.45
1:H1:1499:G:O2'	1:H1:1500:A:H5'	2.17	0.45
1:H1:1772:G:C2'	1:H1:1773:G:H5'	2.47	0.45
1:H1:1909:C:HO2'	1:H1:1910:A:P	2.24	0.45
1:H1:1964:G:H2'	1:H1:1965:C:O4'	2.16	0.45
1:H1:199:A:C4	1:H1:201:A:C8	3.05	0.45
33:GL:74:PRO:HA	1:H1:2162:A:H1'	1.99	0.45
1:H1:220:C:C4'	1:H1:221:A:OP2	2.58	0.45
1:H1:2548:G:HO2'	1:H1:2549:U:P	2.35	0.45
1:H1:282:G:H22	1:H1:304:U:H4'	1.76	0.45
1:H1:3011:G:C1'	1:H1:3012:U:OP2	2.64	0.45
1:H1:3332:A:C3'	1:H1:3333:G:C5'	2.95	0.45
1:H1:486:C:C2'	1:H1:487:G:H5'	2.46	0.45
1:H1:585:A:C5	1:H1:586:A:C5	3.04	0.45
1:H1:636:U:H4'	5:HE:34:LYS:HE2	1.98	0.45
1:H1:653:C:C2	1:H1:654:U:C5	3.05	0.45
1:H1:687:C:H2'	1:H1:688:U:C6	2.51	0.45
1:H1:692:A:H2'	1:H1:693:A:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:820:G:C2'	1:H1:821:U:C5'	2.94	0.45
1:H1:941:G:O6	1:H1:2409:G:O2'	2.27	0.45
4:HC:77:THR:HG22	4:HC:78:LYS:N	2.32	0.45
1:H1:439:A:C5'	5:HE:126:HIS:ND1	2.67	0.45
9:HJ:160:LEU:HD12	9:HJ:182:CYS:O	2.17	0.45
13:HN:57:MET:HE3	13:HN:65:ARG:NH1	2.31	0.45
1:H1:1775:A:C4'	15:HP:34:LYS:HZ1	2.21	0.45
1:A1:1017:U:H3'	1:A1:1017:U:H6	1.82	0.45
1:A1:1440:A:C5	1:A1:1441:U:C5	3.04	0.45
1:A1:1839:A:O2'	1:A1:1840:U:C6	2.70	0.45
1:A1:1909:C:HO2'	1:A1:1910:A:P	2.20	0.45
1:A1:2140:A:P	50:A1:4100:HOH:O	2.75	0.45
1:A1:2188:U:O2'	1:A1:2189:G:OP2	2.21	0.45
1:A1:2531:U:C2	1:A1:2532:G:H1'	2.52	0.45
1:A1:2683:A:C5'	1:A1:2684:A:OP2	2.65	0.45
1:A1:3155:A:N7	8:AH:101:GLY:C	2.70	0.45
1:A1:269:U:HO2'	1:A1:317:A:H1'	1.79	0.45
1:A1:3183:A:H4'	1:A1:3184:A:OP1	2.17	0.45
1:A1:3303:G:H2'	1:A1:3304:U:C6	2.51	0.45
1:A1:633:C:H3'	5:AE:30:ARG:NH2	2.29	0.45
2:AA:11:ARG:H	2:AA:11:ARG:HG3	1.66	0.45
5:AE:57:ARG:CZ	5:AE:58:PHE:CE1	3.00	0.45
5:AE:66:LEU:HD11	5:AE:77:THR:OG1	2.17	0.45
9:AJ:182:CYS:HB2	9:AJ:221:ILE:HD12	1.99	0.45
11:AL:96:LEU:HD23	11:AL:96:LEU:HA	1.71	0.45
14:AO:109:LYS:O	14:AO:113:ASN:ND2	2.50	0.45
1:A1:510:A:H5'	14:AO:68:HIS:O	2.17	0.45
1:A1:296:G:C3'	16:AQ:34:LEU:HD21	2.47	0.45
19:AX:167:LYS:HG2	19:AX:188:THR:CG2	2.45	0.45
19:AX:42:ARG:NE	19:AX:44:PHE:HE1	2.15	0.45
20:B2:130:C:C2'	20:B2:131:C:H5'	2.47	0.45
23:BB:301:LYS:HG2	23:BB:359:THR:HG21	1.99	0.45
25:BD:7:ASN:C	25:BD:9:MET:N	2.70	0.45
29:BH:136:PHE:HE1	29:BH:159:PHE:HZ	1.65	0.45
30:BI:46:LEU:HA	30:BI:135:CYS:SG	2.57	0.45
1:A1:288:A:H2	33:BL:93:LYS:HG3	1.81	0.45
34:BM:75:LEU:HD23	34:BM:75:LEU:HA	1.64	0.45
24:BC:34:ARG:NE	35:BN:24:ASN:HB2	2.32	0.45
34:BM:34:LYS:HE3	37:BP:30:TYR:HE1	1.82	0.45
1:A1:3325:G:C5	41:BT:58:ARG:NE	2.84	0.45
42:BU:41:THR:H	42:BU:44:LYS:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:4:GLN:HE21	44:BW:76:LYS:HZ1	1.65	0.45
1:A1:1188:G:H2'	45:BX:58:GLY:HA3	1.99	0.45
24:CC:117:HIS:HB2	33:CL:202:ARG:O	2.17	0.45
24:CC:40:LYS:O	24:CC:43:THR:HB	2.17	0.45
27:CF:122:PRO:CD	1:D1:118:A:C8	3.00	0.45
27:CF:136:ILE:O	27:CF:166:ASN:ND2	2.50	0.45
34:CM:242:SER:OG	34:CM:245:LYS:HG2	2.17	0.45
35:CN:31:ILE:O	35:CN:35:LYS:HG3	2.16	0.45
47:CO:5:ARG:HD2	47:CO:5:ARG:HA	1.76	0.45
38:CQ:122:ASN:HB2	38:CQ:147:HIS:HB2	1.98	0.45
38:CQ:71:ARG:HG2	38:CQ:81:THR:CG2	2.45	0.45
39:CR:39:ARG:CZ	1:D1:11:A:H4'	2.46	0.45
39:CR:56:ARG:HB3	39:CR:61:VAL:CG2	2.44	0.45
40:CS:86:LYS:HE3	40:CS:96:ILE:CD1	2.47	0.45
44:CW:68:ARG:C	44:CW:69:ARG:HG2	2.37	0.45
30:CI:27:LEU:HD11	1:D1:1203:C:H5'	1.98	0.45
1:D1:1222:A:H2'	1:D1:1336:U:O2	2.16	0.45
1:D1:1550:A:C5	1:D1:1632:U:C6	3.05	0.45
1:D1:1595:A:C5	1:D1:1596:U:C1'	2.96	0.45
1:D1:1845:U:H3	11:DL:69:ARG:HG3	1.82	0.45
1:D1:2245:G:C6	1:D1:2246:G:C5	3.04	0.45
1:D1:170:A:C5	1:D1:250:U:N3	2.85	0.45
1:D1:2515:G:C6	1:D1:2516:U:C4	3.04	0.45
1:D1:2888:A:O2'	1:D1:2889:G:H5'	2.16	0.45
1:D1:3111:A:H2'	1:D1:3112:A:H5''	1.98	0.45
1:D1:3132:A:C2'	1:D1:3133:G:OP1	2.65	0.45
1:D1:64:A:H5'	1:D1:315:U:OP1	2.16	0.45
1:D1:3198:A:C5	1:D1:3199:G:C5	3.05	0.45
1:D1:3225:U:C4	1:D1:3226:A:N7	2.85	0.45
38:CQ:57:LYS:HE2	1:D1:3259:U:O2'	2.16	0.45
1:D1:614:G:OP1	8:DH:113:ALA:C	2.55	0.45
1:D1:828:C:HO2'	1:D1:829:C:H5'	1.82	0.45
30:CI:196:PHE:HZ	6:DF:107:ASP:HA	1.81	0.45
8:DH:20:PHE:CD1	8:DH:20:PHE:C	2.91	0.45
5:DE:187:HIS:HB3	8:DH:51:TYR:CE1	2.52	0.45
12:DM:96:TYR:HD1	12:DM:110:PHE:HD1	1.65	0.45
18:DU:123:LEU:CD2	18:DU:135:LEU:O	2.64	0.45
19:DX:188:THR:O	19:DX:189:PHE:CB	2.65	0.45
20:E2:27:G:C8	20:E2:27:G:H5'	2.46	0.45
20:E2:77:U:C4	40:ES:73:TYR:CE2	3.04	0.45
22:EA:3:ARG:HB3	22:EA:208:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:263:PRO:O	23:EB:264:ARG:HG2	2.17	0.45
23:EB:22:THR:OG1	23:EB:271:HIS:HA	2.17	0.45
23:EB:33:PRO:CD	23:EB:44:THR:CG2	2.95	0.45
25:ED:131:LEU:HD11	25:ED:162:TRP:CE3	2.52	0.45
26:EE:5:LEU:HD13	26:EE:58:TRP:CH2	2.52	0.45
29:EH:101:LYS:HB3	29:EH:121:LYS:HZ3	1.77	0.45
29:EH:17:TYR:HD2	29:EH:96:VAL:HB	1.81	0.45
30:EI:64:ASN:ND2	30:EI:64:ASN:C	2.70	0.45
30:EI:69:VAL:HG22	1:F1:2377:G:O2'	2.15	0.45
32:EK:75:VAL:HG22	32:EK:109:PHE:CG	2.50	0.45
33:EL:59:TYR:OH	33:EL:148:ILE:CD1	2.64	0.45
33:EL:69:GLY:O	1:F1:289:G:H4'	2.17	0.45
34:EM:66:TYR:CZ	34:EM:73:ARG:HB2	2.52	0.45
34:EM:76:CYS:O	34:EM:105:LEU:HD11	2.17	0.45
35:EN:63:LEU:HD21	35:EN:140:LEU:HB3	1.98	0.45
37:EP:8:ARG:C	37:EP:11:THR:HG1	2.19	0.45
43:EV:82:PHE:HB3	43:EV:231:ILE:CD1	2.46	0.45
45:EX:8:HIS:NE2	45:EX:72:GLY:HA2	2.31	0.45
1:F1:1221:G:C6	1:F1:1222:A:N6	2.85	0.45
1:F1:1549:U:H5''	1:F1:1632:U:O2	2.17	0.45
1:F1:1655:A:C4	1:F1:1669:G:C5	3.05	0.45
1:F1:1728:A:C2'	1:F1:1729:U:OP2	2.65	0.45
1:F1:1907:A:H2'	1:F1:1908:A:C8	2.52	0.45
1:F1:2133:U:OP1	50:F1:3994:HOH:O	2.21	0.45
1:F1:2248:G:N2	1:F1:2259:U:O2	2.50	0.45
1:F1:2515:G:C6	1:F1:2516:U:C4	3.05	0.45
1:F1:2630:U:H5''	1:F1:2631:A:OP1	2.17	0.45
1:F1:3228:U:C3'	1:F1:3229:C:H5'	2.47	0.45
1:F1:3232:A:OP1	5:FE:88:LYS:NZ	2.34	0.45
1:F1:3298:U:C1'	1:F1:3299:G:P	3.05	0.45
20:E2:27:G:H1'	1:F1:348:A:C4	2.52	0.45
1:F1:526:U:O2'	1:F1:527:A:O5'	2.35	0.45
1:F1:561:A:O2'	1:F1:562:G:H5'	2.16	0.45
1:F1:703:U:O2'	1:F1:704:G:H5'	2.17	0.45
1:F1:70:C:O2'	1:F1:71:U:H5''	2.17	0.45
1:F1:827:C:O2'	1:F1:828:C:H5'	2.16	0.45
1:F1:979:U:H4'	17:FT:8:THR:O	2.17	0.45
2:FA:4:GLY:C	2:FA:6:PRO:CD	2.85	0.45
5:FE:77:THR:CG2	5:FE:157:ASP:OD1	2.65	0.45
7:FG:13:LYS:CD	7:FG:100:ILE:HD13	2.42	0.45
7:FG:27:TYR:HE2	7:FG:52:ARG:HG2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3155:A:H62	8:FH:101:GLY:N	2.14	0.45
1:F1:3237:C:N4	8:FH:9:VAL:C	2.70	0.45
31:EJ:139:SER:HA	9:FJ:102:SER:H	1.82	0.45
9:FJ:186:ILE:HG12	9:FJ:187:ASN:H	1.81	0.45
9:FJ:4:ARG:HA	9:FJ:206:CYS:O	2.17	0.45
12:FM:110:PHE:O	12:FM:111:ASN:CB	2.65	0.45
13:FN:95:GLU:HA	13:FN:95:GLU:OE1	2.17	0.45
23:GB:119:TYR:CE2	23:GB:122:TRP:CZ3	3.00	0.45
23:GB:56:ILE:HG21	23:GB:354:LEU:CD2	2.45	0.45
24:GC:214:VAL:HG21	24:GC:227:LEU:HD11	1.98	0.45
26:GE:19:THR:HB	26:GE:26:GLU:HB2	1.99	0.45
29:GH:140:VAL:HG11	29:GH:144:HIS:CB	2.40	0.45
30:GI:101:LEU:HD11	30:GI:103:ILE:HG12	1.99	0.45
30:GI:184:PRO:HA	30:GI:187:LYS:HE2	1.99	0.45
31:GJ:11:VAL:HG21	31:GJ:131:PRO:HD3	1.99	0.45
32:GK:15:VAL:HA	1:H1:968:U:OP1	2.17	0.45
35:GN:67:ARG:HH21	1:H1:809:A:H3'	1.82	0.45
36:GO:96:MET:CE	36:GO:100:ARG:NH2	2.80	0.45
39:GR:145:ASN:HD22	39:GR:150:ILE:CD1	2.30	0.45
20:G2:81:G:C4'	42:GU:42:ALA:HB1	2.47	0.45
42:GU:69:ALA:O	42:GU:72:ASP:HB2	2.17	0.45
1:H1:1037:A:O2'	1:H1:1038:G:H5'	2.17	0.45
1:H1:1172:G:H1'	1:H1:1187:C:N3	2.32	0.45
1:H1:1533:G:H5''	1:H1:1533:G:H8	1.82	0.45
1:H1:2103:A:H2'	1:H1:2104:C:C6	2.52	0.45
1:H1:2189:G:H1'	1:H1:2269:U:O2	2.17	0.45
1:H1:292:C:OP1	1:H1:2427:U:C5'	2.65	0.45
1:H1:3115:C:H2'	1:H1:3116:A:O5'	2.16	0.45
1:H1:331:C:H2'	1:H1:332:G:C5'	2.44	0.45
1:H1:652:U:C2	1:H1:653:C:C6	3.04	0.45
1:H1:738:U:O2'	1:H1:739:G:H5'	2.17	0.45
4:HC:11:TYR:CE1	4:HC:13:LYS:HA	2.52	0.45
5:HE:117:PHE:HA	5:HE:149:ARG:NH2	2.32	0.45
9:HJ:46:ILE:HD11	9:HJ:202:TRP:CZ2	2.52	0.45
9:HJ:211:THR:O	9:HJ:215:ILE:HG13	2.17	0.45
13:HN:25:ILE:HG23	13:HN:41:VAL:CG1	2.44	0.45
15:HP:42:PHE:C	15:HP:43:LYS:HG2	2.37	0.45
1:A1:1126:A:C5	1:A1:1127:U:C5	3.04	0.45
1:A1:126:A:C5	1:A1:139:A:C6	3.05	0.45
1:A1:1752:G:OP1	1:A1:1753:A:O2'	2.27	0.45
1:A1:2283:G:C6	1:A1:2284:U:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2539:A:C2	1:A1:2540:G:C8	3.05	0.45
1:A1:2576:C:HO2'	27:BF:44:PHE:HD1	1.65	0.45
1:A1:269:U:H2'	1:A1:270:C:C6	2.51	0.45
1:A1:3048:A:H5''	44:BW:68:ARG:NH2	2.32	0.45
1:A1:3079:U:C2'	1:A1:3080:A:O5'	2.65	0.45
1:A1:467:A:C5	1:A1:468:A:C5	3.05	0.45
1:A1:687:C:C2	1:A1:688:U:C5	3.04	0.45
1:A1:766:G:C2'	1:A1:767:C:OP2	2.65	0.45
1:A1:729:A:C1'	1:A1:810:G:N2	2.80	0.45
1:A1:933:G:C4'	1:A1:934:G:H5''	2.46	0.45
5:AE:122:ALA:CB	5:AE:132:ALA:HB1	2.47	0.45
5:AE:90:VAL:CG1	5:AE:91:ASN:N	2.80	0.45
1:A1:1191:G:H5''	8:AH:33:ASN:HD21	1.82	0.45
9:AJ:12:ASP:O	9:AJ:13:ILE:C	2.55	0.45
13:AN:46:VAL:HG13	13:AN:46:VAL:O	2.17	0.45
1:A1:510:A:H5''	14:AO:68:HIS:O	2.17	0.45
16:AQ:83:THR:O	16:AQ:84:HIS:C	2.55	0.45
19:AX:117:VAL:O	19:AX:120:LEU:HB3	2.17	0.45
1:A1:3177:G:C2	19:AX:177:TYR:CE2	3.05	0.45
19:AX:8:GLU:OE2	19:AX:19:ARG:NH1	2.44	0.45
21:B3:35:C:N4	21:B3:46:C:H1'	2.31	0.45
21:B3:60:C:H5''	34:BM:281:LYS:HG2	1.97	0.45
1:A1:2159:C:O2	22:BA:11:GLY:HA3	2.16	0.45
24:BC:33:ILE:CD1	24:BC:135:ALA:HA	2.45	0.45
26:BE:141:THR:CG2	26:BE:142:LEU:N	2.80	0.45
29:BH:44:GLU:HA	29:BH:44:GLU:OE1	2.17	0.45
33:BL:118:SER:HB3	33:BL:132:VAL:HG22	1.99	0.45
34:BM:133:ASP:HB3	34:BM:172:ASN:ND2	2.32	0.45
35:BN:67:ARG:HD3	35:BN:67:ARG:HA	1.65	0.45
35:BN:73:ASN:OD1	35:BN:74:GLU:OE1	2.35	0.45
40:BS:21:SER:OG	40:BS:26:ARG:HG2	2.17	0.45
1:A1:1360:C:O2'	43:BV:109:HIS:HD2	2.00	0.45
43:BV:200:TRP:CD2	43:BV:201:PRO:HD2	2.52	0.45
19:AX:46:ARG:NH2	43:BV:219:HIS:O	2.49	0.45
1:A1:969:C:O5'	45:BX:35:ARG:NH1	2.50	0.45
21:C3:62:U:HO2'	21:C3:63:A:P	2.38	0.45
22:CA:136:THR:HB	22:CA:150:ARG:HB3	1.99	0.45
22:CA:203:VAL:HA	22:CA:213:GLY:HA2	1.97	0.45
22:CA:43:ARG:HD2	22:CA:88:TYR:CD1	2.52	0.45
22:CA:43:ARG:O	22:CA:43:ARG:HG3	2.16	0.45
24:CC:145:ARG:NH1	24:CC:248:PRO:HD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CC:33:ILE:CG2	24:CC:33:ILE:O	2.65	0.45
24:CC:359:LEU:HD21	24:CC:363:ARG:HH21	1.82	0.45
26:CE:88:PHE:HD2	26:CE:152:VAL:CG1	2.29	0.45
27:CF:126:LYS:CE	27:CF:194:THR:OG1	2.65	0.45
33:CL:112:GLU:H	33:CL:112:GLU:CD	2.21	0.45
33:CL:63:ARG:HG2	33:CL:131:GLU:HG3	1.98	0.45
33:CL:145:ASP:O	33:CL:149:ASN:HB3	2.16	0.45
34:CM:181:PRO:HD2	34:CM:200:HIS:ND1	2.31	0.45
34:CM:54:ARG:HA	34:CM:54:ARG:HD3	1.60	0.45
47:CO:144:VAL:O	47:CO:147:ALA:HB3	2.16	0.45
37:CP:48:GLN:HG3	37:CP:94:GLU:HG3	1.98	0.45
40:CS:55:VAL:CG1	40:CS:56:LEU:N	2.80	0.45
42:CU:122:LEU:HD13	18:DU:150:LEU:HD21	1.99	0.45
43:CV:134:GLY:HA3	43:CV:231:ILE:HB	1.98	0.45
43:CV:170:LEU:HA	43:CV:170:LEU:HD23	1.58	0.45
45:CX:53:ARG:HD3	45:CX:53:ARG:HA	1.40	0.45
37:CP:125:ARG:HG2	1:D1:1122:A:N7	2.32	0.45
1:D1:1168:C:N4	1:D1:1169:G:C6	2.85	0.45
1:D1:1843:U:C2	1:D1:1844:U:C5	3.05	0.45
1:D1:191:U:O2	1:D1:191:U:H2'	2.17	0.45
1:D1:2104:C:O2'	1:D1:2105:U:H5'	2.17	0.45
1:D1:2135:A:C8	2:DA:2:THR:HG23	2.52	0.45
1:D1:2635:C:H5'	1:D1:2635:C:C6	2.39	0.45
1:D1:2767:A:H2'	1:D1:2768:G:O5'	2.17	0.45
1:D1:291:C:C3'	1:D1:292:C:H5''	2.47	0.45
1:D1:296:G:H8	1:D1:296:G:P	2.39	0.45
1:D1:3177:G:H8	1:D1:3177:G:OP1	1.99	0.45
1:D1:3228:U:C3'	1:D1:3229:C:C5'	2.94	0.45
1:D1:347:A:H4'	1:D1:366:A:N6	2.32	0.45
1:D1:526:U:O2'	1:D1:527:A:O5'	2.35	0.45
24:CC:49:ARG:CZ	1:D1:713:G:N2	2.80	0.45
1:D1:72:A:C2	1:D1:73:G:C8	3.05	0.45
33:CL:81:TYR:OH	1:D1:933:G:H5'	2.17	0.45
1:D1:970:C:H1'	1:D1:1433:A:N3	2.32	0.45
1:D1:2543:C:N4	7:DG:54:SER:HB3	2.31	0.45
8:DH:52:GLN:O	8:DH:77:ILE:O	2.35	0.45
9:DJ:123:ARG:CZ	9:FJ:123:ARG:HE	2.30	0.45
13:DN:76:ASN:OD1	13:DN:77:LEU:N	2.50	0.45
14:DO:58:ILE:O	14:DO:83:VAL:HG22	2.16	0.45
21:E3:95:U:H2'	21:E3:96:U:C6	2.52	0.45
22:EA:192:ARG:CZ	1:F1:1821:U:OP2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:143:PHE:CE1	24:EC:149:ILE:HB	2.52	0.45
29:EH:84:ALA:O	29:EH:140:VAL:HG13	2.17	0.45
29:EH:73:ASN:O	29:EH:77:ILE:HG23	2.17	0.45
31:EJ:28:ASN:N	31:EJ:102:ASN:O	2.47	0.45
33:EL:192:TRP:CZ2	33:EL:196:GLN:HG3	2.52	0.45
34:EM:28:THR:O	1:F1:2692:A:N6	2.40	0.45
34:EM:40:ASP:C	34:EM:42:ASP:N	2.71	0.45
35:EN:114:ILE:O	35:EN:119:GLY:HA3	2.17	0.45
35:EN:27:HIS:CD2	35:EN:31:ILE:HD11	2.51	0.45
36:EO:97:ARG:O	36:EO:101:VAL:HG23	2.17	0.45
37:EP:21:THR:HA	37:EP:24:HIS:HD2	1.75	0.45
1:F1:1235:U:H4'	1:F1:1235:U:OP1	2.15	0.45
45:EX:62:ASP:HA	1:F1:1366:C:C5'	2.47	0.45
1:F1:1394:G:O2'	1:F1:1395:U:O5'	2.33	0.45
1:F1:1682:G:H2'	1:F1:1683:U:H6	1.82	0.45
1:F1:1769:U:H2'	1:F1:1770:A:H8	1.82	0.45
1:F1:1812:G:O2'	1:F1:1813:A:H5'	2.17	0.45
1:F1:2187:C:H2'	1:F1:2188:U:C5'	2.47	0.45
1:F1:2194:G:C2'	1:F1:2195:U:H5'	2.47	0.45
1:F1:2353:C:H3'	1:F1:2354:C:H6	1.81	0.45
1:F1:2576:C:C4'	1:F1:2576:C:C6	3.00	0.45
1:F1:261:U:H2'	1:F1:262:C:H5'	1.99	0.45
1:F1:2669:A:O3'	1:F1:2670:U:C6	2.60	0.45
33:EL:68:ARG:NH1	1:F1:291:C:OP2	2.36	0.45
1:F1:2949:G:H2'	1:F1:2950:U:C6	2.52	0.45
1:F1:3175:A:N1	1:F1:3177:G:N1	2.65	0.45
1:F1:3316:C:N4	1:F1:3317:G:C6	2.85	0.45
1:F1:401:U:O2	1:F1:401:U:H2'	2.17	0.45
1:F1:434:A:C5'	1:F1:435:A:OP1	2.62	0.45
1:F1:882:G:C2'	1:F1:883:A:OP2	2.64	0.45
20:E2:60:C:C5	2:FA:64:ARG:NH1	2.85	0.45
5:FE:11:GLY:HA2	5:FE:14:LYS:HE3	1.99	0.45
5:FE:57:ARG:CZ	5:FE:58:PHE:CE1	2.99	0.45
6:FF:28:VAL:HG11	6:FF:66:ASN:HA	1.99	0.45
9:FJ:140:THR:CG2	9:FJ:141:THR:H	2.15	0.45
11:FL:7:TYR:HE2	11:FL:18:ASN:OD1	2.00	0.45
12:FM:13:VAL:O	12:FM:70:THR:HA	2.16	0.45
14:FO:50:LEU:HA	14:FO:59:ALA:O	2.17	0.45
1:F1:510:A:H5'	14:FO:68:HIS:O	2.17	0.45
14:FO:83:VAL:HG21	14:FO:90:VAL:CG2	2.47	0.45
1:F1:298:G:C5	16:FQ:31:LYS:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1100:U:O2	17:FT:46:ALA:HB1	2.17	0.45
19:FX:176:LYS:HE2	19:FX:177:TYR:OH	2.16	0.45
21:G3:28:C:H5''	25:GD:137:ARG:HG2	1.97	0.45
21:G3:56:G:H4'	25:GD:146:SER:HG	1.79	0.45
22:GA:175:ARG:HA	46:GY:69:TRP:NE1	2.32	0.45
23:GB:113:ASN:O	23:GB:116:LYS:HB2	2.16	0.45
23:GB:121:ASN:HD21	23:GB:124:ASN:HD22	1.66	0.45
24:GC:143:PHE:CE2	24:GC:149:ILE:HB	2.51	0.45
33:GL:159:ARG:HB2	33:GL:164:LEU:HB2	2.00	0.45
33:GL:6:TYR:HD1	16:HQ:45:ILE:HD11	1.82	0.45
34:GM:9:THR:O	34:GM:13:PHE:HD2	2.00	0.45
39:GR:100:LYS:N	39:GR:101:PRO:HD2	2.31	0.45
34:GM:140:LYS:HD3	1:H1:1108:A:P	2.57	0.45
1:H1:1109:A:C4'	1:H1:1110:U:O5'	2.63	0.45
28:GG:32:UNK:C	1:H1:1257:G:HO3'	2.28	0.45
1:H1:134:A:C6	1:H1:135:A:C6	3.05	0.45
1:H1:1394:G:C8	1:H1:1394:G:O5'	2.70	0.45
1:H1:1580:G:O2'	1:H1:1581:C:H5''	2.17	0.45
1:H1:1662:A:N1	1:H1:1761:G:O2'	2.37	0.45
1:H1:1668:A:C8	11:HL:69:ARG:NH1	2.85	0.45
1:H1:2624:A:O4'	1:H1:2625:A:C2	2.70	0.45
1:H1:3312:C:H2'	1:H1:3313:C:C6	2.52	0.45
1:H1:449:G:C4	1:H1:450:C:C5	3.05	0.45
1:H1:534:U:C2	1:H1:535:C:C5	3.04	0.45
32:GK:136:ARG:NH1	1:H1:741:G:C4	2.85	0.45
1:H1:837:G:H1'	2:HA:50:TRP:CD1	2.51	0.45
6:HF:3:PHE:CD1	19:HX:164:PRO:CB	2.97	0.45
7:HG:60:ALA:O	7:HG:64:GLN:N	2.50	0.45
8:HH:107:MET:HB3	8:HH:109:TYR:CE2	2.52	0.45
8:HH:13:ARG:CG	8:HH:15:TRP:CE3	2.95	0.45
11:HL:64:TYR:O	11:HL:72:LYS:HE2	2.17	0.45
12:HM:13:VAL:O	12:HM:70:THR:HA	2.17	0.45
14:HO:94:ILE:CD1	14:HO:111:LEU:HD12	2.47	0.45
16:HQ:36:LYS:O	16:HQ:40:LEU:HG	2.17	0.45
1:H1:822:U:H1'	18:HU:8:PRO:HB3	1.99	0.45
19:HX:44:PHE:CD1	19:HX:137:ILE:HD11	2.52	0.45
1:A1:1222:A:C2	1:A1:1336:U:C4	3.05	0.44
1:A1:1462:U:O5'	1:A1:1463:C:H5''	2.17	0.44
1:A1:1497:U:H2'	1:A1:1498:U:C6	2.51	0.44
1:A1:1863:A:N6	1:A1:1867:C:C2	2.85	0.44
1:A1:2248:G:H1	1:A1:2258:C:H42	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2762:U:O2	1:A1:2763:U:C6	2.70	0.44
1:A1:1926:G:OP2	1:A1:2907:A:OP1	2.34	0.44
1:A1:2920:U:O2	1:A1:2922:A:H8	2.00	0.44
1:A1:604:A:C8	1:A1:604:A:O5'	2.65	0.44
1:A1:684:A:H5'	24:BC:107:PHE:HB2	1.99	0.44
1:A1:827:C:C6	32:BK:25:HIS:HD2	2.35	0.44
1:A1:966:G:O4'	1:A1:1461:A:H1'	2.17	0.44
1:A1:983:U:OP1	1:A1:2787:A:H3'	2.17	0.44
5:AE:51:LEU:HB3	5:AE:95:THR:CG2	2.46	0.44
8:AH:57:VAL:O	8:AH:104:LEU:HD22	2.16	0.44
8:AH:20:PHE:CD1	8:AH:20:PHE:C	2.90	0.44
9:AJ:4:ARG:NE	9:AJ:215:ILE:HD11	2.32	0.44
9:AJ:66:ASN:OD1	9:AJ:66:ASN:C	2.56	0.44
10:AK:85:LEU:HA	10:AK:85:LEU:HD23	1.79	0.44
11:AL:41:TYR:CB	11:AL:58:GLN:HE21	2.28	0.44
13:AN:105:ASN:CG	13:AN:105:ASN:O	2.55	0.44
16:AQ:68:LYS:HG3	16:AQ:69:ASP:N	2.32	0.44
18:AU:60:THR:HG22	18:AU:62:ARG:H	1.82	0.44
19:AX:25:ALA:CB	19:AX:71:ARG:O	2.57	0.44
21:B3:39:U:C2	25:BD:46:VAL:CG2	3.00	0.44
21:B3:64:A:O2'	29:BH:205:PRO:CG	2.61	0.44
22:BA:206:ASN:O	22:BA:208:VAL:N	2.50	0.44
23:BB:84:MET:HE1	23:BB:179:ILE:HD11	1.98	0.44
1:A1:3266:G:OP1	23:BB:223:GLY:HA2	2.17	0.44
23:BB:330:LYS:O	23:BB:331:LYS:CB	2.65	0.44
26:BE:45:ILE:HA	26:BE:55:LEU:CD2	2.46	0.44
27:BF:138:ASN:O	27:BF:139:LYS:HB2	2.17	0.44
29:BH:159:PHE:HB3	29:BH:163:GLN:CD	2.37	0.44
33:BL:68:ARG:HH21	33:BL:123:GLN:HG3	1.81	0.44
33:BL:59:TYR:OH	33:BL:148:ILE:HD13	2.17	0.44
33:BL:19:MET:CE	33:BL:22:ILE:HD12	2.45	0.44
35:BN:63:LEU:HD21	35:BN:140:LEU:HB3	1.98	0.44
38:BQ:10:PRO:HB3	38:BQ:153:GLN:NE2	2.32	0.44
42:BU:20:GLY:O	42:BU:24:LYS:HG3	2.17	0.44
45:BX:4:LYS:HD2	45:BX:92:ARG:HE	1.82	0.44
20:C2:111:A:H2'	20:C2:112:G:H5''	1.97	0.44
21:C3:11:A:C8	34:CM:18:THR:CB	2.98	0.44
22:CA:103:LEU:HB2	22:CA:108:ILE:HD11	1.98	0.44
23:CB:62:ARG:HH22	23:CB:346:GLY:HA3	1.82	0.44
24:CC:170:LYS:HE3	1:D1:209:A:OP2	2.16	0.44
24:CC:380:PHE:O	24:CC:383:ALA:HB3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CE:48:PRO:HB3	26:CE:53:VAL:HG22	1.98	0.44
32:CK:75:VAL:HG23	32:CK:109:PHE:CG	2.52	0.44
34:CM:157:ASN:ND2	34:CM:159:VAL:HG22	2.31	0.44
39:CR:113:VAL:HG12	39:CR:114:LYS:N	2.31	0.44
40:CS:3:THR:H	1:D1:229:A:H5''	1.82	0.44
43:CV:132:THR:HG21	43:CV:227:ARG:HD2	1.99	0.44
45:CX:79:ARG:NH1	1:D1:1448:G:O4'	2.50	0.44
46:CY:55:TRP:CZ2	46:CY:70:GLU:C	2.90	0.44
1:D1:145:A:C5'	50:D1:3710:HOH:O	2.64	0.44
1:D1:177:C:O2'	1:D1:178:U:H5'	2.17	0.44
1:D1:1847:A:C4	1:D1:1848:C:C5	3.06	0.44
1:D1:19:A:C4'	1:D1:20:G:OP2	2.62	0.44
22:CA:19:SER:OG	1:D1:2168:U:H5''	2.16	0.44
1:D1:2245:G:H2'	1:D1:2246:G:C8	2.49	0.44
24:CC:74:THR:CG2	1:D1:2397:A:H2'	2.26	0.44
1:D1:2432:G:H2'	1:D1:2433:A:O4'	2.17	0.44
1:D1:3081:C:O3'	1:D1:3082:C:H3'	2.17	0.44
1:D1:3097:G:OP2	10:DK:112:LYS:NZ	2.48	0.44
1:D1:3228:U:H5''	1:D1:3229:C:C5'	2.47	0.44
1:D1:45:C:H5''	18:DU:14:LYS:HG2	1.99	0.44
1:D1:79:C:C2'	1:D1:80:C:H5'	2.48	0.44
33:CL:201:ARG:NH2	1:D1:79:C:O2'	2.51	0.44
1:D1:876:C:N3	1:D1:877:U:C5	2.85	0.44
5:DE:51:LEU:HB3	5:DE:95:THR:CG2	2.47	0.44
6:DF:7:VAL:HG22	6:DF:55:LEU:HD21	1.98	0.44
7:DG:21:GLY:CA	7:DG:94:ASP:O	2.65	0.44
23:BB:376:LYS:CE	9:DJ:45:HIS:NE2	2.78	0.44
13:DN:22:LYS:HZ1	13:DN:140:SER:HB3	1.83	0.44
13:DN:30:GLU:OE1	13:DN:30:GLU:HA	2.16	0.44
14:DO:52:GLY:HA3	14:DO:118:ASN:ND2	2.27	0.44
19:DX:96:GLN:HB3	19:DX:134:THR:CG2	2.46	0.44
21:E3:74:A:H4'	21:E3:75:G:OP1	2.18	0.44
23:EB:216:LEU:HD23	23:EB:274:THR:HA	1.99	0.44
23:EB:340:ILE:HG13	23:EB:341:ILE:H	1.82	0.44
25:ED:12:VAL:CG2	25:ED:162:TRP:CD1	3.00	0.44
26:EE:7:GLU:OE1	26:EE:54:LYS:HE2	2.16	0.44
28:EG:22:UNK:HG1	28:EG:92:UNK:HB1	1.97	0.44
30:EI:9:ASP:O	30:EI:13:HIS:NE2	2.50	0.44
31:EJ:58:ILE:HG13	31:EJ:85:GLN:OE1	2.16	0.44
34:EM:231:TRP:HZ2	34:EM:243:VAL:HG21	1.82	0.44
35:EN:82:VAL:HG22	35:EN:127:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:EK:53:GLY:HA2	35:EN:177:ALA:O	2.16	0.44
42:EU:44:LYS:O	42:EU:47:ARG:HB2	2.17	0.44
46:EY:32:THR:CG2	46:EY:69:TRP:O	2.54	0.44
1:F1:1006:C:H2'	1:F1:1007:G:OP1	2.17	0.44
1:F1:112:A:N1	1:F1:265:A:O2'	2.49	0.44
43:EV:91:GLN:HG2	1:F1:1166:G:O2'	2.17	0.44
1:F1:1316:G:H8	1:F1:1316:G:H5''	1.82	0.44
1:F1:1384:G:C2	1:F1:1385:C:C6	3.05	0.44
1:F1:1461:A:H5''	1:F1:1462:U:C5'	2.43	0.44
1:F1:1466:G:O2'	1:F1:1467:G:H5'	2.17	0.44
1:F1:2103:A:H2'	1:F1:2104:C:C6	2.52	0.44
1:F1:2284:U:O2'	1:F1:2285:C:H5'	2.17	0.44
1:F1:2292:U:O2'	1:F1:2908:U:H4'	2.17	0.44
1:F1:2539:A:C2	1:F1:2540:G:C8	3.05	0.44
29:EH:116:ARG:O	1:F1:2633:C:C2'	2.65	0.44
1:F1:2601:U:H1'	1:F1:2791:A:N3	2.32	0.44
1:F1:3228:U:H5''	1:F1:3229:C:C5'	2.46	0.44
1:F1:458:G:H2'	1:F1:459:G:O4'	2.17	0.44
1:F1:519:A:H5'	14:FO:89:ARG:HD2	1.99	0.44
1:F1:581:C:H2'	1:F1:582:A:O4'	2.17	0.44
1:F1:665:C:H2'	1:F1:666:U:O4'	2.17	0.44
1:F1:668:G:H2'	1:F1:2367:A:C5	2.51	0.44
1:F1:687:C:C2	1:F1:688:U:C5	3.05	0.44
1:F1:820:G:H21	18:FU:5:ASN:ND2	2.15	0.44
35:EN:173:LYS:NZ	1:F1:87:A:OP2	2.44	0.44
2:FA:21:ARG:HH11	2:FA:44:MET:HE1	1.79	0.44
9:FJ:97:ILE:HD12	9:FJ:104:LEU:HD13	1.99	0.44
13:FN:57:MET:HE3	13:FN:65:ARG:NH1	2.32	0.44
13:FN:36:ARG:NH1	13:FN:74:TYR:CD1	2.76	0.44
14:FO:124:ASN:O	14:FO:128:GLU:HG3	2.18	0.44
14:FO:62:LEU:HD11	14:FO:97:ARG:NE	2.31	0.44
15:FP:32:TYR:HB2	15:FP:43:LYS:HB2	1.99	0.44
1:F1:157:A:OP2	16:FQ:25:HIS:ND1	2.50	0.44
21:G3:11:A:H4'	21:G3:13:A:C8	2.52	0.44
22:GA:97:ILE:HD11	22:GA:109:PRO:HD3	1.99	0.44
23:GB:56:ILE:CG2	23:GB:57:LEU:N	2.80	0.44
23:GB:62:ARG:CG	23:GB:62:ARG:NH1	2.71	0.44
24:GC:230:ILE:HG22	24:GC:233:VAL:HG13	1.98	0.44
24:GC:41:VAL:HG12	24:GC:45:LEU:HD12	1.98	0.44
26:GE:137:GLU:O	26:GE:139:LYS:HG3	2.16	0.44
27:GF:136:ILE:O	27:GF:166:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:GH:180:GLN:O	29:GH:184:LEU:HG	2.18	0.44
32:GK:117:ARG:HH11	32:GK:137:ARG:CZ	2.30	0.44
32:GK:145:CYS:HB3	18:HU:177:VAL:HG21	1.96	0.44
33:GL:13:LYS:NZ	16:HQ:45:ILE:HG22	2.32	0.44
33:GL:182:LYS:CG	33:GL:183:SER:N	2.80	0.44
33:GL:73:ARG:HA	33:GL:74:PRO:HD2	1.58	0.44
36:GO:76:THR:HG22	36:GO:81:ARG:HH21	1.81	0.44
36:GO:94:LEU:HD23	36:GO:94:LEU:HA	1.73	0.44
38:GQ:134:ALA:O	38:GQ:135:HIS:CB	2.65	0.44
38:GQ:39:LYS:HE2	38:GQ:119:GLY:N	2.27	0.44
39:GR:111:TYR:HD2	39:GR:143:LEU:HD11	1.82	0.44
42:GU:35:ALA:O	42:GU:36:LYS:C	2.54	0.44
45:GX:22:PHE:CE2	45:GX:23:GLU:HG3	2.51	0.44
46:GY:74:PRO:N	46:GY:75:PRO:CD	2.80	0.44
1:H1:1039:G:C2'	1:H1:1041:C:H41	2.27	0.44
1:H1:1172:G:C5	1:H1:1173:A:N7	2.85	0.44
1:H1:1589:G:C5	1:H1:1605:G:C2	3.05	0.44
1:H1:2292:U:C2	1:H1:2294:A:C6	3.06	0.44
1:H1:2408:A:H8	1:H1:2408:A:O5'	2.00	0.44
37:GP:14:LYS:NZ	1:H1:2627:C:O3'	2.47	0.44
1:H1:2683:A:H5''	1:H1:2684:A:OP2	2.18	0.44
20:G2:2:G:HO2'	1:H1:2983:A:H1'	1.82	0.44
23:GB:220:LYS:CD	1:H1:3036:U:OP1	2.66	0.44
1:H1:440:C:N4	1:H1:538:A:C2	2.85	0.44
1:H1:61:A:C6	1:H1:62:G:C6	3.05	0.44
1:H1:72:A:C2	1:H1:73:G:C8	3.06	0.44
1:H1:861:A:C2	1:H1:883:A:H1'	2.52	0.44
1:H1:2790:A:C4	4:HC:54:PRO:HA	2.52	0.44
4:HC:4:VAL:HA	4:HC:5:PRO:HD3	1.84	0.44
5:HE:56:GLY:O	5:HE:59:ARG:HB3	2.18	0.44
6:HF:96:ILE:O	6:HF:99:LYS:HB2	2.16	0.44
9:HJ:211:THR:OG1	9:HJ:214:GLU:HG3	2.17	0.44
9:HJ:4:ARG:HH21	9:HJ:215:ILE:HD12	1.82	0.44
10:HK:84:ALA:O	10:HK:88:LYS:HG3	2.17	0.44
11:HL:99:GLU:OE2	13:HN:85:TYR:CE2	2.71	0.44
12:HM:98:THR:CG2	12:HM:99:SER:N	2.80	0.44
24:GC:152:VAL:O	14:HO:76:ILE:HG12	2.17	0.44
18:HU:73:PHE:HD2	18:HU:94:LYS:O	2.01	0.44
19:HX:7:GLN:HE22	19:HX:80:GLU:CA	2.31	0.44
19:HX:89:TYR:O	19:HX:107:GLU:HA	2.16	0.44
1:A1:1195:U:H5''	1:A1:1356:G:O6	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:969:C:OP1	1:A1:1458:C:H4'	2.16	0.44
1:A1:169:A:C6	1:A1:251:A:C6	3.06	0.44
1:A1:2194:G:O2'	1:A1:2195:U:H5'	2.17	0.44
1:A1:2221:U:H2'	1:A1:2222:C:H6	1.81	0.44
1:A1:2283:G:C4	1:A1:2284:U:C5	3.05	0.44
1:A1:2323:U:H2'	1:A1:2324:A:H5''	2.00	0.44
1:A1:2392:A:H8	1:A1:2929:A:N1	2.15	0.44
1:A1:2664:C:O5'	1:A1:2664:C:H6	1.99	0.44
1:A1:2673:C:H2'	1:A1:2674:A:H8	1.83	0.44
1:A1:2730:C:H2'	1:A1:2731:C:O5'	2.17	0.44
1:A1:303:A:H2'	1:A1:303:A:N3	2.33	0.44
1:A1:3047:U:H3'	1:A1:3047:U:C6	2.52	0.44
1:A1:3132:A:C2'	1:A1:3133:G:OP1	2.65	0.44
2:AA:26:THR:HG21	2:AA:36:ALA:HB2	2.00	0.44
2:AA:8:PHE:N	2:AA:8:PHE:CD1	2.81	0.44
1:A1:545:A:H4'	5:AE:91:ASN:ND2	2.33	0.44
6:AF:121:THR:CG2	6:AF:121:THR:O	2.65	0.44
8:AH:26:SER:O	8:AH:27:LYS:C	2.55	0.44
8:AH:48:VAL:HG11	8:AH:87:ALA:HB2	1.98	0.44
14:AO:36:THR:O	14:AO:37:GLN:C	2.53	0.44
18:AU:124:PHE:HD1	42:BU:119:LYS:O	2.00	0.44
21:B3:71:G:H2'	21:B3:72:U:H6	1.82	0.44
1:A1:719:C:H1'	24:BC:240:ARG:HB2	1.98	0.44
24:BC:78:VAL:CG1	24:BC:83:ARG:NH2	2.80	0.44
27:BF:92:TYR:CE2	27:BF:123:ILE:CG2	3.00	0.44
27:BF:170:PHE:CD1	27:BF:216:ASN:OD1	2.70	0.44
34:BM:157:ASN:OD1	34:BM:158:ARG:N	2.50	0.44
21:B3:13:A:O2'	34:BM:24:ARG:CZ	2.64	0.44
39:BR:74:PRO:HB3	39:BR:149:LEU:HD11	1.98	0.44
40:BS:44:VAL:HG11	40:BS:47:MET:HE2	1.99	0.44
43:BV:84:ILE:HD12	43:BV:234:LEU:HD23	1.98	0.44
43:BV:41:TRP:HE1	43:BV:176:THR:CG2	2.30	0.44
44:BW:14:ASN:ND2	44:BW:17:LYS:CE	2.77	0.44
20:C2:6:A:N1	1:D1:2381:A:O2'	2.34	0.44
23:CB:118:PHE:CE2	1:D1:2989:G:N2	2.69	0.44
23:CB:4:ARG:O	23:CB:4:ARG:HG2	2.11	0.44
25:CD:30:LEU:HA	25:CD:30:LEU:HD23	1.66	0.44
26:CE:110:ILE:CG1	26:CE:132:ILE:HD13	2.47	0.44
26:CE:22:GLN:OE1	26:CE:39:ARG:NH2	2.50	0.44
26:CE:75:ILE:O	26:CE:76:LYS:C	2.56	0.44
28:CG:11:UNK:O	28:CG:15:UNK:CG	2.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:42:THR:HG23	29:CH:192:THR:CG2	2.47	0.44
21:C3:15:U:H1'	34:CM:13:PHE:HE1	1.82	0.44
34:CM:164:LYS:HA	34:CM:167:CYS:SG	2.57	0.44
34:CM:200:HIS:O	34:CM:204:ILE:HG13	2.17	0.44
21:C3:21:G:C4'	34:CM:277:PHE:CD2	2.84	0.44
35:CN:155:ALA:C	35:CN:158:GLN:HG3	2.38	0.44
37:CP:8:ARG:CD	37:CP:11:THR:HG21	2.48	0.44
43:CV:84:ILE:HD12	43:CV:234:LEU:CD2	2.47	0.44
44:CW:14:ASN:O	44:CW:18:GLN:HG2	2.17	0.44
1:D1:1035:A:H2'	1:D1:1036:G:C8	2.52	0.44
1:D1:1594:C:H2'	1:D1:1595:A:C5'	2.44	0.44
1:D1:1758:U:H5'	1:D1:1759:C:OP2	2.17	0.44
1:D1:2113:A:H2'	1:D1:2114:C:O4'	2.16	0.44
1:D1:2411:U:H2'	1:D1:2412:U:H6	1.77	0.44
1:D1:2438:G:C6	1:D1:2439:C:C4	3.05	0.44
33:CL:79:ILE:CD1	1:D1:2597:G:O2'	2.64	0.44
34:CM:176:SER:OG	1:D1:2735:A:O3'	2.33	0.44
34:CM:36:LEU:HD23	1:D1:2737:A:N3	2.32	0.44
1:D1:2795:U:O3'	1:D1:2796:A:H3'	2.17	0.44
1:D1:3028:A:H2'	1:D1:3029:A:C8	2.52	0.44
1:D1:3031:U:C2'	1:D1:3032:C:H5'	2.46	0.44
1:D1:3079:U:C2'	1:D1:3080:A:O5'	2.66	0.44
1:D1:3191:G:HO2'	1:D1:3192:C:P	2.40	0.44
1:D1:3251:C:H5'	1:D1:3251:C:H6	1.81	0.44
1:D1:3312:C:H2'	1:D1:3313:C:C6	2.51	0.44
1:D1:345:C:C4	1:D1:347:A:C8	3.06	0.44
1:D1:375:G:H21	1:D1:398:G:H1'	1.81	0.44
1:D1:549:G:H2'	1:D1:550:G:H8	1.81	0.44
1:D1:558:U:H2'	1:D1:559:G:C8	2.47	0.44
1:D1:578:G:H2'	1:D1:579:G:H5''	1.98	0.44
1:D1:726:G:C5	1:D1:727:C:C4	3.05	0.44
5:DE:56:GLY:O	5:DE:59:ARG:HB3	2.17	0.44
1:D1:3227:A:H5'	5:DE:58:PHE:HZ	1.82	0.44
5:DE:77:THR:CG2	5:DE:157:ASP:OD1	2.65	0.44
14:DO:69:LYS:HD3	14:DO:71:LYS:O	2.17	0.44
20:E2:71:G:C5	20:E2:72:C:C5	3.05	0.44
24:EC:27:ALA:HA	24:EC:30:THR:OG1	2.16	0.44
24:EC:65:MET:HE3	24:EC:105:ARG:NH1	2.28	0.44
25:ED:17:LEU:HB3	25:ED:76:ALA:HB1	1.98	0.44
26:EE:137:GLU:O	26:EE:139:LYS:HG3	2.16	0.44
27:EF:143:LEU:HD22	27:EF:211:PHE:HD2	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:EI:35:VAL:CG1	30:EI:36:ARG:N	2.80	0.44
31:EJ:83:ILE:CG2	31:EJ:122:VAL:HA	2.47	0.44
33:EL:72:LYS:O	33:EL:74:PRO:HD3	2.18	0.44
34:EM:49:TYR:HB2	34:EM:143:LYS:O	2.17	0.44
32:EK:60:MET:C	35:EN:172:ARG:HH12	2.18	0.44
42:EU:76:GLY:HA2	1:F1:133:C:O2'	2.17	0.44
43:EV:100:LEU:HA	43:EV:100:LEU:HD23	1.62	0.44
1:F1:1026:C:HO2'	1:F1:1027:G:P	2.34	0.44
28:EG:58:UNK:CA	1:F1:1308:U:H5''	2.48	0.44
1:F1:1448:G:C4	1:F1:1449:C:C5	3.05	0.44
1:F1:1507:A:C2	11:FL:2:ALA:HB3	2.52	0.44
1:F1:2435:A:C2	1:F1:2503:U:C2	3.05	0.44
1:F1:2730:C:H2'	1:F1:2731:C:O5'	2.16	0.44
1:F1:2731:C:C4'	4:FC:18:HIS:CD2	2.99	0.44
1:F1:283:A:H4'	1:F1:283:A:OP2	2.18	0.44
22:EA:216:ASN:HB3	1:F1:2956:G:N7	2.32	0.44
1:F1:3086:U:H2'	1:F1:3087:G:H8	1.82	0.44
1:F1:3175:A:C4'	1:F1:3176:A:OP2	2.65	0.44
1:F1:3190:A:C6	1:F1:3191:G:C2	3.06	0.44
38:EQ:103:ASN:ND2	1:F1:388:A:C1'	2.66	0.44
1:F1:459:G:H1'	1:F1:519:A:H62	1.81	0.44
1:F1:504:A:O2'	1:F1:505:A:C8	2.59	0.44
1:F1:637:U:C2	1:F1:638:U:C5	3.06	0.44
1:F1:792:G:C2	1:F1:793:A:C4	3.05	0.44
33:EL:201:ARG:NH2	1:F1:79:C:O2'	2.50	0.44
1:F1:439:A:H5''	5:FE:126:HIS:HD1	1.79	0.44
7:FG:10:ILE:HG12	7:FG:13:LYS:NZ	2.31	0.44
9:FJ:187:ASN:O	9:FJ:188:ARG:HB3	2.17	0.44
9:FJ:4:ARG:HB3	9:FJ:208:LEU:HA	1.99	0.44
9:FJ:97:ILE:HD12	9:FJ:104:LEU:CD1	2.47	0.44
13:FN:90:LEU:O	13:FN:121:LYS:HE3	2.17	0.44
14:FO:87:VAL:HG22	14:FO:115:HIS:CD2	2.51	0.44
15:FP:8:ILE:HG12	15:FP:53:PHE:CZ	2.52	0.44
18:FU:30:LYS:N	18:FU:33:ARG:HH21	2.15	0.44
19:FX:156:MET:HE2	19:FX:161:LEU:CD2	2.47	0.44
20:G2:28:G:C5	20:G2:29:U:C5	3.05	0.44
22:GA:43:ARG:HD2	22:GA:88:TYR:CD1	2.52	0.44
23:GB:17:ARG:HA	23:GB:18:PRO:C	2.38	0.44
24:GC:148:ARG:NE	24:GC:187:ARG:HD2	2.31	0.44
24:GC:330:LEU:HA	24:GC:330:LEU:HD23	1.82	0.44
27:GF:144:VAL:HG23	27:GF:168:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:GI:45:SER:HB2	30:GI:48:ARG:H	1.82	0.44
32:GK:2:VAL:HG13	1:H1:818:U:OP1	2.18	0.44
34:GM:195:TYR:HD1	34:GM:197:PRO:HD3	1.82	0.44
35:GN:87:VAL:HG23	35:GN:103:ALA:HB2	1.99	0.44
38:GQ:24:LEU:HB2	38:GQ:146:CYS:HB2	1.98	0.44
41:GT:58:ARG:NH2	1:H1:3325:G:N9	2.65	0.44
42:GU:104:VAL:HG13	42:GU:108:THR:CB	2.43	0.44
44:GW:14:ASN:ND2	44:GW:69:ARG:CZ	2.80	0.44
45:GX:69:LEU:HB3	45:GX:70:PRO:CD	2.45	0.44
45:GX:88:LEU:HD12	45:GX:88:LEU:HA	1.73	0.44
1:H1:1055:A:C5	1:H1:1056:A:N7	2.85	0.44
37:GP:60:ARG:HH11	1:H1:1085:G:H4'	1.81	0.44
1:H1:1159:C:C2'	1:H1:1160:A:H5'	2.47	0.44
1:H1:1179:G:H1	1:H1:1226:C:N4	2.15	0.44
1:H1:1394:G:O2'	1:H1:1395:U:H6	1.98	0.44
1:H1:1439:U:H2'	1:H1:1440:A:H8	1.82	0.44
1:H1:1655:A:C4	1:H1:1669:G:C5	3.06	0.44
1:H1:906:C:H1'	1:H1:1874:A:C8	2.52	0.44
1:H1:2187:C:C2'	1:H1:2188:U:C5'	2.95	0.44
1:H1:2434:A:C2	1:H1:2504:U:C2	3.05	0.44
1:H1:2531:U:C2	1:H1:2532:G:H1'	2.52	0.44
1:H1:3086:U:H2'	1:H1:3087:G:C8	2.53	0.44
1:H1:3122:C:H2'	1:H1:3123:A:O4'	2.17	0.44
1:H1:3144:G:C2	1:H1:3249:U:C2	3.06	0.44
1:H1:357:G:N2	1:H1:360:A:OP2	2.49	0.44
1:H1:683:G:H22	1:H1:1460:G:C5'	2.30	0.44
1:H1:820:G:H2'	1:H1:821:U:C5'	2.46	0.44
1:H1:957:U:O4'	1:H1:958:A:H5'	2.15	0.44
1:H1:977:A:C2'	1:H1:978:G:H5''	2.48	0.44
9:HJ:49:ILE:HD13	9:HJ:87:SER:HB2	1.99	0.44
13:HN:76:ASN:OD1	13:HN:77:LEU:N	2.50	0.44
7:HG:35:ARG:HH12	13:HN:77:LEU:HB2	1.71	0.44
14:HO:40:LEU:O	14:HO:44:HIS:ND1	2.49	0.44
19:HX:150:ARG:O	19:HX:154:LEU:HG	2.17	0.44
1:A1:1122:A:N7	37:BP:125:ARG:HG2	2.32	0.44
1:A1:1127:U:C2	1:A1:1128:G:C8	3.06	0.44
1:A1:1481:U:O2'	1:A1:1482:A:P	2.74	0.44
1:A1:1652:U:H6	1:A1:1652:U:H3'	1.83	0.44
1:A1:2188:U:HO2'	1:A1:2189:G:P	2.25	0.44
1:A1:2549:U:C6	22:BA:70:TYR:HE1	2.32	0.44
1:A1:2669:A:C2	25:BD:59:ILE:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2886:G:H5''	1:A1:2887:C:H5'	1.98	0.44
1:A1:3097:G:C2	1:A1:3116:A:C2	3.04	0.44
1:A1:3197:A:OP2	1:A1:3213:G:N2	2.46	0.44
1:A1:3275:A:H2'	1:A1:3276:C:OP2	2.17	0.44
1:A1:40:C:O2'	1:A1:41:A:OP1	2.33	0.44
1:A1:513:G:C4	1:A1:514:U:C5	3.05	0.44
1:A1:591:G:H5'	1:A1:591:G:H8	1.83	0.44
1:A1:685:G:O2'	1:A1:686:U:P	2.75	0.44
3:AB:9:MET:O	3:AB:10:LYS:C	2.54	0.44
1:A1:2790:A:H1'	4:AC:55:ILE:H	1.83	0.44
5:AE:103:ASP:OD1	5:AE:104:LEU:N	2.51	0.44
1:A1:3230:G:C5	5:AE:119:ARG:HD2	2.53	0.44
5:AE:60:GLY:O	5:AE:177:LYS:HA	2.16	0.44
5:AE:42:ARG:HH12	8:AH:111:ASN:HD22	1.63	0.44
8:AH:29:THR:HG22	8:AH:30:GLN:N	2.33	0.44
9:AJ:158:GLY:HA2	9:AJ:179:ILE:HD12	1.99	0.44
9:AJ:162:HIS:CG	9:AJ:163:PRO:HD2	2.52	0.44
1:A1:2884:A:OP1	10:AK:102:ARG:HD3	2.16	0.44
13:AN:54:THR:CG2	13:AN:56:ARG:H	2.25	0.44
13:AN:76:ASN:OD1	13:AN:77:LEU:N	2.50	0.44
14:AO:69:LYS:HD3	14:AO:71:LYS:O	2.17	0.44
17:AT:19:ASN:N	50:AT:101:HOH:O	2.32	0.44
18:AU:121:LEU:HG	18:AU:122:VAL:N	2.32	0.44
18:AU:124:PHE:CD1	42:BU:119:LYS:HB3	2.52	0.44
18:AU:40:GLN:OE1	18:AU:40:GLN:HA	2.17	0.44
18:AU:6:GLN:HA	32:BK:51:HIS:CE1	2.48	0.44
1:A1:822:U:H1'	18:AU:8:PRO:CB	2.48	0.44
19:AX:156:MET:HE2	19:AX:161:LEU:CD2	2.48	0.44
19:AX:161:LEU:HA	19:AX:161:LEU:HD12	1.42	0.44
19:AX:167:LYS:HA	19:AX:188:THR:HG21	1.90	0.44
2:AA:65:MET:HG2	20:B2:45:G:OP2	2.18	0.44
21:B3:11:A:H4'	21:B3:13:A:C8	2.53	0.44
23:BB:332:ARG:HH11	23:BB:332:ARG:HB2	1.81	0.44
24:BC:299:ILE:HA	24:BC:304:VAL:HG11	1.99	0.44
24:BC:84:VAL:HG21	24:BC:91:ARG:HE	1.83	0.44
24:BC:97:PHE:HD1	24:BC:97:PHE:O	2.01	0.44
25:BD:104:PHE:HE1	25:BD:106:ILE:CG1	2.31	0.44
28:BG:11:UNK:O	28:BG:15:UNK:CG	2.60	0.44
33:BL:80:VAL:CG1	33:BL:87:VAL:HA	2.47	0.44
40:BS:117:LEU:HD23	40:BS:120:ARG:CZ	2.48	0.44
41:BT:49:GLN:O	41:BT:57:ARG:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:160:LEU:HA	43:BV:160:LEU:HD23	1.78	0.44
45:BX:76:PHE:HE1	45:BX:83:ASP:HB3	1.82	0.44
20:C2:89:A:H2'	20:C2:90:G:O4'	2.18	0.44
24:CC:223:LEU:HA	24:CC:223:LEU:HD23	1.76	0.44
27:CF:126:LYS:O	27:CF:191:VAL:HA	2.18	0.44
29:CH:44:GLU:CD	29:CH:181:TYR:OH	2.56	0.44
32:CK:74:VAL:CG1	32:CK:113:LEU:HG	2.47	0.44
33:CL:33:LEU:HB3	33:CL:34:PRO:HD2	1.98	0.44
34:CM:212:TYR:CD2	34:CM:228:PHE:CE1	3.06	0.44
34:CM:264:THR:O	34:CM:264:THR:HG22	2.16	0.44
35:CN:67:ARG:HD3	35:CN:67:ARG:HA	1.69	0.44
37:CP:21:THR:O	37:CP:21:THR:HG22	2.17	0.44
40:CS:3:THR:HG22	40:CS:3:THR:O	2.16	0.44
40:CS:55:VAL:HG11	40:CS:103:LEU:HB3	1.98	0.44
41:CT:8:CYS:O	41:CT:12:GLU:HA	2.18	0.44
1:D1:1057:U:H2'	1:D1:1058:C:H6	1.81	0.44
1:D1:1474:U:C5	1:D1:2350:G:N2	2.85	0.44
1:D1:1682:G:C5	1:D1:1822:G:C6	3.05	0.44
1:D1:2933:G:C4'	1:D1:2934:A:OP1	2.62	0.44
1:D1:3234:U:H6	1:D1:3234:U:O5'	2.00	0.44
1:D1:343:A:C4	1:D1:344:G:C8	3.05	0.44
1:D1:359:G:H2'	1:D1:360:A:C8	2.53	0.44
1:D1:533:G:H2'	1:D1:534:U:C6	2.52	0.44
1:D1:600:G:H5''	1:D1:601:A:OP2	2.17	0.44
1:D1:624:G:O2'	1:D1:625:C:C6	2.69	0.44
1:D1:540:G:N2	1:D1:642:C:O2	2.42	0.44
1:D1:653:C:C2	1:D1:654:U:C5	3.05	0.44
1:D1:687:C:H2'	1:D1:688:U:C6	2.52	0.44
1:D1:68:A:H1'	1:D1:70:C:N4	2.32	0.44
1:D1:970:C:C2	1:D1:971:C:C6	3.05	0.44
3:DB:6:THR:HG22	3:DB:7:LEU:N	2.33	0.44
1:D1:3184:A:H5''	5:DE:177:LYS:HG3	1.98	0.44
6:DF:28:VAL:HG11	6:DF:66:ASN:HA	1.98	0.44
8:DH:29:THR:HG22	8:DH:30:GLN:N	2.32	0.44
9:DJ:182:CYS:CB	9:DJ:221:ILE:HD12	2.46	0.44
9:DJ:58:ILE:O	9:DJ:59:VAL:C	2.56	0.44
9:DJ:89:PRO:O	9:DJ:92:VAL:HG12	2.18	0.44
12:DM:110:PHE:O	12:DM:111:ASN:CB	2.64	0.44
13:DN:69:LYS:HA	13:DN:70:PRO:HD2	1.88	0.44
19:DX:16:MET:HE2	19:DX:18:VAL:HG22	2.00	0.44
19:DX:19:ARG:HG3	19:DX:21:TYR:OH	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:EA:42:ILE:CD1	22:EA:43:ARG:N	2.68	0.44
22:EA:68:TYR:C	22:EA:69:ARG:CG	2.85	0.44
27:EF:170:PHE:CD1	27:EF:216:ASN:OD1	2.70	0.44
27:EF:50:TYR:O	27:EF:54:GLN:HG3	2.18	0.44
29:EH:58:GLU:CD	29:EH:160:PRO:HB2	2.38	0.44
30:EI:13:HIS:HE1	30:EI:119:VAL:H	1.66	0.44
30:EI:155:LEU:HD13	1:F1:3205:A:C8	2.52	0.44
30:EI:35:VAL:O	30:EI:36:ARG:HB2	2.16	0.44
31:EJ:88:PRO:HA	31:EJ:97:ILE:O	2.18	0.44
34:EM:107:ARG:HA	34:EM:107:ARG:HD2	1.76	0.44
34:EM:267:ASN:HD21	34:EM:270:PRO:CG	2.30	0.44
24:EC:34:ARG:NE	35:EN:24:ASN:CB	2.80	0.44
33:EL:147:ARG:NE	42:EU:105:LEU:HD21	2.29	0.44
42:EU:36:LYS:HZ3	42:EU:45:LEU:CD2	2.26	0.44
1:F1:1173:A:H4'	1:F1:1358:U:C5	2.52	0.44
1:F1:1201:G:H2'	1:F1:1202:C:C6	2.53	0.44
1:F1:663:G:H4'	1:F1:1460:G:O6	2.17	0.44
1:F1:1555:A:OP2	1:F1:1617:G:N2	2.48	0.44
36:EO:42:ARG:HH22	1:F1:1626:U:P	2.39	0.44
1:F1:2962:U:C5'	1:F1:2962:U:H6	2.31	0.44
1:F1:296:G:H8	1:F1:296:G:O5'	2.00	0.44
1:F1:314:C:H2'	1:F1:315:U:H6	1.78	0.44
23:EB:119:TYR:HE1	1:F1:3255:A:C5'	2.30	0.44
1:F1:3303:G:H2'	1:F1:3304:U:C6	2.53	0.44
1:F1:608:C:C2'	1:F1:609:A:O5'	2.65	0.44
1:F1:640:G:H2'	1:F1:641:U:C6	2.53	0.44
1:F1:1753:A:N6	7:FG:47:ASN:O	2.40	0.44
8:FH:15:TRP:CZ3	8:FH:105:ARG:CZ	3.00	0.44
13:FN:115:LYS:O	13:FN:119:VAL:HG23	2.17	0.44
20:G2:10:U:C4	20:G2:11:C:N4	2.85	0.44
27:GF:19:ASN:CB	27:GF:20:PRO:CD	2.94	0.44
27:GF:83:SER:O	27:GF:87:LYS:HG3	2.17	0.44
30:GI:160:ARG:O	30:GI:163:ALA:HB3	2.17	0.44
32:GK:99:VAL:CG2	32:GK:122:PRO:HB2	2.48	0.44
35:GN:168:ARG:HH11	18:HU:9:VAL:HG22	1.82	0.44
20:G2:15:G:O4'	38:GQ:7:SER:HB3	2.18	0.44
45:GX:46:ARG:HD2	45:GX:48:PHE:CE2	2.51	0.44
46:GY:51:ALA:HB3	46:GY:54:ILE:HB	1.99	0.44
1:H1:102:G:OP2	50:H1:3653:HOH:O	2.21	0.44
1:H1:1154:G:N2	1:H1:1157:A:OP2	2.48	0.44
1:H1:1221:G:C6	1:H1:1222:A:N6	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1241:U:H2'	1:H1:1242:U:C6	2.51	0.44
1:H1:1414:C:N3	1:H1:1415:C:C5	2.86	0.44
1:H1:1537:U:C5'	1:H1:1538:U:C5	2.97	0.44
1:H1:1592:G:H2'	1:H1:1593:A:O4'	2.18	0.44
33:GL:74:PRO:HA	1:H1:2162:A:C1'	2.47	0.44
1:H1:2352:A:H2'	1:H1:2353:C:C6	2.43	0.44
1:H1:238:G:H5'	2:HA:86:ALA:CB	2.45	0.44
1:H1:2569:A:C2'	1:H1:2570:U:OP1	2.64	0.44
1:H1:2649:G:H2'	1:H1:2650:U:H6	1.81	0.44
33:GL:14:LYS:NZ	1:H1:268:G:O4'	2.43	0.44
1:H1:296:G:H8	1:H1:296:G:O5'	2.01	0.44
1:H1:3101:G:O6	1:H1:3109:C:H5'	2.17	0.44
24:GC:103:LYS:NZ	1:H1:365:A:OP1	2.47	0.44
1:H1:474:G:H2'	1:H1:475:C:H6	1.83	0.44
1:H1:615:G:H2'	1:H1:616:A:H8	1.81	0.44
1:H1:961:A:H5''	1:H1:962:G:OP1	2.18	0.44
1:H1:590:A:O2'	6:HF:64:GLU:OE2	2.31	0.44
9:HJ:39:GLU:O	9:HJ:43:VAL:HB	2.17	0.44
18:HU:34:LEU:HA	18:HU:37:ARG:HD2	1.99	0.44
1:A1:111:C:H3'	1:A1:154:U:O4	2.17	0.44
1:A1:1371:G:H8	1:A1:1371:G:H5'	1.82	0.44
1:A1:1595:A:C5	1:A1:1596:U:C1'	2.94	0.44
1:A1:1783:U:C2	1:A1:1794:G:C2	3.05	0.44
1:A1:1821:U:H1'	1:A1:1822:G:C2	2.52	0.44
1:A1:236:G:H2'	1:A1:237:A:C8	2.52	0.44
1:A1:279:U:O2	1:A1:281:G:C8	2.71	0.44
1:A1:3228:U:C3'	1:A1:3229:C:H5'	2.47	0.44
1:A1:434:A:H4'	1:A1:435:A:H8	1.81	0.44
1:A1:454:A:N6	1:A1:524:G:H1'	2.30	0.44
1:A1:534:U:C2	1:A1:535:C:C5	3.06	0.44
1:A1:556:A:C6	1:A1:557:U:C5	3.06	0.44
1:A1:627:U:O2	1:A1:630:G:C6	2.71	0.44
1:A1:734:A:H2'	1:A1:735:A:O4'	2.17	0.44
6:AF:23:LYS:CB	6:AF:43:ILE:HD11	2.48	0.44
6:AF:99:LYS:HD3	30:BI:197:GLY:CA	2.32	0.44
7:AG:43:PHE:CD1	7:AG:68:HIS:HD2	2.35	0.44
9:AJ:213:THR:O	9:AJ:217:VAL:HG23	2.17	0.44
10:AK:118:SER:HB3	50:AK:303:HOH:O	2.17	0.44
13:AN:14:LEU:HD23	13:AN:14:LEU:HA	1.76	0.44
15:AP:33:VAL:HG22	15:AP:42:PHE:CD2	2.53	0.44
18:AU:30:LYS:N	18:AU:33:ARG:HH21	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AX:89:TYR:O	19:AX:107:GLU:HA	2.17	0.44
19:AX:71:ARG:NE	43:BV:74:VAL:HG11	2.33	0.44
19:AX:96:GLN:CB	19:AX:134:THR:CG2	2.95	0.44
23:BB:108:LYS:HE2	23:BB:137:PHE:CD1	2.53	0.44
23:BB:309:PHE:HA	23:BB:310:PRO:HD3	1.79	0.44
23:BB:56:ILE:CG2	23:BB:57:LEU:N	2.81	0.44
23:BB:60:VAL:HG23	23:BB:67:HIS:O	2.18	0.44
24:BC:7:ILE:HD13	24:BC:156:PRO:HD2	1.99	0.44
24:BC:356:GLN:O	24:BC:360:LYS:HG2	2.17	0.44
24:BC:388:ILE:O	24:BC:391:ALA:HB3	2.18	0.44
25:BD:12:VAL:CG2	25:BD:162:TRP:CD1	2.99	0.44
27:BF:219:ASP:HB3	27:BF:223:LYS:HE3	1.98	0.44
18:AU:19:ARG:HD2	33:BL:196:GLN:HB3	2.00	0.44
34:BM:284:ALA:O	34:BM:288:LYS:HG2	2.18	0.44
18:AU:150:LEU:CD2	42:BU:122:LEU:HD13	2.48	0.44
43:BV:170:LEU:HD23	43:BV:170:LEU:HA	1.62	0.44
44:BW:91:LEU:HD23	44:BW:91:LEU:HA	1.65	0.44
22:CA:184:GLY:O	22:CA:187:PHE:HB3	2.18	0.44
24:CC:44:ASP:HB3	24:CC:118:ARG:HB2	2.00	0.44
24:CC:91:ARG:O	24:CC:91:ARG:HG3	2.16	0.44
27:CF:169:PRO:CB	27:CF:211:PHE:HB2	2.45	0.44
27:CF:219:ASP:HB3	27:CF:223:LYS:HE3	2.00	0.44
29:CH:80:ILE:HD11	29:CH:144:HIS:HB3	1.98	0.44
30:CI:27:LEU:HD23	30:CI:27:LEU:HA	1.75	0.44
30:CI:35:VAL:O	30:CI:36:ARG:HB2	2.16	0.44
31:CJ:11:VAL:CG2	31:CJ:131:PRO:HD3	2.48	0.44
34:CM:145:ILE:HD13	1:D1:2737:A:H4'	1.99	0.44
34:CM:267:ASN:HD21	34:CM:270:PRO:CG	2.30	0.44
35:CN:18:ARG:HH12	35:CN:56:SER:HA	1.80	0.44
47:CO:162:UNK:O	47:CO:165:UNK:CG	2.59	0.44
47:CO:84:THR:OG1	47:CO:87:ALA:HB2	2.16	0.44
41:CT:2:VAL:HG22	41:CT:3:VAL:N	2.32	0.44
42:CU:122:LEU:HD21	18:DU:117:TYR:CE1	2.53	0.44
1:D1:1176:G:H8	1:D1:1176:G:H5'	1.82	0.44
30:CI:17:ARG:HH22	1:D1:1344:A:H4'	1.81	0.44
1:D1:137:A:C6	1:D1:138:C:C4	3.06	0.44
1:D1:1430:G:C6	1:D1:1434:G:C6	3.05	0.44
1:D1:1736:G:N1	1:D1:1737:A:N1	2.65	0.44
1:D1:2889:G:N2	1:D1:3019:G:O2'	2.50	0.44
1:D1:2113:A:C8	1:D1:3053:U:H1'	2.53	0.44
1:D1:3136:A:C5	1:D1:3137:U:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CI:113:ARG:O	1:D1:3162:A:C8	2.70	0.44
1:D1:3175:A:N6	6:DF:16:ASN:ND2	2.57	0.44
1:D1:467:A:C5	1:D1:468:A:C5	3.05	0.44
1:D1:528:C:H2'	1:D1:529:G:C8	2.53	0.44
1:D1:581:C:H2'	1:D1:582:A:O4'	2.18	0.44
1:D1:646:A:H2'	1:D1:647:U:H6	1.82	0.44
1:D1:655:A:H2'	1:D1:656:C:C5	2.51	0.44
1:D1:911:C:C2'	1:D1:912:G:H5'	2.48	0.44
4:DC:19:THR:CG2	4:DC:20:ASN:N	2.80	0.44
5:DE:60:GLY:O	5:DE:177:LYS:HA	2.17	0.44
5:DE:58:PHE:HB3	5:DE:85:VAL:CG2	2.48	0.44
6:DF:79:PHE:O	6:DF:80:ASP:HB2	2.18	0.44
14:DO:87:VAL:HG21	14:DO:115:HIS:CD2	2.52	0.44
18:DU:106:SER:O	18:DU:110:ASN:ND2	2.49	0.44
18:DU:154:VAL:N	18:DU:155:PRO:HD3	2.32	0.44
19:DX:55:PHE:CZ	19:DX:59:MET:CE	3.00	0.44
23:EB:26:ARG:HD2	23:EB:177:LEU:CD2	2.46	0.44
23:EB:377:PHE:HZ	41:ET:13:TYR:HE1	1.66	0.44
24:EC:359:LEU:CD2	24:EC:363:ARG:HH21	2.30	0.44
24:EC:380:PHE:O	24:EC:383:ALA:HB3	2.16	0.44
34:EM:18:THR:CG2	34:EM:18:THR:O	2.65	0.44
35:EN:77:LYS:HE2	35:EN:98:LYS:HE2	2.00	0.44
38:EQ:24:LEU:CD1	38:EQ:92:VAL:HG11	2.47	0.44
40:ES:24:HIS:NE2	40:ES:25:LEU:HG	2.32	0.44
42:EU:98:LYS:HG2	1:F1:242:G:P	2.57	0.44
45:EX:113:ARG:HE	45:EX:117:LEU:HD11	1.83	0.44
1:F1:1064:C:O2	1:F1:1064:C:H2'	2.18	0.44
1:F1:1381:G:H5'	14:FO:37:GLN:CG	2.48	0.44
1:F1:1393:A:H2'	1:F1:1394:G:C8	2.53	0.44
1:F1:1414:C:C4	1:F1:1415:C:C5	3.06	0.44
1:F1:1820:U:H4'	1:F1:1821:U:OP2	2.13	0.44
1:F1:1936:U:O2	1:F1:2117:A:H3'	2.17	0.44
1:F1:1936:U:O2'	1:F1:2117:A:N7	2.46	0.44
37:EP:54:TYR:CD1	1:F1:2713:U:H4'	2.53	0.44
1:F1:3097:G:C2	1:F1:3116:A:C2	3.05	0.44
1:F1:3175:A:C5'	1:F1:3176:A:OP2	2.65	0.44
1:F1:3232:A:N6	1:F1:3233:A:C2	2.85	0.44
1:F1:436:U:C2'	1:F1:437:A:H5'	2.48	0.44
1:F1:658:G:H5'	8:FH:28:HIS:O	2.17	0.44
1:F1:666:U:H5'	1:F1:1143:G:O6	2.17	0.44
1:F1:937:G:H2'	1:F1:939:A:N7	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:978:G:OP2	17:FT:15:LYS:NZ	2.43	0.44
1:F1:992:A:N6	1:F1:993:G:C6	2.85	0.44
5:FE:42:ARG:H	5:FE:92:GLN:HE21	1.63	0.44
6:FF:44:VAL:HG12	6:FF:45:ARG:H	1.82	0.44
1:F1:3155:A:C6	8:FH:102:SER:HB3	2.53	0.44
9:FJ:46:ILE:HD11	9:FJ:202:TRP:CZ2	2.53	0.44
9:FJ:4:ARG:HH21	9:FJ:215:ILE:HD12	1.82	0.44
19:FX:187:THR:CG2	19:FX:188:THR:N	2.80	0.44
19:FX:7:GLN:NE2	19:FX:80:GLU:H	2.16	0.44
20:G2:58:U:H2'	20:G2:59:G:H8	1.83	0.44
21:G3:70:G:C2	21:G3:71:G:C8	3.06	0.44
22:GA:117:VAL:CG1	22:GA:118:GLU:N	2.80	0.44
22:GA:218:GLN:CD	50:GA:405:HOH:O	2.54	0.44
22:GA:210:HIS:CE1	22:GA:236:VAL:HG12	2.53	0.44
23:GB:110:ILE:CG2	23:GB:114:THR:HG21	2.47	0.44
23:GB:46:PHE:HD1	23:GB:206:ILE:HD12	1.81	0.44
24:GC:303:GLU:H	24:GC:303:GLU:CD	2.17	0.44
24:GC:313:THR:HG22	24:GC:314:THR:H	1.82	0.44
27:GF:142:LYS:HE3	27:GF:194:THR:O	2.17	0.44
27:GF:36:GLN:NE2	1:H1:2520:G:H1	2.16	0.44
29:GH:7:ARG:NH1	1:H1:2844:G:N7	2.64	0.44
29:GH:9:TYR:CG	29:GH:97:LEU:HD13	2.51	0.44
33:GL:192:TRP:CE2	33:GL:196:GLN:HG3	2.53	0.44
34:GM:132:VAL:HG12	34:GM:132:VAL:O	2.16	0.44
34:GM:99:TYR:CG	34:GM:204:ILE:CG2	3.00	0.44
24:GC:287:ARG:CD	35:GN:111:ARG:NH1	2.80	0.44
36:GO:102:LEU:HD13	36:GO:127:SER:HB3	1.99	0.44
38:GQ:128:ARG:HG2	38:GQ:142:LEU:CD2	2.47	0.44
38:GQ:44:GLU:HA	38:GQ:44:GLU:OE1	2.16	0.44
20:G2:68:A:OP1	42:GU:57:LYS:HE2	2.17	0.44
46:GY:55:TRP:CZ2	46:GY:70:GLU:C	2.91	0.44
1:H1:1173:A:H4'	1:H1:1358:U:C5	2.53	0.44
24:GC:200:LYS:NZ	1:H1:1446:C:OP2	2.37	0.44
1:H1:2391:G:C5'	1:H1:2392:A:H4'	2.41	0.44
1:H1:2436:U:H2'	1:H1:2437:G:C8	2.53	0.44
1:H1:2594:G:H2'	1:H1:2596:G:O6	2.18	0.44
1:H1:2651:A:H5''	50:H1:4310:HOH:O	2.18	0.44
1:H1:2715:C:O5'	1:H1:2715:C:H6	2.01	0.44
1:H1:2914:A:H2'	1:H1:2915:C:C6	2.52	0.44
1:H1:29:C:C2'	1:H1:30:U:H5'	2.47	0.44
23:GB:171:GLN:HG3	1:H1:3273:U:H5''	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:45:C:OP1	18:HU:14:LYS:HE2	2.17	0.44
1:H1:619:G:O2'	1:H1:620:A:H2	2.00	0.44
8:HH:12:THR:HG22	8:HH:14:LEU:HG	2.00	0.44
9:HJ:129:ILE:O	9:HJ:133:LEU:HB2	2.18	0.44
1:H1:742:U:O4	17:HT:61:LYS:HB3	2.17	0.44
18:HU:123:LEU:HD22	18:HU:135:LEU:O	2.17	0.44
18:HU:76:GLN:HB2	18:HU:101:ASN:HD22	1.81	0.44
1:A1:1050:C:O2	1:A1:1055:A:C2	2.71	0.44
1:A1:1055:A:H8	1:A1:1055:A:O5'	2.00	0.44
1:A1:1191:G:H2'	1:A1:1192:A:C8	2.49	0.44
1:A1:1248:G:C8	1:A1:1248:G:O5'	2.70	0.44
1:A1:1474:U:C5	1:A1:2350:G:N2	2.86	0.44
1:A1:1593:A:C4	1:A1:1594:C:C4	3.06	0.44
1:A1:1595:A:H3'	1:A1:1596:U:C6	2.52	0.44
1:A1:1599:G:N1	1:A1:1600:U:C2	2.86	0.44
1:A1:1677:G:O2'	11:AL:42:THR:HG23	2.17	0.44
1:A1:2148:A:H2'	1:A1:2149:U:C6	2.52	0.44
1:A1:2149:U:H4'	22:BA:244:THR:O	2.18	0.44
1:A1:20:G:C5	1:A1:21:A:N7	2.86	0.44
1:A1:2281:U:H4'	1:A1:2282:C:OP1	2.16	0.44
1:A1:2294:A:OP1	50:A1:4494:HOH:O	2.20	0.44
1:A1:2408:A:O5'	1:A1:2408:A:H8	1.99	0.44
1:A1:2784:G:H4'	1:A1:2786:C:C6	2.52	0.44
1:A1:2907:A:C8	1:A1:2907:A:C5'	2.98	0.44
1:A1:3080:A:O2'	1:A1:3081:C:P	2.76	0.44
1:A1:29:C:C2'	1:A1:30:U:H5'	2.48	0.44
1:A1:3103:A:H2'	1:A1:3104:G:N7	2.32	0.44
1:A1:3229:C:O2'	1:A1:3230:G:OP1	2.33	0.44
1:A1:3242:U:O2'	20:B2:3:A:N6	2.45	0.44
1:A1:3141:U:H5''	1:A1:3252:G:N2	2.32	0.44
1:A1:363:G:C8	1:A1:363:G:H5'	2.45	0.44
1:A1:606:U:O2'	1:A1:607:U:H5'	2.17	0.44
1:A1:631:G:C6	5:AE:31:ARG:NH2	2.86	0.44
1:A1:621:G:N2	1:A1:634:G:H5''	2.27	0.44
1:A1:705:A:C5	1:A1:706:U:C5	3.06	0.44
1:A1:936:C:H5''	22:BA:16:VAL:HG21	1.96	0.44
1:A1:2790:A:N3	4:AC:54:PRO:HA	2.33	0.44
5:AE:41:LEU:CG	5:AE:68:GLN:OE1	2.52	0.44
7:AG:57:GLU:HA	7:AG:67:ILE:HD13	1.97	0.44
8:AH:107:MET:SD	8:AH:109:TYR:CE2	3.08	0.44
9:AJ:160:LEU:HD12	9:AJ:182:CYS:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:39:GLU:O	9:AJ:43:VAL:HB	2.17	0.44
12:AM:52:LEU:O	12:AM:53:GLY:O	2.36	0.44
13:AN:95:GLU:O	13:AN:98:LYS:HE2	2.18	0.44
19:AX:44:PHE:CD1	19:AX:137:ILE:CD1	3.01	0.44
22:BA:212:HIS:CE1	22:BA:220:ILE:HD13	2.53	0.44
23:BB:259:ARG:HA	30:BI:63:HIS:HB2	1.99	0.44
1:A1:3264:U:O2	23:BB:332:ARG:NH1	2.51	0.44
26:BE:86:TYR:CE2	26:BE:149:LEU:HB2	2.53	0.44
28:BG:28:UNK:N	28:BG:112:UNK:O	2.51	0.44
29:BH:147:TYR:N	29:BH:147:TYR:CD1	2.86	0.44
31:BJ:35:ALA:HB1	31:BJ:66:VAL:CG1	2.48	0.44
32:BK:89:ARG:HG3	32:BK:90:GLN:N	2.33	0.44
32:BK:91:LYS:HG2	32:BK:92:TYR:CE1	2.53	0.44
33:BL:106:VAL:HG21	33:BL:132:VAL:HG21	2.00	0.44
25:BD:143:ARG:HH21	34:BM:27:LEU:HD22	1.83	0.44
35:BN:89:ASN:OD1	35:BN:90:ASP:C	2.56	0.44
37:BP:52:MET:HG2	37:BP:95:HIS:CE1	2.52	0.44
39:BR:116:ARG:N	39:BR:133:ARG:O	2.49	0.44
39:BR:150:ILE:H	39:BR:150:ILE:CD1	2.20	0.44
42:BU:35:ALA:HB1	42:BU:44:LYS:HD3	2.00	0.44
43:BV:81:ALA:HB3	43:BV:114:PHE:CZ	2.52	0.44
22:BA:175:ARG:HA	46:BY:69:TRP:CE2	2.53	0.44
27:CF:145:VAL:HG13	27:CF:173:VAL:CG2	2.47	0.44
24:CC:117:HIS:CD2	33:CL:202:ARG:HB2	2.52	0.44
33:CL:33:LEU:O	33:CL:65:ARG:NH1	2.51	0.44
34:CM:98:ALA:HB1	34:CM:162:VAL:HG23	1.99	0.44
35:CN:147:GLU:O	35:CN:148:ALA:C	2.56	0.44
24:CC:383:ALA:HB1	37:CP:147:PHE:CG	2.53	0.44
37:CP:91:VAL:HG11	37:CP:96:VAL:HG23	1.99	0.44
39:CR:75:LEU:HD21	39:CR:93:TYR:CE2	2.52	0.44
43:CV:48:TYR:HE1	43:CV:183:HIS:CD2	2.35	0.44
43:CV:231:ILE:O	43:CV:235:VAL:HG23	2.17	0.44
44:CW:66:ILE:HG23	44:CW:67:PRO:HD2	2.00	0.44
1:D1:1121:G:H8	1:D1:1121:G:O5'	2.00	0.44
1:D1:126:A:C5	1:D1:139:A:C6	3.05	0.44
1:D1:1315:U:H2'	1:D1:1316:G:H5''	2.00	0.44
1:D1:1839:A:H4'	1:D1:1840:U:C5'	2.48	0.44
1:D1:2149:U:O2'	1:D1:2150:U:H5''	2.17	0.44
1:D1:2245:G:C4	1:D1:2246:G:C8	3.06	0.44
1:D1:2520:G:H4'	1:D1:2521:A:OP2	2.15	0.44
1:D1:2539:A:C2	1:D1:2540:G:C8	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2843:U:H6	1:D1:2843:U:O5'	2.00	0.44
1:D1:2885:A:O2'	1:D1:2886:G:H3'	2.17	0.44
1:D1:3112:A:C3'	1:D1:3113:G:H5'	2.46	0.44
1:D1:3175:A:N3	1:D1:3175:A:H3'	2.33	0.44
1:D1:436:U:C2'	1:D1:437:A:H5'	2.47	0.44
2:DA:4:GLY:C	2:DA:6:PRO:CD	2.86	0.44
2:DA:84:GLN:OE1	2:DA:84:GLN:HA	2.16	0.44
3:DB:23:LEU:HD22	3:DB:35:ILE:HG22	2.00	0.44
8:DH:26:SER:O	8:DH:27:LYS:C	2.56	0.44
13:DN:122:TYR:O	13:DN:125:ILE:HG13	2.17	0.44
13:DN:95:GLU:OE1	13:DN:95:GLU:HA	2.18	0.44
19:DX:34:THR:O	19:DX:36:PRO:HD3	2.18	0.44
19:DX:28:LEU:HD13	19:DX:70:GLY:O	2.17	0.44
21:E3:11:A:H2'	21:E3:12:U:H5''	2.00	0.44
21:E3:64:A:H5'	21:E3:65:G:OP2	2.18	0.44
23:EB:230:ARG:HG2	23:EB:231:PHE:CE1	2.52	0.44
23:EB:216:LEU:HD22	23:EB:274:THR:HA	1.99	0.44
24:EC:179:VAL:O	24:EC:179:VAL:HG12	2.16	0.44
25:ED:17:LEU:CD1	25:ED:129:VAL:HG22	2.46	0.44
25:ED:134:PRO:HG2	25:ED:135:GLY:N	2.32	0.44
25:ED:142:ARG:O	25:ED:145:THR:OG1	2.35	0.44
27:EF:126:LYS:CE	27:EF:194:THR:OG1	2.65	0.44
29:EH:42:THR:HG23	29:EH:192:THR:CG2	2.44	0.44
34:EM:9:THR:O	34:EM:13:PHE:HD2	1.99	0.44
35:EN:146:ARG:CB	35:EN:149:TYR:CD2	3.01	0.44
36:EO:21:ARG:NH1	36:EO:52:LYS:HE3	2.33	0.44
36:EO:5:ARG:HD2	36:EO:5:ARG:HA	1.76	0.44
40:ES:21:SER:HA	40:ES:22:PRO:HD3	1.86	0.44
40:ES:86:LYS:HE3	40:ES:96:ILE:CD1	2.47	0.44
42:EU:69:ALA:O	42:EU:72:ASP:HB2	2.17	0.44
43:EV:184:GLU:O	43:EV:188:VAL:N	2.50	0.44
1:F1:116:U:H3'	1:F1:117:G:C8	2.53	0.44
1:F1:122:U:O2'	1:F1:123:C:H5'	2.18	0.44
39:ER:43:LEU:HD13	1:F1:1599:G:H5''	1.96	0.44
1:F1:1820:U:O2'	1:F1:1822:G:N2	2.51	0.44
1:F1:1828:C:H2'	1:F1:1829:U:O4'	2.18	0.44
1:F1:19:A:O5'	1:F1:19:A:H8	2.00	0.44
1:F1:2101:G:C5'	1:F1:2101:G:H8	2.29	0.44
1:F1:2292:U:C2	1:F1:2294:A:C6	3.05	0.44
25:ED:99:THR:HG21	1:F1:2673:C:O2'	2.16	0.44
1:F1:269:U:C2	1:F1:270:C:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:180:ARG:HH22	1:F1:301:A:C5'	2.29	0.44
1:F1:3183:A:H4'	1:F1:3184:A:OP1	2.17	0.44
1:F1:452:U:O2'	1:F1:453:A:O5'	2.35	0.44
1:F1:533:G:N2	1:F1:534:U:C2	2.86	0.44
1:F1:727:C:H2'	1:F1:728:G:C8	2.52	0.44
1:F1:79:C:C2'	1:F1:80:C:H5'	2.48	0.44
1:F1:820:G:C2'	1:F1:821:U:H5'	2.42	0.44
2:FA:6:PRO:HD2	2:FA:7:ALA:H	1.82	0.44
20:E2:114:G:N2	3:FB:11:LYS:HZ1	2.16	0.44
3:FB:23:LEU:HD22	3:FB:35:ILE:HG22	1.99	0.44
6:FF:13:VAL:CG1	6:FF:53:VAL:HG13	2.47	0.44
6:FF:26:VAL:HB	6:FF:72:LEU:HD21	2.00	0.44
13:FN:126:ASN:HA	13:FN:127:PRO:HD3	1.73	0.44
33:EL:13:LYS:CD	16:FQ:49:THR:HG21	2.46	0.44
20:G2:58:U:N3	20:G2:65:C:C5	2.71	0.44
20:G2:84:C:O2'	20:G2:89:A:H5'	2.17	0.44
20:G2:89:A:H2'	20:G2:90:G:O4'	2.17	0.44
22:GA:68:TYR:CE1	1:H1:2520:G:O6	2.70	0.44
23:GB:22:THR:HG22	23:GB:23:ARG:N	2.33	0.44
24:GC:270:PHE:HB3	24:GC:285:LEU:HD21	2.00	0.44
26:GE:174:LEU:HB3	10:HK:86:ALA:HB1	1.99	0.44
24:GC:405:ILE:CD1	29:GH:183:ARG:HG2	2.42	0.44
29:GH:183:ARG:O	29:GH:187:GLN:HG3	2.16	0.44
32:GK:89:ARG:HA	32:GK:121:GLN:HE22	1.83	0.44
33:GL:160:GLU:HG2	33:GL:161:LEU:HG	1.99	0.44
34:GM:110:LEU:HD11	34:GM:169:GLY:O	2.17	0.44
34:GM:267:ASN:HD21	34:GM:270:PRO:CG	2.30	0.44
36:GO:4:LEU:HA	36:GO:7:GLN:HG2	1.99	0.44
20:G2:130:C:O2'	39:GR:64:HIS:HD2	2.01	0.44
40:GS:33:HIS:O	40:GS:104:VAL:HA	2.17	0.44
43:GV:48:TYR:HE1	43:GV:183:HIS:CD2	2.36	0.44
45:GX:84:LEU:HD12	45:GX:110:LEU:CD2	2.45	0.44
1:H1:1021:U:N3	1:H1:1022:A:N7	2.65	0.44
1:H1:1049:U:C2	1:H1:1056:A:C2	3.06	0.44
1:H1:1050:C:H2'	1:H1:1051:C:O4'	2.17	0.44
1:H1:111:C:C2'	1:H1:111:C:O2	2.65	0.44
1:H1:1218:U:H3'	10:HK:113:ARG:NH1	2.32	0.44
1:H1:1658:G:O6	13:HN:17:ARG:HD2	2.17	0.44
1:H1:1966:U:C2'	1:H1:1967:C:O5'	2.65	0.44
1:H1:20:G:C5	1:H1:21:A:N7	2.85	0.44
31:GJ:41:ILE:HD13	1:H1:2290:A:N9	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3112:A:C3'	1:H1:3113:G:H5'	2.48	0.44
23:GB:377:PHE:C	1:H1:3325:G:H22	2.21	0.44
1:H1:606:U:O2'	1:H1:607:U:H5'	2.18	0.44
1:H1:685:G:H4'	1:H1:685:G:OP1	2.17	0.44
1:H1:784:G:O2'	1:H1:796:A:N6	2.51	0.44
2:HA:21:ARG:NE	2:HA:44:MET:HE1	2.31	0.44
4:HC:4:VAL:O	4:HC:91:PHE:HA	2.16	0.44
5:HE:42:ARG:HG2	5:HE:92:GLN:NE2	2.32	0.44
6:HF:13:VAL:CG1	6:HF:53:VAL:HG13	2.47	0.44
9:HJ:62:VAL:O	9:HJ:73:PRO:HD3	2.16	0.44
14:HO:83:VAL:HG21	14:HO:90:VAL:CG2	2.48	0.44
15:HP:11:PHE:O	15:HP:15:TRP:HD1	2.00	0.44
16:HQ:40:LEU:O	16:HQ:44:VAL:HG23	2.17	0.44
17:HT:56:SER:OG	17:HT:57:LYS:N	2.51	0.44
19:HX:148:ILE:HG13	19:HX:154:LEU:CD2	2.48	0.44
1:A1:137:A:C6	1:A1:138:C:C4	3.05	0.44
1:A1:1410:G:O3'	24:BC:145:ARG:NH2	2.50	0.44
1:A1:1430:G:C6	1:A1:1434:G:C6	3.06	0.44
1:A1:1546:G:O3'	39:BR:77:THR:CG2	2.61	0.44
1:A1:1594:C:H2'	1:A1:1595:A:C5'	2.44	0.44
1:A1:1751:A:OP1	46:BY:44:LYS:NZ	2.49	0.44
1:A1:1758:U:H5'	1:A1:1759:C:OP2	2.17	0.44
1:A1:1775:A:C8	1:A1:1777:A:C8	3.06	0.44
1:A1:1823:A:H2'	1:A1:1824:A:O4'	2.17	0.44
1:A1:2159:C:H4'	22:BA:8:GLN:HA	1.98	0.44
1:A1:2683:A:H5''	1:A1:2684:A:OP2	2.18	0.44
1:A1:2690:U:H5'	1:A1:2694:A:N6	2.32	0.44
1:A1:2765:C:H4'	1:A1:2766:A:O5'	2.17	0.44
1:A1:3061:A:C2'	1:A1:3062:A:H5'	2.48	0.44
1:A1:3102:A:H4'	26:BE:69:GLN:HB3	1.99	0.44
1:A1:338:C:H6	1:A1:338:C:C5'	2.28	0.44
1:A1:376:A:C5'	1:A1:377:A:OP1	2.65	0.44
1:A1:488:U:H5	18:AU:161:LYS:HE2	1.81	0.44
1:A1:608:C:C2'	1:A1:609:A:O5'	2.65	0.44
1:A1:77:A:H2'	1:A1:78:G:C8	2.52	0.44
2:AA:6:PRO:HD2	2:AA:7:ALA:H	1.82	0.44
5:AE:45:ILE:HG23	5:AE:45:ILE:O	2.17	0.44
5:AE:53:LEU:HA	5:AE:53:LEU:HD12	1.86	0.44
5:AE:90:VAL:HG13	5:AE:91:ASN:N	2.33	0.44
5:AE:179:THR:HA	8:AH:12:THR:HG23	1.99	0.44
8:AH:91:PHE:HD1	8:AH:91:PHE:N	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:5:CYS:SG	9:AJ:13:ILE:CD1	3.06	0.44
14:AO:115:HIS:O	14:AO:118:ASN:N	2.51	0.44
19:AX:113:LEU:HD12	19:AX:116:ALA:HB3	2.00	0.44
19:AX:57:TYR:O	19:AX:60:ARG:HG2	2.18	0.44
27:BF:121:LYS:HA	27:BF:122:PRO:HD3	1.81	0.44
27:BF:232:GLN:O	27:BF:233:LYS:C	2.55	0.44
29:BH:10:ARG:NH2	29:BH:161:GLY:HA3	2.33	0.44
32:BK:141:VAL:HG12	32:BK:141:VAL:O	2.18	0.44
33:BL:98:LEU:O	33:BL:101:CYS:HB2	2.18	0.44
36:BO:115:ILE:CG2	36:BO:119:GLN:HB3	2.48	0.44
36:BO:12:ALA:N	36:BO:22:LEU:HD11	2.33	0.44
1:A1:2690:U:OP1	37:BP:17:LYS:HD2	2.18	0.44
38:BQ:71:ARG:HG2	38:BQ:81:THR:CG2	2.46	0.44
39:BR:75:LEU:HA	39:BR:75:LEU:HD23	1.61	0.44
41:BT:54:THR:HG22	41:BT:55:ILE:N	2.33	0.44
21:C3:13:A:P	21:C3:109:U:HO2'	2.32	0.44
21:C3:35:C:N4	21:C3:46:C:H1'	2.33	0.44
22:CA:8:GLN:HA	1:D1:2159:C:H4'	1.99	0.44
23:CB:49:PHE:CD1	23:CB:49:PHE:N	2.85	0.44
24:CC:166:TYR:HD1	24:CC:171:GLN:HG3	1.83	0.44
24:CC:200:LYS:HB2	24:CC:201:LEU:HD23	1.98	0.44
24:CC:147:HIS:CD2	24:CC:254:ARG:HA	2.53	0.44
24:CC:310:VAL:HG12	24:CC:311:ALA:N	2.31	0.44
24:CC:33:ILE:CD1	24:CC:135:ALA:HA	2.47	0.44
25:CD:48:SER:HB3	1:D1:2671:C:OP1	2.17	0.44
29:CH:140:VAL:HG12	29:CH:141:LYS:H	1.81	0.44
30:CI:109:THR:CG2	30:CI:110:PRO:CD	2.84	0.44
35:CN:68:ILE:HG13	35:CN:68:ILE:H	1.54	0.44
38:CQ:99:ASN:ND2	38:CQ:99:ASN:O	2.51	0.44
40:CS:31:SER:HB2	40:CS:47:MET:O	2.18	0.44
42:CU:41:THR:H	42:CU:44:LYS:HD2	1.81	0.44
43:CV:37:ARG:O	43:CV:38:LYS:C	2.54	0.44
45:CX:59:PHE:CZ	1:D1:1189:U:H4'	2.53	0.44
1:D1:1154:G:N2	1:D1:1157:A:OP2	2.49	0.44
1:D1:1158:G:C4	1:D1:2368:A:C2	3.06	0.44
1:D1:1162:A:OP2	17:DT:5:LYS:HD2	2.18	0.44
1:D1:1188:G:C2	1:D1:1189:U:C5	3.05	0.44
1:D1:1499:G:O2'	1:D1:1500:A:H5'	2.17	0.44
1:D1:122:U:H4'	1:D1:150:A:H1'	2.00	0.44
1:D1:1693:U:O4	50:D1:4864:HOH:O	2.21	0.44
1:D1:1769:U:H2'	1:D1:1770:A:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1840:U:C6	1:D1:1840:U:OP2	2.68	0.44
1:D1:906:C:H1'	1:D1:1874:A:C8	2.53	0.44
31:CJ:25:ALA:HA	1:D1:1922:G:O2'	2.18	0.44
1:D1:2661:G:N2	1:D1:2671:C:O2	2.51	0.44
1:D1:2886:G:H5''	1:D1:2887:C:H5'	2.00	0.44
1:D1:3094:U:H2'	1:D1:3095:A:H8	1.81	0.44
26:CE:66:ALA:HA	1:D1:3102:A:O2'	2.17	0.44
1:D1:332:G:C3'	1:D1:333:G:H5''	2.46	0.44
1:D1:339:C:C2'	1:D1:340:G:H5'	2.48	0.44
1:D1:452:U:O2'	1:D1:453:A:C5'	2.65	0.44
1:D1:534:U:C2	1:D1:535:C:C5	3.05	0.44
24:CC:355:ARG:NH1	1:D1:559:G:H5''	2.32	0.44
1:D1:591:G:H8	1:D1:591:G:H5'	1.82	0.44
1:D1:779:A:C2	1:D1:780:C:C2	3.05	0.44
1:D1:983:U:OP1	1:D1:2787:A:H3'	2.18	0.44
2:DA:71:ILE:O	2:DA:75:ALA:HB2	2.17	0.44
3:DB:6:THR:HB	3:DB:9:MET:HG3	2.00	0.44
7:DG:77:LEU:HA	7:DG:77:LEU:HD23	1.64	0.44
1:D1:3155:A:H62	8:DH:101:GLY:N	2.14	0.44
9:DJ:35:TYR:CZ	9:DJ:50:HIS:CE1	3.06	0.44
9:DJ:66:ASN:C	9:DJ:66:ASN:OD1	2.55	0.44
9:DJ:6:GLN:NE2	50:DJ:401:HOH:O	2.51	0.44
19:DX:156:MET:HE2	19:DX:161:LEU:CD2	2.47	0.44
20:E2:2:G:O2'	20:E2:3:A:P	2.76	0.44
20:E2:96:A:C6	2:FA:80:ARG:NH1	2.86	0.44
21:E3:15:U:H1'	34:EM:13:PHE:HE1	1.83	0.44
23:EB:371:VAL:CG1	23:EB:382:ARG:CZ	2.96	0.44
24:EC:319:ARG:CD	1:F1:634:G:C8	3.01	0.44
24:EC:82:PRO:O	24:EC:96:ALA:N	2.39	0.44
25:ED:19:ILE:CG2	25:ED:125:MET:HE1	2.48	0.44
27:EF:65:LYS:HZ3	27:EF:225:TRP:HZ3	1.64	0.44
28:EG:58:UNK:HA	1:F1:1308:U:H5''	1.99	0.44
34:EM:110:LEU:CD1	34:EM:169:GLY:O	2.66	0.44
35:EN:178:HIS:ND1	35:EN:179:GLY:O	2.50	0.44
35:EN:64:SER:O	35:EN:68:ILE:HG13	2.18	0.44
36:EO:125:LEU:HD21	1:F1:1744:A:H61	1.82	0.44
36:EO:76:THR:CG2	36:EO:81:ARG:HH21	2.30	0.44
20:E2:129:A:O3'	39:ER:99:THR:HG21	2.17	0.44
43:EV:188:VAL:O	43:EV:188:VAL:HG12	2.17	0.44
44:EW:4:GLN:CG	44:EW:76:LYS:HZ3	2.31	0.44
46:EY:32:THR:CG2	46:EY:70:GLU:HG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1111:G:H3'	1:F1:1112:A:H8	1.83	0.44
1:F1:130:G:C6	1:F1:137:A:C6	3.06	0.44
1:F1:997:G:H4'	1:F1:1399:A:O2'	2.17	0.44
1:F1:144:A:H2'	1:F1:145:A:H5'	2.00	0.44
1:F1:1592:G:N2	1:F1:1602:U:H1'	2.33	0.44
1:F1:19:A:C4'	1:F1:20:G:OP2	2.62	0.44
1:F1:2208:A:H1'	1:F1:2590:A:O2'	2.18	0.44
1:F1:2343:A:C2'	1:F1:2344:U:H5''	2.47	0.44
1:F1:2698:A:H2'	1:F1:2699:C:C6	2.53	0.44
1:F1:2977:U:H2'	1:F1:2978:G:O4'	2.17	0.44
1:F1:534:U:C2	1:F1:535:C:C5	3.05	0.44
1:F1:567:C:H2'	1:F1:568:A:O4'	2.18	0.44
1:F1:745:A:H4'	17:FT:58:ASN:HD21	1.80	0.44
4:FC:4:VAL:HA	4:FC:5:PRO:HD3	1.81	0.44
8:FH:91:PHE:CZ	8:FH:95:LEU:HD11	2.52	0.44
9:FJ:39:GLU:O	9:FJ:43:VAL:HB	2.17	0.44
9:FJ:71:LEU:HB3	9:FJ:97:ILE:CD1	2.47	0.44
1:F1:1732:C:H1'	11:FL:54:ASN:HD21	1.83	0.44
11:FL:96:LEU:HA	11:FL:96:LEU:HD23	1.68	0.44
14:FO:26:THR:O	14:FO:26:THR:HG22	2.18	0.44
1:F1:488:U:C5	18:FU:161:LYS:HE2	2.47	0.44
18:FU:54:PRO:HB3	18:FU:73:PHE:CE1	2.53	0.44
20:G2:134:C:H6	20:G2:134:C:H3'	1.80	0.44
20:G2:7:U:OP1	38:GQ:36:ARG:NH1	2.40	0.44
21:G3:115:U:H2'	21:G3:116:A:C8	2.53	0.44
21:G3:33:U:C6	34:GM:212:TYR:CE1	3.05	0.44
21:G3:89:G:C6	21:G3:90:A:C6	3.05	0.44
27:GF:92:TYR:CE2	27:GF:123:ILE:HG21	2.46	0.44
27:GF:232:GLN:O	27:GF:233:LYS:C	2.52	0.44
29:GH:91:VAL:CG1	29:GH:127:ALA:HB1	2.48	0.44
29:GH:80:ILE:HD11	29:GH:144:HIS:HB3	2.00	0.44
29:GH:51:HIS:HB3	29:GH:134:ILE:HG23	1.98	0.44
30:GI:109:THR:O	30:GI:110:PRO:C	2.54	0.44
30:GI:35:VAL:O	30:GI:36:ARG:HB2	2.18	0.44
34:GM:113:ILE:HG21	34:GM:115:LEU:HD11	1.99	0.44
34:GM:135:ASP:OD1	34:GM:135:ASP:O	2.35	0.44
35:GN:167:VAL:HG13	35:GN:169:SER:O	2.16	0.44
39:GR:71:VAL:HG21	39:GR:107:PHE:HD1	1.81	0.44
40:GS:55:VAL:CG1	40:GS:56:LEU:N	2.81	0.44
43:GV:128:LEU:N	43:GV:129:PRO:CD	2.79	0.44
24:GC:333:LEU:CD2	43:GV:161:THR:O	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GX:89:MET:HE2	45:GX:89:MET:HB3	1.92	0.44
1:H1:1051:C:H2'	1:H1:1052:A:C1'	2.45	0.44
1:H1:1057:U:H2'	1:H1:1058:C:C6	2.53	0.44
1:H1:1153:G:H2'	1:H1:1154:G:O4'	2.17	0.44
27:GF:121:LYS:HA	1:H1:118:A:N7	2.33	0.44
1:H1:12:A:H2'	1:H1:13:C:C6	2.52	0.44
1:H1:1497:U:H2'	1:H1:1498:U:C6	2.51	0.44
1:H1:1783:U:C2	1:H1:1794:G:C2	3.05	0.44
1:H1:2154:A:C8	1:H1:2172:G:N2	2.86	0.44
1:H1:2194:G:C2'	1:H1:2195:U:H5'	2.47	0.44
1:H1:2438:G:C6	1:H1:2439:C:C4	3.06	0.44
1:H1:2601:U:H1'	1:H1:2791:A:N3	2.33	0.44
1:H1:2667:A:N6	1:H1:2668:A:C6	2.85	0.44
1:H1:1:C:O2'	1:H1:2:U:H5'	2.18	0.44
1:H1:3098:A:N1	1:H1:3115:C:C4	2.86	0.44
1:H1:3198:A:C6	1:H1:3199:G:C6	3.06	0.44
1:H1:451:A:OP1	14:HO:55:LYS:HD3	2.17	0.44
1:H1:561:A:O2'	1:H1:562:G:H5'	2.18	0.44
1:H1:927:G:C4	1:H1:928:U:C5	3.05	0.44
5:HE:75:LEU:HA	5:HE:75:LEU:HD23	1.50	0.44
6:HF:34:ASN:C	6:HF:50:ILE:HG13	2.38	0.44
1:H1:614:G:N2	8:HH:52:GLN:OE1	2.51	0.44
9:HJ:186:ILE:HG12	9:HJ:187:ASN:H	1.83	0.44
16:HQ:60:GLU:HG3	16:HQ:61:LEU:N	2.33	0.44
1:A1:1064:C:C2'	1:A1:1065:U:C5'	2.91	0.44
1:A1:1216:C:O2'	30:BI:132:ARG:NH1	2.50	0.44
1:A1:1222:A:H2'	1:A1:1336:U:O2	2.16	0.44
1:A1:130:G:C6	1:A1:137:A:C6	3.05	0.44
1:A1:1548:U:OP1	39:BR:131:TYR:OH	2.31	0.44
1:A1:1552:U:O2	1:A1:1620:U:H5'	2.18	0.44
1:A1:1736:G:N1	1:A1:1737:A:N1	2.64	0.44
1:A1:1769:U:H2'	1:A1:1770:A:H8	1.82	0.44
1:A1:2123:U:O2'	1:A1:2124:C:H5'	2.17	0.44
1:A1:2130:G:N2	1:A1:2143:A:H1'	2.32	0.44
1:A1:170:A:N6	1:A1:249:G:H1'	2.28	0.44
1:A1:2597:G:O2'	33:BL:79:ILE:CD1	2.64	0.44
1:A1:2631:A:H5'	17:AT:7:SER:HB3	1.99	0.44
1:A1:2632:A:C2'	1:A1:2634:G:OP2	2.66	0.44
1:A1:2767:A:H2'	1:A1:2768:G:O5'	2.17	0.44
1:A1:3056:C:H3'	36:BO:62:ARG:HH22	1.83	0.44
1:A1:3177:G:H8	1:A1:3177:G:OP1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3185:G:C5	1:A1:3237:C:C4	3.05	0.44
1:A1:452:U:O2'	1:A1:453:A:C5'	2.66	0.44
1:A1:474:G:H2'	1:A1:475:C:C6	2.53	0.44
1:A1:486:C:H2'	1:A1:487:G:H5'	2.00	0.44
1:A1:549:G:H2'	1:A1:550:G:H8	1.82	0.44
1:A1:848:C:H2'	1:A1:849:U:H6	1.82	0.44
1:A1:935:G:H5'	22:BA:12:ARG:HH11	1.82	0.44
5:AE:117:PHE:HA	5:AE:149:ARG:NH2	2.33	0.44
5:AE:77:THR:CG2	5:AE:157:ASP:OD1	2.66	0.44
13:AN:52:LYS:O	13:AN:65:ARG:NE	2.50	0.44
14:AO:111:LEU:O	14:AO:112:VAL:C	2.57	0.44
14:AO:48:VAL:HG23	14:AO:98:PHE:HZ	1.81	0.44
18:AU:81:ALA:HB2	18:AU:114:LEU:HD13	1.99	0.44
18:AU:54:PRO:HB3	18:AU:73:PHE:CE1	2.53	0.44
18:AU:57:ARG:HD2	18:AU:64:ASN:O	2.17	0.44
19:AX:176:LYS:HE2	19:AX:177:TYR:OH	2.18	0.44
19:AX:23:VAL:HG22	19:AX:75:VAL:HG22	1.99	0.44
19:AX:34:THR:CG2	19:AX:35:LYS:N	2.80	0.44
21:B3:93:G:C8	21:B3:93:G:O5'	2.67	0.44
22:BA:97:ILE:HD11	22:BA:109:PRO:HD3	2.00	0.44
23:BB:105:VAL:HG11	23:BB:146:LEU:HD21	1.99	0.44
23:BB:340:ILE:HG13	23:BB:341:ILE:H	1.82	0.44
24:BC:283:TYR:C	24:BC:283:TYR:CD1	2.90	0.44
29:BH:3:ARG:HH12	29:BH:63:GLU:HB2	1.82	0.44
30:BI:64:ASN:HD21	30:BI:66:ARG:CG	2.25	0.44
36:BO:102:LEU:HD13	36:BO:127:SER:HB3	1.99	0.44
36:BO:4:LEU:HA	36:BO:7:GLN:HG2	1.98	0.44
34:BM:41:LYS:NZ	37:BP:32:THR:O	2.49	0.44
39:BR:94:VAL:HG21	39:BR:103:ILE:HD13	1.99	0.44
23:BB:365:HIS:HA	41:BT:19:ARG:NH2	2.32	0.44
1:A1:864:C:H41	46:BY:4:ARG:NH2	2.14	0.44
23:CB:46:PHE:HD1	23:CB:206:ILE:HD12	1.81	0.44
23:CB:60:VAL:HG23	23:CB:67:HIS:O	2.17	0.44
24:CC:369:HIS:O	24:CC:372:GLY:N	2.51	0.44
24:CC:402:GLY:O	29:CH:178:ARG:NH1	2.51	0.44
24:CC:67:HIS:CD2	24:CC:91:ARG:HH21	2.35	0.44
25:CD:117:ASP:H	25:CD:120:THR:HB	1.82	0.44
29:CH:19:LYS:HG3	29:CH:26:VAL:CG1	2.47	0.44
30:CI:10:ALA:O	30:CI:13:HIS:HB2	2.18	0.44
31:CJ:88:PRO:HA	31:CJ:97:ILE:O	2.18	0.44
33:CL:174:LEU:HD22	33:CL:185:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:119:TYR:CE1	34:CM:132:VAL:CG1	3.01	0.44
35:CN:152:TRP:CG	1:D1:1136:C:H5''	2.53	0.44
47:CO:76:THR:CG2	47:CO:81:ARG:HH21	2.31	0.44
46:CY:51:ALA:HB3	46:CY:54:ILE:HB	2.00	0.44
1:D1:1110:U:O2	1:D1:1110:U:H2'	2.18	0.44
1:D1:1241:U:H2'	1:D1:1242:U:C6	2.52	0.44
1:D1:1394:G:O2'	1:D1:1395:U:H6	2.00	0.44
1:D1:1772:G:C2'	1:D1:1773:G:H5'	2.46	0.44
1:D1:1973:A:H2'	1:D1:1974:U:H6	1.81	0.44
1:D1:2227:A:H2'	1:D1:2228:A:O4'	2.17	0.44
1:D1:2564:G:O6	1:D1:2565:A:N6	2.50	0.44
1:D1:2683:A:H5''	1:D1:2684:A:OP2	2.18	0.44
1:D1:2701:U:H2'	1:D1:2702:U:C6	2.53	0.44
1:D1:278:U:H2'	1:D1:279:U:H6	1.82	0.44
1:D1:2849:U:H3'	1:D1:2850:U:H6	1.83	0.44
1:D1:2900:G:P	50:D1:4562:HOH:O	2.58	0.44
1:D1:3067:A:O2'	1:D1:3068:U:P	2.76	0.44
1:D1:3174:U:C4	6:DF:90:PHE:CE1	3.06	0.44
1:D1:3272:U:C4	1:D1:3273:U:C5	3.06	0.44
1:D1:371:A:C6	1:D1:372:A:C6	3.06	0.44
1:D1:806:G:H2'	1:D1:807:G:H5'	1.99	0.44
1:D1:358:C:C4'	1:D1:842:A:N6	2.78	0.44
1:D1:882:G:HO2'	1:D1:883:A:P	2.40	0.44
1:D1:894:G:C6	1:D1:895:A:C6	3.06	0.44
8:DH:15:TRP:CH2	8:DH:105:ARG:NH2	2.86	0.44
13:DN:95:GLU:O	13:DN:98:LYS:HE2	2.18	0.44
15:DP:42:PHE:C	15:DP:43:LYS:HG2	2.38	0.44
19:DX:16:MET:CE	19:DX:18:VAL:CG2	2.96	0.44
20:E2:130:C:C2'	20:E2:131:C:H5'	2.48	0.44
20:E2:72:C:H5'	20:E2:73:G:OP2	2.18	0.44
21:E3:27:A:H2'	21:E3:28:C:H6	1.81	0.44
21:E3:70:G:C2	21:E3:71:G:C8	3.05	0.44
21:E3:83:G:N1	21:E3:93:G:N2	2.50	0.44
22:EA:55:ARG:NH2	1:F1:2171:U:H5''	2.33	0.44
23:EB:101:ALA:O	1:F1:3135:A:O2'	2.36	0.44
24:EC:100:GLN:NE2	1:F1:828:C:O2'	2.50	0.44
26:EE:110:ILE:CG1	26:EE:132:ILE:HD13	2.47	0.44
26:EE:84:GLU:HB3	26:EE:185:ALA:O	2.18	0.44
27:EF:138:ASN:O	27:EF:139:LYS:HB2	2.17	0.44
27:EF:45:VAL:HG12	27:EF:46:ARG:N	2.31	0.44
31:EJ:75:LYS:HE2	1:F1:2289:U:OP2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:64:VAL:HG21	33:EL:106:VAL:HG23	1.99	0.44
35:EN:10:ARG:HA	1:F1:1369:C:H1'	2.00	0.44
35:EN:138:PHE:CE2	35:EN:140:LEU:HD13	2.52	0.44
35:EN:18:ARG:HH12	35:EN:56:SER:HA	1.82	0.44
35:EN:67:ARG:HD3	35:EN:67:ARG:HA	1.69	0.44
34:EM:37:ILE:HD11	37:EP:31:LEU:HD11	2.00	0.44
43:EV:103:PHE:CZ	43:EV:124:ILE:CG1	3.00	0.44
1:F1:1005:A:C2	1:F1:1007:G:C6	3.06	0.44
1:F1:1135:U:C6	1:F1:1135:U:C5'	3.01	0.44
1:F1:1521:U:H5'	1:F1:1522:C:C5	2.53	0.44
1:F1:1593:A:C4	1:F1:1594:C:C4	3.06	0.44
1:F1:1661:A:H5''	13:FN:15:GLN:O	2.18	0.44
1:F1:1775:A:C5'	15:FP:34:LYS:NZ	2.81	0.44
1:F1:2123:U:O2'	1:F1:2124:C:H5'	2.18	0.44
1:F1:418:G:N2	1:F1:2360:C:H1'	2.32	0.44
1:F1:2436:U:H2'	1:F1:2437:G:C8	2.53	0.44
22:EA:68:TYR:CE1	1:F1:2520:G:O6	2.71	0.44
1:F1:2559:U:O2	1:F1:2561:A:N1	2.51	0.44
1:F1:2561:A:N3	1:F1:2563:U:C6	2.86	0.44
1:F1:2907:A:N1	1:F1:2915:C:O2	2.51	0.44
33:EL:180:ARG:NH2	1:F1:301:A:H4'	2.33	0.44
1:F1:3115:C:C2'	1:F1:3116:A:O5'	2.66	0.44
1:F1:592:A:OP1	6:FF:68:ARG:HG3	2.18	0.44
1:F1:632:G:C5	1:F1:633:C:C4	3.06	0.44
1:F1:688:U:C2	1:F1:689:A:C8	3.06	0.44
1:F1:790:C:HO2'	1:F1:791:C:H6	1.55	0.44
1:F1:957:U:O4'	1:F1:958:A:H5'	2.18	0.44
5:FE:60:GLY:O	5:FE:177:LYS:HA	2.18	0.44
5:FE:56:GLY:O	5:FE:59:ARG:N	2.31	0.44
5:FE:63:VAL:HG13	5:FE:78:GLY:N	2.31	0.44
30:EI:193:LEU:HD21	6:FF:114:LEU:CB	2.47	0.44
9:FJ:161:VAL:HG12	9:FJ:162:HIS:N	2.31	0.44
12:FM:82:THR:HG21	12:FM:97:VAL:HG21	1.99	0.44
11:FL:78:TYR:HE1	13:FN:144:PHE:HB2	1.83	0.44
13:FN:30:GLU:HA	13:FN:30:GLU:OE1	2.17	0.44
13:FN:24:VAL:C	13:FN:43:VAL:HG13	2.38	0.44
18:FU:59:GLN:O	18:FU:59:GLN:CG	2.64	0.44
19:FX:44:PHE:CD2	19:FX:117:VAL:HG21	2.52	0.44
20:G2:3:A:N1	1:H1:3242:U:O2'	2.50	0.44
22:GA:208:VAL:HG21	1:H1:941:G:O6	2.18	0.44
23:GB:301:LYS:HD3	23:GB:359:THR:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:111:LYS:HB3	24:GC:113:TYR:CE1	2.52	0.44
24:GC:205:ARG:NH2	40:GS:11:ARG:NH1	2.65	0.44
25:GD:12:VAL:O	25:GD:12:VAL:HG23	2.18	0.44
27:GF:161:GLN:OE1	27:GF:164:ARG:NH1	2.51	0.44
29:GH:201:GLY:O	29:GH:208:ARG:NH2	2.51	0.44
30:GI:177:ARG:HA	30:GI:180:GLU:HG2	1.99	0.44
30:GI:11:LYS:CD	30:GI:36:ARG:NH1	2.80	0.44
30:GI:99:GLU:HG2	30:GI:99:GLU:O	2.18	0.44
31:GJ:32:ASN:ND2	31:GJ:117:GLN:N	2.65	0.44
34:GM:19:LYS:O	34:GM:24:ARG:NH1	2.51	0.44
36:GO:76:THR:CG2	36:GO:81:ARG:HH21	2.31	0.44
43:GV:80:VAL:HG22	43:GV:188:VAL:HG21	1.99	0.44
46:GY:10:ILE:O	46:GY:13:LYS:HG2	2.17	0.44
1:H1:1143:G:N2	1:H1:2805:A:O4'	2.50	0.44
1:H1:1248:G:C8	1:H1:1248:G:O5'	2.71	0.44
1:H1:1248:G:O2'	1:H1:1249:G:OP2	2.29	0.44
1:H1:126:A:C5	1:H1:139:A:C6	3.06	0.44
1:H1:1314:A:H2'	1:H1:1315:U:H6	1.83	0.44
1:H1:1388:U:H2'	1:H1:1389:G:C8	2.52	0.44
1:H1:2599:G:H2'	1:H1:2600:U:O4'	2.17	0.44
1:H1:3083:A:H2'	1:H1:3084:U:C6	2.53	0.44
1:H1:3141:U:H5''	1:H1:3252:G:N2	2.32	0.44
1:H1:3177:G:OP1	1:H1:3177:G:C8	2.71	0.44
1:H1:3197:A:OP2	1:H1:3213:G:N1	2.48	0.44
1:H1:533:G:H2'	1:H1:534:U:C6	2.52	0.44
24:GC:376:TRP:CD1	1:H1:564:A:C1'	2.84	0.44
1:H1:772:U:O2'	1:H1:773:C:H5'	2.17	0.44
2:HA:17:THR:HG23	2:HA:18:LEU:H	1.82	0.44
5:HE:54:LEU:HD22	8:HH:14:LEU:HD13	2.00	0.44
6:HF:28:VAL:CG1	6:HF:66:ASN:N	2.81	0.44
8:HH:9:VAL:CG1	8:HH:10:ALA:H	2.30	0.44
9:HJ:58:ILE:O	9:HJ:59:VAL:C	2.55	0.44
1:H1:1677:G:O2'	11:HL:42:THR:HG23	2.17	0.44
13:HN:83:THR:CG2	13:HN:85:TYR:HD2	2.30	0.44
14:HO:36:THR:O	14:HO:37:GLN:C	2.56	0.44
14:HO:94:ILE:HD13	14:HO:107:ALA:CB	2.48	0.44
1:A1:1108:A:H2'	1:A1:1108:A:N3	2.32	0.44
1:A1:1176:G:H5'	1:A1:1176:G:H8	1.82	0.44
1:A1:1207:A:C4	1:A1:1209:G:C8	3.05	0.44
1:A1:1497:U:C2	1:A1:1498:U:C5	3.06	0.44
1:A1:1533:G:H5''	1:A1:1533:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1692:G:C6	1:A1:1693:U:C4	3.05	0.44
1:A1:1767:U:C5	11:AL:35:VAL:HG21	2.52	0.44
1:A1:2113:A:H2'	1:A1:2114:C:O4'	2.18	0.44
1:A1:20:G:C6	1:A1:21:A:N7	2.85	0.44
1:A1:2261:U:H2'	1:A1:2262:C:C6	2.53	0.44
1:A1:2349:C:N4	50:A1:4566:HOH:O	2.50	0.44
1:A1:2380:U:O2	1:A1:2380:U:C2'	2.65	0.44
1:A1:2735:A:H2'	1:A1:2736:A:O4'	2.18	0.44
1:A1:2744:C:O2'	37:BP:49:HIS:CD2	2.69	0.44
1:A1:984:C:N4	1:A1:2789:A:C8	2.86	0.44
1:A1:2842:U:OP1	29:BH:61:THR:OG1	2.36	0.44
1:A1:3092:A:H2'	1:A1:3093:U:O5'	2.18	0.44
1:A1:418:G:N2	1:A1:2360:C:H1'	2.32	0.44
1:A1:987:A:O2'	1:A1:988:G:H5'	2.18	0.44
2:AA:20:ARG:CZ	20:B2:111:A:C6	3.00	0.44
9:AJ:117:ILE:HD13	9:AJ:137:VAL:CG1	2.47	0.44
9:AJ:4:ARG:HB3	9:AJ:208:LEU:HA	1.99	0.44
7:AG:35:ARG:HH22	13:AN:78:ASN:HA	1.83	0.44
1:A1:1381:G:OP1	14:AO:36:THR:HB	2.18	0.44
19:AX:92:VAL:O	19:AX:138:ILE:N	2.45	0.44
21:B3:63:A:N1	29:BH:202:GLU:HG3	2.32	0.44
23:BB:56:ILE:CG2	23:BB:354:LEU:HD22	2.46	0.44
23:BB:33:PRO:CD	23:BB:44:THR:CG2	2.96	0.44
24:BC:194:LEU:HA	24:BC:194:LEU:HD23	1.61	0.44
24:BC:147:HIS:CD2	24:BC:254:ARG:HA	2.53	0.44
26:BE:115:PHE:CZ	26:BE:163:CYS:O	2.71	0.44
27:BF:83:SER:O	27:BF:87:LYS:HG3	2.18	0.44
29:BH:34:TYR:CZ	29:BH:92:HIS:CE1	3.06	0.44
30:BI:22:VAL:O	30:BI:26:LEU:HG	2.18	0.44
31:BJ:28:ASN:N	31:BJ:102:ASN:O	2.47	0.44
33:BL:142:ILE:HG23	33:BL:148:ILE:HG22	1.99	0.44
24:BC:117:HIS:CD2	33:BL:202:ARG:HB2	2.52	0.44
34:BM:38:ILE:HD12	37:BP:70:ARG:NH2	2.33	0.44
27:BF:45:VAL:HA	39:BR:35:VAL:O	2.18	0.44
45:BX:73:PHE:HE1	45:BX:120:ARG:HH11	1.65	0.44
32:BK:21:ARG:NH1	45:BX:40:ILE:HG22	2.31	0.44
1:A1:1365:C:H4'	45:BX:62:ASP:HB2	1.99	0.44
45:BX:4:LYS:HD2	45:BX:92:ARG:NE	2.33	0.44
1:A1:862:A:OP1	46:BY:9:GLY:HA2	2.17	0.44
21:C3:120:U:OP2	34:CM:270:PRO:HB3	2.17	0.44
22:CA:71:LYS:HE3	22:CA:73:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:299:THR:HG22	23:CB:300:ASP:N	2.33	0.44
23:CB:371:VAL:CG1	23:CB:382:ARG:CZ	2.96	0.44
24:CC:28:VAL:HG13	24:CC:270:PHE:CD2	2.53	0.44
24:CC:348:ALA:C	24:CC:350:ALA:H	2.21	0.44
27:CF:170:PHE:CD1	27:CF:216:ASN:OD1	2.70	0.44
27:CF:53:LEU:HA	27:CF:53:LEU:HD23	1.64	0.44
29:CH:44:GLU:OE1	29:CH:44:GLU:HA	2.18	0.44
30:CI:181:LEU:HG	30:CI:190:LYS:HE3	1.99	0.44
34:CM:173:ILE:HA	34:CM:174:PRO:HD3	1.80	0.44
34:CM:179:ARG:CZ	1:D1:2735:A:OP2	2.66	0.44
34:CM:284:ALA:O	34:CM:288:LYS:HG2	2.18	0.44
37:CP:17:LYS:HB3	37:CP:21:THR:HB	1.99	0.44
1:D1:1056:A:C4	1:D1:1057:U:C6	3.06	0.44
1:D1:1111:G:H3'	1:D1:1112:A:H8	1.83	0.44
34:CM:44:TYR:CD1	1:D1:1112:A:H4'	2.53	0.44
1:D1:1178:U:H5''	1:D1:1179:G:OP2	2.18	0.44
1:D1:116:U:H3'	1:D1:117:G:C8	2.53	0.44
1:D1:1213:G:N3	19:DX:126:GLY:CA	2.80	0.44
1:D1:1229:A:O2'	1:D1:1230:A:H5'	2.18	0.44
1:D1:1435:C:O2'	1:D1:1436:C:H5'	2.18	0.44
32:CK:9:ARG:HD2	1:D1:1456:U:C4	2.53	0.44
1:D1:1593:A:C4	1:D1:1594:C:C4	3.05	0.44
1:D1:2252:C:H2'	1:D1:2253:U:OP2	2.18	0.44
1:D1:2377:G:H2'	1:D1:2378:A:H5'	1.98	0.44
1:D1:2403:U:C2	1:D1:2802:G:N2	2.86	0.44
1:D1:2529:G:H2'	1:D1:2530:G:H8	1.83	0.44
22:CA:86:GLY:HA3	1:D1:2545:A:C4	2.53	0.44
1:D1:105:A:H1'	1:D1:324:A:N3	2.33	0.44
1:D1:3294:A:O5'	1:D1:3294:A:H8	2.00	0.44
1:D1:454:A:N6	1:D1:524:G:H1'	2.30	0.44
1:D1:550:G:C6	1:D1:551:U:C4	3.05	0.44
1:D1:633:C:H3'	5:DE:30:ARG:NH2	2.32	0.44
1:D1:635:A:HO2'	1:D1:636:U:C5'	2.16	0.44
35:CN:57:ARG:CB	1:D1:696:A:OP2	2.66	0.44
1:D1:792:G:HO2'	1:D1:793:A:C5'	2.20	0.44
2:DA:69:LYS:H	2:DA:69:LYS:HG2	1.63	0.44
1:D1:528:C:OP1	5:DE:15:ILE:HG12	2.18	0.44
5:DE:40:LYS:O	5:DE:41:LEU:HD23	2.18	0.44
9:DJ:158:GLY:CA	9:DJ:179:ILE:HD12	2.48	0.44
7:DG:35:ARG:HH12	13:DN:77:LEU:C	2.21	0.44
18:DU:132:LYS:O	18:DU:135:LEU:HD13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DU:177:VAL:HG12	18:DU:181:ILE:HD11	1.99	0.44
18:DU:30:LYS:N	18:DU:33:ARG:HH21	2.15	0.44
18:DU:54:PRO:HB3	18:DU:73:PHE:CE1	2.52	0.44
19:DX:117:VAL:O	19:DX:120:LEU:HB3	2.17	0.44
19:DX:176:LYS:HE2	19:DX:177:TYR:OH	2.17	0.44
21:E3:36:C:O2'	21:E3:37:A:H5'	2.17	0.44
22:EA:103:LEU:HD12	22:EA:108:ILE:HD13	2.00	0.44
22:EA:108:ILE:HB	22:EA:137:ILE:CD1	2.48	0.44
22:EA:179:PRO:HG2	46:EY:26:VAL:HG22	2.00	0.44
23:EB:89:VAL:O	23:EB:104:THR:HA	2.18	0.44
23:EB:114:THR:CG2	23:EB:115:LYS:N	2.81	0.44
23:EB:84:MET:HE1	23:EB:179:ILE:HD11	2.00	0.44
24:EC:195:ARG:HH11	24:EC:204:ARG:CB	2.31	0.44
28:EG:58:UNK:CB	1:F1:1308:U:H5''	2.48	0.44
32:EK:75:VAL:CG2	32:EK:109:PHE:CB	2.96	0.44
33:EL:36:ILE:HD11	33:EL:105:ARG:HB3	2.00	0.44
33:EL:182:LYS:CG	33:EL:183:SER:N	2.77	0.44
35:EN:37:LEU:O	35:EN:41:THR:CB	2.65	0.44
35:EN:52:ARG:NH1	35:EN:141:ARG:HG3	2.33	0.44
36:EO:4:LEU:HA	36:EO:7:GLN:HG2	1.99	0.44
38:EQ:34:VAL:O	38:EQ:38:ILE:HG13	2.18	0.44
43:EV:170:LEU:O	43:EV:171:GLY:C	2.56	0.44
44:EW:14:ASN:ND2	44:EW:17:LYS:CE	2.75	0.44
44:EW:68:ARG:C	44:EW:69:ARG:HG2	2.38	0.44
1:F1:1159:C:C2'	1:F1:1160:A:H5'	2.47	0.44
1:F1:1184:U:H5'	1:F1:1184:U:C6	2.38	0.44
1:F1:1211:A:C2	1:F1:1350:G:C4	3.05	0.44
1:F1:125:G:C6	1:F1:142:A:C6	3.06	0.44
1:F1:1398:G:C2'	1:F1:1399:A:O5'	2.65	0.44
1:F1:1918:U:H2'	1:F1:1919:A:H5'	1.96	0.44
1:F1:2309:U:C5'	1:F1:2310:G:OP2	2.66	0.44
1:F1:2378:A:C2'	1:F1:2379:A:O5'	2.65	0.44
1:F1:2432:G:H2'	1:F1:2433:A:O4'	2.18	0.44
1:F1:2563:U:C2	1:F1:2564:G:C8	3.06	0.44
1:F1:2886:G:H5''	1:F1:2887:C:H5'	1.99	0.44
1:F1:3185:G:O6	1:F1:3235:U:O3'	2.36	0.44
24:EC:51:GLN:NE2	1:F1:335:A:O2'	2.47	0.44
1:F1:363:G:C8	1:F1:363:G:H5'	2.44	0.44
1:F1:588:G:H2'	1:F1:589:C:C6	2.53	0.44
1:F1:611:A:H8	1:F1:611:A:O5'	2.01	0.44
1:F1:646:A:H2'	1:F1:647:U:H6	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:77:LEU:HD23	7:FG:77:LEU:HA	1.71	0.44
8:FH:56:VAL:CG2	8:FH:106:VAL:HG22	2.47	0.44
9:FJ:187:ASN:HD21	9:FJ:207:GLY:CA	2.16	0.44
12:FM:23:GLN:N	12:FM:24:PRO:HD2	2.32	0.44
12:FM:52:LEU:HD23	12:FM:52:LEU:HA	1.85	0.44
20:G2:2:G:O2'	20:G2:3:A:P	2.76	0.44
21:G3:120:U:OP2	34:GM:270:PRO:CB	2.66	0.44
24:GC:65:MET:HE3	24:GC:105:ARG:HG2	2.00	0.44
24:GC:166:TYR:HD1	24:GC:171:GLN:HG3	1.82	0.44
24:GC:227:LEU:O	24:GC:228:ARG:C	2.55	0.44
25:GD:131:LEU:HD11	25:GD:162:TRP:CE3	2.52	0.44
11:AL:109:SER:O	25:GD:25:GLU:OE2	2.36	0.44
27:GF:21:LEU:HD12	27:GF:21:LEU:HA	1.73	0.44
27:GF:50:TYR:CD1	27:GF:51:ILE:HG23	2.51	0.44
29:GH:19:LYS:HG3	29:GH:26:VAL:HG11	1.99	0.44
30:GI:166:TYR:CE2	1:H1:3162:A:C5	3.06	0.44
33:GL:37:HIS:NE2	33:GL:63:ARG:HB2	2.33	0.44
34:GM:212:TYR:CD2	34:GM:228:PHE:CE2	3.06	0.44
35:GN:85:SER:O	35:GN:103:ALA:HB1	2.17	0.44
39:GR:97:ARG:HA	39:GR:97:ARG:HD2	1.90	0.44
40:GS:113:SER:O	40:GS:117:LEU:HG	2.18	0.44
40:GS:3:THR:HG22	40:GS:3:THR:O	2.17	0.44
41:GT:27:ASP:N	41:GT:27:ASP:OD1	2.47	0.44
43:GV:215:ARG:HH21	1:H1:1198:G:P	2.41	0.44
1:H1:1348:G:C2'	1:H1:1349:U:O5'	2.65	0.44
1:H1:136:C:C2'	1:H1:137:A:H5'	2.48	0.44
1:H1:1423:A:H2'	1:H1:1424:U:O5'	2.18	0.44
1:H1:1638:A:O5'	15:HP:2:PRO:HD3	2.18	0.44
1:H1:1661:A:N3	1:H1:1733:C:O2'	2.48	0.44
1:H1:1667:A:C2'	1:H1:1668:A:O5'	2.65	0.44
1:H1:1820:U:H4'	1:H1:1821:U:OP2	2.17	0.44
1:H1:2191:C:O2'	1:H1:2265:A:N3	2.38	0.44
1:H1:2290:A:C6	1:H1:2291:A:C6	3.06	0.44
1:H1:2312:A:H2'	1:H1:2313:U:O5'	2.18	0.44
1:H1:2377:G:C2'	1:H1:2378:A:H5'	2.48	0.44
1:H1:2661:G:N2	1:H1:2671:C:O2	2.50	0.44
1:H1:2714:U:H2'	1:H1:2715:C:H5'	1.99	0.44
1:H1:3234:U:O4	1:H1:3236:C:C5	2.70	0.44
1:H1:406:A:C8	1:H1:407:C:C5	3.06	0.44
1:H1:611:A:O5'	1:H1:611:A:H8	2.01	0.44
5:HE:67:LYS:HD2	5:HE:109:THR:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:HF:121:THR:CG2	6:HF:121:THR:O	2.65	0.44
12:HM:42:LYS:HD3	12:HM:42:LYS:HA	1.82	0.44
12:HM:51:ASN:ND2	12:HM:51:ASN:C	2.69	0.44
12:HM:52:LEU:O	12:HM:53:GLY:O	2.35	0.44
1:A1:1053:A:N1	13:HN:3:LYS:HE3	2.33	0.44
14:HO:69:LYS:HD3	14:HO:71:LYS:O	2.17	0.44
16:HQ:83:THR:O	16:HQ:84:HIS:C	2.56	0.44
18:HU:166:VAL:HG12	18:HU:167:SER:N	2.32	0.44
1:A1:1045:G:H1	1:A1:1059:U:H3	1.66	0.44
1:A1:1064:C:H5'	34:BM:5:LYS:CE	2.46	0.44
1:A1:1064:C:H5'	34:BM:5:LYS:NZ	2.27	0.44
1:A1:1135:U:H6	1:A1:1135:U:C5'	2.31	0.44
1:A1:1312:G:H2'	1:A1:1313:A:C8	2.53	0.44
1:A1:1507:A:C4	11:AL:4:ARG:NH2	2.82	0.44
1:A1:165:C:H5''	18:AU:132:LYS:HD2	2.00	0.44
1:A1:222:A:C6	1:A1:223:C:C4	3.06	0.44
1:A1:210:A:O2'	1:A1:229:A:O2'	2.26	0.44
1:A1:2347:A:C6	1:A1:2348:G:C6	3.06	0.44
1:A1:2649:G:H2'	1:A1:2650:U:H6	1.83	0.44
1:A1:2702:U:H3'	4:AC:9:LYS:O	2.18	0.44
1:A1:2703:G:H4'	1:A1:2704:A:C5'	2.47	0.44
1:A1:3061:A:H2'	1:A1:3062:A:H5'	1.99	0.44
1:A1:3083:A:H2'	1:A1:3084:U:H6	1.83	0.44
1:A1:3097:G:OP2	10:AK:112:LYS:NZ	2.44	0.44
1:A1:661:C:H1'	1:A1:662:C:C6	2.52	0.44
1:A1:700:G:H3'	35:BN:107:THR:HG21	2.00	0.44
1:A1:772:U:O2'	1:A1:773:C:H5'	2.18	0.44
1:A1:861:A:C2	1:A1:883:A:H1'	2.53	0.44
9:AJ:186:ILE:HG12	9:AJ:187:ASN:H	1.82	0.44
1:A1:1663:C:N4	11:AL:75:SER:OG	2.50	0.44
13:AN:39:GLY:O	13:AN:77:LEU:HG	2.17	0.44
16:AQ:40:LEU:O	16:AQ:44:VAL:HG23	2.18	0.44
18:AU:177:VAL:HG21	32:BK:145:CYS:HB3	1.97	0.44
18:AU:74:THR:HB	18:AU:101:ASN:ND2	2.32	0.44
19:AX:170:HIS:ND1	19:AX:170:HIS:C	2.71	0.44
20:B2:29:U:H2'	20:B2:30:U:C6	2.53	0.44
2:AA:88:LYS:NZ	20:B2:72:C:OP1	2.36	0.44
20:B2:72:C:H5'	20:B2:73:G:OP2	2.17	0.44
23:BB:62:ARG:CG	23:BB:62:ARG:NH1	2.72	0.44
24:BC:316:THR:O	24:BC:317:HIS:CD2	2.67	0.44
24:BC:33:ILE:HD13	24:BC:135:ALA:CA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BH:91:VAL:CG1	29:BH:127:ALA:HB1	2.48	0.44
29:BH:139:ARG:HD3	29:BH:173:PHE:HE1	1.78	0.44
30:BI:13:HIS:HA	30:BI:122:ALA:O	2.18	0.44
30:BI:10:ALA:O	30:BI:13:HIS:HB2	2.17	0.44
33:BL:65:ARG:HB2	33:BL:127:TYR:CD2	2.42	0.44
34:BM:243:VAL:HG12	34:BM:247:PHE:CD2	2.47	0.44
1:A1:1077:U:H5''	37:BP:19:TYR:HD2	1.83	0.44
39:BR:147:ILE:CG2	42:BU:34:ILE:HD13	2.48	0.44
44:BW:75:CYS:O	44:BW:90:THR:HG23	2.18	0.44
45:BX:98:ILE:C	45:BX:123:ASN:HD21	2.20	0.44
45:BX:53:ARG:HD3	45:BX:53:ARG:HA	1.42	0.44
21:C3:83:G:C2	21:C3:93:G:N2	2.84	0.44
23:CB:10:ARG:NH1	1:D1:2871:U:OP1	2.51	0.44
24:CC:230:ILE:HB	24:CC:233:VAL:HG11	2.00	0.44
24:CC:27:ALA:O	24:CC:30:THR:HB	2.17	0.44
24:CC:74:THR:HG22	1:D1:2397:A:H5''	2.00	0.44
26:CE:178:TYR:HB3	10:DK:89:TYR:CE2	2.53	0.44
27:CF:69:GLN:HE21	27:CF:222:ARG:HH12	1.66	0.44
27:CF:83:SER:O	27:CF:87:LYS:HG3	2.18	0.44
33:CL:139:HIS:HD2	33:CL:141:ALA:HB3	1.83	0.44
34:CM:153:THR:HG22	34:CM:179:ARG:NH1	2.32	0.44
32:CK:53:GLY:HA2	35:CN:177:ALA:O	2.18	0.44
47:CO:44:LEU:HA	47:CO:44:LEU:HD23	1.85	0.44
37:CP:17:LYS:HD2	1:D1:2690:U:OP1	2.17	0.44
38:CQ:44:GLU:OE1	38:CQ:44:GLU:HA	2.18	0.44
38:CQ:59:CYS:HB3	38:CQ:74:GLN:CB	2.48	0.44
40:CS:44:VAL:HG11	40:CS:47:MET:CE	2.47	0.44
43:CV:170:LEU:O	43:CV:171:GLY:C	2.56	0.44
45:CX:89:MET:CE	14:DO:31:VAL:O	2.65	0.44
46:CY:8:VAL:CG1	46:CY:12:ARG:N	2.81	0.44
1:D1:1050:C:H2'	1:D1:1051:C:N1	2.33	0.44
1:D1:970:C:O2'	1:D1:1432:G:H1'	2.17	0.44
1:D1:1655:A:C4	1:D1:1669:G:C5	3.06	0.44
1:D1:1808:A:H2'	1:D1:1809:C:H6	1.82	0.44
1:D1:2260:C:C2'	1:D1:2261:U:H5'	2.48	0.44
1:D1:2300:G:C8	1:D1:2300:G:O5'	2.71	0.44
1:D1:239:G:C6	1:D1:240:A:N6	2.86	0.44
1:D1:2436:U:H2'	1:D1:2437:G:C8	2.53	0.44
1:D1:3070:C:H2'	1:D1:3071:C:C6	2.52	0.44
1:D1:458:G:H2'	1:D1:459:G:O4'	2.17	0.44
1:D1:588:G:H2'	1:D1:589:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:630:G:H2'	1:D1:631:G:C4'	2.48	0.44
1:D1:666:U:H5'	1:D1:1143:G:O6	2.18	0.44
2:DA:4:GLY:C	2:DA:6:PRO:HD2	2.39	0.44
3:DB:7:LEU:HA	3:DB:7:LEU:HD23	1.61	0.44
7:DG:57:GLU:HA	7:DG:67:ILE:HD13	1.97	0.44
8:DH:56:VAL:CG2	8:DH:106:VAL:HG22	2.48	0.44
1:D1:1091:G:H1'	17:DT:28:ARG:NH1	2.33	0.44
19:DX:179:THR:HG22	19:DX:181:TYR:N	2.33	0.44
20:E2:74:A:H62	20:E2:88:G:H1'	1.75	0.44
21:E3:63:A:N7	29:EH:209:LEU:HD11	2.33	0.44
22:EA:211:PRO:HG2	22:EA:236:VAL:HG21	2.00	0.44
23:EB:102:LEU:HD12	23:EB:102:LEU:HA	1.67	0.44
23:EB:102:LEU:O	23:EB:103:THR:OG1	2.28	0.44
24:EC:107:PHE:CE1	1:F1:828:C:H5'	2.53	0.44
24:EC:164:GLU:HB3	24:EC:221:SER:HB3	2.00	0.44
24:EC:227:LEU:O	24:EC:228:ARG:C	2.53	0.44
32:EK:110:PHE:HD2	32:EK:128:LYS:HD2	1.82	0.44
32:EK:49:LYS:HD2	35:EN:158:GLN:HE21	1.83	0.44
35:EN:38:VAL:HG13	35:EN:47:GLN:HG2	1.99	0.44
35:EN:87:VAL:HG23	35:EN:103:ALA:CB	2.48	0.44
36:EO:42:ARG:HA	36:EO:45:ILE:HD12	2.00	0.44
38:EQ:117:GLN:O	38:EQ:151:PHE:O	2.35	0.44
44:EW:32:ILE:HD13	1:F1:1485:C:H5'	1.99	0.44
1:F1:753:A:H5'	1:F1:1002:A:O4'	2.18	0.44
1:F1:1027:G:C2'	1:F1:1027:G:N3	2.80	0.44
1:F1:1058:C:N3	1:F1:1059:U:C5	2.86	0.44
1:F1:1150:U:H2'	1:F1:1151:U:O4'	2.17	0.44
1:F1:1167:G:C4	1:F1:1168:C:C5	3.05	0.44
1:F1:2106:G:O2'	1:F1:2107:A:OP1	2.35	0.44
1:F1:2219:A:N1	1:F1:2771:U:O2'	2.38	0.44
1:F1:169:A:P	1:F1:249:G:N2	2.91	0.44
1:F1:255:G:HO2'	1:F1:256:A:H8	1.63	0.44
1:F1:3073:U:C2'	1:F1:3074:G:H5'	2.48	0.44
1:F1:3175:A:H5'	1:F1:3176:A:OP2	2.18	0.44
1:F1:45:C:H5''	18:FU:14:LYS:HG2	2.00	0.44
1:F1:853:A:H2'	1:F1:854:U:C6	2.53	0.44
1:F1:1519:G:C2	3:FB:13:PHE:CE1	3.06	0.44
4:FC:100:ALA:O	4:FC:104:LYS:HG3	2.17	0.44
5:FE:124:LYS:HG2	5:FE:132:ALA:CB	2.46	0.44
1:F1:3184:A:H5''	5:FE:177:LYS:HG3	2.00	0.44
6:FF:14:TYR:OH	6:FF:22:GLY:HA2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FH:26:SER:HG	8:FH:29:THR:HB	1.82	0.44
9:FJ:142:ILE:HD12	9:FJ:148:VAL:HG12	2.00	0.44
12:FM:44:LYS:HA	12:FM:48:LYS:O	2.17	0.44
17:FT:22:LYS:HG2	50:FT:203:HOH:O	2.17	0.44
32:EK:147:LEU:HD21	18:FU:177:VAL:CG1	2.48	0.44
20:G2:72:C:H5'	20:G2:73:G:OP2	2.18	0.44
22:GA:84:TYR:CD1	22:GA:87:GLN:HB2	2.53	0.44
23:GB:235:HIS:HD2	23:GB:236:LEU:O	2.00	0.44
24:GC:276:THR:CG2	24:GC:282:GLY:HA2	2.47	0.44
24:GC:99:ASN:HD22	24:GC:100:GLN:NE2	2.10	0.44
27:GF:183:VAL:CG1	27:GF:183:VAL:O	2.66	0.44
28:GG:15:UNK:CG	28:GG:65:UNK:CA	2.77	0.44
29:GH:44:GLU:CD	29:GH:181:TYR:OH	2.56	0.44
30:GI:35:VAL:CG1	30:GI:36:ARG:N	2.81	0.44
33:GL:195:ARG:HD3	1:H1:97:A:OP1	2.18	0.44
34:GM:163:LEU:HD21	34:GM:175:HIS:HB3	1.98	0.44
34:GM:54:ARG:HA	34:GM:54:ARG:HD3	1.63	0.44
43:GV:145:ILE:HD12	43:GV:182:ILE:HG12	2.00	0.44
1:H1:1054:G:C2'	1:H1:1055:A:H8	2.17	0.44
1:H1:1167:G:C4	1:H1:1168:C:C5	3.06	0.44
28:GG:32:UNK:C	1:H1:1257:G:O3'	2.66	0.44
1:H1:125:G:C6	1:H1:142:A:C6	3.06	0.44
1:H1:1368:U:H2'	1:H1:1369:C:C6	2.53	0.44
1:H1:135:A:C5'	1:H1:136:C:OP2	2.66	0.44
1:H1:1371:G:H5'	1:H1:1371:G:H8	1.82	0.44
1:H1:1839:A:H4'	1:H1:1840:U:C5'	2.48	0.44
1:H1:2240:C:C2'	1:H1:2241:G:O5'	2.65	0.44
1:H1:2255:U:H2'	1:H1:2256:G:O5'	2.17	0.44
1:H1:2310:G:P	50:H1:3959:HOH:O	2.74	0.44
1:H1:2370:G:H3'	50:H1:3714:HOH:O	2.17	0.44
1:H1:2576:C:H5'	1:H1:2576:C:H6	1.77	0.44
1:H1:2597:G:H2'	1:H1:2598:A:H8	1.82	0.44
1:H1:2706:U:H6	1:H1:2706:U:H5'	1.83	0.44
1:H1:3064:A:H2'	1:H1:3065:C:H6	1.83	0.44
23:GB:100:ARG:CD	1:H1:3135:A:H4'	2.48	0.44
1:H1:3141:U:OP1	1:H1:3253:U:H1'	2.17	0.44
1:H1:375:G:H21	1:H1:398:G:H1'	1.82	0.44
1:H1:630:G:H2'	1:H1:631:G:C4'	2.48	0.44
1:H1:917:U:H2'	1:H1:918:C:O4'	2.18	0.44
5:HE:124:LYS:HG2	5:HE:132:ALA:CB	2.44	0.44
7:HG:14:LEU:HD21	7:HG:43:PHE:CZ	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:46:ILE:HG23	9:HJ:47:PRO:HD2	2.00	0.44
13:HN:52:LYS:O	13:HN:65:ARG:NE	2.51	0.44
1:H1:165:C:C5'	18:HU:132:LYS:HD2	2.47	0.44
19:HX:131:GLN:O	19:HX:134:THR:HB	2.18	0.44
19:HX:96:GLN:CB	19:HX:134:THR:CG2	2.96	0.44
19:HX:28:LEU:HD13	19:HX:70:GLY:O	2.18	0.44
1:A1:1064:C:H6	1:A1:1064:C:O5'	2.01	0.43
1:A1:1078:U:C5	1:A1:1079:A:N7	2.86	0.43
1:A1:1107:A:C3'	1:A1:1108:A:H8	2.29	0.43
1:A1:1116:C:H6	1:A1:1116:C:O5'	2.00	0.43
1:A1:1427:G:C2	1:A1:1437:U:O2	2.71	0.43
1:A1:1434:G:OP2	45:BX:33:SER:OG	2.32	0.43
1:A1:144:A:H2'	1:A1:145:A:H5'	1.99	0.43
1:A1:1592:G:H2'	1:A1:1593:A:O4'	2.18	0.43
1:A1:1845:U:C5'	1:A1:1846:C:OP2	2.66	0.43
1:A1:190:U:C4	1:A1:224:C:O4'	2.71	0.43
1:A1:2165:A:C2	1:A1:2166:G:C8	3.06	0.43
1:A1:2253:U:C2'	1:A1:2254:A:H8	2.19	0.43
1:A1:2387:C:O2'	23:BB:264:ARG:CZ	2.61	0.43
1:A1:2432:G:C6	1:A1:2433:A:C5	3.06	0.43
1:A1:2561:A:C2	1:A1:2563:U:C2	3.06	0.43
1:A1:261:U:H2'	1:A1:262:C:H5'	2.00	0.43
1:A1:2669:A:O3'	1:A1:2670:U:C6	2.62	0.43
1:A1:2949:G:H2'	1:A1:2950:U:C6	2.53	0.43
1:A1:3151:G:H2'	1:A1:3152:A:C8	2.53	0.43
1:A1:3251:C:H6	1:A1:3251:C:H5'	1.83	0.43
1:A1:3265:A:H5'	23:BB:270:TYR:CD2	2.52	0.43
1:A1:468:A:N6	1:A1:469:U:C4	2.86	0.43
1:A1:533:G:N2	1:A1:534:U:C2	2.86	0.43
1:A1:415:A:C4'	1:A1:653:C:H4'	2.48	0.43
1:A1:685:G:H2'	1:A1:686:U:OP2	2.18	0.43
1:A1:696:A:OP2	35:BN:57:ARG:CB	2.66	0.43
1:A1:81:C:H2'	1:A1:82:C:O4'	2.18	0.43
1:A1:80:C:H2'	1:A1:81:C:O5'	2.18	0.43
1:A1:979:U:O2'	1:A1:980:U:H5'	2.18	0.43
5:AE:160:LEU:HD23	5:AE:160:LEU:HA	1.63	0.43
6:AF:28:VAL:HG11	6:AF:66:ASN:HA	2.00	0.43
1:A1:1719:U:H4'	11:AL:24:LYS:O	2.18	0.43
11:AL:20:VAL:HG11	11:AL:32:ALA:HB1	2.00	0.43
15:AP:39:ILE:CG2	15:AP:40:THR:N	2.81	0.43
15:AP:53:PHE:CE1	15:AP:55:THR:CG2	2.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:820:G:H21	18:AU:5:ASN:ND2	2.16	0.43
19:AX:43:VAL:HG11	19:AX:54:LYS:HB2	1.99	0.43
19:AX:71:ARG:HE	43:BV:74:VAL:HG11	1.83	0.43
19:AX:7:GLN:NE2	19:AX:80:GLU:H	2.16	0.43
2:AA:80:ARG:NH1	20:B2:96:A:C5	2.86	0.43
22:BA:238:LEU:H	22:BA:238:LEU:HG	1.39	0.43
22:BA:3:ARG:CG	22:BA:4:VAL:H	2.31	0.43
23:BB:117:ARG:CZ	23:BB:173:LYS:HE2	2.48	0.43
1:A1:2929:A:OP2	23:BB:254:HIS:HD2	2.00	0.43
23:BB:294:THR:HG21	23:BB:354:LEU:O	2.18	0.43
23:BB:41:PRO:HA	23:BB:183:GLY:HA3	2.00	0.43
24:BC:311:ALA:CB	35:BN:40:ARG:HH21	2.31	0.43
26:BE:137:GLU:O	26:BE:139:LYS:HG3	2.17	0.43
26:BE:94:PHE:CE1	26:BE:98:PRO:HA	2.52	0.43
27:BF:150:VAL:HG21	27:BF:189:THR:HG23	2.00	0.43
27:BF:237:LYS:O	27:BF:241:LEU:HG	2.18	0.43
30:BI:81:ARG:CG	30:BI:81:ARG:HH11	2.31	0.43
31:BJ:98:TYR:N	31:BJ:98:TYR:CD1	2.85	0.43
37:BP:105:LEU:HD22	37:BP:109:TYR:CE1	2.53	0.43
38:BQ:21:ALA:HB2	38:BQ:96:LEU:HD21	1.99	0.43
39:BR:76:THR:O	39:BR:76:THR:CG2	2.65	0.43
40:BS:21:SER:CB	40:BS:26:ARG:HG2	2.47	0.43
44:BW:79:ASN:OD1	44:BW:81:GLU:HG2	2.18	0.43
20:C2:118:G:H2'	20:C2:119:A:H8	1.83	0.43
23:CB:45:ALA:H	23:CB:179:ILE:HG23	1.82	0.43
25:CD:19:ILE:CG2	25:CD:125:MET:CE	2.96	0.43
25:CD:134:PRO:HG2	25:CD:135:GLY:N	2.33	0.43
25:CD:17:LEU:HB3	25:CD:76:ALA:HB1	1.98	0.43
27:CF:92:TYR:CE2	27:CF:123:ILE:CG2	3.00	0.43
29:CH:147:TYR:CD1	29:CH:147:TYR:N	2.86	0.43
29:CH:50:VAL:HG12	29:CH:152:LEU:HD12	2.00	0.43
31:CJ:35:ALA:HB1	31:CJ:66:VAL:CG1	2.49	0.43
32:CK:99:VAL:CG2	32:CK:122:PRO:HB2	2.48	0.43
24:CC:287:ARG:CD	35:CN:111:ARG:NH1	2.80	0.43
47:CO:60:ARG:O	47:CO:61:SER:C	2.55	0.43
37:CP:29:ARG:H	37:CP:29:ARG:HG3	1.56	0.43
38:CQ:12:ASN:HB3	38:CQ:15:LYS:HB2	1.99	0.43
41:CT:15:ILE:HG21	41:CT:32:PHE:HE1	1.83	0.43
1:D1:1116:C:O5'	1:D1:1116:C:H6	2.01	0.43
27:CF:122:PRO:HD3	1:D1:118:A:C8	2.53	0.43
1:D1:1222:A:C2	1:D1:1336:U:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1322:G:H2'	1:D1:1323:C:C6	2.53	0.43
1:D1:1338:G:O2'	1:D1:2376:A:H4'	2.18	0.43
1:D1:1428:G:H2'	1:D1:1429:C:H6	1.83	0.43
1:D1:1461:A:H5''	1:D1:1462:U:C5'	2.44	0.43
1:D1:1507:A:C1'	11:DL:4:ARG:HH21	2.31	0.43
1:D1:115:G:H1	1:D1:159:G:H4'	1.83	0.43
1:D1:1602:U:O2'	1:D1:1603:U:H5'	2.18	0.43
1:D1:1604:C:H2'	1:D1:1605:G:O5'	2.18	0.43
1:D1:166:C:O2	1:D1:166:C:H2'	2.17	0.43
1:D1:1775:A:H4'	15:DP:34:LYS:HZ1	1.82	0.43
1:D1:1966:U:H2'	1:D1:1967:C:O5'	2.18	0.43
33:CL:74:PRO:HA	1:D1:2162:A:H1'	1.99	0.43
1:D1:2240:C:C2'	1:D1:2241:G:O5'	2.66	0.43
1:D1:2266:A:H2'	1:D1:2267:G:H5'	2.00	0.43
1:D1:2718:U:P	50:D1:4779:HOH:O	2.76	0.43
1:D1:3102:A:H2'	1:D1:3103:A:C8	2.53	0.43
1:D1:3233:A:HO2'	1:D1:3234:U:P	2.30	0.43
1:D1:3300:A:N6	50:D1:4841:HOH:O	2.44	0.43
24:CC:242:ASN:HD21	1:D1:718:A:C2'	2.31	0.43
1:D1:729:A:C1'	1:D1:810:G:N2	2.81	0.43
8:DH:40:GLN:HG2	8:DH:41:ASN:ND2	2.32	0.43
9:DJ:161:VAL:C	9:DJ:193:ILE:HD12	2.38	0.43
11:DL:59:VAL:HG12	11:DL:60:ARG:O	2.18	0.43
12:DM:98:THR:O	12:DM:105:TYR:HD1	2.00	0.43
35:CN:29:LEU:HD21	14:DO:7:GLU:HG3	2.00	0.43
14:DO:94:ILE:CD1	14:DO:111:LEU:HD12	2.46	0.43
19:DX:124:MET:CE	19:DX:128:HIS:HB2	2.48	0.43
20:E2:5:A:C2'	20:E2:6:A:H5'	2.47	0.43
23:EB:113:ASN:C	23:EB:174:ASN:ND2	2.71	0.43
23:EB:25:HIS:CD2	23:EB:270:TYR:OH	2.68	0.43
23:EB:68:ASN:O	23:EB:70:LYS:HG3	2.17	0.43
24:EC:380:PHE:HD2	24:EC:381:ASN:OD1	2.00	0.43
29:EH:80:ILE:HG23	29:EH:144:HIS:CE1	2.53	0.43
30:EI:79:PHE:CD2	30:EI:103:ILE:HD13	2.47	0.43
30:EI:59:LYS:O	30:EI:71:HIS:CE1	2.71	0.43
32:EK:128:LYS:C	32:EK:129:TYR:CD1	2.92	0.43
33:EL:98:LEU:O	33:EL:101:CYS:HB2	2.18	0.43
34:EM:212:TYR:CD2	34:EM:228:PHE:CE1	3.06	0.43
34:EM:54:ARG:HA	34:EM:54:ARG:HD3	1.62	0.43
34:EM:76:CYS:HB3	34:EM:105:LEU:CD1	2.48	0.43
37:EP:11:THR:CG2	37:EP:11:THR:O	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:ER:69:SER:O	39:ER:95:HIS:HB2	2.18	0.43
44:EW:22:ILE:HD13	44:EW:30:ARG:CG	2.31	0.43
1:F1:1006:C:C2'	1:F1:1007:G:OP1	2.65	0.43
1:F1:121:A:C6	1:F1:150:A:C6	3.06	0.43
1:F1:1464:U:C2	1:F1:1465:U:C5	3.06	0.43
1:F1:147:U:O2	1:F1:147:U:H2'	2.17	0.43
1:F1:1783:U:C2	1:F1:1794:G:C2	3.05	0.43
1:F1:20:G:C4	1:F1:21:A:C8	3.06	0.43
1:F1:2651:A:P	50:F1:4463:HOH:O	2.76	0.43
23:EB:19:ARG:N	1:F1:2978:G:OP1	2.42	0.43
1:F1:3081:C:O3'	1:F1:3082:C:H3'	2.18	0.43
1:F1:3102:A:H2'	1:F1:3103:A:C8	2.53	0.43
20:E2:19:G:H22	1:F1:403:G:H1'	1.83	0.43
1:F1:40:C:HO2'	1:F1:41:A:P	2.36	0.43
1:F1:644:A:H2'	1:F1:645:A:C4'	2.47	0.43
1:F1:705:A:C5	1:F1:706:U:C5	3.06	0.43
1:F1:726:G:H2'	1:F1:727:C:H6	1.77	0.43
2:FA:33:ARG:NE	2:FA:41:ASP:OD2	2.51	0.43
2:FA:59:GLY:O	2:FA:62:THR:HB	2.18	0.43
1:F1:1866:A:O4'	3:FB:45:ARG:NH1	2.51	0.43
8:FH:48:VAL:CG1	8:FH:87:ALA:HB2	2.48	0.43
14:FO:94:ILE:CD1	14:FO:111:LEU:HD12	2.48	0.43
18:FU:154:VAL:N	18:FU:155:PRO:HD3	2.33	0.43
19:FX:143:LEU:HD13	19:FX:148:ILE:HG22	2.00	0.43
19:FX:34:THR:O	19:FX:36:PRO:HD3	2.18	0.43
20:G2:130:C:C2'	20:G2:131:C:H5'	2.48	0.43
20:G2:67:C:C6	20:G2:67:C:H5''	2.53	0.43
23:GB:321:MET:HE2	23:GB:321:MET:HB3	1.90	0.43
23:GB:62:ARG:CZ	1:H1:3027:U:OP1	2.66	0.43
24:GC:7:ILE:HD13	24:GC:156:PRO:HD2	1.98	0.43
24:GC:197:GLY:HA2	1:H1:1446:C:OP1	2.18	0.43
24:GC:212:PRO:HB3	24:GC:255:PHE:CD2	2.53	0.43
24:GC:300:ASN:OD1	1:H1:1375:A:O2'	2.36	0.43
24:GC:369:HIS:O	24:GC:372:GLY:N	2.51	0.43
26:GE:84:GLU:HB3	26:GE:185:ALA:O	2.18	0.43
29:GH:17:TYR:HD2	29:GH:96:VAL:HB	1.83	0.43
29:GH:3:ARG:HH12	29:GH:63:GLU:HB2	1.83	0.43
30:GI:156:GLU:HA	30:GI:156:GLU:OE1	2.17	0.43
30:GI:73:ARG:HD3	30:GI:144:VAL:O	2.18	0.43
33:GL:93:LYS:HG3	1:H1:288:A:H2	1.79	0.43
36:GO:6:LEU:HD12	36:GO:9:ARG:NH2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:GP:29:ARG:H	37:GP:29:ARG:HG3	1.57	0.43
40:GS:3:THR:CG2	40:GS:3:THR:O	2.64	0.43
43:GV:41:TRP:HE1	43:GV:176:THR:CG2	2.31	0.43
45:GX:105:GLN:HG3	45:GX:106:VAL:N	2.33	0.43
1:H1:1055:A:H8	1:H1:1055:A:O5'	2.01	0.43
1:H1:111:C:H3'	1:H1:154:U:O4	2.18	0.43
1:H1:1150:U:H2'	1:H1:1151:U:O5'	2.18	0.43
1:H1:1382:A:C4'	1:H1:1383:G:O5'	2.64	0.43
45:GX:47:ARG:NH2	1:H1:1393:A:O3'	2.42	0.43
45:GX:30:LEU:HD11	1:H1:1459:A:C5	2.52	0.43
1:H1:146:U:HO2'	1:H1:147:U:P	2.41	0.43
1:H1:1481:U:O2'	1:H1:1482:A:P	2.74	0.43
1:H1:1518:G:O6	3:HB:2:GLY:CA	2.66	0.43
22:GA:18:LYS:NZ	1:H1:1562:G:OP1	2.46	0.43
1:H1:1738:A:C8	1:H1:1752:G:C2	3.06	0.43
1:H1:1870:C:H5'	1:H1:1873:C:N4	2.33	0.43
1:H1:2147:C:O2'	1:H1:2238:A:N1	2.40	0.43
1:H1:2303:C:C2'	1:H1:2304:A:OP1	2.66	0.43
1:H1:255:G:HO2'	1:H1:256:A:H8	1.64	0.43
1:H1:2641:U:C4	1:H1:2748:U:O2	2.71	0.43
1:H1:3086:U:H2'	1:H1:3087:G:H8	1.82	0.43
1:H1:315:U:H4'	1:H1:316:A:H5'	2.00	0.43
30:GL:67:ARG:NH2	1:H1:418:G:H21	2.06	0.43
1:H1:462:G:O5'	1:H1:462:G:H8	2.01	0.43
1:H1:453:A:H61	1:H1:524:G:H2'	1.77	0.43
1:H1:615:G:N2	8:HH:79:LYS:NZ	2.65	0.43
1:H1:632:G:N7	5:HE:32:GLN:NE2	2.65	0.43
1:H1:718:A:H2'	1:H1:719:C:H6	1.82	0.43
1:H1:76:U:H2'	1:H1:77:A:H5'	1.99	0.43
1:H1:77:A:H2'	1:H1:78:G:C8	2.53	0.43
6:HF:26:VAL:HB	6:HF:72:LEU:HD21	2.00	0.43
10:HK:93:LYS:HA	10:HK:105:PRO:HD3	1.99	0.43
13:HN:118:PHE:HE2	13:HN:138:PHE:HE2	1.66	0.43
18:HU:177:VAL:O	18:HU:180:ILE:HB	2.17	0.43
19:HX:179:THR:HG22	19:HX:181:TYR:N	2.33	0.43
6:HF:45:ARG:HH11	19:HX:84:ASN:HB3	1.81	0.43
1:A1:1035:A:H2	29:BH:196:ASN:HD21	1.65	0.43
1:A1:1507:A:C1'	11:AL:4:ARG:HH21	2.31	0.43
1:A1:1599:G:C5'	39:BR:43:LEU:HD11	2.48	0.43
1:A1:2255:U:H2'	1:A1:2256:G:C5'	2.49	0.43
1:A1:239:G:C6	1:A1:240:A:N6	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:255:G:HO2'	1:A1:256:A:H8	1.64	0.43
1:A1:2613:G:N2	1:A1:2615:A:H2	2.15	0.43
1:A1:2859:G:C8	50:A1:4336:HOH:O	2.52	0.43
1:A1:3144:G:OP1	1:A1:3144:G:H4'	2.18	0.43
1:A1:462:G:H2'	1:A1:463:U:H6	1.81	0.43
1:A1:497:G:H2'	1:A1:498:A:H5'	1.96	0.43
1:A1:962:G:H5'	32:BK:29:GLY:CA	2.41	0.43
1:A1:977:A:H4'	1:A1:993:G:N2	2.32	0.43
1:A1:1869:G:H4'	2:AA:8:PHE:HD2	1.82	0.43
4:AC:4:VAL:O	4:AC:91:PHE:HA	2.18	0.43
6:AF:7:VAL:CG2	6:AF:55:LEU:HD11	2.48	0.43
7:AG:15:ALA:O	7:AG:19:ARG:HG3	2.19	0.43
16:AQ:15:THR:HG23	18:AU:103:CYS:SG	2.58	0.43
18:AU:73:PHE:HD2	18:AU:94:LYS:O	2.01	0.43
19:AX:4:LYS:HE2	19:AX:12:ASP:OD1	2.18	0.43
3:AB:11:LYS:HZ1	20:B2:114:G:N2	2.15	0.43
19:AX:96:GLN:CD	21:B3:93:G:H4'	2.38	0.43
21:B3:95:U:H2'	21:B3:96:U:H6	1.81	0.43
22:BA:84:TYR:CE1	22:BA:87:GLN:HB2	2.52	0.43
23:BB:141:ALA:O	23:BB:144:LEU:HB2	2.18	0.43
23:BB:216:LEU:HD22	23:BB:274:THR:HA	2.00	0.43
24:BC:333:LEU:HD22	43:BV:178:VAL:HG21	2.00	0.43
25:BD:134:PRO:HG2	25:BD:135:GLY:N	2.32	0.43
31:BJ:7:ARG:HB2	31:BJ:130:TRP:HH2	1.83	0.43
32:BK:74:VAL:HG13	32:BK:113:LEU:HG	1.99	0.43
34:BM:283:THR:HG22	34:BM:284:ALA:N	2.33	0.43
36:BO:114:LYS:HB3	36:BO:146:LYS:HZ1	1.82	0.43
36:BO:89:MET:HG3	36:BO:90:PRO:HD2	1.99	0.43
38:BQ:77:GLU:HB2	38:BQ:78:PHE:CD2	2.54	0.43
39:BR:74:PRO:HB2	39:BR:149:LEU:HD11	1.99	0.43
40:BS:84:ILE:CG2	40:BS:84:ILE:O	2.65	0.43
46:BY:88:LYS:HG2	46:BY:89:LEU:N	2.33	0.43
46:BY:8:VAL:HG13	46:BY:11:THR:CB	2.47	0.43
20:C2:111:A:O2'	20:C2:112:G:OP1	2.23	0.43
20:C2:87:C:O4'	20:C2:87:C:O2	2.32	0.43
21:C3:11:A:H4'	21:C3:13:A:C8	2.53	0.43
22:CA:30:TYR:OH	22:CA:116:ASN:HB3	2.18	0.43
23:CB:117:ARG:HA	23:CB:117:ARG:HD2	1.58	0.43
23:CB:226:GLY:N	1:D1:1911:A:H4'	2.32	0.43
23:CB:228:ILE:O	23:CB:232:GLY:HA2	2.18	0.43
23:CB:218:VAL:HA	23:CB:271:HIS:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CB:216:LEU:HD22	23:CB:274:THR:HA	2.00	0.43
24:CC:245:GLN:O	24:CC:254:ARG:NH1	2.37	0.43
24:CC:287:ARG:HA	24:CC:288:PRO:HD2	1.88	0.43
24:CC:388:ILE:N	24:CC:388:ILE:HD13	2.33	0.43
26:CE:94:PHE:CE1	26:CE:98:PRO:HA	2.53	0.43
27:CF:151:ASP:O	1:D1:147:U:N3	2.52	0.43
29:CH:50:VAL:CG1	29:CH:152:LEU:HD12	2.48	0.43
34:CM:195:TYR:HD1	34:CM:197:PRO:HD3	1.82	0.43
38:CQ:10:PRO:HB3	38:CQ:153:GLN:NE2	2.34	0.43
40:CS:79:ILE:HD11	40:CS:100:ALA:HB2	1.99	0.43
41:CT:22:ARG:NE	41:CT:32:PHE:HD2	1.97	0.43
44:CW:91:LEU:HA	44:CW:91:LEU:HD23	1.62	0.43
45:CX:62:ASP:HA	1:D1:1366:C:C5'	2.48	0.43
1:D1:1074:A:OP1	1:D1:1075:C:C5'	2.65	0.43
1:D1:112:A:N1	1:D1:265:A:O2'	2.50	0.43
1:D1:1518:G:N7	3:DB:2:GLY:N	2.66	0.43
1:D1:1636:C:C2	1:D1:1637:A:C8	3.06	0.43
1:D1:199:A:C4	1:D1:201:A:C8	3.06	0.43
1:D1:2292:U:O2'	1:D1:2908:U:H4'	2.18	0.43
1:D1:2561:A:N3	1:D1:2563:U:C6	2.86	0.43
1:D1:2564:G:C6	1:D1:2565:A:C5	3.07	0.43
1:D1:283:A:OP2	1:D1:283:A:C4'	2.66	0.43
1:D1:556:A:C6	1:D1:557:U:C5	3.06	0.43
1:D1:615:G:H2'	1:D1:616:A:H8	1.84	0.43
1:D1:3178:U:H5''	6:DF:97:LYS:HZ1	1.81	0.43
12:DM:32:ILE:HG21	12:DM:61:ASP:O	2.17	0.43
15:DP:41:LYS:HD3	15:DP:52:THR:HG21	2.00	0.43
19:DX:124:MET:HA	19:DX:124:MET:CE	2.49	0.43
19:DX:44:PHE:CD1	19:DX:137:ILE:HD11	2.52	0.43
22:EA:184:GLY:O	22:EA:187:PHE:HB3	2.18	0.43
24:EC:195:ARG:HH11	24:EC:204:ARG:HB2	1.83	0.43
24:EC:33:ILE:O	24:EC:33:ILE:CG2	2.66	0.43
24:EC:89:THR:HG21	24:EC:91:ARG:HB3	1.98	0.43
25:ED:162:TRP:CH2	25:ED:167:PHE:CE2	3.06	0.43
29:EH:16:PRO:HG3	29:EH:128:ARG:HH11	1.79	0.43
30:EI:160:ARG:O	30:EI:163:ALA:HB3	2.18	0.43
31:EJ:35:ALA:HB1	31:EJ:66:VAL:CG1	2.48	0.43
34:EM:200:HIS:O	34:EM:204:ILE:HG13	2.17	0.43
34:EM:17:GLN:HE22	37:EP:22:LYS:N	2.15	0.43
38:EQ:10:PRO:HB3	38:EQ:153:GLN:NE2	2.33	0.43
38:EQ:44:GLU:HA	38:EQ:44:GLU:OE1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:ES:84:ILE:O	40:ES:84:ILE:CG2	2.66	0.43
42:EU:81:PRO:HG2	42:EU:84:ILE:HD12	2.00	0.43
44:EW:66:ILE:HG23	44:EW:67:PRO:HD2	2.00	0.43
1:F1:101:G:C8	50:F1:3683:HOH:O	2.67	0.43
1:F1:135:A:C5'	1:F1:136:C:OP2	2.66	0.43
44:EW:63:ILE:HG13	1:F1:1482:A:C6	2.53	0.43
1:F1:1840:U:C6	1:F1:1840:U:OP2	2.69	0.43
1:F1:1937:G:O2'	1:F1:2116:A:O2'	2.18	0.43
1:F1:2125:C:O2'	1:F1:2140:A:O4'	2.35	0.43
1:F1:2287:U:C4	1:F1:2288:C:N4	2.86	0.43
1:F1:2322:U:O2'	1:F1:2323:U:H5'	2.18	0.43
1:F1:2339:U:H5'	1:F1:3045:A:O2'	2.18	0.43
1:F1:2558:U:H2'	1:F1:2559:U:C6	2.53	0.43
1:F1:2624:A:O4'	1:F1:2625:A:C2	2.71	0.43
1:F1:2888:A:O2'	1:F1:2889:G:H5'	2.18	0.43
1:F1:2914:A:H2'	1:F1:2915:C:C6	2.53	0.43
1:F1:3234:U:O4	1:F1:3236:C:C5	2.71	0.43
1:F1:3283:C:H2'	1:F1:3284:G:C8	2.53	0.43
23:EB:378:PHE:CA	1:F1:3325:G:N2	2.79	0.43
1:F1:549:G:H2'	1:F1:550:G:H8	1.83	0.43
1:F1:68:A:H1'	1:F1:70:C:N4	2.33	0.43
32:EK:120:ASN:ND2	1:F1:743:A:C2	2.86	0.43
46:EY:4:ARG:NH2	1:F1:864:C:N4	2.64	0.43
2:FA:69:LYS:H	2:FA:69:LYS:HG2	1.67	0.43
5:FE:68:GLN:O	5:FE:68:GLN:HG3	2.17	0.43
9:FJ:211:THR:O	9:FJ:215:ILE:HG13	2.18	0.43
9:FJ:46:ILE:HG23	9:FJ:47:PRO:HD2	1.99	0.43
1:F1:2883:G:O2'	10:FK:100:TYR:O	2.30	0.43
13:FN:23:ALA:CB	13:FN:43:VAL:CG1	2.95	0.43
18:FU:166:VAL:CA	18:FU:169:ILE:HD12	2.19	0.43
19:FX:137:ILE:O	19:FX:137:ILE:HG13	2.18	0.43
22:GA:151:LEU:O	22:GA:154:GLY:N	2.50	0.43
23:GB:141:ALA:O	23:GB:144:LEU:HB2	2.17	0.43
30:GI:24:LYS:O	30:GI:28:SER:OG	2.36	0.43
31:GJ:44:PHE:CZ	31:GJ:63:LEU:HD13	2.53	0.43
32:GK:43:HIS:CE1	18:HU:1:MET:HB3	2.53	0.43
33:GL:106:VAL:HG21	33:GL:132:VAL:CG2	2.48	0.43
40:GS:55:VAL:CG1	40:GS:103:LEU:HB3	2.48	0.43
40:GS:84:ILE:CG2	40:GS:84:ILE:O	2.66	0.43
41:GT:44:ARG:HB3	41:GT:46:VAL:HG23	2.00	0.43
39:GR:147:ILE:HG22	42:GU:34:ILE:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GX:27:PHE:CD2	45:GX:29:LYS:HE2	2.53	0.43
45:GX:69:LEU:HG	45:GX:73:PHE:O	2.18	0.43
1:H1:1108:A:H2'	1:H1:1108:A:N3	2.33	0.43
1:H1:115:G:H1	1:H1:159:G:H4'	1.82	0.43
1:H1:1513:A:O2'	11:HL:6:THR:CG2	2.65	0.43
1:H1:1616:G:H4'	1:H1:1680:A:OP1	2.18	0.43
1:H1:1758:U:H5'	1:H1:1759:C:OP2	2.18	0.43
1:H1:2393:A:C2	1:H1:2394:A:C4	3.06	0.43
1:H1:2432:G:H2'	1:H1:2433:A:O4'	2.18	0.43
1:H1:2539:A:C2	1:H1:2540:G:C8	3.05	0.43
1:H1:2659:G:H2'	1:H1:2660:A:H8	1.81	0.43
1:H1:2766:A:C2	1:H1:2767:A:C8	3.06	0.43
1:H1:2949:G:H2'	1:H1:2950:U:C6	2.52	0.43
1:H1:298:G:C5	16:HQ:31:LYS:HG3	2.53	0.43
1:H1:3190:A:N6	1:H1:3191:G:H22	2.16	0.43
1:H1:43:A:C5	1:H1:44:U:C5	3.06	0.43
1:H1:577:C:C2'	1:H1:578:G:H5'	2.48	0.43
1:H1:644:A:H2'	1:H1:645:A:C4'	2.47	0.43
1:H1:707:A:H2'	1:H1:708:G:O4'	2.18	0.43
1:H1:806:G:H2'	1:H1:807:G:H5'	2.00	0.43
1:H1:983:U:H5''	1:H1:984:C:OP2	2.18	0.43
5:HE:122:ALA:CB	5:HE:132:ALA:HB1	2.48	0.43
5:HE:54:LEU:O	5:HE:59:ARG:CB	2.55	0.43
6:HF:13:VAL:HG21	6:HF:27:ILE:CD1	2.44	0.43
6:HF:17:TYR:O	6:HF:17:TYR:HD1	1.99	0.43
8:HH:39:LEU:HD22	8:HH:106:VAL:HG21	2.00	0.43
8:HH:57:VAL:HG12	8:HH:58:TYR:N	2.33	0.43
13:HN:84:ARG:HD3	13:HN:85:TYR:N	2.33	0.43
15:HP:39:ILE:HG23	15:HP:55:THR:O	2.18	0.43
19:HX:167:LYS:HG2	19:HX:188:THR:CG2	2.46	0.43
24:GC:376:TRP:HZ2	19:HX:76:ASN:HD22	1.66	0.43
19:HX:7:GLN:NE2	19:HX:80:GLU:H	2.16	0.43
1:A1:1085:G:H5'	1:A1:1085:G:H8	1.84	0.43
1:A1:1165:U:H2'	1:A1:1166:G:O4'	2.18	0.43
1:A1:12:A:H2'	1:A1:13:C:C6	2.53	0.43
1:A1:1504:C:P	50:A1:4122:HOH:O	2.76	0.43
1:A1:1589:G:C8	1:A1:1605:G:N2	2.86	0.43
1:A1:166:C:H2'	1:A1:166:C:O2	2.19	0.43
1:A1:2316:A:O2'	46:BY:16:THR:HG21	2.18	0.43
1:A1:2423:U:H2'	1:A1:2424:A:C8	2.53	0.43
1:A1:2567:U:H2'	1:A1:2568:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2634:G:H2'	1:A1:2635:C:H5'	2.00	0.43
1:A1:1143:G:N2	1:A1:2805:A:O4'	2.50	0.43
1:A1:296:G:O2'	16:AQ:32:GLY:CA	2.67	0.43
1:A1:3128:G:H2'	1:A1:3129:G:O4'	2.18	0.43
1:A1:48:U:C2'	1:A1:48:U:O2	2.64	0.43
1:A1:526:U:O2'	1:A1:527:A:O5'	2.35	0.43
1:A1:533:G:H2'	1:A1:534:U:C6	2.53	0.43
1:A1:682:G:OP2	50:A1:3847:HOH:O	2.21	0.43
1:A1:701:A:OP2	35:BN:88:THR:HB	2.19	0.43
1:A1:726:G:O2'	1:A1:727:C:H5'	2.18	0.43
1:A1:95:U:H2'	1:A1:95:U:O2	2.16	0.43
3:AB:12:ARG:O	3:AB:15:ARG:HB3	2.17	0.43
5:AE:68:GLN:HG3	5:AE:68:GLN:O	2.19	0.43
1:A1:3226:A:N1	5:AE:83:ASN:O	2.51	0.43
12:AM:97:VAL:HG22	12:AM:107:LEU:CD2	2.48	0.43
13:AN:100:ASP:OD2	1:H1:1053:A:O2'	2.26	0.43
13:AN:5:LEU:HD23	13:AN:5:LEU:HA	1.80	0.43
1:A1:1380:C:N4	14:AO:32:THR:HG21	2.33	0.43
14:AO:56:GLN:HB2	14:AO:56:GLN:HE21	1.49	0.43
18:AU:77:GLU:HG3	18:AU:101:ASN:HD21	1.83	0.43
21:B3:90:A:C5	21:B3:91:C:H1'	2.53	0.43
1:A1:209:A:H2'	24:BC:169:THR:OG1	2.18	0.43
24:BC:166:TYR:OH	24:BC:175:PHE:HD2	2.00	0.43
24:BC:230:ILE:CG2	24:BC:233:VAL:HG13	2.47	0.43
24:BC:258:TRP:HZ3	24:BC:266:LEU:HD21	1.82	0.43
24:BC:126:ARG:CB	24:BC:283:TYR:CE2	2.98	0.43
24:BC:69:ALA:HB1	24:BC:96:ALA:CB	2.47	0.43
25:BD:19:ILE:CG2	25:BD:125:MET:CE	2.96	0.43
29:BH:101:LYS:HB3	29:BH:121:LYS:HZ3	1.73	0.43
29:BH:140:VAL:HG12	29:BH:141:LYS:H	1.81	0.43
32:BK:48:GLU:OE1	32:BK:48:GLU:CA	2.52	0.43
32:BK:39:GLY:HA3	32:BK:55:TYR:OH	2.17	0.43
34:BM:121:GLY:HA2	34:BM:130:PHE:CE1	2.54	0.43
34:BM:166:ALA:HB1	34:BM:171:ILE:CD1	2.48	0.43
34:BM:18:THR:O	34:BM:18:THR:CG2	2.65	0.43
34:BM:40:ASP:C	34:BM:42:ASP:N	2.69	0.43
34:BM:46:THR:HA	34:BM:47:PRO:HD3	1.79	0.43
34:BM:9:THR:OG1	34:BM:11:ALA:HB3	2.18	0.43
36:BO:96:MET:O	36:BO:100:ARG:HG3	2.18	0.43
36:BO:112:ALA:O	36:BO:113:LYS:HB2	2.19	0.43
40:BS:30:MET:HE3	40:BS:77:TRP:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:218:G:N1	40:BS:61:LYS:HE2	2.33	0.43
43:BV:86:ILE:HG12	43:BV:131:ILE:CA	2.42	0.43
46:BY:73:THR:HG22	46:BY:75:PRO:CD	2.42	0.43
20:C2:77:U:C4	40:CS:73:TYR:CE2	3.06	0.43
21:C3:21:G:H4'	34:CM:277:PHE:CE2	2.51	0.43
22:CA:212:HIS:O	22:CA:214:GLY:N	2.52	0.43
23:CB:309:PHE:HA	23:CB:310:PRO:HD3	1.80	0.43
24:CC:182:TYR:CE2	24:CC:186:LEU:HG	2.53	0.43
26:CE:110:ILE:HD12	26:CE:159:ILE:CD1	2.48	0.43
30:CI:107:ILE:HD12	30:CI:159:ARG:NH2	2.32	0.43
30:CI:60:TRP:C	30:CI:60:TRP:CD1	2.91	0.43
32:CK:27:LYS:NZ	1:D1:826:A:P	2.92	0.43
34:CM:135:ASP:OD1	34:CM:135:ASP:O	2.35	0.43
34:CM:88:VAL:CG1	34:CM:246:LEU:HD21	2.48	0.43
24:CC:298:ILE:HD12	35:CN:125:ASP:HB2	1.95	0.43
35:CN:45:PHE:CE1	35:CN:139:LEU:HB2	2.46	0.43
35:CN:155:ALA:HA	35:CN:156:PRO:HD3	1.51	0.43
35:CN:63:LEU:HD21	35:CN:140:LEU:HB3	2.00	0.43
35:CN:64:SER:O	35:CN:68:ILE:HG13	2.18	0.43
35:CN:89:ASN:OD1	35:CN:90:ASP:C	2.57	0.43
47:CO:96:MET:O	47:CO:100:ARG:HG3	2.17	0.43
47:CO:114:LYS:HB3	47:CO:146:LYS:HZ3	1.81	0.43
38:CQ:61:PRO:HG2	38:CQ:78:PHE:CD1	2.53	0.43
39:CR:75:LEU:HD23	39:CR:75:LEU:HA	1.60	0.43
43:CV:184:GLU:O	43:CV:188:VAL:N	2.49	0.43
43:CV:205:ASP:HB3	43:CV:238:MET:O	2.18	0.43
43:CV:80:VAL:HG22	43:CV:188:VAL:HG21	1.99	0.43
45:CX:22:PHE:CD2	45:CX:23:GLU:HG3	2.53	0.43
1:D1:1381:G:H4'	1:D1:1382:A:OP2	2.15	0.43
1:D1:1423:A:H2'	1:D1:1424:U:O5'	2.18	0.43
1:D1:20:G:C5	1:D1:21:A:C8	3.06	0.43
1:D1:170:A:N6	1:D1:249:G:H1'	2.28	0.43
1:D1:263:A:HO2'	1:D1:264:A:H8	1.63	0.43
1:D1:3086:U:H2'	1:D1:3087:G:H8	1.82	0.43
1:D1:379:U:C2	1:D1:389:G:N2	2.86	0.43
1:D1:665:C:H2'	1:D1:666:U:O4'	2.19	0.43
2:DA:21:ARG:HB2	2:DA:39:TYR:HD1	1.82	0.43
2:DA:21:ARG:HH11	2:DA:44:MET:HE1	1.80	0.43
5:DE:103:ASP:OD1	5:DE:104:LEU:N	2.51	0.43
5:DE:178:PHE:O	8:DH:12:THR:HG21	2.18	0.43
5:DE:68:GLN:CG	5:DE:68:GLN:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DE:173:TYR:OH	6:DF:105:ASP:HB3	2.17	0.43
12:DM:42:LYS:HA	12:DM:42:LYS:HD3	1.82	0.43
14:DO:40:LEU:O	14:DO:44:HIS:ND1	2.52	0.43
15:DP:39:ILE:HG23	15:DP:55:THR:O	2.18	0.43
20:E2:44:A:OP1	2:FA:68:MET:HG2	2.18	0.43
21:E3:22:A:C6	34:EM:274:HIS:CG	3.07	0.43
22:EA:69:ARG:NH1	1:F1:2517:G:N2	2.66	0.43
23:EB:56:ILE:CG2	23:EB:57:LEU:N	2.82	0.43
24:EC:302:ASN:O	24:EC:306:SER:OG	2.37	0.43
25:ED:124:GLY:HA3	1:F1:2663:A:N1	2.32	0.43
21:E3:55:A:H4'	25:ED:152:GLN:HG2	1.99	0.43
26:EE:94:PHE:CE1	26:EE:98:PRO:HA	2.53	0.43
30:EI:184:PRO:HA	30:EI:187:LYS:CE	2.49	0.43
30:EI:92:PRO:O	30:EI:95:ALA:HB3	2.19	0.43
32:EK:61:ARG:CA	35:EN:172:ARG:HH12	2.22	0.43
35:EN:41:THR:HG22	35:EN:43:SER:H	1.82	0.43
40:ES:105:LEU:HD13	40:ES:108:LEU:CD2	2.49	0.43
40:ES:80:HIS:ND1	40:ES:95:GLN:CB	2.79	0.43
43:EV:104:ARG:HD2	1:F1:1128:G:C5'	2.44	0.43
46:EY:17:ARG:HB2	46:EY:18:TYR:CE2	2.53	0.43
1:F1:1104:C:N1	17:FT:42:ASN:ND2	2.65	0.43
1:F1:1601:U:O2'	1:F1:1602:U:H5'	2.18	0.43
1:F1:1932:A:H2'	1:F1:1933:A:O4'	2.18	0.43
1:F1:2378:A:H2'	1:F1:2379:A:C8	2.53	0.43
1:F1:3013:A:C8	1:F1:3014:C:C5	3.06	0.43
1:F1:3061:A:C2'	1:F1:3062:A:H5'	2.49	0.43
1:F1:3079:U:C2'	1:F1:3080:A:O5'	2.66	0.43
1:F1:3102:A:C2	1:F1:3111:A:C8	3.07	0.43
1:F1:3229:C:O2	1:F1:3229:C:C2'	2.66	0.43
1:F1:340:G:H5''	1:F1:343:A:H1'	1.99	0.43
1:F1:389:G:C6	1:F1:390:G:C4	3.06	0.43
1:F1:471:A:C2'	1:F1:472:C:O5'	2.65	0.43
1:F1:486:C:H2'	1:F1:487:G:H5'	2.00	0.43
1:F1:577:C:C2'	1:F1:578:G:H5'	2.49	0.43
1:F1:632:G:C6	1:F1:633:C:C4	3.07	0.43
1:F1:827:C:H2'	1:F1:828:C:H6	1.82	0.43
1:F1:81:C:H2'	1:F1:82:C:O4'	2.18	0.43
6:FF:7:VAL:CG2	6:FF:55:LEU:HD11	2.48	0.43
1:F1:591:G:H4'	6:FF:64:GLU:OE1	2.19	0.43
8:FH:15:TRP:CZ2	8:FH:105:ARG:NE	2.87	0.43
8:FH:57:VAL:HG22	8:FH:74:TRP:CE3	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:FL:29:ARG:NH1	50:FL:303:HOH:O	2.51	0.43
32:EK:145:CYS:HB3	18:FU:177:VAL:HG21	1.99	0.43
21:G3:11:A:C2'	21:G3:12:U:H5''	2.48	0.43
21:G3:11:A:H2'	21:G3:12:U:H5''	2.00	0.43
21:G3:49:A:O2'	34:GM:230:LYS:NZ	2.31	0.43
22:GA:214:GLY:CA	1:H1:2955:A:OP1	2.66	0.43
22:GA:239:ARG:NH2	1:H1:2151:G:N3	2.67	0.43
23:GB:294:THR:HG22	23:GB:295:ALA:H	1.83	0.43
23:GB:43:LEU:HD23	23:GB:43:LEU:HA	1.82	0.43
24:GC:202:ARG:O	24:GC:203:ASN:HB2	2.17	0.43
24:GC:388:ILE:N	24:GC:388:ILE:HD13	2.33	0.43
29:GH:46:PHE:HA	29:GH:47:PRO:HD2	1.82	0.43
30:GI:127:ARG:HA	30:GI:127:ARG:HD3	1.79	0.43
32:GK:147:LEU:HD21	18:HU:177:VAL:HG13	1.99	0.43
34:GM:283:THR:HG22	34:GM:285:ALA:N	2.27	0.43
34:GM:283:THR:HG22	34:GM:284:ALA:N	2.32	0.43
35:GN:174:PHE:C	35:GN:176:ARG:N	2.68	0.43
43:GV:216:HIS:C	43:GV:222:GLY:HA3	2.38	0.43
45:GX:27:PHE:HB2	45:GX:30:LEU:HB2	1.99	0.43
1:H1:1025:G:N2	1:H1:1076:U:O2	2.51	0.43
1:H1:1123:A:OP2	1:H1:1124:G:C8	2.72	0.43
1:H1:122:U:O2'	1:H1:123:C:H5'	2.18	0.43
24:GC:95:ALA:HB3	1:H1:1464:U:H4'	2.00	0.43
1:H1:1652:U:H6	1:H1:1652:U:H3'	1.83	0.43
1:H1:1701:A:OP1	12:HM:75:LYS:HD3	2.18	0.43
1:H1:2353:C:O2	1:H1:2353:C:C2'	2.61	0.43
1:H1:2576:C:C6	1:H1:2576:C:C4'	3.01	0.43
1:H1:2613:G:N2	1:H1:2615:A:H2	2.12	0.43
1:H1:2735:A:H2'	1:H1:2736:A:O4'	2.18	0.43
33:GL:188:ARG:NH2	1:H1:279:U:C4'	2.81	0.43
1:H1:3094:U:H2'	1:H1:3095:A:H8	1.82	0.43
1:H1:3227:A:C2	5:HE:80:TYR:CE2	3.06	0.43
1:H1:3232:A:N6	1:H1:3233:A:C2	2.86	0.43
1:H1:3303:G:H2'	1:H1:3304:U:C6	2.54	0.43
1:H1:469:U:O2	1:H1:469:U:H2'	2.18	0.43
1:H1:471:A:C2'	1:H1:472:C:O5'	2.66	0.43
1:H1:556:A:C6	1:H1:557:U:C5	3.05	0.43
1:H1:61:A:OP2	50:H1:3631:HOH:O	2.21	0.43
1:H1:415:A:C4'	1:H1:653:C:H4'	2.48	0.43
1:H1:709:G:H5''	18:HU:37:ARG:CZ	2.48	0.43
1:H1:825:G:N2	1:H1:826:A:C2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:845:A:H2'	1:H1:846:C:C6	2.53	0.43
1:H1:872:A:H8	1:H1:872:A:O5'	2.00	0.43
1:H1:363:G:OP2	2:HA:53:LYS:HE3	2.18	0.43
5:HE:60:GLY:O	5:HE:177:LYS:HA	2.18	0.43
5:HE:52:ILE:O	5:HE:95:THR:HG22	2.18	0.43
6:HF:26:VAL:CG1	6:HF:27:ILE:N	2.80	0.43
1:H1:3155:A:C5	8:HH:102:SER:HB3	2.54	0.43
13:HN:105:ASN:CG	13:HN:105:ASN:O	2.56	0.43
18:HU:77:GLU:HG3	18:HU:101:ASN:HD21	1.83	0.43
18:HU:177:VAL:HG12	18:HU:181:ILE:HD11	1.99	0.43
19:HX:28:LEU:O	19:HX:29:PRO:C	2.56	0.43
1:A1:1213:G:N3	19:AX:126:GLY:CA	2.77	0.43
1:A1:121:A:C6	1:A1:150:A:C6	3.06	0.43
1:A1:1815:G:H2'	1:A1:1816:A:H8	1.84	0.43
1:A1:2279:C:O2	1:A1:2279:C:H2'	2.16	0.43
1:A1:242:G:H5'	42:BU:98:LYS:HZ2	1.83	0.43
1:A1:2661:G:N2	1:A1:2671:C:O2	2.49	0.43
1:A1:2837:C:P	50:A1:4298:HOH:O	2.76	0.43
1:A1:3073:U:C2'	1:A1:3074:G:H5'	2.49	0.43
1:A1:646:A:H2'	1:A1:647:U:C6	2.54	0.43
1:A1:779:A:O2'	1:A1:780:C:H5'	2.19	0.43
1:A1:935:G:H3'	1:A1:936:C:H6	1.83	0.43
8:AH:54:LYS:HD3	8:AH:110:PRO:CG	2.46	0.43
10:AK:84:ALA:O	10:AK:88:LYS:HG3	2.17	0.43
12:AM:23:GLN:N	12:AM:24:PRO:HD2	2.34	0.43
13:AN:118:PHE:CE2	13:AN:138:PHE:HE2	2.36	0.43
13:AN:69:LYS:HA	13:AN:70:PRO:HD2	1.88	0.43
18:AU:123:LEU:HD22	18:AU:135:LEU:O	2.17	0.43
20:B2:139:U:H1'	33:BL:136:ASP:OD2	2.18	0.43
23:BB:22:THR:HG22	23:BB:23:ARG:N	2.33	0.43
24:BC:380:PHE:O	24:BC:383:ALA:HB3	2.18	0.43
1:A1:1309:G:H5'	28:BG:59:UNK:CG	2.48	0.43
29:BH:68:ALA:HB1	29:BH:155:ALA:HB1	1.99	0.43
29:BH:189:LYS:HE2	29:BH:199:VAL:HG12	2.00	0.43
31:BJ:44:PHE:CZ	31:BJ:63:LEU:HD13	2.53	0.43
34:BM:111:LYS:HA	34:BM:116:ASP:OD2	2.18	0.43
34:BM:19:LYS:O	34:BM:24:ARG:NH1	2.52	0.43
21:B3:33:U:N3	34:BM:212:TYR:CE1	2.86	0.43
34:BM:54:ARG:HD3	34:BM:54:ARG:HA	1.65	0.43
24:BC:298:ILE:HD12	35:BN:125:ASP:HB2	1.98	0.43
37:BP:105:LEU:HD23	37:BP:105:LEU:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:10:PRO:CB	38:BQ:153:GLN:NE2	2.81	0.43
38:BQ:45:ASN:O	38:BQ:46:ALA:C	2.57	0.43
43:BV:184:GLU:O	43:BV:188:VAL:N	2.52	0.43
21:C3:108:G:H2'	21:C3:109:U:O4'	2.18	0.43
22:CA:206:ASN:O	22:CA:208:VAL:N	2.51	0.43
24:CC:179:VAL:O	24:CC:179:VAL:HG12	2.19	0.43
30:CI:75:PRO:CB	30:CI:137:LEU:HD23	2.49	0.43
32:CK:118:LEU:HB2	32:CK:141:VAL:CG2	2.47	0.43
33:CL:13:LYS:NZ	16:DQ:46:ARG:CA	2.81	0.43
47:CO:174:UNK:CG	47:CO:174:UNK:O	2.62	0.43
47:CO:57:ILE:H	47:CO:57:ILE:HD12	1.84	0.43
44:CW:95:LEU:HA	44:CW:95:LEU:HD23	1.72	0.43
22:CA:175:ARG:HA	46:CY:69:TRP:CE2	2.54	0.43
37:CP:19:TYR:CD2	1:D1:1077:U:H5''	2.52	0.43
1:D1:131:G:C6	1:D1:133:C:H1'	2.52	0.43
1:D1:1355:C:N4	1:D1:1356:G:C6	2.86	0.43
24:CC:311:ALA:CB	1:D1:1374:C:H5'	2.48	0.43
1:D1:1464:U:C2	1:D1:1465:U:C5	3.07	0.43
1:D1:1511:G:N3	11:DL:4:ARG:NH1	2.66	0.43
1:D1:219:A:H2	1:D1:1416:U:C2'	2.22	0.43
1:D1:2432:G:C6	1:D1:2506:G:C5	3.05	0.43
1:D1:2945:G:C2'	1:D1:2946:A:H5'	2.48	0.43
1:D1:3151:G:H2'	1:D1:3152:A:C8	2.54	0.43
1:D1:3309:U:C2'	1:D1:3310:U:O5'	2.67	0.43
1:D1:3345:A:C8	1:D1:3345:A:OP2	2.71	0.43
1:D1:439:A:H5''	5:DE:126:HIS:HB3	2.00	0.43
1:D1:474:G:H2'	1:D1:475:C:C6	2.53	0.43
1:D1:564:A:N3	1:D1:564:A:C2'	2.75	0.43
1:D1:581:C:H2'	1:D1:582:A:C4'	2.48	0.43
1:D1:606:U:O2'	1:D1:607:U:H5'	2.17	0.43
1:D1:665:C:H42	1:D1:669:A:H8	1.65	0.43
1:D1:680:A:N6	1:D1:681:A:N6	2.66	0.43
1:D1:70:C:C5	1:D1:72:A:C4	3.07	0.43
1:D1:874:C:C4	1:D1:875:U:C5	3.05	0.43
45:CX:35:ARG:NH1	1:D1:969:C:O5'	2.50	0.43
6:DF:14:TYR:CZ	6:DF:22:GLY:HA2	2.53	0.43
6:DF:23:LYS:HB2	6:DF:43:ILE:HD11	2.00	0.43
8:DH:38:LYS:HE2	8:DH:42:VAL:O	2.18	0.43
8:DH:48:VAL:HG22	8:DH:85:GLY:HA2	1.99	0.43
9:DJ:46:ILE:HG23	9:DJ:47:PRO:HD2	1.99	0.43
14:DO:26:THR:HG22	14:DO:26:THR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DU:124:PHE:HA	18:DU:125:PRO:HD2	1.76	0.43
19:DX:188:THR:C	19:DX:189:PHE:CG	2.90	0.43
19:DX:61:LYS:HA	19:DX:61:LYS:HD3	1.76	0.43
22:EA:210:HIS:HD2	22:EA:212:HIS:N	1.83	0.43
23:EB:321:MET:HE2	23:EB:321:MET:HB3	1.82	0.43
23:EB:56:ILE:CG2	23:EB:354:LEU:HD22	2.48	0.43
23:EB:54:THR:CG2	23:EB:358:ASP:HB3	2.48	0.43
27:EF:233:LYS:HB2	1:F1:2575:G:C6	2.50	0.43
27:EF:50:TYR:CD1	27:EF:51:ILE:HG23	2.53	0.43
29:EH:140:VAL:CG1	29:EH:141:LYS:N	2.81	0.43
29:EH:77:ILE:CG1	29:EH:78:LYS:N	2.81	0.43
30:EI:63:HIS:CD2	30:EI:64:ASN:HB2	2.54	0.43
31:EJ:46:ILE:CD1	31:EJ:54:PRO:CB	2.93	0.43
32:EK:123:VAL:HG12	32:EK:124:VAL:N	2.34	0.43
33:EL:145:ASP:HA	33:EL:146:PRO:HD3	1.84	0.43
34:EM:228:PHE:O	34:EM:229:SER:C	2.57	0.43
36:EO:105:LEU:HD13	36:EO:135:LYS:HE3	2.01	0.43
37:EP:3:HIS:CE1	1:F1:2621:G:O6	2.72	0.43
38:EQ:59:CYS:HB3	38:EQ:74:GLN:CB	2.47	0.43
41:ET:15:ILE:HD11	41:ET:34:LEU:HB2	2.00	0.43
41:ET:8:CYS:O	41:ET:12:GLU:HA	2.17	0.43
44:EW:105:THR:HG21	1:F1:3341:C:HI'	1.99	0.43
45:EX:34:TRP:HZ2	45:EX:54:MET:HB2	1.82	0.43
1:F1:1004:U:C4'	1:F1:1005:A:OP2	2.66	0.43
1:F1:1115:U:H6	1:F1:1115:U:H5'	1.82	0.43
1:F1:1435:C:O2'	1:F1:1436:C:H5'	2.18	0.43
1:F1:1592:G:H2'	1:F1:1593:A:O4'	2.18	0.43
1:F1:1598:C:H2'	1:F1:1599:G:C5'	2.48	0.43
1:F1:1115:G:H1	1:F1:159:G:H4'	1.83	0.43
1:F1:213:A:H2'	1:F1:214:G:O4'	2.18	0.43
22:EA:24:ARG:HD2	1:F1:2170:A:O2'	2.19	0.43
1:F1:2263:U:H5''	1:F1:2264:U:OP1	2.18	0.43
1:F1:2391:G:H5'	1:F1:2392:A:O5'	2.18	0.43
1:F1:2543:C:H5''	1:F1:2544:U:C5	2.54	0.43
1:F1:2744:C:O2	1:F1:2744:C:H2'	2.17	0.43
1:F1:2769:U:H2'	1:F1:2770:U:O4'	2.18	0.43
1:F1:2847:U:H4'	1:F1:2848:U:O5'	2.18	0.43
1:F1:2886:G:C8	1:F1:2886:G:C3'	3.02	0.43
23:EB:220:LYS:HD2	1:F1:3036:U:H5'	1.99	0.43
1:F1:3092:A:H2'	1:F1:3093:U:O5'	2.17	0.43
1:F1:3101:G:O6	1:F1:3109:C:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:198:GLN:NE2	1:F1:340:G:C8	2.86	0.43
1:F1:357:G:N2	1:F1:360:A:OP2	2.50	0.43
1:F1:440:C:C4	1:F1:538:A:H2	2.37	0.43
1:F1:653:C:C2	1:F1:654:U:C5	3.06	0.43
1:F1:738:U:O2'	1:F1:778:G:OP1	2.33	0.43
1:F1:911:C:C2'	1:F1:912:G:H5'	2.48	0.43
1:F1:95:U:H2'	1:F1:95:U:O2	2.17	0.43
2:FA:4:GLY:C	2:FA:6:PRO:HD2	2.39	0.43
9:FJ:35:TYR:CZ	9:FJ:50:HIS:CE1	3.07	0.43
9:FJ:42:LEU:HD21	9:FJ:205:PHE:CE1	2.53	0.43
1:F1:1658:G:P	13:FN:107:LYS:NZ	2.91	0.43
13:FN:83:THR:CG2	13:FN:85:TYR:HD2	2.31	0.43
14:FO:27:ASP:OD2	14:FO:42:PHE:HD1	2.01	0.43
14:FO:36:THR:O	14:FO:37:GLN:C	2.56	0.43
1:F1:461:A:H4'	14:FO:73:THR:CG2	2.48	0.43
19:FX:44:PHE:CD1	19:FX:137:ILE:HD11	2.53	0.43
23:GB:228:ILE:O	23:GB:232:GLY:HA2	2.18	0.43
23:GB:375:ASP:OD2	23:GB:382:ARG:HG3	2.18	0.43
24:GC:127:HIS:CE1	24:GC:286:GLN:OE1	2.72	0.43
24:GC:200:LYS:HB2	24:GC:201:LEU:HD23	2.00	0.43
24:GC:212:PRO:HB3	24:GC:255:PHE:HD2	1.83	0.43
25:GD:30:LEU:HD23	25:GD:30:LEU:HA	1.71	0.43
26:GE:58:TRP:O	26:GE:59:GLN:C	2.57	0.43
30:GI:107:ILE:CG1	30:GI:159:ARG:NH1	2.80	0.43
31:GJ:63:LEU:HD12	31:GJ:63:LEU:HA	1.79	0.43
32:GK:48:GLU:CA	32:GK:48:GLU:OE1	2.53	0.43
34:GM:173:ILE:HA	34:GM:174:PRO:HD3	1.79	0.43
37:GP:116:LYS:NZ	1:H1:1124:G:H8	2.11	0.43
39:GR:113:VAL:CG1	39:GR:138:SER:OG	2.66	0.43
39:GR:145:ASN:HA	39:GR:150:ILE:HD11	2.00	0.43
41:GT:22:ARG:NH2	41:GT:32:PHE:HE2	2.15	0.43
42:GU:25:LEU:HB3	42:GU:55:ILE:HG12	1.99	0.43
43:GV:105:LEU:HD12	43:GV:131:ILE:CD1	2.47	0.43
1:H1:1038:G:N2	1:H1:1065:U:C2	2.87	0.43
1:H1:1168:C:N4	1:H1:1169:G:C6	2.86	0.43
28:GG:81:UNK:CG	1:H1:1308:U:H2'	2.42	0.43
1:H1:1427:G:H2'	1:H1:1428:G:O5'	2.19	0.43
1:H1:1593:A:C4	1:H1:1594:C:C4	3.07	0.43
1:H1:1617:G:H4'	1:H1:1618:A:OP1	2.18	0.43
1:H1:1863:A:N6	1:H1:1867:C:C2	2.86	0.43
1:H1:1875:G:O2'	2:HA:6:PRO:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:GO:135:LYS:HB3	1:H1:1972:G:OP1	2.18	0.43
1:H1:2434:A:H2'	1:H1:2435:A:C8	2.53	0.43
1:H1:2432:G:N2	1:H1:2506:G:H1'	2.33	0.43
1:H1:2655:C:C5	1:H1:2676:G:N2	2.87	0.43
1:H1:2683:A:C5'	1:H1:2684:A:OP2	2.66	0.43
29:GH:158:LYS:NZ	1:H1:2840:C:N3	2.66	0.43
23:GB:5:LYS:HZ3	1:H1:2866:G:H5''	1.84	0.43
1:H1:3136:A:C6	1:H1:3137:U:C4	3.07	0.43
1:H1:3193:G:O2'	1:H1:3194:G:H5'	2.19	0.43
33:GL:150:TRP:CD2	1:H1:320:C:H5''	2.52	0.43
1:H1:581:C:H2'	1:H1:582:A:O4'	2.18	0.43
1:H1:879:G:C5	1:H1:880:U:C5	3.07	0.43
1:H1:927:G:H2'	1:H1:928:U:C6	2.49	0.43
1:H1:92:G:H2'	1:H1:93:A:H8	1.82	0.43
1:H1:970:C:H1'	1:H1:1433:A:N3	2.33	0.43
1:H1:970:C:N3	1:H1:971:C:C5	2.86	0.43
1:H1:591:G:C4'	6:HF:64:GLU:OE1	2.65	0.43
12:HM:32:ILE:HG21	12:HM:61:ASP:O	2.18	0.43
18:HU:22:THR:CG2	18:HU:24:PHE:HD1	2.27	0.43
19:HX:44:PHE:CE2	19:HX:117:VAL:HG21	2.53	0.43
43:GV:74:VAL:CG2	19:HX:73:LEU:HA	2.48	0.43
1:A1:1656:G:C6	1:A1:1657:C:C4	3.07	0.43
1:A1:1657:C:C5	13:AN:17:ARG:NH2	2.86	0.43
1:A1:1752:G:H2'	7:AG:85:HIS:HD2	1.73	0.43
1:A1:1839:A:H4'	1:A1:1840:U:C5'	2.48	0.43
1:A1:1867:C:OP1	3:AB:48:LYS:NZ	2.50	0.43
1:A1:906:C:H1'	1:A1:1874:A:C8	2.54	0.43
1:A1:855:A:O2'	1:A1:1890:C:H2'	2.18	0.43
1:A1:219:A:N1	1:A1:1416:U:C2'	2.81	0.43
1:A1:2253:U:C2'	1:A1:2254:A:C8	2.86	0.43
1:A1:2654:U:H4'	1:A1:2655:C:OP1	2.17	0.43
1:A1:459:G:C5	1:A1:517:A:C6	3.06	0.43
1:A1:52:C:O2'	1:A1:53:G:H5'	2.18	0.43
1:A1:605:C:O4'	19:AX:6:ALA:HA	2.18	0.43
1:A1:644:A:H2'	1:A1:645:A:C4'	2.47	0.43
1:A1:768:A:O2'	1:A1:769:G:H5'	2.19	0.43
1:A1:935:G:H3'	1:A1:936:C:C6	2.54	0.43
1:A1:992:A:N6	1:A1:993:G:C6	2.87	0.43
3:AB:9:MET:HB3	3:AB:13:PHE:CE2	2.50	0.43
4:AC:55:ILE:HD12	4:AC:57:ARG:NH2	2.32	0.43
6:AF:34:ASN:O	6:AF:50:ILE:N	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:119:PRO:HA	9:AJ:139:ARG:HB3	2.00	0.43
9:AJ:161:VAL:HG12	9:AJ:162:HIS:N	2.33	0.43
12:AM:96:TYR:HD1	12:AM:110:PHE:HD1	1.67	0.43
14:AO:49:ALA:O	14:AO:50:LEU:HD23	2.18	0.43
19:AX:109:ARG:NH1	19:AX:156:MET:HB2	2.34	0.43
20:B2:105:A:OP2	20:B2:106:A:H2'	2.19	0.43
20:B2:134:C:H6	20:B2:134:C:H3'	1.83	0.43
20:B2:58:U:C2	20:B2:65:C:H5	2.35	0.43
20:B2:52:G:C6	20:B2:80:A:C2	3.07	0.43
22:BA:133:CYS:O	22:BA:170:VAL:HG23	2.17	0.43
23:BB:228:ILE:O	23:BB:232:GLY:HA2	2.19	0.43
23:BB:230:ARG:HG2	23:BB:231:PHE:CZ	2.54	0.43
24:BC:205:ARG:HH21	40:BS:11:ARG:NH1	2.16	0.43
24:BC:27:ALA:HA	24:BC:30:THR:OG1	2.19	0.43
24:BC:348:ALA:C	24:BC:350:ALA:H	2.21	0.43
27:BF:142:LYS:HE3	27:BF:194:THR:O	2.19	0.43
27:BF:142:LYS:NZ	27:BF:201:LYS:NZ	2.67	0.43
27:BF:169:PRO:HB2	27:BF:211:PHE:CB	2.46	0.43
9:AJ:102:SER:H	31:BJ:139:SER:HA	1.82	0.43
32:BK:128:LYS:C	32:BK:129:TYR:CD1	2.92	0.43
1:A1:97:A:OP1	33:BL:195:ARG:HD3	2.17	0.43
34:BM:231:TRP:CZ2	34:BM:243:VAL:HG22	2.53	0.43
34:BM:83:LEU:O	34:BM:88:VAL:HG22	2.19	0.43
1:A1:1391:U:OP1	35:BN:3:ILE:CD1	2.66	0.43
35:BN:52:ARG:HH12	35:BN:141:ARG:CD	2.31	0.43
36:BO:28:GLU:HB3	36:BO:49:LEU:HD13	2.00	0.43
36:BO:76:THR:HG22	36:BO:81:ARG:HH21	1.84	0.43
36:BO:84:THR:OG1	36:BO:87:ALA:HB2	2.18	0.43
38:BQ:76:HIS:O	38:BQ:78:PHE:N	2.52	0.43
41:BT:8:CYS:O	41:BT:12:GLU:HA	2.18	0.43
43:BV:93:HIS:CG	43:BV:94:PRO:HD2	2.54	0.43
45:BX:65:THR:O	45:BX:68:LEU:HB2	2.18	0.43
20:C2:37:A:C4'	20:C2:38:C:OP1	2.43	0.43
20:C2:90:G:C6	20:C2:92:C:C4	3.07	0.43
22:CA:103:LEU:HD12	22:CA:108:ILE:HD13	2.00	0.43
22:CA:41:TYR:CZ	1:D1:2541:U:C2	3.07	0.43
23:CB:93:ILE:CD1	23:CB:102:LEU:HD22	2.48	0.43
29:CH:34:TYR:CZ	29:CH:92:HIS:CE1	3.07	0.43
30:CI:184:PRO:HA	30:CI:187:LYS:CE	2.48	0.43
30:CI:193:LEU:HD21	6:DF:114:LEU:HB3	1.99	0.43
34:CM:111:LYS:HA	34:CM:116:ASP:OD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:120:ALA:O	34:CM:255:ARG:NH1	2.31	0.43
34:CM:228:PHE:CD2	34:CM:231:TRP:CD1	3.02	0.43
35:CN:131:ALA:O	35:CN:134:GLY:N	2.50	0.43
47:CO:150:UNK:O	47:CO:153:UNK:HG3	2.19	0.43
47:CO:170:UNK:C	47:CO:174:UNK:HG3	2.47	0.43
37:CP:42:ILE:CD1	37:CP:91:VAL:HG21	2.48	0.43
39:CR:91:VAL:HG13	39:CR:131:TYR:CD1	2.54	0.43
42:CU:78:SER:O	42:CU:79:LEU:HB2	2.18	0.43
43:CV:188:VAL:HG12	43:CV:188:VAL:O	2.18	0.43
43:CV:93:HIS:CG	43:CV:94:PRO:HD2	2.52	0.43
1:D1:1078:U:C5	1:D1:1079:A:N7	2.86	0.43
1:D1:1240:G:O2'	1:D1:1241:U:H5'	2.19	0.43
27:CF:155:LEU:HD11	1:D1:147:U:H1'	1.98	0.43
1:D1:1597:U:C2'	1:D1:1598:C:C6	2.95	0.43
1:D1:1652:U:H4'	1:D1:1655:A:H5'	2.01	0.43
46:CY:51:ALA:HA	1:D1:1821:U:O4	2.18	0.43
1:D1:1945:A:C2	1:D1:1956:A:C2	3.07	0.43
1:D1:2383:U:H5''	1:D1:2383:U:H6	1.84	0.43
1:D1:2509:U:OP1	1:D1:2509:U:H6	2.01	0.43
1:D1:2630:U:H5''	1:D1:2631:A:OP1	2.18	0.43
33:CL:93:LYS:HG3	1:D1:288:A:N3	2.34	0.43
1:D1:3115:C:C2'	1:D1:3116:A:O5'	2.66	0.43
1:D1:355:C:O5'	1:D1:355:C:H6	2.01	0.43
1:D1:357:G:OP2	50:D1:3886:HOH:O	2.21	0.43
1:D1:397:A:HO2'	1:D1:400:C:HO2'	1.57	0.43
1:D1:709:G:H5''	18:DU:37:ARG:CZ	2.49	0.43
1:D1:841:A:OP2	2:DA:28:HIS:HE1	2.00	0.43
2:DA:33:ARG:NE	2:DA:41:ASP:OD2	2.51	0.43
5:DE:62:ARG:CZ	6:DF:105:ASP:OD1	2.66	0.43
6:DF:28:VAL:CG1	6:DF:66:ASN:CA	2.96	0.43
7:DG:8:ASP:HA	7:DG:11:GLN:HE21	1.82	0.43
9:DJ:117:ILE:HD13	9:DJ:137:VAL:CG1	2.49	0.43
9:DJ:49:ILE:HD11	9:DJ:88:LEU:HD13	2.01	0.43
13:DN:52:LYS:O	13:DN:65:ARG:NE	2.51	0.43
14:DO:75:THR:CG2	14:DO:77:GLU:CG	2.97	0.43
18:DU:131:ALA:HB3	18:DU:136:VAL:HG21	2.00	0.43
18:DU:181:ILE:HG13	18:DU:181:ILE:H	1.59	0.43
20:E2:14:C:O2'	38:EQ:7:SER:HA	2.17	0.43
20:E2:57:A:C6	20:E2:58:U:C4	3.07	0.43
20:E2:67:C:H6	20:E2:67:C:H5''	1.84	0.43
21:E3:4:G:C2'	21:E3:5:U:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:EA:179:PRO:HG2	46:EY:26:VAL:CG2	2.49	0.43
23:EB:233:VAL:HG12	23:EB:234:LYS:N	2.34	0.43
24:EC:42:PHE:CD1	24:EC:244:LEU:HD23	2.53	0.43
32:EK:89:ARG:HA	32:EK:121:GLN:HE22	1.84	0.43
32:EK:148:THR:CG2	32:EK:149:ALA:H	2.32	0.43
32:EK:38:GLY:HA3	32:EK:42:HIS:CE1	2.53	0.43
33:EL:33:LEU:O	33:EL:65:ARG:NH1	2.51	0.43
21:E3:10:C:C4	34:EM:20:TYR:CD1	3.06	0.43
34:EM:35:ARG:CB	1:F1:2737:A:C2	3.02	0.43
35:EN:147:GLU:O	35:EN:148:ALA:C	2.56	0.43
43:EV:82:PHE:HB3	43:EV:231:ILE:HD13	2.00	0.43
45:EX:22:PHE:CD2	45:EX:23:GLU:HG3	2.54	0.43
1:F1:1050:C:C5	1:F1:1051:C:C4	3.06	0.43
1:F1:1107:A:C3'	1:F1:1108:A:H8	2.28	0.43
1:F1:1135:U:H6	1:F1:1135:U:C5'	2.31	0.43
1:F1:1591:A:O2'	1:F1:1592:G:H5'	2.18	0.43
1:F1:1594:C:H2'	1:F1:1595:A:C5'	2.45	0.43
1:F1:2212:U:H2'	1:F1:2213:G:H8	1.82	0.43
1:F1:284:U:O4'	1:F1:284:U:P	2.76	0.43
1:F1:2935:G:OP1	1:F1:2935:G:H4'	2.18	0.43
1:F1:3175:A:C6	1:F1:3177:G:C6	3.06	0.43
24:EC:89:THR:HG23	1:F1:364:A:H1'	1.99	0.43
1:F1:533:G:H2'	1:F1:534:U:C6	2.54	0.43
1:F1:80:C:H2'	1:F1:81:C:O5'	2.18	0.43
1:F1:894:G:C6	1:F1:895:A:C6	3.07	0.43
1:F1:9:G:O2'	1:F1:1587:A:N6	2.51	0.43
1:F1:3228:U:N3	5:FE:146:LYS:HG3	2.34	0.43
1:F1:636:U:O2'	5:FE:34:LYS:HG2	2.18	0.43
5:FE:41:LEU:CG	5:FE:68:GLN:OE1	2.55	0.43
6:FF:28:VAL:CG1	6:FF:66:ASN:CA	2.97	0.43
19:FX:16:MET:CG	19:FX:17:LYS:H	2.28	0.43
20:G2:75:A:N3	20:G2:89:A:O2'	2.51	0.43
24:GC:33:ILE:HD13	24:GC:135:ALA:CA	2.48	0.43
24:GC:194:LEU:HD23	24:GC:194:LEU:HA	1.68	0.43
26:GE:91:LYS:HG2	26:GE:180:SER:CB	2.43	0.43
27:GF:50:TYR:O	27:GF:54:GLN:HG3	2.18	0.43
27:GF:63:ARG:CZ	27:GF:231:GLY:HA3	2.48	0.43
30:GI:10:ALA:O	30:GI:13:HIS:HB2	2.18	0.43
30:GI:91:THR:HG22	30:GI:93:LYS:N	2.33	0.43
34:GM:231:TRP:CZ2	34:GM:243:VAL:HG22	2.54	0.43
39:GR:77:THR:O	39:GR:78:GLU:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:GS:21:SER:CB	40:GS:26:ARG:HG2	2.48	0.43
40:GS:44:VAL:HG11	40:GS:47:MET:HE2	2.00	0.43
43:GV:160:LEU:HD23	43:GV:160:LEU:HA	1.81	0.43
46:GY:55:TRP:CD1	46:GY:55:TRP:N	2.86	0.43
1:H1:1089:G:N7	1:H1:1124:G:H2'	2.33	0.43
1:H1:1096:G:C2'	1:H1:1097:G:H5''	2.39	0.43
1:H1:1146:C:N4	17:HT:10:LYS:HZ3	2.16	0.43
1:H1:1185:A:C3'	1:H1:1186:A:C5'	2.88	0.43
1:H1:1475:A:H2'	1:H1:1476:G:O4'	2.19	0.43
1:H1:1681:C:C5	1:H1:1823:A:H5''	2.53	0.43
42:GU:98:LYS:CG	1:H1:242:G:OP1	2.66	0.43
1:H1:2561:A:C2	1:H1:2563:U:C2	3.06	0.43
1:H1:2563:U:C2	1:H1:2564:G:C8	3.07	0.43
1:H1:2829:G:H5''	1:H1:2830:U:H5'	1.99	0.43
1:H1:3316:C:N4	1:H1:3317:G:C6	2.86	0.43
1:H1:338:C:C5'	1:H1:338:C:H6	2.30	0.43
6:HF:11:ARG:O	6:HF:26:VAL:HA	2.17	0.43
10:HK:80:PRO:HA	10:HK:83:ALA:HB3	2.00	0.43
13:HN:95:GLU:O	13:HN:98:LYS:HE2	2.17	0.43
15:HP:15:TRP:O	15:HP:72:TYR:CE1	2.71	0.43
1:A1:1053:A:H8	1:A1:1054:G:C5	2.37	0.43
1:A1:1107:A:C5	34:BM:142:PHE:HE1	2.37	0.43
1:A1:1111:G:H3'	1:A1:1112:A:H8	1.83	0.43
1:A1:1222:A:C2	1:A1:1336:U:C2	3.06	0.43
1:A1:1322:G:H2'	1:A1:1323:C:C6	2.54	0.43
1:A1:1409:C:H2'	1:A1:1410:G:O5'	2.18	0.43
1:A1:1507:A:H1'	11:AL:4:ARG:HH21	1.84	0.43
1:A1:1518:G:N7	3:AB:2:GLY:N	2.66	0.43
1:A1:1746:U:C4	1:A1:1747:A:N7	2.86	0.43
1:A1:1925:A:H4'	1:A1:2906:G:H4'	1.99	0.43
1:A1:2208:A:H1'	1:A1:2590:A:O2'	2.18	0.43
1:A1:2255:U:O2'	1:A1:2301:C:C4'	2.67	0.43
1:A1:3019:G:C5	1:A1:3020:G:C5	3.06	0.43
1:A1:3102:A:H2'	1:A1:3103:A:C8	2.53	0.43
1:A1:3268:C:N4	1:A1:3269:G:C5	2.86	0.43
1:A1:340:G:OP2	1:A1:340:G:H8	2.01	0.43
1:A1:528:C:O2'	14:AO:115:HIS:CE1	2.68	0.43
1:A1:550:G:C5	1:A1:551:U:C5	3.07	0.43
1:A1:561:A:O2'	1:A1:562:G:H5'	2.18	0.43
1:A1:90:G:OP2	1:A1:91:C:H5''	2.18	0.43
7:AG:11:GLN:HE22	1:H1:2249:U:H4'	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:519:A:C5'	14:AO:89:ARG:HH11	2.32	0.43
20:B2:111:A:O2'	20:B2:112:G:H5''	2.19	0.43
20:B2:76:U:H5'	20:B2:77:U:OP2	2.18	0.43
23:BB:52:GLY:HA3	23:BB:309:PHE:HD1	1.81	0.43
29:BH:16:PRO:O	29:BH:18:PRO:HD3	2.19	0.43
31:BJ:58:ILE:HG13	31:BJ:85:GLN:OE1	2.18	0.43
1:A1:741:G:C4	32:BK:136:ARG:NH1	2.86	0.43
32:BK:99:VAL:CG2	32:BK:122:PRO:HB2	2.48	0.43
34:BM:99:TYR:CG	34:BM:204:ILE:HG23	2.52	0.43
1:A1:1105:U:H4'	34:BM:43:LYS:HG2	2.00	0.43
35:BN:87:VAL:HG23	35:BN:103:ALA:HB2	2.01	0.43
35:BN:77:LYS:HE2	35:BN:98:LYS:HE2	1.99	0.43
40:BS:3:THR:O	40:BS:3:THR:HG22	2.17	0.43
23:BB:377:PHE:CZ	41:BT:13:TYR:HE1	2.37	0.43
43:BV:127:VAL:C	43:BV:129:PRO:HD2	2.39	0.43
1:A1:1195:U:C1'	43:BV:206:THR:CG2	2.97	0.43
43:BV:57:LYS:HE3	43:BV:61:ASP:OD2	2.19	0.43
46:BY:55:TRP:CZ2	46:BY:70:GLU:C	2.91	0.43
20:C2:134:C:H6	20:C2:134:C:H3'	1.83	0.43
21:C3:11:A:C2'	21:C3:12:U:H5''	2.48	0.43
22:CA:109:PRO:HG2	22:CA:112:THR:OG1	2.18	0.43
23:CB:82:PRO:HG3	23:CB:167:LEU:HD21	2.00	0.43
23:CB:218:VAL:HB	23:CB:332:ARG:NE	2.34	0.43
23:CB:23:ARG:HE	23:CB:24:HIS:CE1	2.37	0.43
24:CC:111:LYS:HB3	24:CC:113:TYR:CE1	2.54	0.43
24:CC:50:LYS:CD	24:CC:116:VAL:HG11	2.48	0.43
24:CC:163:VAL:HG21	24:CC:175:PHE:CE2	2.53	0.43
30:CI:107:ILE:HA	30:CI:108:PRO:HD3	1.72	0.43
30:CI:17:ARG:NH2	30:CI:127:ARG:HD2	2.33	0.43
21:C3:45:U:H4'	34:CM:154:THR:OG1	2.18	0.43
34:CM:216:LEU:HD12	34:CM:228:PHE:CD1	2.54	0.43
35:CN:102:CYS:HB2	35:CN:122:LEU:HB3	2.00	0.43
35:CN:146:ARG:CB	35:CN:149:TYR:CD2	3.02	0.43
35:CN:30:LEU:HD11	35:CN:124:PHE:CB	2.48	0.43
45:CX:105:GLN:HG3	45:CX:106:VAL:N	2.34	0.43
46:CY:55:TRP:CD1	46:CY:66:GLY:HA3	2.54	0.43
1:D1:2408:A:H8	1:D1:2408:A:O5'	2.01	0.43
1:D1:2607:G:OP1	1:D1:2633:C:H2'	2.19	0.43
1:D1:2649:G:H2'	1:D1:2650:U:H6	1.82	0.43
1:D1:2735:A:H2'	1:D1:2736:A:O4'	2.18	0.43
1:D1:2765:C:H4'	1:D1:2766:A:O5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3190:A:C6	1:D1:3191:G:C2	3.07	0.43
1:D1:762:G:C2	1:D1:763:G:C8	3.07	0.43
3:DB:12:ARG:O	3:DB:15:ARG:HB3	2.18	0.43
3:DB:6:THR:HG22	3:DB:8:ASN:H	1.83	0.43
5:DE:173:TYR:CD2	6:DF:106:PHE:HA	2.53	0.43
1:D1:1191:G:H5''	8:DH:33:ASN:HD21	1.84	0.43
9:DJ:211:THR:OG1	9:DJ:214:GLU:HG3	2.18	0.43
11:DL:41:TYR:CB	11:DL:58:GLN:HE21	2.30	0.43
13:DN:83:THR:HG21	13:DN:85:TYR:HD2	1.84	0.43
15:DP:34:LYS:HG2	15:DP:35:THR:N	2.34	0.43
1:D1:297:U:O4	16:DQ:33:LYS:HE2	2.19	0.43
16:DQ:15:THR:HG21	18:DU:103:CYS:SG	2.58	0.43
24:CC:380:PHE:CE1	19:DX:22:VAL:HG22	2.51	0.43
22:EA:84:TYR:CE1	22:EA:87:GLN:HB2	2.54	0.43
23:EB:257:ARG:HD3	30:EI:63:HIS:CE1	2.54	0.43
23:EB:294:THR:HB	23:EB:297:ASP:H	1.83	0.43
27:EF:127:TYR:C	27:EF:127:TYR:HD1	2.19	0.43
30:EI:22:VAL:O	30:EI:26:LEU:HG	2.18	0.43
31:EJ:16:LYS:HE2	1:F1:3030:A:P	2.59	0.43
33:EL:142:ILE:HG23	33:EL:148:ILE:CG2	2.48	0.43
35:EN:174:PHE:C	35:EN:176:ARG:N	2.71	0.43
36:EO:94:LEU:HA	36:EO:94:LEU:HD23	1.77	0.43
39:ER:113:VAL:HG13	39:ER:138:SER:OG	2.19	0.43
40:ES:3:THR:CG2	40:ES:3:THR:O	2.67	0.43
40:ES:55:VAL:CG1	40:ES:103:LEU:HB3	2.47	0.43
41:ET:35:THR:HG21	41:ET:37:LYS:HG2	1.99	0.43
43:EV:216:HIS:C	43:EV:222:GLY:HA3	2.39	0.43
46:EY:8:VAL:HG13	46:EY:11:THR:CB	2.47	0.43
1:F1:1105:U:C2	1:F1:1111:G:C2	3.06	0.43
1:F1:1191:G:H5''	8:FH:33:ASN:ND2	2.34	0.43
1:F1:1337:G:H8	50:F1:4158:HOH:O	2.01	0.43
1:F1:1355:C:H2'	1:F1:1356:G:O5'	2.18	0.43
1:F1:164:A:C2'	1:F1:165:C:H5'	2.47	0.43
36:EO:120:TYR:CE2	1:F1:1744:A:OP2	2.66	0.43
36:EO:96:MET:HG2	1:F1:1746:U:O4'	2.19	0.43
1:F1:1937:G:O2'	1:F1:2116:A:H1'	2.18	0.43
1:F1:2239:A:O2'	1:F1:2240:C:H5'	2.19	0.43
1:F1:2267:G:N3	1:F1:2267:G:H2'	2.32	0.43
27:EF:46:ARG:CD	1:F1:2518:A:H5'	2.49	0.43
1:F1:2634:G:C2'	1:F1:2635:C:C5'	2.96	0.43
1:F1:2927:G:O2'	1:F1:2928:A:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:178:GLU:HB2	1:F1:2992:G:OP1	2.17	0.43
1:F1:3067:A:O2'	1:F1:3068:U:P	2.77	0.43
1:F1:439:A:N6	1:F1:539:A:H1'	2.33	0.43
1:F1:517:A:C4'	1:F1:518:G:OP2	2.61	0.43
1:F1:528:C:H2'	1:F1:529:G:C8	2.53	0.43
1:F1:625:C:HO2'	1:F1:626:C:H5'	1.82	0.43
32:EK:136:ARG:NH2	1:F1:741:G:C4	2.87	0.43
1:F1:833:A:O2'	1:F1:2408:A:H5'	2.18	0.43
5:FE:187:HIS:HA	8:FH:50:PHE:CE2	2.54	0.43
18:FU:74:THR:HB	18:FU:101:ASN:ND2	2.33	0.43
20:G2:111:A:H8	20:G2:111:A:O5'	2.00	0.43
20:G2:13:A:H2'	20:G2:14:C:H6	1.79	0.43
24:GC:28:VAL:HG13	24:GC:270:PHE:CE2	2.54	0.43
24:GC:81:ILE:HG23	24:GC:82:PRO:N	2.33	0.43
26:GE:127:LEU:HD23	26:GE:127:LEU:HA	1.79	0.43
26:GE:7:GLU:CG	26:GE:56:GLN:HG2	2.43	0.43
29:GH:22:TYR:CZ	1:H1:1074:A:H2'	2.53	0.43
32:GK:91:LYS:HG2	32:GK:92:TYR:CE1	2.54	0.43
34:GM:106:ALA:CB	34:GM:169:GLY:HA3	2.48	0.43
34:GM:95:TYR:OH	34:GM:200:HIS:HE1	2.01	0.43
35:GN:73:ASN:OD1	35:GN:74:GLU:OE1	2.36	0.43
36:GO:18:GLY:HA3	1:H1:1898:G:H5''	2.00	0.43
39:GR:52:SER:CB	39:GR:58:HIS:HB2	2.48	0.43
40:GS:8:SER:OG	1:H1:334:G:H5''	2.18	0.43
46:GY:12:ARG:HH12	1:H1:1952:G:P	2.41	0.43
43:GV:215:ARG:NH1	1:H1:1183:C:O3'	2.49	0.43
1:H1:1394:G:O2'	1:H1:1395:U:O5'	2.37	0.43
1:H1:1432:G:N2	1:H1:1433:A:C2	2.86	0.43
1:H1:1923:G:O2'	1:H1:2329:U:O4	2.31	0.43
25:GD:99:THR:HG23	1:H1:2673:C:O2'	2.18	0.43
1:H1:26:C:H2'	1:H1:26:C:O2	2.17	0.43
1:H1:2793:G:H2'	1:H1:2794:U:H6	1.82	0.43
1:H1:2999:U:C5	50:H1:4347:HOH:O	2.72	0.43
1:H1:303:A:N3	1:H1:303:A:H2'	2.33	0.43
1:H1:3083:A:H2'	1:H1:3084:U:H6	1.84	0.43
1:H1:3102:A:H2'	1:H1:3103:A:C8	2.53	0.43
1:H1:3198:A:N6	1:H1:3213:G:H1'	2.34	0.43
1:H1:603:A:H2'	1:H1:604:A:H8	1.84	0.43
1:H1:70:C:O2'	1:H1:71:U:H5''	2.19	0.43
1:H1:729:A:C1'	1:H1:810:G:N2	2.81	0.43
5:HE:11:GLY:HA2	5:HE:14:LYS:HE3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:HE:157:ASP:O	5:HE:160:LEU:HB2	2.18	0.43
5:HE:173:TYR:OH	6:HF:105:ASP:HB3	2.19	0.43
7:HG:62:LEU:HB3	13:HN:4:PHE:CD2	2.51	0.43
9:HJ:97:ILE:HD12	9:HJ:104:LEU:HD13	1.99	0.43
14:HO:6:TRP:CE3	14:HO:6:TRP:HA	2.54	0.43
14:HO:5:VAL:O	14:HO:9:VAL:HG23	2.19	0.43
1:A1:1009:A:OP1	17:AT:23:LYS:NZ	2.46	0.43
1:A1:1053:A:C1'	1:A1:1054:G:P	3.07	0.43
1:A1:1031:G:N2	1:A1:1071:C:O2	2.50	0.43
1:A1:1112:A:N6	1:A1:1113:A:N6	2.67	0.43
1:A1:131:G:C6	1:A1:133:C:H1'	2.53	0.43
1:A1:1381:G:N3	1:A1:1381:G:H2'	2.33	0.43
1:A1:147:U:C4'	1:A1:148:G:OP2	2.64	0.43
1:A1:1549:U:H3	39:BR:83:LYS:HZ3	1.67	0.43
1:A1:1738:A:C8	1:A1:1752:G:C2	3.06	0.43
1:A1:213:A:H2'	1:A1:214:G:O4'	2.19	0.43
1:A1:2258:C:O2'	1:A1:2259:U:H5'	2.19	0.43
1:A1:2844:G:H2'	1:A1:2845:C:H6	1.82	0.43
1:A1:2907:A:N1	1:A1:2915:C:O2	2.52	0.43
1:A1:291:C:C3'	1:A1:292:C:H5''	2.49	0.43
1:A1:3175:A:H4'	1:A1:3176:A:OP2	2.17	0.43
1:A1:3215:C:H2'	1:A1:3216:C:C6	2.54	0.43
1:A1:3234:U:O4	1:A1:3236:C:C5	2.72	0.43
1:A1:402:U:C2'	1:A1:403:G:H5'	2.48	0.43
1:A1:567:C:N4	1:A1:603:A:C2	2.86	0.43
1:A1:827:C:H2'	1:A1:828:C:H6	1.83	0.43
3:AB:6:THR:HG22	3:AB:7:LEU:N	2.33	0.43
5:AE:98:THR:HG22	5:AE:100:THR:H	1.82	0.43
8:AH:40:GLN:HG2	8:AH:41:ASN:ND2	2.33	0.43
9:AJ:128:ILE:O	9:AJ:132:THR:HB	2.18	0.43
1:A1:3109:C:H5''	10:AK:111:ARG:HH22	1.83	0.43
13:AN:130:LYS:HG3	13:AN:130:LYS:H	1.65	0.43
14:AO:58:ILE:O	14:AO:83:VAL:HG22	2.19	0.43
18:AU:124:PHE:HA	18:AU:125:PRO:HD2	1.77	0.43
20:B2:77:U:C4	40:BS:73:TYR:CE2	3.07	0.43
21:B3:63:A:C2	29:BH:202:GLU:HG2	2.54	0.43
22:BA:117:VAL:CG1	22:BA:118:GLU:N	2.81	0.43
1:A1:2955:A:OP1	22:BA:214:GLY:CA	2.67	0.43
24:BC:202:ARG:HD3	24:BC:202:ARG:HA	1.85	0.43
24:BC:289:LEU:HA	24:BC:289:LEU:HD23	1.49	0.43
24:BC:40:LYS:O	24:BC:43:THR:HB	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BE:88:PHE:HD2	26:BE:152:VAL:CG1	2.31	0.43
1:A1:2549:U:H5'	27:BF:35:ILE:HD12	2.00	0.43
30:BI:73:ARG:HD3	30:BI:144:VAL:O	2.19	0.43
34:BM:274:HIS:O	34:BM:278:TYR:CD2	2.59	0.43
14:AO:7:GLU:CB	35:BN:25:VAL:CG1	2.96	0.43
39:BR:71:VAL:HG21	39:BR:107:PHE:HD1	1.83	0.43
40:BS:18:HIS:CE1	40:BS:77:TRP:CH2	3.07	0.43
21:C3:5:U:H2'	21:C3:6:C:H6	1.84	0.43
22:CA:16:VAL:CG2	1:D1:936:C:C5'	2.94	0.43
23:CB:89:VAL:O	23:CB:104:THR:HA	2.18	0.43
23:CB:108:LYS:HE2	23:CB:137:PHE:CD1	2.53	0.43
24:CC:65:MET:HE3	24:CC:105:ARG:HG2	1.99	0.43
24:CC:330:LEU:HA	24:CC:330:LEU:HD23	1.79	0.43
30:CI:127:ARG:NH1	1:D1:1344:A:H5''	2.33	0.43
30:CI:24:LYS:O	30:CI:28:SER:OG	2.37	0.43
33:CL:37:HIS:NE2	33:CL:63:ARG:HB2	2.34	0.43
35:CN:174:PHE:C	35:CN:176:ARG:H	2.21	0.43
37:CP:43:MET:HE3	37:CP:43:MET:HB3	1.49	0.43
38:CQ:117:GLN:O	38:CQ:151:PHE:O	2.36	0.43
42:CU:20:GLY:O	42:CU:24:LYS:HG3	2.19	0.43
39:CR:147:ILE:HG22	42:CU:34:ILE:HG21	1.99	0.43
43:CV:84:ILE:HD12	43:CV:234:LEU:HD23	2.01	0.43
45:CX:22:PHE:CE2	45:CX:23:GLU:HG3	2.53	0.43
45:CX:27:PHE:CD2	45:CX:29:LYS:HE2	2.54	0.43
1:D1:1066:A:C2	1:D1:1067:U:N1	2.87	0.43
27:CF:131:HIS:NE2	1:D1:117:G:H2'	2.34	0.43
1:D1:1221:G:H8	1:D1:1221:G:O5'	2.01	0.43
24:CC:207:LYS:NZ	1:D1:1411:U:O4	2.40	0.43
1:D1:1445:G:C3'	1:D1:1446:C:H5''	2.48	0.43
1:D1:1599:G:N1	1:D1:1600:U:C2	2.87	0.43
1:D1:1770:A:H2'	1:D1:1771:U:H6	1.84	0.43
1:D1:1783:U:C2	1:D1:1794:G:C2	3.07	0.43
1:D1:1845:U:C5'	1:D1:1846:C:OP2	2.67	0.43
1:D1:2194:G:C2'	1:D1:2195:U:H5'	2.48	0.43
1:D1:2283:G:C6	1:D1:2284:U:C4	3.07	0.43
1:D1:2290:A:C6	1:D1:2291:A:C6	3.06	0.43
1:D1:2702:U:H3'	4:DC:9:LYS:O	2.18	0.43
1:D1:2741:U:C4'	1:D1:2742:G:OP2	2.64	0.43
1:D1:452:U:O2'	1:D1:453:A:O5'	2.35	0.43
1:D1:710:G:C2'	1:D1:711:U:O5'	2.67	0.43
1:D1:9:G:O2'	1:D1:1587:A:N6	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1737:A:H61	7:DG:28:LYS:HD2	1.80	0.43
14:DO:102:GLY:O	14:DO:105:GLN:N	2.52	0.43
15:DP:15:TRP:CE3	15:DP:69:PRO:HG3	2.53	0.43
16:DQ:46:ARG:NH2	16:DQ:51:PHE:CD2	2.84	0.43
19:DX:16:MET:CG	19:DX:17:LYS:N	2.80	0.43
19:DX:45:ALA:HB1	19:DX:50:HIS:HB3	2.01	0.43
20:E2:22:A:O2'	20:E2:23:U:H5'	2.19	0.43
20:E2:90:G:C6	20:E2:92:C:C4	3.07	0.43
21:E3:89:G:H2'	21:E3:90:A:H8	1.78	0.43
24:EC:43:THR:CG2	24:EC:47:LYS:HE3	2.49	0.43
26:EE:80:ARG:O	26:EE:84:GLU:O	2.37	0.43
27:EF:183:VAL:O	27:EF:184:ASN:HB2	2.18	0.43
27:EF:220:GLU:O	27:EF:224:THR:N	2.51	0.43
29:EH:19:LYS:HG3	29:EH:26:VAL:CG1	2.48	0.43
33:EL:26:ARG:C	33:EL:30:TYR:HD1	2.22	0.43
34:EM:17:GLN:OE1	37:EP:20:LYS:CA	2.58	0.43
21:E3:33:U:N3	34:EM:212:TYR:CE1	2.87	0.43
35:EN:146:ARG:HB3	35:EN:149:TYR:HD2	1.81	0.43
35:EN:89:ASN:OD1	35:EN:89:ASN:C	2.56	0.43
36:EO:28:GLU:O	36:EO:31:GLU:HB3	2.19	0.43
36:EO:60:ARG:O	36:EO:61:SER:C	2.55	0.43
37:EP:110:GLN:HG2	1:F1:1093:C:O2'	2.19	0.43
34:EM:44:TYR:HD2	37:EP:34:TYR:O	2.01	0.43
38:EQ:66:THR:HG23	38:EQ:82:GLN:NE2	2.34	0.43
40:ES:105:LEU:HA	40:ES:105:LEU:HD23	1.78	0.43
43:EV:139:ASN:ND2	1:F1:608:C:H5''	2.34	0.43
43:EV:48:TYR:HE1	43:EV:183:HIS:CD2	2.37	0.43
43:EV:98:ARG:CG	43:EV:98:ARG:NH1	2.66	0.43
1:F1:752:C:C5'	1:F1:1002:A:C2	3.01	0.43
1:F1:1017:U:H5'	1:F1:1017:U:H6	1.84	0.43
1:F1:1147:A:H2'	1:F1:1148:U:C6	2.52	0.43
1:F1:131:G:C6	1:F1:133:C:H1'	2.53	0.43
32:EK:9:ARG:HD2	1:F1:1456:U:C4	2.54	0.43
1:F1:1769:U:H2'	1:F1:1770:A:C8	2.54	0.43
1:F1:1839:A:O2'	1:F1:1840:U:P	2.77	0.43
1:F1:2221:U:H2'	1:F1:2222:C:C6	2.54	0.43
1:F1:2377:G:C2'	1:F1:2378:A:H5'	2.49	0.43
1:F1:2661:G:N2	1:F1:2671:C:O2	2.51	0.43
1:F1:3085:C:H2'	1:F1:3086:U:H6	1.83	0.43
1:F1:3144:G:C2	1:F1:3249:U:O2	2.71	0.43
1:F1:3198:A:C6	1:F1:3199:G:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:3349:U:H2'	1:F1:3350:U:C6	2.54	0.43
1:F1:355:C:H6	1:F1:355:C:O5'	2.01	0.43
1:F1:393:U:O2	1:F1:395:A:C8	2.71	0.43
2:FA:8:PHE:CD1	2:FA:8:PHE:N	2.85	0.43
8:FH:20:PHE:CD1	8:FH:20:PHE:C	2.91	0.43
14:FO:91:ALA:O	14:FO:95:ARG:HG3	2.18	0.43
15:FP:61:ALA:O	15:FP:65:LYS:HG3	2.18	0.43
19:FX:16:MET:CG	19:FX:17:LYS:N	2.79	0.43
21:G3:43:A:C5	21:G3:44:C:C4	3.07	0.43
22:GA:12:ARG:HH21	22:GA:14:ASN:ND2	2.11	0.43
22:GA:210:HIS:HE1	1:H1:2179:U:OP1	2.01	0.43
23:GB:102:LEU:HA	23:GB:102:LEU:HD12	1.72	0.43
24:GC:126:ARG:HD3	24:GC:283:TYR:HD2	1.84	0.43
27:GF:44:PHE:HD1	1:H1:2576:C:O2'	2.02	0.43
30:GI:22:VAL:O	30:GI:26:LEU:HG	2.19	0.43
34:GM:177:GLU:HG3	34:GM:177:GLU:O	2.17	0.43
35:GN:93:LEU:HD23	35:GN:93:LEU:HA	1.88	0.43
39:GR:104:LYS:HG3	39:GR:115:VAL:HB	2.00	0.43
39:GR:74:PRO:HB2	39:GR:149:LEU:HD11	2.00	0.43
41:GT:58:ARG:NE	1:H1:3325:G:N7	2.67	0.43
1:H1:1196:A:N1	1:H1:1357:A:C4	2.86	0.43
1:H1:1465:U:C2	1:H1:1466:G:C8	3.06	0.43
1:H1:1636:C:C2	1:H1:1637:A:C8	3.06	0.43
1:H1:1828:C:H2'	1:H1:1829:U:O4'	2.19	0.43
1:H1:1936:U:O2	1:H1:2117:A:H3'	2.19	0.43
1:H1:2109:G:H2'	1:H1:2110:C:H5'	1.99	0.43
36:GO:82:LYS:HE3	1:H1:2111:G:O2'	2.19	0.43
1:H1:219:A:N1	1:H1:1416:U:C2'	2.81	0.43
1:H1:2504:U:H2'	1:H1:2505:U:C6	2.54	0.43
1:H1:2552:A:H2'	1:H1:2553:G:H5'	1.99	0.43
1:H1:2634:G:C2'	1:H1:2635:C:C5'	2.95	0.43
1:H1:2775:G:H2'	1:H1:2776:C:C6	2.53	0.43
1:H1:281:G:H5''	1:H1:282:G:P	2.56	0.43
1:H1:3349:U:H2'	1:H1:3350:U:C6	2.54	0.43
1:H1:470:C:O2'	1:H1:471:A:H5'	2.18	0.43
1:H1:73:G:OP1	18:HU:56:VAL:CG1	2.65	0.43
32:GK:120:ASN:ND2	1:H1:743:A:C2	2.86	0.43
9:AJ:126:GLU:OE2	9:HJ:123:ARG:NH1	2.52	0.43
9:FJ:93:ARG:HH22	9:HJ:93:ARG:CG	2.31	0.43
13:HN:114:LEU:HD22	13:HN:118:PHE:CE1	2.51	0.43
13:HN:24:VAL:C	13:HN:43:VAL:HG13	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:510:A:C5'	14:HO:68:HIS:O	2.67	0.43
1:A1:112:A:H2'	1:A1:113:A:O4'	2.18	0.43
1:A1:1315:U:H2'	1:A1:1316:G:H5''	2.00	0.43
1:A1:143:G:C2'	1:A1:144:A:H5'	2.49	0.43
1:A1:1461:A:H5''	1:A1:1462:U:C5'	2.42	0.43
1:A1:1820:U:O2'	1:A1:1822:G:N2	2.52	0.43
1:A1:2276:A:N6	1:A1:2947:C:O2'	2.52	0.43
1:A1:2345:C:O2'	1:A1:2346:U:H5'	2.19	0.43
1:A1:3175:A:C6	1:A1:3177:G:C6	3.06	0.43
1:A1:3283:C:H2'	1:A1:3284:G:C8	2.54	0.43
1:A1:509:A:C2	1:A1:510:A:C8	3.07	0.43
1:A1:600:G:H5''	1:A1:601:A:OP2	2.19	0.43
1:A1:624:G:C6	1:A1:625:C:N4	2.87	0.43
1:A1:627:U:O2	1:A1:630:G:O6	2.36	0.43
1:A1:651:U:C4	1:A1:652:U:C5	3.06	0.43
1:A1:755:G:H4'	35:BN:134:GLY:O	2.18	0.43
5:AE:173:TYR:CD2	6:AF:106:PHE:HD1	2.36	0.43
5:AE:42:ARG:NH2	5:AE:95:THR:O	2.44	0.43
9:AJ:158:GLY:CA	9:AJ:179:ILE:HD12	2.49	0.43
14:AO:29:PHE:HA	14:AO:48:VAL:O	2.19	0.43
14:AO:87:VAL:HG21	14:AO:115:HIS:CD2	2.53	0.43
19:AX:7:GLN:HE22	19:AX:80:GLU:CA	2.31	0.43
21:B3:108:G:H2'	21:B3:109:U:O4'	2.19	0.43
23:BB:42:HIS:ND1	23:BB:182:ASN:O	2.52	0.43
23:BB:56:ILE:HD11	23:BB:321:MET:SD	2.58	0.43
24:BC:195:ARG:NH1	24:BC:204:ARG:HB2	2.34	0.43
24:BC:26:PRO:HG2	24:BC:29:PHE:CE1	2.53	0.43
26:BE:113:LYS:CE	26:BE:114:HIS:HB2	2.49	0.43
26:BE:82:VAL:O	26:BE:82:VAL:HG12	2.18	0.43
28:BG:57:UNK:HG3	28:BG:58:UNK:N	2.33	0.43
1:A1:2607:G:OP1	29:BH:116:ARG:HD3	2.18	0.43
29:BH:80:ILE:HD11	29:BH:144:HIS:HB3	1.97	0.43
30:BI:64:ASN:C	30:BI:64:ASN:ND2	2.69	0.43
32:BK:61:ARG:HA	35:BN:172:ARG:NH1	2.20	0.43
21:B3:15:U:H1'	34:BM:13:PHE:HE2	1.83	0.43
35:BN:172:ARG:HG2	35:BN:173:LYS:N	2.33	0.43
1:A1:810:G:N7	35:BN:92:ARG:NE	2.67	0.43
37:BP:27:ILE:CA	37:BP:30:TYR:HD2	2.22	0.43
38:BQ:96:LEU:HA	38:BQ:96:LEU:HD23	1.83	0.43
38:BQ:99:ASN:ND2	38:BQ:99:ASN:O	2.52	0.43
41:BT:5:THR:HG21	41:BT:14:ARG:NE	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:41:TRP:CG	43:BV:177:CYS:SG	3.12	0.43
44:BW:43:MET:HG3	44:BW:90:THR:CG2	2.49	0.43
21:C3:7:G:O3'	34:CM:33:ARG:CZ	2.66	0.43
24:CC:333:LEU:HD22	43:CV:178:VAL:HG21	2.01	0.43
25:CD:94:LYS:O	1:D1:2661:G:H5''	2.19	0.43
26:CE:92:LEU:HD12	26:CE:177:ILE:HG12	2.00	0.43
27:CF:233:LYS:HB2	1:D1:2575:G:C6	2.50	0.43
31:CJ:35:ALA:HB1	31:CJ:66:VAL:HG11	2.01	0.43
33:CL:64:VAL:CG2	33:CL:106:VAL:CG2	2.97	0.43
35:CN:45:PHE:CZ	35:CN:49:ILE:HD11	2.54	0.43
47:CO:168:UNK:O	47:CO:171:UNK:CG	2.48	0.43
47:CO:170:UNK:CA	47:CO:174:UNK:HG3	2.47	0.43
38:CQ:21:ALA:HB2	38:CQ:96:LEU:HD21	2.00	0.43
40:CS:30:MET:HE2	40:CS:30:MET:HB3	1.82	0.43
43:CV:173:PHE:CD1	43:CV:191:HIS:ND1	2.87	0.43
46:CY:55:TRP:CZ2	46:CY:70:GLU:O	2.72	0.43
1:D1:1019:G:N3	1:D1:2626:A:H2'	2.34	0.43
1:D1:1089:G:N7	1:D1:1124:G:H2'	2.33	0.43
1:D1:1254:C:H2'	1:D1:1255:A:H5''	2.01	0.43
1:D1:1388:U:H2'	1:D1:1389:G:C8	2.54	0.43
1:D1:1966:U:C2'	1:D1:1967:C:O5'	2.66	0.43
1:D1:2212:U:H2'	1:D1:2213:G:H8	1.83	0.43
22:CA:70:TYR:HE1	1:D1:2549:U:C6	2.34	0.43
1:D1:2599:G:H2'	1:D1:2600:U:O4'	2.19	0.43
25:CD:57:PHE:HE1	1:D1:2666:G:O6	2.01	0.43
1:D1:3029:A:H2'	1:D1:3030:A:H8	1.83	0.43
1:D1:3047:U:C6	1:D1:3047:U:C3'	3.01	0.43
1:D1:459:G:H1'	1:D1:519:A:H62	1.83	0.43
1:D1:646:A:H2'	1:D1:647:U:C6	2.54	0.43
1:D1:792:G:H2'	1:D1:793:A:H8	1.84	0.43
2:DA:6:PRO:HD2	2:DA:7:ALA:H	1.84	0.43
4:DC:25:GLN:HG2	4:DC:26:TYR:N	2.34	0.43
5:DE:42:ARG:HG2	5:DE:92:GLN:NE2	2.34	0.43
6:DF:85:TYR:CE2	6:DF:91:ALA:HB2	2.54	0.43
1:D1:1614:A:C6	11:DL:13:TYR:CE2	3.05	0.43
15:DP:11:PHE:O	15:DP:15:TRP:HD1	2.02	0.43
18:DU:40:GLN:HA	18:DU:40:GLN:OE1	2.19	0.43
24:EC:153:GLN:HA	24:EC:153:GLN:OE1	2.18	0.43
24:EC:294:ASP:OD1	14:FO:1:MET:N	2.50	0.43
24:EC:320:LYS:HB2	43:EV:159:PRO:HB3	1.99	0.43
25:ED:133:ARG:CB	25:ED:134:PRO:CD	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:EH:203:ARG:HA	29:EH:203:ARG:HD3	1.76	0.43
30:EI:118:VAL:HG21	19:FX:185:ARG:HG2	2.01	0.43
30:EI:17:ARG:NH2	30:EI:127:ARG:HD2	2.33	0.43
30:EI:36:ARG:HG3	30:EI:107:ILE:HD11	1.99	0.43
32:EK:27:LYS:NZ	1:F1:826:A:P	2.92	0.43
34:EM:86:PHE:CE1	34:EM:253:GLU:HB3	2.54	0.43
36:EO:18:GLY:O	36:EO:19:GLN:C	2.57	0.43
36:EO:96:MET:CE	36:EO:100:ARG:NH2	2.82	0.43
39:ER:145:ASN:HD22	39:ER:150:ILE:HD11	1.84	0.43
1:F1:1063:C:H2'	1:F1:1064:C:H6	1.83	0.43
1:F1:1065:U:O4	1:F1:1066:A:N6	2.52	0.43
45:EX:49:ARG:HB3	1:F1:1173:A:OP1	2.18	0.43
1:F1:119:A:O2'	1:F1:120:A:P	2.76	0.43
1:F1:1377:A:H2'	1:F1:1378:U:O4'	2.19	0.43
45:EX:79:ARG:NH1	1:F1:1448:G:C1'	2.81	0.43
1:F1:1697:U:H2'	1:F1:1698:G:C8	2.54	0.43
1:F1:1839:A:H4'	1:F1:1840:U:C5'	2.49	0.43
1:F1:1926:G:C6	1:F1:1927:U:C2	3.06	0.43
1:F1:2264:U:C2'	1:F1:2265:A:O5'	2.66	0.43
1:F1:2270:A:H2'	1:F1:2270:A:N3	2.33	0.43
1:F1:2118:G:C6	1:F1:2327:A:C2	3.07	0.43
1:F1:2683:A:H5''	1:F1:2684:A:OP2	2.18	0.43
1:F1:270:C:H2'	1:F1:271:G:O5'	2.18	0.43
1:F1:2735:A:H2'	1:F1:2736:A:O4'	2.19	0.43
1:F1:2824:C:H2'	1:F1:2825:A:O4'	2.19	0.43
1:F1:2869:C:O2'	1:F1:2870:U:H5'	2.19	0.43
1:F1:3078:C:C4	1:F1:3079:U:C4	3.07	0.43
1:F1:3086:U:H2'	1:F1:3087:G:C8	2.54	0.43
24:EC:103:LYS:HZ1	1:F1:365:A:P	2.41	0.43
1:F1:500:G:O2'	1:F1:501:A:O5'	2.29	0.43
1:F1:513:G:C4	1:F1:514:U:C5	3.07	0.43
1:F1:559:G:C6	1:F1:609:A:C6	3.07	0.43
1:F1:661:C:H1'	1:F1:662:C:C6	2.53	0.43
1:F1:775:C:C2'	1:F1:775:C:O2	2.59	0.43
1:F1:917:U:H2'	1:F1:918:C:O4'	2.19	0.43
5:FE:136:GLU:OE1	5:FE:139:LYS:HD2	2.18	0.43
5:FE:78:GLY:O	5:FE:79:PRO:C	2.55	0.43
9:FJ:115:ALA:CB	9:FJ:135:VAL:HG11	2.49	0.43
9:FJ:5:CYS:SG	9:FJ:13:ILE:CD1	3.07	0.43
15:FP:42:PHE:C	15:FP:43:LYS:HG2	2.39	0.43
18:FU:81:ALA:HB2	18:FU:114:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:FX:41:MET:HE2	19:FX:59:MET:HE1	2.00	0.43
19:FX:7:GLN:HE22	19:FX:80:GLU:CA	2.31	0.43
20:G2:2:G:O2'	1:H1:2983:A:C1'	2.64	0.43
21:G3:16:A:C6	21:G3:64:A:C6	3.06	0.43
22:GA:148:ARG:NH1	22:GA:158:THR:OG1	2.32	0.43
23:GB:105:VAL:HG13	23:GB:142:GLN:OE1	2.19	0.43
24:GC:276:THR:HG23	24:GC:277:GLY:N	2.32	0.43
24:GC:380:PHE:O	24:GC:383:ALA:HB3	2.19	0.43
25:GD:19:ILE:CG2	25:GD:125:MET:HE1	2.47	0.43
27:GF:196:VAL:HG21	27:GF:204:LEU:HD11	2.01	0.43
33:GL:120:TRP:CE3	1:H1:268:G:H5'	2.54	0.43
34:GM:46:THR:HA	34:GM:47:PRO:HD3	1.85	0.43
37:GP:15:PHE:CE2	37:GP:52:MET:HE1	2.54	0.43
39:GR:124:ILE:HG13	39:GR:124:ILE:H	1.51	0.43
43:GV:103:PHE:C	43:GV:104:ARG:HG2	2.39	0.43
45:GX:98:ILE:C	45:GX:123:ASN:HD21	2.22	0.43
1:H1:1178:U:H5''	1:H1:1179:G:OP2	2.19	0.43
1:H1:143:G:C2'	1:H1:144:A:H5'	2.48	0.43
1:H1:1517:G:H5'	2:HA:12:HIS:O	2.19	0.43
1:H1:1592:G:N2	1:H1:1602:U:H1'	2.33	0.43
1:H1:1775:A:H4'	15:HP:34:LYS:NZ	2.22	0.43
1:H1:1918:U:H2'	1:H1:1919:A:H5'	1.93	0.43
1:H1:2148:A:H2'	1:H1:2149:U:C6	2.54	0.43
1:H1:2168:U:H2'	1:H1:2169:G:C8	2.54	0.43
24:GC:75:GLY:O	1:H1:2396:A:H4'	2.18	0.43
1:H1:2587:G:C6	1:H1:2588:U:C4	3.07	0.43
1:H1:2849:U:H3'	1:H1:2850:U:H6	1.82	0.43
1:H1:2888:A:O2'	1:H1:2889:G:H5'	2.18	0.43
1:H1:2987:A:H2'	1:H1:2988:U:O4'	2.18	0.43
1:H1:2990:U:H2'	1:H1:2991:U:H6	1.82	0.43
1:H1:3175:A:C4'	1:H1:3176:A:OP2	2.67	0.43
1:H1:39:G:C5	1:H1:2789:A:C2	3.07	0.43
1:H1:513:G:C4	1:H1:514:U:C5	3.07	0.43
1:H1:637:U:C2	1:H1:638:U:C5	3.07	0.43
20:G2:38:C:O3'	2:HA:67:TYR:HE2	2.01	0.43
18:HU:87:PHE:CD2	18:HU:91:ILE:HD11	2.54	0.43
1:A1:1172:G:H1'	1:A1:1187:C:N3	2.33	0.43
1:A1:1239:G:O3'	19:AX:106:LYS:NZ	2.46	0.43
1:A1:620:A:H1'	1:A1:1364:A:H5''	2.01	0.43
1:A1:1398:G:C2'	1:A1:1399:A:O5'	2.67	0.43
1:A1:1551:C:C4	1:A1:1552:U:O4	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1812:G:O2'	1:A1:1813:A:H5'	2.19	0.43
1:A1:1966:U:C2'	1:A1:1967:C:O5'	2.67	0.43
1:A1:2391:G:C5'	1:A1:2392:A:H4'	2.43	0.43
1:A1:2541:U:C2	22:BA:41:TYR:CZ	3.07	0.43
1:A1:2641:U:C4	1:A1:2748:U:O2	2.71	0.43
1:A1:296:G:O5'	1:A1:296:G:H8	2.01	0.43
1:A1:3228:U:H5''	1:A1:3229:C:C5'	2.48	0.43
1:A1:436:U:C2'	1:A1:437:A:H5'	2.49	0.43
1:A1:469:U:O2	1:A1:510:A:N1	2.52	0.43
1:A1:459:G:H2'	1:A1:517:A:C2	2.54	0.43
1:A1:607:U:H2'	1:A1:608:C:C6	2.54	0.43
1:A1:779:A:C2	1:A1:780:C:C2	3.06	0.43
3:AB:2:GLY:HA3	50:AB:105:HOH:O	2.19	0.43
5:AE:68:GLN:O	5:AE:68:GLN:CG	2.66	0.43
6:AF:109:PHE:O	6:AF:113:VAL:HG23	2.18	0.43
6:AF:13:VAL:CG1	6:AF:53:VAL:HG13	2.48	0.43
1:A1:1662:A:H4'	11:AL:76:ARG:NH2	2.32	0.43
14:AO:27:ASP:OD2	14:AO:42:PHE:HD1	2.02	0.43
14:AO:62:LEU:O	14:AO:63:ARG:C	2.56	0.43
20:B2:129:A:O3'	39:BR:99:THR:HG21	2.18	0.43
21:B3:103:U:O5'	21:B3:103:U:H6	2.02	0.43
21:B3:74:A:H4'	21:B3:75:G:OP1	2.18	0.43
23:BB:301:LYS:HD3	23:BB:359:THR:CG2	2.49	0.43
23:BB:56:ILE:O	23:BB:73:VAL:HA	2.18	0.43
1:A1:718:A:C2'	24:BC:242:ASN:HD21	2.32	0.43
25:BD:32:LYS:HB3	25:BD:119:SER:O	2.19	0.43
25:BD:12:VAL:HG23	25:BD:12:VAL:O	2.18	0.43
27:BF:145:VAL:HG13	27:BF:173:VAL:CG2	2.49	0.43
29:BH:156:LYS:O	29:BH:159:PHE:HB2	2.18	0.43
32:BK:148:THR:CG2	32:BK:149:ALA:H	2.32	0.43
16:AQ:49:THR:HG23	33:BL:16:SER:CB	2.49	0.43
1:A1:301:A:C5'	33:BL:180:ARG:HH22	2.32	0.43
33:BL:192:TRP:CZ2	33:BL:196:GLN:HG3	2.54	0.43
34:BM:110:LEU:CD1	34:BM:169:GLY:O	2.66	0.43
34:BM:60:ILE:HD13	34:BM:98:ALA:HB2	2.01	0.43
35:BN:174:PHE:C	35:BN:176:ARG:N	2.69	0.43
37:BP:102:LYS:HA	37:BP:102:LYS:HD3	1.58	0.43
34:BM:30:TYR:CD1	37:BP:27:ILE:HD11	2.54	0.43
40:BS:49:VAL:HG12	40:BS:50:ARG:N	2.34	0.43
43:BV:103:PHE:CZ	43:BV:124:ILE:CG1	3.02	0.43
20:C2:130:C:O2'	39:CR:64:HIS:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:44:A:OP1	2:DA:68:MET:CG	2.67	0.43
20:C2:76:U:H5'	20:C2:77:U:OP2	2.19	0.43
22:CA:187:PHE:HB2	22:CA:197:TRP:CZ3	2.54	0.43
23:CB:93:ILE:CD1	23:CB:102:LEU:HD13	2.48	0.43
23:CB:250:ILE:CG1	1:D1:2388:G:H4'	2.49	0.43
27:CF:103:ARG:HG2	27:CF:104:LEU:N	2.25	0.43
30:CI:68:GLY:HA2	1:D1:2378:A:O3'	2.19	0.43
32:CK:48:GLU:OE1	32:CK:48:GLU:CA	2.53	0.43
34:CM:132:VAL:HG12	34:CM:132:VAL:O	2.18	0.43
35:CN:146:ARG:HB3	35:CN:149:TYR:HD2	1.82	0.43
37:CP:15:PHE:N	37:CP:15:PHE:HD1	2.17	0.43
43:CV:128:LEU:N	43:CV:129:PRO:CD	2.82	0.43
1:D1:1039:G:O2'	1:D1:1041:C:N4	2.37	0.43
1:D1:1041:C:O2	1:D1:1041:C:C2'	2.64	0.43
1:D1:1046:G:H2'	1:D1:1047:G:C8	2.54	0.43
1:D1:1316:G:H5''	1:D1:1316:G:H8	1.84	0.43
1:D1:1370:A:N3	1:D1:1389:G:C2	2.87	0.43
1:D1:1393:A:H2'	1:D1:1394:G:C8	2.54	0.43
1:D1:1954:A:H4'	1:D1:1955:U:OP1	2.18	0.43
1:D1:2690:U:H5'	1:D1:2694:A:N6	2.33	0.43
1:D1:29:C:C2'	1:D1:30:U:H5'	2.48	0.43
1:D1:3086:U:H2'	1:D1:3087:G:C8	2.54	0.43
1:D1:3127:U:O2'	1:D1:3128:G:H5''	2.16	0.43
1:D1:3175:A:N1	1:D1:3177:G:N1	2.67	0.43
43:CV:63:LYS:HZ1	1:D1:563:G:P	2.41	0.43
1:D1:619:G:O2'	1:D1:620:A:C2	2.71	0.43
1:D1:827:C:H2'	1:D1:828:C:H6	1.84	0.43
1:D1:914:U:H2'	1:D1:915:C:O4'	2.19	0.43
1:D1:90:G:OP2	1:D1:91:C:H5''	2.19	0.43
1:D1:623:G:H22	5:DE:30:ARG:NH1	2.16	0.43
6:DF:14:TYR:CE1	6:DF:90:PHE:HE2	2.37	0.43
9:DJ:117:ILE:HD13	9:DJ:137:VAL:HG11	2.01	0.43
11:DL:21:ARG:HG2	11:DL:22:LYS:N	2.29	0.43
1:D1:1657:C:C5	13:DN:17:ARG:NH2	2.86	0.43
1:D1:114:A:C5'	16:DQ:37:ARG:HH22	2.29	0.43
1:D1:820:G:H21	18:DU:5:ASN:ND2	2.15	0.43
19:DX:161:LEU:HD12	19:DX:161:LEU:HA	1.43	0.43
20:E2:76:U:H5'	20:E2:77:U:OP2	2.17	0.43
21:E3:48:G:O2'	34:EM:227:GLN:HG3	2.19	0.43
21:E3:65:G:H2'	21:E3:66:G:O4'	2.19	0.43
23:EB:103:THR:CG2	23:EB:104:THR:H	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:301:LYS:HG2	23:EB:359:THR:HG21	2.01	0.43
23:EB:332:ARG:HB2	23:EB:332:ARG:HH11	1.82	0.43
24:EC:127:HIS:CD2	24:EC:286:GLN:OE1	2.72	0.43
24:EC:330:LEU:HA	24:EC:330:LEU:HD23	1.76	0.43
26:EE:132:ILE:HG23	26:EE:144:LEU:HD21	2.01	0.43
28:EG:28:UNK:N	28:EG:112:UNK:O	2.51	0.43
29:EH:34:TYR:CE1	29:EH:92:HIS:CE1	3.07	0.43
29:EH:3:ARG:HH12	29:EH:63:GLU:HB2	1.83	0.43
30:EI:45:SER:HB2	30:EI:48:ARG:H	1.84	0.43
33:EL:180:ARG:HG2	33:EL:180:ARG:H	1.56	0.43
34:EM:157:ASN:OD1	34:EM:158:ARG:N	2.52	0.43
34:EM:212:TYR:CE2	34:EM:227:GLN:NE2	2.87	0.43
34:EM:27:LEU:HA	34:EM:27:LEU:HD23	1.79	0.43
36:EO:28:GLU:CB	36:EO:49:LEU:HD13	2.49	0.43
39:ER:84:MET:HA	39:ER:89:THR:O	2.19	0.43
43:EV:124:ILE:HG22	43:EV:128:LEU:HD23	2.01	0.43
43:EV:80:VAL:HG22	43:EV:188:VAL:HG21	1.99	0.43
44:EW:4:GLN:HE21	44:EW:76:LYS:HZ1	1.66	0.43
1:F1:1038:G:O2'	1:F1:1039:G:H5'	2.19	0.43
1:F1:1108:A:N3	1:F1:1108:A:H2'	2.34	0.43
1:F1:12:A:H2'	1:F1:13:C:C6	2.54	0.43
1:F1:1440:A:C6	1:F1:1441:U:C4	3.07	0.43
1:F1:1497:U:C2	1:F1:1498:U:C5	3.07	0.43
1:F1:159:G:C4	1:F1:160:G:C8	3.06	0.43
1:F1:2343:A:H2'	1:F1:2344:U:H5''	2.01	0.43
27:EF:35:ILE:HD12	1:F1:2549:U:H5'	2.01	0.43
1:F1:2613:G:N2	1:F1:2615:A:H2	2.13	0.43
1:F1:2817:U:H2'	1:F1:2818:G:H5'	2.01	0.43
23:EB:264:ARG:NH1	1:F1:2976:C:O2	2.51	0.43
1:F1:3144:G:OP1	1:F1:3144:G:H4'	2.18	0.43
1:F1:399:A:N3	1:F1:400:C:N3	2.67	0.43
1:F1:462:G:H2'	1:F1:463:U:H6	1.81	0.43
1:F1:627:U:O2	1:F1:630:G:C6	2.71	0.43
1:F1:707:A:H2'	1:F1:708:G:O4'	2.19	0.43
1:F1:742:U:O4	17:FT:61:LYS:HB3	2.18	0.43
46:EY:10:ILE:HG23	1:F1:862:A:H4'	1.99	0.43
1:F1:970:C:C2	1:F1:971:C:C6	3.07	0.43
1:F1:439:A:C5'	5:FE:126:HIS:HD1	2.31	0.43
13:FN:142:LEU:HD12	13:FN:143:ARG:H	1.84	0.43
13:FN:31:ASP:N	13:FN:31:ASP:OD1	2.45	0.43
13:FN:54:THR:HG22	13:FN:55:LYS:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FN:26:VAL:HG22	13:FN:93:PHE:HB3	1.99	0.43
18:FU:177:VAL:HG12	18:FU:181:ILE:HD11	2.01	0.43
24:EC:380:PHE:CZ	19:FX:78:ILE:HD13	2.53	0.43
23:GB:278:LYS:HB3	23:GB:322:ILE:CG2	2.49	0.43
24:GC:164:GLU:OE1	24:GC:218:ASN:HB2	2.17	0.43
24:GC:99:ASN:HD21	1:H1:828:C:H4'	1.83	0.43
27:GF:41:LEU:HA	27:GF:41:LEU:HD23	1.84	0.43
29:GH:84:ALA:O	29:GH:140:VAL:HG13	2.19	0.43
29:GH:44:GLU:OE1	29:GH:44:GLU:HA	2.18	0.43
30:GI:109:THR:CG2	30:GI:110:PRO:CD	2.87	0.43
30:GI:27:LEU:HD23	30:GI:27:LEU:HA	1.80	0.43
30:GI:59:LYS:O	30:GI:71:HIS:CE1	2.71	0.43
34:GM:157:ASN:OD1	34:GM:158:ARG:N	2.52	0.43
34:GM:99:TYR:CG	34:GM:204:ILE:HG23	2.53	0.43
35:GN:91:GLU:HG3	35:GN:91:GLU:H	1.41	0.43
37:GP:105:LEU:HD23	37:GP:105:LEU:HA	1.87	0.43
37:GP:15:PHE:HE2	37:GP:52:MET:CE	2.32	0.43
38:GQ:133:ARG:CG	38:GQ:139:ASN:ND2	2.56	0.43
43:GV:107:GLN:HE22	43:GV:203:LYS:HE2	1.84	0.43
43:GV:124:ILE:HG22	43:GV:128:LEU:HD23	2.01	0.43
43:GV:195:ALA:O	43:GV:198:PHE:HB3	2.19	0.43
1:H1:1173:A:C2	1:H1:1174:G:C5	3.07	0.43
1:H1:997:G:C5'	1:H1:1399:A:O2'	2.67	0.43
1:H1:1519:G:C2	3:HB:13:PHE:CE1	3.06	0.43
1:H1:1595:A:C5	1:H1:1596:U:C1'	2.94	0.43
1:H1:1660:U:H5''	13:HN:73:LYS:HZ1	1.84	0.43
40:GS:45:ARG:NH2	1:H1:189:G:OP2	2.50	0.43
1:H1:222:A:C6	1:H1:223:C:C4	3.07	0.43
1:H1:2263:U:C5'	1:H1:2264:U:OP1	2.66	0.43
1:H1:170:A:N6	1:H1:249:G:H1'	2.27	0.43
1:H1:2576:C:C2'	1:H1:2577:G:C5'	2.90	0.43
23:GB:240:THR:HG23	1:H1:2936:C:H4'	2.00	0.43
33:GL:15:GLN:CD	1:H1:294:A:OP1	2.58	0.43
1:H1:3283:C:H2'	1:H1:3284:G:C8	2.54	0.43
1:H1:524:G:H8	1:H1:524:G:O5'	2.00	0.43
1:H1:684:A:N1	1:H1:966:G:O2'	2.42	0.43
1:H1:738:U:C2'	1:H1:739:G:H5'	2.49	0.43
2:HA:25:ALA:HB1	3:HB:52:TYR:CD2	2.54	0.43
5:HE:124:LYS:HB3	5:HE:130:PHE:HA	2.00	0.43
6:HF:27:ILE:CD1	6:HF:36:ILE:HD12	2.48	0.43
7:HG:14:LEU:O	7:HG:18:MET:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:111:ASN:HD22	9:HJ:156:ASN:HA	1.83	0.43
9:HJ:111:ASN:C	9:HJ:111:ASN:OD1	2.58	0.43
9:HJ:14:GLY:N	9:HJ:195:ALA:O	2.52	0.43
18:HU:60:THR:HG22	18:HU:62:ARG:H	1.83	0.43
37:GP:145:VAL:CG2	19:HX:40:GLN:OE1	2.61	0.43
1:A1:1048:U:C4	1:A1:1049:U:C5	3.07	0.43
1:A1:1109:A:C4'	1:A1:1110:U:O5'	2.62	0.43
1:A1:1309:G:H5'	28:BG:59:UNK:CB	2.46	0.43
1:A1:174:A:N1	1:A1:246:G:C4	2.86	0.43
1:A1:1808:A:H2'	1:A1:1809:C:H6	1.84	0.43
1:A1:1902:C:C2'	1:A1:1903:A:H5''	2.49	0.43
1:A1:1950:C:H2'	46:BY:7:LYS:CE	2.46	0.43
1:A1:2228:A:N7	1:A1:2229:G:N7	2.67	0.43
1:A1:2290:A:C6	1:A1:2291:A:C6	3.07	0.43
1:A1:2504:U:H2'	1:A1:2505:U:C6	2.53	0.43
1:A1:2731:C:H4'	4:AC:18:HIS:CD2	2.54	0.43
1:A1:2907:A:H5''	1:A1:2907:A:H8	1.84	0.43
1:A1:359:G:H2'	1:A1:360:A:C8	2.53	0.43
1:A1:545:A:H2'	1:A1:546:A:H8	1.84	0.43
1:A1:591:G:O2'	1:A1:592:A:O5'	2.31	0.43
1:A1:63:A:H5''	1:A1:64:A:H4'	2.00	0.43
1:A1:9:G:O2'	1:A1:1587:A:N6	2.52	0.43
2:AA:21:ARG:NH2	2:AA:42:ALA:HA	2.33	0.43
5:AE:125:ASN:OD1	5:AE:125:ASN:C	2.57	0.43
9:AJ:49:ILE:HD11	9:AJ:88:LEU:HD13	2.01	0.43
11:AL:56:ILE:HG23	11:AL:71:ALA:O	2.19	0.43
5:AE:19:TYR:CD2	14:AO:108:LEU:HB3	2.50	0.43
14:AO:29:PHE:HB2	14:AO:41:GLY:HA3	2.01	0.43
1:A1:104:U:H5''	18:AU:37:ARG:HH22	1.84	0.43
19:AX:44:PHE:CD2	19:AX:117:VAL:HG21	2.54	0.43
2:AA:71:ILE:CD1	20:B2:38:C:H4'	2.46	0.43
23:BB:93:ILE:CD1	23:BB:102:LEU:HD22	2.45	0.43
23:BB:50:LYS:NZ	23:BB:328:GLY:O	2.43	0.43
24:BC:102:ARG:O	24:BC:103:LYS:HB2	2.19	0.43
27:BF:69:GLN:HE21	27:BF:222:ARG:HH12	1.66	0.43
27:BF:220:GLU:O	27:BF:224:THR:N	2.52	0.43
27:BF:30:ARG:HD2	27:BF:31:VAL:H	1.83	0.43
29:BH:49:VAL:HA	29:BH:138:VAL:O	2.19	0.43
30:BI:184:PRO:HA	30:BI:187:LYS:HE2	1.99	0.43
30:BI:35:VAL:HG11	30:BI:107:ILE:HG23	2.01	0.43
1:A1:301:A:H5'	33:BL:180:ARG:HH22	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:125:VAL:HG23	34:BM:201:LYS:CE	2.48	0.43
34:BM:76:CYS:HB3	34:BM:105:LEU:CD1	2.49	0.43
35:BN:89:ASN:ND2	35:BN:109:THR:HG22	2.25	0.43
35:BN:88:THR:HG22	35:BN:107:THR:CG2	2.49	0.43
36:BO:115:ILE:HG22	36:BO:119:GLN:HB3	2.01	0.43
36:BO:18:GLY:O	36:BO:19:GLN:C	2.58	0.43
39:BR:55:VAL:HG23	42:BU:83:ASP:CB	2.49	0.43
39:BR:52:SER:CB	39:BR:58:HIS:HB2	2.49	0.43
40:BS:3:THR:O	40:BS:3:THR:CG2	2.66	0.43
43:BV:100:LEU:HA	43:BV:100:LEU:HD23	1.60	0.43
1:A1:3048:A:H5''	44:BW:68:ARG:HH22	1.84	0.43
20:C2:105:A:OP2	20:C2:106:A:H2'	2.19	0.43
20:C2:67:C:H5''	20:C2:67:C:H6	1.84	0.43
22:CA:68:TYR:C	22:CA:69:ARG:CG	2.87	0.43
23:CB:114:THR:CG2	23:CB:115:LYS:N	2.82	0.43
24:CC:133:LEU:HD23	24:CC:133:LEU:HA	1.88	0.43
24:CC:388:ILE:O	24:CC:391:ALA:HB3	2.18	0.43
28:CG:57:UNK:HG3	28:CG:58:UNK:N	2.32	0.43
29:CH:190:LEU:HD22	29:CH:197:VAL:CG1	2.49	0.43
29:CH:22:TYR:CZ	1:D1:1074:A:H2'	2.54	0.43
30:CI:13:HIS:HA	30:CI:122:ALA:O	2.19	0.43
30:CI:35:VAL:CG1	30:CI:36:ARG:N	2.82	0.43
32:CK:76:ASN:HB3	32:CK:78:ASP:OD1	2.18	0.43
33:CL:180:ARG:HH22	1:D1:301:A:C5'	2.32	0.43
35:CN:138:PHE:CE2	35:CN:140:LEU:HD13	2.54	0.43
35:CN:26:TYR:CE1	14:DO:4:LEU:HD11	2.54	0.43
35:CN:73:ASN:OD1	35:CN:74:GLU:OE1	2.37	0.43
40:CS:31:SER:CB	40:CS:48:PRO:HA	2.48	0.43
42:CU:35:ALA:HB1	42:CU:44:LYS:HD3	2.01	0.43
43:CV:107:GLN:NE2	43:CV:203:LYS:HE2	2.33	0.43
1:D1:1073:A:C2'	1:D1:1074:A:O5'	2.67	0.43
1:D1:1175:G:H2'	1:D1:1176:G:C5'	2.49	0.43
1:D1:136:C:C2'	1:D1:137:A:H5'	2.49	0.43
1:D1:997:G:H4'	1:D1:1399:A:O2'	2.19	0.43
1:D1:1465:U:C2	1:D1:1466:G:C8	3.07	0.43
1:D1:148:G:O2'	1:D1:149:U:C6	2.67	0.43
1:D1:1539:G:H2'	1:D1:1541:U:C5	2.53	0.43
1:D1:156:A:P	16:DQ:27:ALA:HB3	2.59	0.43
1:D1:1592:G:H2'	1:D1:1593:A:O4'	2.19	0.43
1:D1:1595:A:H3'	1:D1:1596:U:C6	2.53	0.43
1:D1:1661:A:H5''	13:DN:15:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:169:A:C6	1:D1:251:A:C6	3.06	0.43
1:D1:1839:A:O2'	1:D1:1840:U:C6	2.72	0.43
1:D1:1909:C:H5''	1:D1:3266:G:C2	2.54	0.43
1:D1:2353:C:H3'	1:D1:2354:C:C6	2.54	0.43
1:D1:2508:U:H2'	1:D1:2581:G:N1	2.32	0.43
1:D1:2519:A:O2'	1:D1:2520:G:H5'	2.18	0.43
1:D1:2769:U:H2'	1:D1:2770:U:O4'	2.18	0.43
1:D1:284:U:O2	1:D1:284:U:H2'	2.19	0.43
1:D1:3100:U:C2'	1:D1:3101:G:C5'	2.97	0.43
1:D1:3122:C:H2'	1:D1:3123:A:O4'	2.18	0.43
1:D1:3197:A:OP2	1:D1:3213:G:N1	2.46	0.43
1:D1:3234:U:O4	1:D1:3236:C:C5	2.71	0.43
1:D1:3340:U:H2'	1:D1:3341:C:C6	2.53	0.43
1:D1:368:A:C5'	1:D1:369:U:OP1	2.66	0.43
43:CV:64:ARG:HD3	1:D1:565:G:C6	2.54	0.43
1:D1:790:C:C2'	1:D1:790:C:O2	2.62	0.43
1:D1:966:G:H2'	1:D1:967:U:H5'	2.01	0.43
9:DJ:46:ILE:HD11	9:DJ:202:TRP:CZ2	2.53	0.43
12:DM:79:LYS:HB2	12:DM:105:TYR:CE2	2.54	0.43
16:DQ:5:GLN:O	16:DQ:12:GLY:CA	2.66	0.43
1:D1:742:U:O4	17:DT:61:LYS:CB	2.67	0.43
19:DX:42:ARG:NE	19:DX:44:PHE:HE1	2.15	0.43
21:E3:120:U:O2'	34:EM:265:LYS:NZ	2.42	0.43
21:E3:90:A:H8	21:E3:90:A:O5'	2.02	0.43
23:EB:294:THR:CG2	23:EB:295:ALA:N	2.77	0.43
24:EC:100:GLN:HG2	24:EC:100:GLN:H	1.14	0.43
24:EC:163:VAL:CA	24:EC:166:TYR:CD2	2.99	0.43
29:EH:193:ASP:OD1	29:EH:198:LYS:HE3	2.19	0.43
29:EH:41:ALA:HB3	29:EH:139:ARG:HH21	1.82	0.43
30:EI:35:VAL:CG1	30:EI:107:ILE:HG12	2.48	0.43
31:EJ:57:SER:O	31:EJ:58:ILE:C	2.57	0.43
31:EJ:91:ARG:O	31:EJ:93:ASP:N	2.52	0.43
32:EK:99:VAL:CG2	32:EK:122:PRO:HB2	2.49	0.43
34:EM:135:ASP:OD1	34:EM:135:ASP:O	2.37	0.43
35:EN:89:ASN:OD1	35:EN:90:ASP:C	2.57	0.43
37:EP:29:ARG:H	37:EP:29:ARG:HG3	1.54	0.43
37:EP:42:ILE:CD1	37:EP:91:VAL:HG21	2.49	0.43
38:EQ:38:ILE:CD1	38:EQ:93:ILE:HG21	2.42	0.43
41:ET:14:ARG:NH1	9:HJ:44:PRO:CG	2.82	0.43
42:EU:20:GLY:O	42:EU:24:LYS:HG3	2.18	0.43
42:EU:36:LYS:HE3	42:EU:48:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:EV:195:ALA:O	43:EV:198:PHE:HB3	2.19	0.43
45:EX:27:PHE:CE1	50:EX:202:HOH:O	2.56	0.43
1:F1:1167:G:H2'	1:F1:1168:C:C6	2.50	0.43
1:F1:1315:U:H2'	1:F1:1316:G:H5''	2.00	0.43
1:F1:1382:A:C4'	1:F1:1383:G:O5'	2.64	0.43
1:F1:1402:G:C2	1:F1:1403:C:C5	3.07	0.43
1:F1:1428:G:C2	1:F1:1429:C:C6	3.07	0.43
1:F1:1926:G:C2	1:F1:1927:U:H1'	2.54	0.43
1:F1:2250:A:O2'	1:F1:2254:A:C2	2.71	0.43
1:F1:2659:G:H2'	1:F1:2660:A:H8	1.78	0.43
1:F1:2678:A:H5'	1:F1:2679:G:C8	2.54	0.43
1:F1:2827:G:C2'	1:F1:2828:A:H5'	2.48	0.43
1:F1:3151:G:H2'	1:F1:3152:A:C8	2.53	0.43
1:F1:807:G:H2'	1:F1:808:A:O4'	2.18	0.43
1:F1:977:A:C2'	1:F1:978:G:H5''	2.46	0.43
27:EF:50:TYR:CD2	1:F1:9:G:H1'	2.54	0.43
2:FA:11:ARG:H	2:FA:11:ARG:HG3	1.64	0.43
5:FE:98:THR:HG21	5:FE:173:TYR:OH	2.19	0.43
5:FE:42:ARG:HG2	5:FE:92:GLN:NE2	2.33	0.43
30:EI:196:PHE:HZ	6:FF:107:ASP:HA	1.84	0.43
6:FF:106:PHE:HD2	6:FF:110:ARG:HH21	1.66	0.43
1:F1:1614:A:C6	11:FL:13:TYR:CE2	3.07	0.43
1:F1:1618:A:H4'	11:FL:62:ALA:HB1	2.01	0.43
19:FX:28:LEU:HD13	19:FX:70:GLY:O	2.19	0.43
20:G2:87:C:O4'	20:G2:87:C:O2	2.35	0.43
21:G3:27:A:H2'	21:G3:28:C:H6	1.81	0.43
21:G3:65:G:H2'	21:G3:66:G:O4'	2.19	0.43
24:GC:129:VAL:HG13	24:GC:246:LEU:HD12	2.01	0.43
26:GE:82:VAL:HG12	26:GE:82:VAL:O	2.19	0.43
27:GF:232:GLN:NE2	1:H1:2573:U:C4'	2.62	0.43
27:GF:45:VAL:CG1	27:GF:46:ARG:N	2.81	0.43
33:GL:122:GLY:O	33:GL:129:PHE:HD1	2.01	0.43
34:GM:140:LYS:HD3	1:H1:1108:A:OP2	2.19	0.43
34:GM:153:THR:O	34:GM:153:THR:CG2	2.67	0.43
21:G3:10:C:N3	34:GM:20:TYR:HD1	2.17	0.43
35:GN:146:ARG:CB	35:GN:149:TYR:CD2	3.02	0.43
36:GO:12:ALA:N	36:GO:22:LEU:HD11	2.34	0.43
43:GV:134:GLY:HA3	43:GV:231:ILE:CG2	2.48	0.43
43:GV:231:ILE:O	43:GV:235:VAL:HG23	2.18	0.43
32:GK:21:ARG:NH1	45:GX:40:ILE:HG22	2.30	0.43
1:H1:1052:A:H2	1:H1:1053:A:C6	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1104:C:C6	17:HT:42:ASN:OD1	2.72	0.43
24:GC:145:ARG:NH2	1:H1:1410:G:O3'	2.47	0.43
1:H1:1460:G:P	50:H1:3771:HOH:O	2.77	0.43
1:H1:1595:A:H3'	1:H1:1596:U:C6	2.54	0.43
1:H1:1598:C:C5	1:H1:1599:G:C8	3.07	0.43
1:H1:1652:U:H4'	1:H1:1655:A:H5'	2.01	0.43
1:H1:1845:U:C5'	1:H1:1846:C:OP2	2.67	0.43
1:H1:1891:A:H2'	1:H1:1892:G:C8	2.54	0.43
22:GA:55:ARG:NH2	1:H1:2171:U:OP1	2.50	0.43
1:H1:2215:C:H2'	1:H1:2216:G:O4'	2.19	0.43
1:H1:2239:A:C2'	1:H1:2240:C:H5'	2.49	0.43
1:H1:2545:A:H2'	11:HL:47:ALA:HB3	2.01	0.43
1:H1:2700:A:H2'	1:H1:2701:U:C6	2.53	0.43
1:H1:2804:G:C8	1:H1:2858:C:OP2	2.72	0.43
1:H1:2907:A:C5'	1:H1:2907:A:C8	2.98	0.43
1:H1:2920:U:H1'	1:H1:2923:U:C4	2.53	0.43
1:H1:3042:G:C6	1:H1:3043:U:C4	3.07	0.43
1:H1:3073:U:C2'	1:H1:3074:G:H5'	2.49	0.43
1:H1:3132:A:C2'	1:H1:3133:G:OP1	2.67	0.43
1:H1:3137:U:O2'	1:H1:3138:G:H5'	2.19	0.43
1:H1:3215:C:H2'	1:H1:3216:C:C6	2.54	0.43
1:H1:81:C:H2'	1:H1:82:C:O4'	2.19	0.43
1:H1:1517:G:H5''	2:HA:14:LYS:HD2	2.00	0.43
11:HL:15:THR:HG22	11:HL:17:SER:H	1.83	0.43
14:HO:29:PHE:HA	14:HO:48:VAL:O	2.19	0.43
14:HO:62:LEU:HD11	14:HO:97:ARG:NE	2.33	0.43
32:GK:129:TYR:HE2	16:HQ:7:VAL:HG21	1.83	0.43
19:HX:108:TYR:CZ	19:HX:120:LEU:HA	2.53	0.43
19:HX:3:ARG:O	19:HX:19:ARG:NH2	2.51	0.43
1:A1:1053:A:C2'	1:A1:1054:G:OP2	2.67	0.42
1:A1:1466:G:O2'	1:A1:1467:G:H5'	2.19	0.42
1:A1:1601:U:O2'	1:A1:1602:U:H5'	2.19	0.42
1:A1:1642:G:C2	1:A1:1852:A:C2	3.07	0.42
1:A1:1966:U:H2'	1:A1:1967:C:O5'	2.19	0.42
1:A1:2099:C:OP1	36:BO:81:ARG:NH1	2.52	0.42
1:A1:2162:A:H1'	33:BL:74:PRO:HA	2.01	0.42
1:A1:2187:C:H2'	1:A1:2188:U:C5'	2.48	0.42
1:A1:2545:A:N3	22:BA:86:GLY:CA	2.81	0.42
1:A1:263:A:C4	16:AQ:30:ARG:NH1	2.86	0.42
1:A1:2762:U:O2	1:A1:2762:U:H2'	2.18	0.42
1:A1:2801:A:N6	1:A1:2802:G:C6	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2847:U:H4'	1:A1:2848:U:O5'	2.15	0.42
1:A1:2849:U:H3'	1:A1:2850:U:H6	1.84	0.42
1:A1:3069:G:OP2	44:BW:64:ARG:NH1	2.43	0.42
1:A1:3157:C:H4'	1:A1:3158:G:O5'	2.15	0.42
1:A1:389:G:C6	1:A1:390:G:C4	3.06	0.42
1:A1:632:G:C5	1:A1:633:C:C4	3.07	0.42
1:A1:697:A:H5'	35:BN:57:ARG:NH1	2.33	0.42
6:AF:7:VAL:HG22	6:AF:55:LEU:HD21	2.00	0.42
9:AJ:188:ARG:O	9:AJ:188:ARG:HG3	2.18	0.42
9:AJ:46:ILE:HG22	9:AJ:47:PRO:O	2.19	0.42
11:AL:83:CYS:O	11:AL:87:VAL:HG23	2.19	0.42
14:AO:124:ASN:O	14:AO:128:GLU:HG3	2.19	0.42
14:AO:13:ASN:ND2	14:AO:16:LEU:HB2	2.34	0.42
16:AQ:42:ARG:HA	33:BL:9:GLU:OE1	2.19	0.42
2:AA:68:MET:HE1	20:B2:38:C:O4'	2.19	0.42
1:A1:2989:G:N2	23:BB:118:PHE:CE2	2.70	0.42
23:BB:230:ARG:HG2	23:BB:231:PHE:CE1	2.54	0.42
23:BB:294:THR:HB	23:BB:297:ASP:H	1.84	0.42
23:BB:82:PRO:HA	23:BB:83:PRO:HD3	1.89	0.42
1:A1:2662:A:H4'	25:BD:103:GLY:C	2.39	0.42
27:BF:45:VAL:HB	27:BF:47:TRP:CZ2	2.54	0.42
28:BG:109:UNK:O	28:BG:112:UNK:HB2	2.19	0.42
33:BL:184:LEU:CD2	33:BL:188:ARG:HD2	2.48	0.42
35:BN:174:PHE:C	35:BN:176:ARG:H	2.22	0.42
38:BQ:61:PRO:HG2	38:BQ:78:PHE:CD1	2.54	0.42
40:BS:30:MET:HB3	40:BS:30:MET:HE2	1.81	0.42
20:C2:10:U:H2'	20:C2:11:C:H6	1.81	0.42
21:C3:39:U:C2	25:CD:46:VAL:CG2	3.02	0.42
22:CA:210:HIS:HA	22:CA:211:PRO:HD3	1.93	0.42
23:CB:22:THR:OG1	23:CB:271:HIS:HA	2.18	0.42
23:CB:294:THR:CG2	23:CB:354:LEU:O	2.67	0.42
24:CC:195:ARG:HH11	24:CC:204:ARG:CB	2.31	0.42
24:CC:380:PHE:HD2	24:CC:381:ASN:OD1	2.02	0.42
27:CF:155:LEU:HD23	33:CL:7:LEU:HD11	2.01	0.42
27:CF:45:VAL:CG1	27:CF:46:ARG:N	2.82	0.42
30:CI:107:ILE:HG13	30:CI:159:ARG:HH12	1.82	0.42
34:CM:54:ARG:CZ	34:CM:149:GLY:HA3	2.49	0.42
35:CN:38:VAL:HG13	35:CN:47:GLN:HG2	2.00	0.42
38:CQ:113:ASN:O	38:CQ:154:GLU:HA	2.19	0.42
42:CU:42:ALA:HA	42:CU:45:LEU:HG	1.99	0.42
42:CU:81:PRO:HG2	42:CU:84:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:145:ILE:HD12	43:CV:182:ILE:HG12	1.99	0.42
44:CW:43:MET:HG3	44:CW:90:THR:CG2	2.49	0.42
1:D1:1147:A:H2'	1:D1:1148:U:C6	2.54	0.42
27:CF:131:HIS:CD2	1:D1:117:G:C2	3.07	0.42
1:D1:1211:A:C2	1:D1:1350:G:C4	3.07	0.42
1:D1:1350:G:H4'	19:DX:16:MET:SD	2.59	0.42
1:D1:139:A:O2'	1:D1:140:A:H8	2.02	0.42
1:D1:1415:C:O2	1:D1:1415:C:C2'	2.67	0.42
1:D1:1738:A:C8	1:D1:1752:G:C2	3.06	0.42
1:D1:2146:G:H5''	50:D1:4659:HOH:O	2.18	0.42
1:D1:2391:G:H5'	1:D1:2392:A:C4'	2.41	0.42
1:D1:2432:G:N2	1:D1:2506:G:H1'	2.34	0.42
1:D1:307:A:C2	1:D1:2770:U:O2	2.72	0.42
23:CB:119:TYR:HE1	1:D1:3255:A:C5'	2.32	0.42
1:D1:436:U:H2'	1:D1:437:A:H5'	2.01	0.42
1:D1:609:A:C2	1:D1:610:A:C5	3.07	0.42
1:D1:635:A:HO2'	1:D1:636:U:P	2.30	0.42
1:D1:775:C:C2'	1:D1:775:C:O2	2.62	0.42
1:D1:840:G:C2	1:D1:951:A:C2	3.07	0.42
5:DE:122:ALA:CB	5:DE:132:ALA:HB1	2.48	0.42
8:DH:18:ALA:HB2	8:DH:39:LEU:HD22	2.00	0.42
9:DJ:118:HIS:HA	9:DJ:119:PRO:HD2	1.83	0.42
9:DJ:158:GLY:HA2	9:DJ:179:ILE:HD12	2.00	0.42
13:DN:81:MET:SD	13:DN:82:PRO:HD2	2.59	0.42
14:DO:118:ASN:OD1	14:DO:122:GLN:NE2	2.52	0.42
17:DT:59:LEU:HD12	17:DT:59:LEU:HA	1.70	0.42
19:DX:187:THR:CG2	19:DX:188:THR:N	2.82	0.42
20:E2:17:U:H5''	20:E2:18:G:OP2	2.19	0.42
22:EA:205:MET:HE2	22:EA:209:ASP:CB	2.44	0.42
23:EB:137:PHE:C	23:EB:137:PHE:CD1	2.92	0.42
24:EC:69:ALA:HB1	24:EC:96:ALA:CB	2.49	0.42
24:EC:99:ASN:HD21	1:F1:828:C:H4'	1.82	0.42
26:EE:139:LYS:O	26:EE:140:ASN:HB2	2.20	0.42
31:EJ:35:ALA:HB1	31:EJ:66:VAL:HG11	2.01	0.42
33:EL:16:SER:HB3	16:FQ:49:THR:CG2	2.48	0.42
33:EL:33:LEU:HB3	33:EL:34:PRO:HD2	2.00	0.42
34:EM:164:LYS:HA	34:EM:167:CYS:SG	2.59	0.42
35:EN:167:VAL:HG13	35:EN:169:SER:O	2.19	0.42
35:EN:62:PRO:O	35:EN:142:ALA:HB1	2.18	0.42
36:EO:115:ILE:CG2	36:EO:119:GLN:HB3	2.48	0.42
37:EP:101:VAL:HG22	1:F1:1016:U:H1'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:EQ:39:LYS:HE2	38:EQ:119:GLY:N	2.26	0.42
40:ES:51:LYS:O	40:ES:51:LYS:HG3	2.18	0.42
42:EU:53:LYS:O	42:EU:57:LYS:HG3	2.19	0.42
42:EU:7:VAL:HG13	42:EU:61:ILE:HD11	2.00	0.42
42:EU:66:ARG:O	42:EU:69:ALA:HB3	2.18	0.42
43:EV:37:ARG:O	43:EV:38:LYS:C	2.56	0.42
46:EY:55:TRP:CD1	46:EY:66:GLY:HA3	2.54	0.42
1:F1:1222:A:C2	1:F1:1336:U:C4	3.08	0.42
1:F1:1215:U:C2	1:F1:1344:A:N6	2.87	0.42
1:F1:1370:A:C2	1:F1:1389:G:N1	2.87	0.42
1:F1:1394:G:O2'	1:F1:1395:U:H6	2.02	0.42
1:F1:141:C:H6	1:F1:141:C:O5'	2.02	0.42
1:F1:1427:G:H2'	1:F1:1428:G:O5'	2.18	0.42
1:F1:1531:C:C4	1:F1:1532:A:N7	2.87	0.42
1:F1:1617:G:H4'	1:F1:1618:A:OP1	2.18	0.42
36:EO:42:ARG:HH21	1:F1:1626:U:P	2.42	0.42
1:F1:2180:G:O2'	50:F1:4076:HOH:O	2.22	0.42
1:F1:2251:A:OP2	1:F1:2254:A:N1	2.52	0.42
1:F1:2290:A:C6	1:F1:2291:A:C6	3.07	0.42
40:ES:3:THR:CB	1:F1:229:A:H5''	2.49	0.42
1:F1:2358:A:N1	1:F1:2359:G:C6	2.87	0.42
1:F1:2873:C:C4	1:F1:2874:U:O4	2.72	0.42
1:F1:3294:A:H2'	1:F1:3295:G:H5'	2.01	0.42
1:F1:581:C:H2'	1:F1:582:A:C4'	2.48	0.42
1:F1:68:A:H1'	1:F1:70:C:H41	1.84	0.42
1:F1:723:U:O3'	1:F1:724:C:H6	2.02	0.42
1:F1:765:A:C6	1:F1:766:G:C2	3.07	0.42
1:F1:914:U:H2'	1:F1:915:C:O4'	2.19	0.42
2:FA:4:GLY:O	2:FA:7:ALA:HB3	2.19	0.42
8:FH:13:ARG:CG	8:FH:15:TRP:CE3	2.95	0.42
10:FK:84:ALA:O	10:FK:88:LYS:HG3	2.18	0.42
16:FQ:2:ALA:CB	16:FQ:5:GLN:OE1	2.66	0.42
19:FX:52:LYS:O	19:FX:55:PHE:HB3	2.19	0.42
23:GB:86:ILE:HD13	23:GB:196:LEU:HD13	2.00	0.42
26:GE:154:GLN:NE2	1:H1:3115:C:C1'	2.78	0.42
27:GF:127:TYR:HE1	1:H1:146:U:C2	2.37	0.42
27:GF:222:ARG:HA	27:GF:222:ARG:HD2	1.81	0.42
29:GH:166:VAL:CG1	29:GH:167:THR:N	2.81	0.42
29:GH:34:TYR:CE1	29:GH:92:HIS:CE1	3.07	0.42
34:GM:60:ILE:HD13	34:GM:98:ALA:HB2	2.01	0.42
35:GN:30:LEU:HD11	35:GN:124:PHE:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:GN:172:ARG:HG2	35:GN:173:LYS:N	2.32	0.42
35:GN:52:ARG:HH12	35:GN:141:ARG:CD	2.32	0.42
35:GN:94:LEU:HA	35:GN:94:LEU:HD23	1.76	0.42
38:GQ:8:ARG:HH12	38:GQ:118:HIS:N	2.17	0.42
39:GR:113:VAL:HG12	39:GR:114:LYS:N	2.33	0.42
39:GR:89:THR:HA	39:GR:132:ILE:O	2.19	0.42
40:GS:31:SER:HA	40:GS:49:VAL:HG23	2.01	0.42
41:GT:8:CYS:O	41:GT:12:GLU:HA	2.19	0.42
44:GW:79:ASN:OD1	44:GW:81:GLU:HG2	2.19	0.42
46:GY:38:GLY:HA2	46:GY:45:VAL:HA	2.00	0.42
1:H1:1051:C:N1	1:H1:1052:A:C8	2.87	0.42
1:H1:1056:A:C2'	1:H1:1057:U:H5'	2.49	0.42
1:H1:1107:A:H3'	1:H1:1108:A:C8	2.43	0.42
35:GN:6:HIS:HB2	1:H1:1131:G:C5	2.53	0.42
1:H1:1310:C:C5	1:H1:1311:C:C4	3.07	0.42
1:H1:1312:G:H2'	1:H1:1313:A:C8	2.54	0.42
1:H1:1355:C:N4	1:H1:1356:G:C6	2.86	0.42
1:H1:1527:A:O2'	1:H1:1528:G:H8	2.02	0.42
1:H1:1880:C:H2'	1:H1:1881:C:C6	2.54	0.42
1:H1:2113:A:N7	1:H1:3053:U:O2'	2.42	0.42
1:H1:2358:A:C2	1:H1:2359:G:C4	3.06	0.42
1:H1:2736:A:H2'	1:H1:2737:A:C8	2.54	0.42
1:H1:2766:A:C3'	1:H1:2767:A:H5'	2.49	0.42
1:H1:2801:A:N6	1:H1:2802:G:C5	2.87	0.42
1:H1:2824:C:H2'	1:H1:2825:A:O4'	2.19	0.42
1:H1:2833:A:C5	1:H1:2834:U:C5	3.07	0.42
1:H1:292:C:O2'	16:HQ:80:ARG:HA	2.18	0.42
1:H1:3190:A:C6	1:H1:3191:G:C2	3.07	0.42
1:H1:340:G:C5'	1:H1:343:A:H1'	2.48	0.42
1:H1:350:A:N6	3:HB:35:ILE:HG23	2.34	0.42
1:H1:389:G:C6	1:H1:390:G:C4	3.07	0.42
1:H1:581:C:H2'	1:H1:582:A:C4'	2.49	0.42
1:H1:646:A:H2'	1:H1:647:U:H6	1.83	0.42
46:GY:4:ARG:NH2	1:H1:864:C:N4	2.66	0.42
1:H1:90:G:OP2	1:H1:91:C:H5''	2.18	0.42
6:HF:15:ILE:O	6:HF:21:LYS:HA	2.18	0.42
6:HF:23:LYS:HB2	6:HF:43:ILE:HD11	2.00	0.42
17:HT:30:ILE:HG22	17:HT:31:SER:N	2.34	0.42
1:A1:1035:A:H2'	1:A1:1036:G:C8	2.54	0.42
1:A1:1043:C:H6	1:A1:1043:C:O5'	2.03	0.42
1:A1:1073:A:N3	1:A1:2622:U:O2'	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1105:U:C2	1:A1:1111:G:C2	3.06	0.42
1:A1:1355:C:C2'	1:A1:1356:G:O5'	2.67	0.42
1:A1:1382:A:C4'	1:A1:1383:G:O5'	2.62	0.42
1:A1:1404:G:H2'	1:A1:1405:U:H6	1.84	0.42
1:A1:1439:U:H2'	1:A1:1440:A:H8	1.85	0.42
1:A1:115:G:H1	1:A1:159:G:H4'	1.83	0.42
1:A1:1608:G:C2'	1:A1:1609:U:O5'	2.67	0.42
1:A1:1728:A:C2'	1:A1:1729:U:OP2	2.66	0.42
1:A1:1681:C:O2'	1:A1:1823:A:OP2	2.26	0.42
1:A1:2104:C:O2'	1:A1:2105:U:H5'	2.18	0.42
1:A1:2276:A:C6	1:A1:2947:C:H1'	2.53	0.42
1:A1:2416:U:H6	1:A1:2416:U:C5'	2.21	0.42
1:A1:2518:A:H5'	27:BF:46:ARG:CD	2.49	0.42
1:A1:2706:U:H6	1:A1:2706:U:H5'	1.84	0.42
1:A1:269:U:C2	1:A1:270:C:C5	3.07	0.42
1:A1:2908:U:P	50:A1:4500:HOH:O	2.66	0.42
1:A1:296:G:H3'	16:AQ:34:LEU:HD21	2.00	0.42
1:A1:3008:U:H6	1:A1:3008:U:O5'	2.01	0.42
1:A1:3083:A:H2'	1:A1:3084:U:C6	2.54	0.42
1:A1:3098:A:N1	1:A1:3115:C:C4	2.87	0.42
1:A1:3175:A:N3	1:A1:3175:A:H3'	2.33	0.42
1:A1:43:A:C5	1:A1:44:U:C5	3.07	0.42
1:A1:47:G:O2'	1:A1:48:U:OP1	2.37	0.42
1:A1:564:A:C6	1:A1:567:C:H4'	2.54	0.42
1:A1:666:U:H5'	1:A1:1143:G:O6	2.19	0.42
1:A1:707:A:H2'	1:A1:708:G:O4'	2.19	0.42
1:A1:70:C:C5	1:A1:72:A:C4	3.07	0.42
1:A1:792:G:H2'	1:A1:793:A:H8	1.84	0.42
1:A1:969:C:H1'	1:A1:1457:G:N2	2.35	0.42
1:A1:997:G:C5'	1:A1:1399:A:O2'	2.67	0.42
2:AA:71:ILE:O	2:AA:75:ALA:HB2	2.19	0.42
3:AB:6:THR:HB	3:AB:9:MET:H	1.83	0.42
4:AC:25:GLN:HG2	4:AC:26:TYR:N	2.34	0.42
1:A1:2417:C:H5'	4:AC:50:GLY:HA2	2.00	0.42
4:AC:93:ASP:O	4:AC:97:ILE:HG13	2.18	0.42
5:AE:56:GLY:N	5:AE:59:ARG:HB3	2.34	0.42
6:AF:2:VAL:CG1	6:AF:3:PHE:N	2.82	0.42
6:AF:28:VAL:CG1	6:AF:66:ASN:CA	2.97	0.42
8:AH:9:VAL:CG1	8:AH:10:ALA:H	2.31	0.42
8:AH:48:VAL:CG1	8:AH:87:ALA:HB2	2.49	0.42
9:AJ:211:THR:OG1	9:AJ:214:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:80:PRO:HA	10:AK:83:ALA:HB3	2.01	0.42
12:AM:32:ILE:HG21	12:AM:61:ASP:O	2.18	0.42
13:AN:95:GLU:OE1	13:AN:95:GLU:HA	2.18	0.42
16:AQ:83:THR:CG2	16:AQ:85:ARG:HB3	2.50	0.42
19:AX:48:GLU:O	19:AX:52:LYS:HG3	2.20	0.42
20:B2:30:U:H2'	20:B2:31:C:C6	2.54	0.42
22:BA:176:THR:CG2	22:BA:176:THR:O	2.68	0.42
24:BC:164:GLU:HB3	24:BC:221:SER:HB3	2.01	0.42
24:BC:313:THR:HG22	24:BC:314:THR:H	1.84	0.42
24:BC:374:GLN:HA	24:BC:377:ILE:HD12	2.00	0.42
25:BD:138:VAL:HG13	25:BD:141:ARG:NH2	2.34	0.42
27:BF:144:VAL:HG23	27:BF:168:VAL:CG1	2.49	0.42
27:BF:136:ILE:O	27:BF:166:ASN:ND2	2.52	0.42
27:BF:25:LYS:HA	27:BF:26:PRO:HD3	1.81	0.42
30:BI:184:PRO:HA	30:BI:187:LYS:CE	2.50	0.42
30:BI:60:TRP:O	30:BI:60:TRP:CD1	2.72	0.42
1:A1:279:U:C5'	33:BL:188:ARG:HH21	2.32	0.42
34:BM:153:THR:HG22	34:BM:179:ARG:NH1	2.30	0.42
1:A1:1064:C:H4'	34:BM:6:VAL:H	1.84	0.42
35:BN:155:ALA:CB	35:BN:158:GLN:NE2	2.67	0.42
40:BS:58:VAL:HG12	40:BS:59:ARG:CG	2.47	0.42
42:BU:86:VAL:HG12	42:BU:88:LYS:HG3	2.01	0.42
46:BY:17:ARG:HB2	46:BY:18:TYR:CE2	2.54	0.42
22:CA:138:ILE:HD11	22:CA:150:ARG:HB2	2.01	0.42
22:CA:3:ARG:HB3	22:CA:208:VAL:O	2.18	0.42
23:CB:102:LEU:HA	23:CB:102:LEU:HD12	1.66	0.42
23:CB:238:LYS:HE3	1:D1:2332:C:P	2.59	0.42
25:CD:94:LYS:HG3	25:CD:94:LYS:O	2.18	0.42
26:CE:88:PHE:HD1	26:CE:182:LYS:HA	1.79	0.42
26:CE:7:GLU:OE1	26:CE:54:LYS:HE2	2.18	0.42
29:CH:159:PHE:HB3	29:CH:163:GLN:CD	2.38	0.42
30:CI:177:ARG:HA	30:CI:180:GLU:HG2	2.00	0.42
30:CI:35:VAL:HG12	30:CI:107:ILE:HG12	2.01	0.42
30:CI:80:TRP:HH2	30:CI:84:ARG:HH12	1.66	0.42
32:CK:145:CYS:HB3	18:DU:177:VAL:HG21	2.00	0.42
32:CK:58:LEU:HD23	32:CK:58:LEU:HA	1.53	0.42
35:CN:155:ALA:CB	35:CN:158:GLN:NE2	2.64	0.42
35:CN:43:SER:O	35:CN:43:SER:OG	2.35	0.42
47:CO:68:GLU:HA	47:CO:68:GLU:OE1	2.19	0.42
37:CP:80:VAL:O	37:CP:83:ARG:HG2	2.19	0.42
40:CS:80:HIS:ND1	40:CS:95:GLN:CB	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:189:GLY:HA3	43:CV:190:PRO:HD2	1.80	0.42
1:D1:1208:U:H5'	19:DX:178:ARG:CZ	2.43	0.42
1:D1:119:A:HO2'	1:D1:120:A:P	2.42	0.42
1:D1:1355:C:H2'	1:D1:1356:G:O5'	2.20	0.42
39:CR:43:LEU:HD13	1:D1:1599:G:H5''	1.99	0.42
1:D1:159:G:C4	1:D1:160:G:C8	3.07	0.42
22:CA:70:TYR:CD2	1:D1:1674:C:C4'	2.99	0.42
1:D1:1681:C:OP1	11:DL:40:ASN:ND2	2.53	0.42
1:D1:1747:A:N1	1:D1:1814:U:O2'	2.37	0.42
1:D1:1815:G:H2'	1:D1:1816:A:C8	2.54	0.42
1:D1:1832:G:OP1	11:DL:77:VAL:O	2.37	0.42
1:D1:2667:A:N6	1:D1:2668:A:C6	2.88	0.42
1:D1:2833:A:C5	1:D1:2834:U:C5	3.07	0.42
23:CB:240:THR:HA	1:D1:2936:C:O2'	2.19	0.42
1:D1:3175:A:C5'	1:D1:3176:A:OP2	2.67	0.42
23:CB:310:PRO:HA	1:D1:3334:C:O2'	2.19	0.42
1:D1:469:U:O2	1:D1:510:A:N1	2.52	0.42
1:D1:831:A:H2'	1:D1:832:A:C8	2.54	0.42
3:DB:6:THR:HB	3:DB:9:MET:H	1.84	0.42
1:D1:2543:C:H42	7:DG:54:SER:HB3	1.84	0.42
8:DH:15:TRP:CD2	8:DH:105:ARG:HD3	2.55	0.42
9:DJ:224:LEU:HA	9:DJ:224:LEU:HD23	1.68	0.42
9:DJ:53:ILE:HD12	9:DJ:59:VAL:HA	2.01	0.42
16:DQ:61:LEU:HD13	16:DQ:72:LYS:CB	2.49	0.42
18:DU:81:ALA:HB2	18:DU:114:LEU:HD13	2.01	0.42
20:E2:10:U:C4	20:E2:11:C:N4	2.87	0.42
20:E2:80:A:O5'	20:E2:80:A:H8	2.02	0.42
23:EB:54:THR:HG23	23:EB:55:HIS:H	1.82	0.42
24:EC:166:TYR:HD1	24:EC:171:GLN:HG3	1.85	0.42
24:EC:230:ILE:HB	24:EC:233:VAL:HG11	2.01	0.42
32:EK:84:VAL:HG13	1:F1:485:A:H2'	2.01	0.42
33:EL:63:ARG:HG2	33:EL:131:GLU:HG3	2.01	0.42
34:EM:60:ILE:HD13	34:EM:98:ALA:HB2	2.00	0.42
37:EP:11:THR:CG2	37:EP:15:PHE:CG	3.02	0.42
39:ER:91:VAL:HG13	39:ER:131:TYR:CD1	2.54	0.42
41:ET:5:THR:HG21	41:ET:14:ARG:NE	2.34	0.42
1:F1:114:A:H2'	1:F1:115:G:H8	1.83	0.42
1:F1:1248:G:H8	1:F1:1248:G:O5'	2.02	0.42
1:F1:136:C:C2'	1:F1:137:A:H5'	2.50	0.42
1:F1:1388:U:H2'	1:F1:1389:G:C8	2.54	0.42
1:F1:1404:G:H2'	1:F1:1405:U:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1407:A:H2'	1:F1:1408:U:C6	2.54	0.42
1:F1:1599:G:N1	1:F1:1600:U:C2	2.87	0.42
1:F1:1689:G:H2'	1:F1:1690:G:C8	2.54	0.42
1:F1:168:G:H2'	1:F1:169:A:OP2	2.20	0.42
1:F1:2149:U:O2'	1:F1:2150:U:H5''	2.19	0.42
40:ES:61:LYS:HE2	1:F1:218:G:H1	1.82	0.42
1:F1:2227:A:H2'	1:F1:2228:A:O4'	2.19	0.42
1:F1:2371:G:C6	1:F1:2372:G:C6	3.07	0.42
1:F1:2801:A:N6	1:F1:2802:G:C5	2.86	0.42
1:F1:3128:G:H2'	1:F1:3129:G:O4'	2.20	0.42
1:F1:3193:G:O2'	1:F1:3194:G:H5'	2.19	0.42
1:F1:3309:U:C2'	1:F1:3310:U:O5'	2.67	0.42
1:F1:402:U:C2'	1:F1:403:G:H5'	2.50	0.42
1:F1:567:C:N4	1:F1:603:A:C2	2.87	0.42
1:F1:646:A:H2'	1:F1:647:U:C6	2.55	0.42
1:F1:669:A:C6	1:F1:673:A:C8	3.07	0.42
4:FC:11:TYR:CE1	4:FC:13:LYS:HA	2.54	0.42
5:FE:114:ASP:C	5:FE:116:TYR:N	2.73	0.42
5:FE:54:LEU:O	5:FE:59:ARG:CB	2.53	0.42
5:FE:68:GLN:O	5:FE:68:GLN:CG	2.67	0.42
1:F1:614:G:OP1	8:FH:113:ALA:C	2.58	0.42
8:FH:9:VAL:CG1	8:FH:10:ALA:H	2.31	0.42
9:FJ:70:LEU:HD12	9:FJ:70:LEU:HA	1.86	0.42
1:F1:155:A:O3'	16:FQ:28:VAL:HG23	2.19	0.42
1:F1:165:C:H4'	18:FU:132:LYS:HD2	2.00	0.42
18:FU:57:ARG:HD2	18:FU:64:ASN:O	2.19	0.42
24:EC:380:PHE:CE1	19:FX:22:VAL:HG22	2.53	0.42
19:FX:61:LYS:HA	19:FX:61:LYS:HD3	1.77	0.42
20:G2:56:A:H2'	20:G2:57:A:C8	2.54	0.42
20:G2:87:C:O2'	20:G2:88:G:H5'	2.19	0.42
22:GA:210:HIS:CD2	22:GA:211:PRO:CD	2.99	0.42
23:GB:299:THR:HG22	23:GB:300:ASP:N	2.34	0.42
28:GG:7:UNK:HG1	1:H1:1248:G:H2'	2.00	0.42
28:GG:30:UNK:HG3	28:GG:81:UNK:HB2	2.00	0.42
29:GH:139:ARG:CG	29:GH:173:PHE:CE1	2.99	0.42
29:GH:190:LEU:HD22	29:GH:197:VAL:CG1	2.49	0.42
30:GI:92:PRO:O	30:GI:95:ALA:HB3	2.18	0.42
31:GJ:139:SER:HB3	9:HJ:100:LYS:O	2.20	0.42
32:GK:118:LEU:HB2	32:GK:141:VAL:CG2	2.43	0.42
34:GM:49:TYR:HB2	34:GM:143:LYS:O	2.19	0.42
35:GN:102:CYS:HB2	35:GN:122:LEU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:GR:77:THR:HG21	1:H1:1546:G:O3'	2.20	0.42
40:GS:117:LEU:HD23	40:GS:120:ARG:CZ	2.49	0.42
40:GS:73:TYR:HD1	40:GS:76:LYS:H	1.66	0.42
1:H1:1006:C:H2'	1:H1:1007:G:OP1	2.19	0.42
1:H1:1098:A:H2'	1:H1:1099:G:H5''	2.01	0.42
1:H1:1823:A:H2'	1:H1:1824:A:O4'	2.18	0.42
1:H1:1883:A:C2	1:H1:1884:G:C8	3.07	0.42
1:H1:213:A:H2'	1:H1:214:G:O4'	2.19	0.42
1:H1:2343:A:C2'	1:H1:2344:U:H5''	2.49	0.42
24:GC:74:THR:HG22	1:H1:2397:A:H5''	2.00	0.42
1:H1:1074:A:C2	1:H1:2635:C:O2	2.70	0.42
1:H1:2771:U:C5	1:H1:2772:U:C5	3.07	0.42
1:H1:401:U:OP1	1:H1:403:G:O6	2.37	0.42
1:H1:549:G:H2'	1:H1:550:G:H8	1.84	0.42
1:H1:564:A:N3	1:H1:564:A:C2'	2.75	0.42
1:H1:632:G:C5	1:H1:633:C:C4	3.07	0.42
1:H1:633:C:H3'	5:HE:30:ARG:NH2	2.33	0.42
9:HJ:161:VAL:C	9:HJ:193:ILE:HD12	2.39	0.42
9:HJ:97:ILE:HD12	9:HJ:104:LEU:CD1	2.48	0.42
1:H1:1326:U:O2'	10:HK:114:LYS:O	2.24	0.42
12:HM:19:ILE:CD1	12:HM:105:TYR:HB2	2.48	0.42
14:HO:48:VAL:HA	14:HO:61:SER:O	2.18	0.42
15:HP:41:LYS:HD3	15:HP:52:THR:HG21	2.01	0.42
1:A1:1004:U:C4'	1:A1:1005:A:OP2	2.68	0.42
1:A1:1029:A:H1'	34:BM:15:ARG:NH2	2.35	0.42
1:A1:1082:U:H4'	21:B3:80:A:H4'	2.00	0.42
1:A1:1318:A:N6	1:A1:1319:C:C4	2.87	0.42
1:A1:1407:A:H2'	1:A1:1408:U:C6	2.55	0.42
1:A1:1423:A:H2'	1:A1:1424:U:O5'	2.18	0.42
1:A1:148:G:O2'	1:A1:149:U:C6	2.69	0.42
1:A1:1669:G:C2	1:A1:1670:A:C5	3.07	0.42
1:A1:1824:A:H2'	1:A1:1825:A:C8	2.54	0.42
1:A1:2434:A:H2'	1:A1:2435:A:C8	2.54	0.42
1:A1:270:C:H2'	1:A1:271:G:O5'	2.19	0.42
1:A1:2737:A:N3	34:BM:36:LEU:HD23	2.34	0.42
1:A1:2782:G:O2'	1:A1:2783:U:OP2	2.28	0.42
1:A1:282:G:C4	32:BK:63:PHE:CE1	3.07	0.42
1:A1:2935:G:H4'	1:A1:2935:G:OP1	2.19	0.42
1:A1:3171:A:N6	1:A1:3172:A:N6	2.66	0.42
1:A1:3173:U:H5''	1:A1:3174:U:OP1	2.20	0.42
1:A1:3197:A:OP2	1:A1:3213:G:N1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3222:U:C2'	1:A1:3223:G:H5'	2.49	0.42
1:A1:369:U:H4'	1:A1:400:C:H2'	2.01	0.42
1:A1:371:A:C6	1:A1:372:A:C6	3.08	0.42
1:A1:462:G:H5''	14:AO:64:LYS:CE	2.50	0.42
1:A1:581:C:H2'	1:A1:582:A:O4'	2.19	0.42
1:A1:927:G:C4	1:A1:928:U:C5	3.06	0.42
4:AC:83:ILE:HG22	4:AC:84:LYS:N	2.33	0.42
5:AE:185:ARG:HD2	5:AE:188:GLU:OE2	2.20	0.42
12:AM:44:LYS:HA	12:AM:48:LYS:O	2.19	0.42
15:AP:41:LYS:HD3	15:AP:52:THR:HG21	2.01	0.42
19:AX:131:GLN:O	19:AX:134:THR:HB	2.19	0.42
19:AX:150:ARG:O	19:AX:154:LEU:HG	2.18	0.42
21:B3:83:G:C5'	50:B3:306:HOH:O	2.66	0.42
21:B3:95:U:H2'	21:B3:96:U:C6	2.54	0.42
1:A1:885:G:P	22:BA:182:LYS:HD3	2.60	0.42
23:BB:330:LYS:H	23:BB:330:LYS:HG2	1.64	0.42
23:BB:356:PHE:CE2	23:BB:358:ASP:HA	2.54	0.42
23:BB:377:PHE:HZ	41:BT:13:TYR:HE1	1.66	0.42
24:BC:267:ASN:O	24:BC:271:GLY:N	2.52	0.42
30:BI:50:ARG:O	30:BI:54:SER:HB2	2.19	0.42
30:BI:73:ARG:HD3	30:BI:144:VAL:CG1	2.29	0.42
32:BK:101:VAL:HG22	32:BK:124:VAL:HB	2.00	0.42
32:BK:75:VAL:HG23	32:BK:109:PHE:CG	2.51	0.42
34:BM:173:ILE:HA	34:BM:174:PRO:HD3	1.79	0.42
32:BK:52:PRO:HG3	35:BN:157:GLY:HA3	2.00	0.42
37:BP:116:LYS:HZ1	37:BP:128:THR:CB	2.18	0.42
37:BP:45:ASP:OD1	37:BP:45:ASP:C	2.56	0.42
37:BP:43:MET:HE3	37:BP:58:HIS:HE1	1.85	0.42
1:A1:1376:A:C3'	43:BV:12:LYS:HZ1	2.25	0.42
20:C2:104:G:C6	20:C2:106:A:C6	3.06	0.42
20:C2:75:A:N3	20:C2:89:A:O2'	2.51	0.42
21:C3:4:G:C2'	21:C3:5:U:H5'	2.49	0.42
21:C3:90:A:C5	21:C3:91:C:H1'	2.55	0.42
22:CA:49:ILE:HA	22:CA:59:LEU:O	2.19	0.42
23:CB:111:ASP:OD1	23:CB:111:ASP:N	2.48	0.42
23:CB:264:ARG:HH11	1:D1:2386:G:H22	1.66	0.42
25:CD:32:LYS:HB3	25:CD:119:SER:O	2.20	0.42
25:CD:17:LEU:CD1	25:CD:129:VAL:HG22	2.49	0.42
27:CF:220:GLU:O	27:CF:224:THR:N	2.52	0.42
27:CF:233:LYS:HA	27:CF:236:HIS:HD2	1.85	0.42
28:CG:5:UNK:C	28:CG:7:UNK:N	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CI:127:ARG:HD3	30:CI:127:ARG:HA	1.80	0.42
30:CI:64:ASN:HD21	30:CI:66:ARG:CG	2.24	0.42
32:CK:75:VAL:CG1	32:CK:76:ASN:N	2.82	0.42
34:CM:110:LEU:CD1	34:CM:169:GLY:O	2.67	0.42
47:CO:76:THR:HG22	47:CO:81:ARG:HH21	1.84	0.42
40:CS:125:LEU:HD23	40:CS:125:LEU:HA	1.87	0.42
41:CT:58:ARG:NH2	1:D1:3325:G:N9	2.66	0.42
46:CY:49:ARG:HB2	46:CY:55:TRP:CZ3	2.54	0.42
1:D1:1005:A:C2	1:D1:1007:G:C6	3.08	0.42
1:D1:1037:A:O2'	1:D1:1038:G:H5'	2.20	0.42
1:D1:1060:C:C4	1:D1:1061:G:N7	2.86	0.42
35:CN:152:TRP:CE2	1:D1:1136:C:H4'	2.54	0.42
1:D1:1414:C:N3	1:D1:1415:C:C5	2.87	0.42
1:D1:1427:G:H2'	1:D1:1428:G:O5'	2.19	0.42
1:D1:111:C:H3'	1:D1:154:U:O4	2.19	0.42
1:D1:1846:C:H2'	1:D1:1847:A:H8	1.85	0.42
1:D1:2228:A:N7	1:D1:2229:G:N7	2.67	0.42
1:D1:2292:U:C2	1:D1:2294:A:C6	3.07	0.42
1:D1:2404:G:H5''	50:D1:3773:HOH:O	2.20	0.42
22:CA:41:TYR:OH	1:D1:2541:U:H2'	2.20	0.42
1:D1:3144:G:OP1	1:D1:3144:G:H4'	2.18	0.42
1:D1:3175:A:C4'	1:D1:3176:A:OP2	2.66	0.42
1:D1:3268:C:N4	1:D1:3269:G:C5	2.87	0.42
1:D1:559:G:C6	1:D1:609:A:C6	3.08	0.42
1:D1:624:G:O2'	1:D1:625:C:H6	2.02	0.42
1:D1:705:A:C5	1:D1:706:U:C5	3.07	0.42
1:D1:800:G:C4'	1:D1:801:U:OP2	2.61	0.42
1:D1:882:G:O2'	1:D1:883:A:P	2.77	0.42
3:DB:44:TRP:CH2	3:DB:45:ARG:HD3	2.54	0.42
5:DE:117:PHE:HA	5:DE:149:ARG:NH2	2.34	0.42
8:DH:107:MET:CB	8:DH:109:TYR:CE2	3.02	0.42
8:DH:91:PHE:CZ	8:DH:95:LEU:HD11	2.53	0.42
9:DJ:111:ASN:HB3	9:DJ:154:ILE:HG22	2.01	0.42
9:DJ:111:ASN:HD22	9:DJ:156:ASN:HA	1.84	0.42
13:DN:5:LEU:HD23	13:DN:5:LEU:HA	1.78	0.42
15:DP:67:ALA:O	15:DP:69:PRO:HD3	2.20	0.42
19:DX:93:LEU:O	19:DX:103:ASN:HA	2.18	0.42
19:DX:143:LEU:HD13	19:DX:148:ILE:HG22	2.00	0.42
21:E3:21:G:H4'	34:EM:277:PHE:CE2	2.50	0.42
22:EA:86:GLY:HA3	1:F1:2545:A:C4	2.53	0.42
24:EC:102:ARG:O	24:EC:103:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:EC:126:ARG:CB	24:EC:283:TYR:HE2	2.32	0.42
24:EC:298:ILE:O	24:EC:304:VAL:CG2	2.64	0.42
24:EC:369:HIS:O	24:EC:372:GLY:N	2.52	0.42
25:ED:103:GLY:C	1:F1:2662:A:H4'	2.39	0.42
25:ED:138:VAL:HG13	25:ED:141:ARG:NH2	2.34	0.42
21:E3:54:A:H2'	25:ED:152:GLN:HE21	1.84	0.42
27:EF:48:PRO:HG2	1:F1:1587:A:C8	2.54	0.42
29:EH:76:LEU:HD21	29:EH:151:ALA:HB3	2.02	0.42
29:EH:19:LYS:HG3	29:EH:26:VAL:HG11	2.00	0.42
30:EI:10:ALA:C	30:EI:13:HIS:CD2	2.89	0.42
30:EI:139:ASP:O	30:EI:142:ALA:HB3	2.19	0.42
30:EI:140:LEU:HA	30:EI:140:LEU:HD12	1.83	0.42
32:EK:101:VAL:HG22	32:EK:124:VAL:HB	2.02	0.42
32:EK:84:VAL:CG1	1:F1:485:A:H2'	2.49	0.42
33:EL:106:VAL:HG21	33:EL:132:VAL:HG21	2.01	0.42
34:EM:283:THR:HG22	34:EM:284:ALA:N	2.34	0.42
21:E3:5:U:H1'	34:EM:63:GLN:HE22	1.84	0.42
37:EP:43:MET:HE3	37:EP:43:MET:HB3	1.52	0.42
41:ET:22:ARG:NH2	41:ET:32:PHE:CE2	2.87	0.42
42:EU:78:SER:O	42:EU:79:LEU:CB	2.67	0.42
43:EV:134:GLY:HA3	43:EV:231:ILE:CG2	2.49	0.42
43:EV:189:GLY:HA3	43:EV:190:PRO:HD2	1.78	0.42
37:EP:138:ALA:HA	43:EV:74:VAL:O	2.19	0.42
1:F1:1434:G:C2'	1:F1:1435:C:H5'	2.41	0.42
1:F1:1646:G:O2'	1:F1:1647:U:H5'	2.19	0.42
1:F1:1880:C:H2'	1:F1:1881:C:C6	2.54	0.42
1:F1:2189:G:C5	50:F1:4381:HOH:O	2.73	0.42
1:F1:2369:C:N4	1:F1:2929:A:C4	2.87	0.42
1:F1:2733:C:H2'	1:F1:2734:G:C8	2.54	0.42
1:F1:2765:C:H4'	1:F1:2766:A:O5'	2.19	0.42
1:F1:3008:U:H2'	1:F1:3009:U:H6	1.85	0.42
1:F1:3075:A:H2'	1:F1:3076:A:C8	2.54	0.42
1:F1:3103:A:H2'	1:F1:3104:G:N7	2.35	0.42
1:F1:3160:A:N3	1:F1:3160:A:H2'	2.34	0.42
1:F1:3175:A:C2	1:F1:3177:G:C5	3.08	0.42
1:F1:3225:U:C4	1:F1:3226:A:N7	2.87	0.42
1:F1:340:G:H8	1:F1:340:G:OP2	2.03	0.42
1:F1:467:A:N1	1:F1:468:A:C4	2.87	0.42
1:F1:528:C:O2'	14:FO:115:HIS:CE1	2.68	0.42
1:F1:680:A:C6	1:F1:681:A:C6	3.07	0.42
1:F1:747:G:C2'	1:F1:748:G:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:62:LEU:HD23	13:FN:4:PHE:CE2	2.54	0.42
11:FL:64:TYR:O	11:FL:72:LYS:HE2	2.18	0.42
13:FN:83:THR:HG21	13:FN:85:TYR:HD2	1.85	0.42
14:FO:111:LEU:HD23	14:FO:111:LEU:HA	1.34	0.42
14:FO:5:VAL:O	14:FO:9:VAL:HG23	2.19	0.42
21:G3:8:G:C5	21:G3:9:C:C5	3.07	0.42
23:GB:330:LYS:O	23:GB:331:LYS:CB	2.66	0.42
23:GB:47:THR:OG1	23:GB:177:LEU:CD1	2.67	0.42
23:GB:49:PHE:CD1	23:GB:49:PHE:N	2.87	0.42
24:GC:126:ARG:CB	24:GC:283:TYR:HE2	2.32	0.42
27:GF:50:TYR:CZ	27:GF:51:ILE:HG23	2.53	0.42
29:GH:49:VAL:HA	29:GH:138:VAL:O	2.18	0.42
24:GC:405:ILE:CD1	29:GH:183:ARG:HE	2.29	0.42
29:GH:34:TYR:HD2	29:GH:89:CYS:HB3	1.84	0.42
30:GI:184:PRO:HA	30:GI:187:LYS:CE	2.49	0.42
30:GI:35:VAL:HG11	30:GI:107:ILE:HG23	2.01	0.42
32:GK:75:VAL:HG21	32:GK:104:VAL:HG13	2.02	0.42
32:GK:132:LYS:HG2	18:HU:178:TYR:CZ	2.54	0.42
35:GN:45:PHE:CZ	35:GN:49:ILE:HD11	2.54	0.42
37:GP:82:GLY:O	17:HT:21:ILE:HA	2.19	0.42
38:GQ:94:LEU:HA	38:GQ:94:LEU:HD12	1.69	0.42
44:GW:26:LYS:C	44:GW:29:PRO:HD2	2.40	0.42
44:GW:7:LYS:H	44:GW:76:LYS:HB3	1.85	0.42
1:H1:1046:G:C4	1:H1:1047:G:C8	3.07	0.42
1:H1:1050:C:C5	1:H1:1051:C:N3	2.87	0.42
1:H1:1147:A:C4	1:H1:1148:U:C5	3.07	0.42
1:H1:1184:U:H5'	1:H1:1184:U:C6	2.36	0.42
1:H1:1245:U:H6	1:H1:1245:U:C5'	2.26	0.42
1:H1:139:A:O2'	1:H1:140:A:H8	2.01	0.42
1:H1:1591:A:O2'	1:H1:1592:G:H5'	2.18	0.42
39:GR:51:TYR:CE1	1:H1:16:G:OP2	2.72	0.42
1:H1:1736:G:N1	1:H1:1737:A:C2	2.88	0.42
1:H1:1752:G:H5''	1:H1:1753:A:C3'	2.40	0.42
22:GA:86:GLY:HA2	1:H1:2545:A:N3	2.34	0.42
1:H1:2765:C:H4'	1:H1:2766:A:O5'	2.17	0.42
1:H1:2801:A:C6	1:H1:2802:G:C5	3.08	0.42
1:H1:2827:G:C2'	1:H1:2828:A:H5'	2.49	0.42
1:H1:2920:U:O2	1:H1:2922:A:H8	2.03	0.42
1:H1:3173:U:H5''	1:H1:3174:U:OP1	2.19	0.42
1:H1:3175:A:C2	1:H1:3177:G:C6	3.07	0.42
1:H1:452:U:HO2'	1:H1:453:A:P	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:GN:92:ARG:HH22	1:H1:809:A:H4'	1.79	0.42
1:H1:877:U:O2'	1:H1:878:G:H5'	2.19	0.42
1:H1:881:G:C6	1:H1:882:G:C2	3.07	0.42
1:H1:894:G:C6	1:H1:895:A:C6	3.07	0.42
1:H1:90:G:H4'	4:HC:53:LYS:NZ	2.34	0.42
2:HA:2:THR:HG22	2:HA:4:GLY:H	1.83	0.42
2:HA:5:THR:N	2:HA:6:PRO:CD	2.82	0.42
5:HE:103:ASP:OD1	5:HE:104:LEU:N	2.52	0.42
1:H1:3228:U:C2	5:HE:142:GLU:HG3	2.54	0.42
5:HE:42:ARG:HH12	8:HH:111:ASN:HD22	1.65	0.42
9:HJ:46:ILE:HG22	9:HJ:47:PRO:N	2.34	0.42
1:H1:156:A:OP2	16:HQ:28:VAL:HG23	2.19	0.42
18:HU:166:VAL:CA	18:HU:169:ILE:HD12	2.20	0.42
1:A1:1017:U:H5'	1:A1:1017:U:H6	1.84	0.42
1:A1:1021:U:O2'	1:A1:2625:A:H4'	2.20	0.42
1:A1:1057:U:H2'	1:A1:1058:C:C6	2.54	0.42
1:A1:1361:U:C6	1:A1:1361:U:C5'	2.95	0.42
1:A1:1636:C:C2	1:A1:1637:A:C8	3.07	0.42
1:A1:1697:U:H2'	1:A1:1698:G:C8	2.54	0.42
1:A1:1700:A:P	12:AM:74:SER:HB2	2.59	0.42
1:A1:1758:U:C5'	1:A1:1759:C:OP2	2.67	0.42
1:A1:2242:G:N3	1:A1:2266:A:C2	2.87	0.42
1:A1:2371:G:C6	1:A1:2372:G:C6	3.07	0.42
1:A1:2376:A:C2	1:A1:2377:G:C8	3.07	0.42
1:A1:3096:U:O5'	1:A1:3096:U:H6	2.01	0.42
1:A1:315:U:H4'	1:A1:316:A:H5'	2.01	0.42
1:A1:3227:A:H5'	5:AE:58:PHE:HZ	1.84	0.42
1:A1:3309:U:C2'	1:A1:3310:U:O5'	2.67	0.42
1:A1:545:A:H4'	5:AE:91:ASN:HD21	1.84	0.42
1:A1:630:G:H2'	1:A1:631:G:C4'	2.49	0.42
1:A1:806:G:H2'	1:A1:807:G:H5'	2.01	0.42
1:A1:904:U:O2'	1:A1:905:G:OP1	2.37	0.42
1:A1:917:U:H2'	1:A1:918:C:O4'	2.19	0.42
5:AE:58:PHE:HB3	5:AE:85:VAL:CG2	2.50	0.42
9:AJ:161:VAL:C	9:AJ:193:ILE:HD12	2.40	0.42
1:A1:1379:G:O6	14:AO:101:LYS:HE2	2.19	0.42
14:AO:40:LEU:O	14:AO:44:HIS:ND1	2.53	0.42
15:AP:42:PHE:C	15:AP:43:LYS:HG2	2.40	0.42
15:AP:43:LYS:HA	15:AP:51:TYR:O	2.19	0.42
17:AT:37:PRO:O	17:AT:41:ARG:HG3	2.20	0.42
1:A1:824:G:H1'	18:AU:12:LEU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:30:ILE:HD13	19:AX:163:PHE:CE2	2.55	0.42
19:AX:34:THR:O	19:AX:36:PRO:HD3	2.20	0.42
22:BA:112:THR:HG22	22:BA:113:VAL:N	2.34	0.42
23:BB:22:THR:OG1	23:BB:271:HIS:HA	2.20	0.42
23:BB:373:GLU:OE2	41:BT:16:TYR:OH	2.37	0.42
24:BC:129:VAL:O	24:BC:132:ALA:HB3	2.20	0.42
25:BD:16:LYS:HD3	25:BD:72:ARG:HH21	1.85	0.42
27:BF:125:LEU:HD12	27:BF:192:ALA:O	2.19	0.42
30:BI:107:ILE:HA	30:BI:108:PRO:HD3	1.73	0.42
31:BJ:50:LEU:HD23	31:BJ:50:LEU:HA	1.79	0.42
32:BK:75:VAL:CG1	32:BK:76:ASN:N	2.83	0.42
33:BL:26:ARG:O	33:BL:29:GLU:N	2.53	0.42
34:BM:212:TYR:CD2	34:BM:228:PHE:CE1	3.07	0.42
34:BM:242:SER:OG	34:BM:245:LYS:HG2	2.18	0.42
21:B3:1:G:P	34:BM:275:LYS:HZ1	2.39	0.42
34:BM:34:LYS:HE3	37:BP:30:TYR:CE1	2.54	0.42
35:BN:102:CYS:HB2	35:BN:122:LEU:HB3	2.01	0.42
36:BO:76:THR:CG2	36:BO:81:ARG:HH21	2.32	0.42
40:BS:10:ALA:HB3	40:BS:13:LYS:HG3	2.01	0.42
1:A1:628:A:C2	43:BV:41:TRP:HZ3	2.38	0.42
23:CB:113:ASN:C	23:CB:174:ASN:HD22	2.23	0.42
23:CB:294:THR:HB	23:CB:297:ASP:H	1.84	0.42
23:CB:54:THR:HA	23:CB:362:LYS:HZ1	1.84	0.42
24:CC:242:ASN:HD21	1:D1:718:A:C3'	2.32	0.42
24:CC:2:THR:HG23	24:CC:30:THR:HG23	2.01	0.42
26:CE:63:LYS:HD3	26:CE:63:LYS:HA	1.77	0.42
27:CF:142:LYS:HE3	27:CF:194:THR:O	2.18	0.42
29:CH:99:ILE:HG22	29:CH:123:LEU:HB2	2.00	0.42
29:CH:138:VAL:CG2	29:CH:152:LEU:HD11	2.49	0.42
29:CH:189:LYS:HE2	29:CH:199:VAL:HG12	2.02	0.42
30:CI:63:HIS:CD2	30:CI:64:ASN:HB2	2.55	0.42
31:CJ:10:GLN:HG3	31:CJ:129:ILE:HG22	1.95	0.42
32:CK:20:GLY:O	32:CK:24:LYS:HG2	2.18	0.42
35:CN:73:ASN:H	35:CN:76:ASN:CG	2.23	0.42
47:CO:42:ARG:HA	47:CO:45:ILE:HD12	2.00	0.42
38:CQ:50:LEU:HD12	38:CQ:94:LEU:HD13	2.01	0.42
38:CQ:94:LEU:HD12	38:CQ:94:LEU:HA	1.67	0.42
42:CU:97:THR:HB	42:CU:100:GLN:HG3	2.01	0.42
43:CV:117:ASN:HB2	43:CV:120:SER:OG	2.20	0.42
43:CV:105:LEU:HD12	43:CV:131:ILE:CD1	2.49	0.42
43:CV:91:GLN:HE21	1:D1:1167:G:C4'	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1055:A:C5	1:D1:1056:A:N7	2.87	0.42
1:D1:1195:U:H5''	1:D1:1356:G:O6	2.19	0.42
1:D1:1820:U:O2'	1:D1:1822:G:N2	2.52	0.42
1:D1:1506:G:N1	1:D1:1896:C:OP2	2.52	0.42
33:CL:74:PRO:HA	1:D1:2162:A:C1'	2.49	0.42
22:CA:133:CYS:SG	1:D1:2173:A:H5''	2.59	0.42
1:D1:2605:C:H2'	1:D1:2606:U:H5'	2.02	0.42
1:D1:2634:G:C2'	1:D1:2635:C:C5'	2.97	0.42
1:D1:2706:U:H5'	1:D1:2706:U:H6	1.84	0.42
1:D1:2817:U:H2'	1:D1:2818:G:H5'	2.00	0.42
1:D1:3193:G:O2'	1:D1:3194:G:H5'	2.19	0.42
1:D1:3198:A:N6	1:D1:3213:G:H1'	2.34	0.42
23:CB:377:PHE:C	1:D1:3325:G:H22	2.23	0.42
32:CK:84:VAL:HG12	1:D1:485:A:H2'	2.01	0.42
1:D1:64:A:N6	1:D1:66:C:C2	2.87	0.42
1:D1:661:C:H1'	1:D1:662:C:C6	2.54	0.42
1:D1:77:A:H2'	1:D1:78:G:C8	2.53	0.42
27:CF:50:TYR:CD2	1:D1:9:G:H1'	2.54	0.42
39:CR:124:ILE:O	3:DB:14:GLY:HA3	2.20	0.42
5:DE:45:ILE:HG23	5:DE:45:ILE:O	2.19	0.42
7:DG:52:ARG:O	7:DG:56:ILE:HG13	2.20	0.42
7:DG:87:CYS:SG	7:DG:89:THR:O	2.78	0.42
1:D1:3155:A:H62	8:DH:101:GLY:H	1.65	0.42
11:DL:53:LEU:HA	11:DL:53:LEU:HD23	1.85	0.42
16:DQ:83:THR:CG2	16:DQ:85:ARG:HB3	2.49	0.42
18:DU:77:GLU:HG3	18:DU:101:ASN:HD21	1.85	0.42
18:DU:121:LEU:HG	18:DU:122:VAL:N	2.34	0.42
20:E2:110:A:C6	20:E2:111:A:C6	3.07	0.42
20:E2:50:C:N4	50:E2:313:HOH:O	2.51	0.42
20:E2:89:A:H2'	20:E2:90:G:O4'	2.20	0.42
22:EA:71:LYS:HE2	1:F1:2517:G:O6	2.18	0.42
23:EB:43:LEU:HA	23:EB:43:LEU:HD23	1.85	0.42
24:EC:348:ALA:C	24:EC:350:ALA:H	2.21	0.42
25:ED:57:PHE:HE1	1:F1:2666:G:O6	2.03	0.42
26:EE:172:GLN:OE1	1:F1:2888:A:H4'	2.18	0.42
27:EF:69:GLN:HE22	16:FQ:48:VAL:C	2.05	0.42
30:EI:35:VAL:CG1	30:EI:106:GLY:O	2.67	0.42
30:EI:75:PRO:CB	30:EI:137:LEU:HD23	2.49	0.42
34:EM:34:LYS:HA	34:EM:37:ILE:HG22	2.01	0.42
35:EN:61:PHE:HA	35:EN:62:PRO:HD3	1.81	0.42
39:ER:113:VAL:HG13	39:ER:138:SER:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:EV:27:ARG:CZ	1:F1:627:U:OP2	2.67	0.42
45:EX:107:LYS:HE2	45:EX:125:ASN:HB2	2.01	0.42
46:EY:32:THR:HG21	46:EY:70:GLU:CG	2.49	0.42
46:EY:55:TRP:CZ2	46:EY:70:GLU:O	2.72	0.42
46:EY:96:ALA:O	46:EY:99:LEU:HB3	2.19	0.42
1:F1:1018:A:C2'	1:F1:1019:G:H5'	2.49	0.42
1:F1:1059:U:H2'	1:F1:1060:C:C5'	2.42	0.42
1:F1:1060:C:C4	1:F1:1061:G:N7	2.87	0.42
34:EM:5:LYS:CD	1:F1:1064:C:C5'	2.90	0.42
1:F1:1089:G:N7	1:F1:1124:G:H2'	2.34	0.42
1:F1:1318:A:H2'	1:F1:1319:C:H5''	2.02	0.42
1:F1:1355:C:N4	1:F1:1356:G:C6	2.87	0.42
1:F1:1195:U:H5''	1:F1:1356:G:O6	2.18	0.42
32:EK:21:ARG:HD2	1:F1:1396:A:H5''	2.01	0.42
1:F1:1438:A:H2'	1:F1:1439:U:H6	1.84	0.42
1:F1:1635:U:H2'	1:F1:1636:C:C6	2.54	0.42
1:F1:166:C:O2	1:F1:166:C:H2'	2.19	0.42
1:F1:2293:U:O2'	1:F1:2294:A:H5'	2.19	0.42
1:F1:2429:U:C4'	1:F1:2430:G:O5'	2.68	0.42
1:F1:2632:A:C2'	1:F1:2634:G:OP2	2.67	0.42
1:F1:2796:A:C8	1:F1:2943:U:H4'	2.54	0.42
1:F1:3020:G:C2'	1:F1:3021:A:H5''	2.49	0.42
1:F1:3062:A:H2'	1:F1:3063:G:O4'	2.19	0.42
23:EB:101:ALA:O	1:F1:3136:A:H5'	2.19	0.42
1:F1:685:G:O2'	1:F1:686:U:P	2.77	0.42
1:F1:71:U:C2'	1:F1:72:A:OP1	2.67	0.42
1:F1:90:G:H4'	4:FC:53:LYS:NZ	2.34	0.42
1:F1:935:G:H3'	1:F1:936:C:C6	2.54	0.42
5:FE:103:ASP:OD1	5:FE:104:LEU:N	2.52	0.42
5:FE:45:ILE:HG23	5:FE:45:ILE:O	2.19	0.42
8:FH:40:GLN:HG2	8:FH:41:ASN:ND2	2.33	0.42
9:FJ:12:ASP:O	9:FJ:13:ILE:C	2.56	0.42
9:FJ:30:ALA:HB3	9:FJ:35:TYR:CE1	2.54	0.42
9:FJ:25:LEU:HD11	9:FJ:70:LEU:HD21	2.01	0.42
11:FL:56:ILE:HG23	11:FL:71:ALA:O	2.20	0.42
12:FM:98:THR:O	12:FM:105:TYR:HD1	2.03	0.42
13:FN:46:VAL:HG13	13:FN:46:VAL:O	2.20	0.42
17:FT:59:LEU:HD12	17:FT:59:LEU:HA	1.74	0.42
1:F1:101:G:H4'	18:FU:63:TYR:CE1	2.55	0.42
21:G3:64:A:H5'	21:G3:65:G:OP2	2.19	0.42
23:GB:235:HIS:O	23:GB:235:HIS:CD2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:GB:45:ALA:H	23:GB:179:ILE:HG23	1.84	0.42
24:GC:245:GLN:O	24:GC:254:ARG:NH1	2.36	0.42
26:GE:5:LEU:HD13	26:GE:58:TRP:CZ2	2.55	0.42
28:GG:123:UNK:O	28:GG:123:UNK:HG2	2.20	0.42
29:GH:193:ASP:OD1	29:GH:198:LYS:HE3	2.19	0.42
29:GH:4:ARG:HA	29:GH:5:PRO:HD3	1.87	0.42
32:GK:128:LYS:C	32:GK:129:TYR:CD1	2.93	0.42
32:GK:141:VAL:CG1	32:GK:141:VAL:O	2.67	0.42
32:GK:27:LYS:NZ	1:H1:826:A:P	2.92	0.42
34:GM:111:LYS:HA	34:GM:116:ASP:OD2	2.19	0.42
34:GM:125:VAL:HG23	34:GM:201:LYS:CE	2.49	0.42
43:GV:213:ASN:HD22	43:GV:216:HIS:CD2	2.37	0.42
43:GV:213:ASN:HD22	43:GV:216:HIS:HD2	1.67	0.42
46:GY:17:ARG:C	46:GY:18:TYR:CD2	2.92	0.42
1:H1:1006:C:C2'	1:H1:1007:G:OP1	2.67	0.42
1:H1:1133:G:H2'	1:H1:1134:C:O4'	2.20	0.42
1:H1:124:U:C2'	1:H1:125:G:H5'	2.49	0.42
30:GI:60:TRP:O	1:H1:1333:G:C4	2.72	0.42
1:H1:1177:A:N7	1:H1:1337:G:H5'	2.35	0.42
1:H1:1195:U:H5''	1:H1:1356:G:O6	2.18	0.42
35:GN:3:ILE:HD11	1:H1:1391:U:OP1	2.19	0.42
1:H1:1661:A:H5''	13:HN:15:GLN:O	2.19	0.42
1:H1:1824:A:H2'	1:H1:1825:A:C8	2.55	0.42
1:H1:2256:G:H2'	1:H1:2257:A:O5'	2.19	0.42
1:H1:2343:A:H2'	1:H1:2344:U:H5''	2.02	0.42
1:H1:2602:U:O2	1:H1:2792:A:C8	2.72	0.42
1:H1:2715:C:H2'	1:H1:2717:G:N3	2.33	0.42
1:H1:3225:U:C4	1:H1:3226:A:N7	2.87	0.42
1:H1:3236:C:H2'	1:H1:3236:C:O2	2.19	0.42
1:H1:343:A:C4	1:H1:344:G:C8	3.07	0.42
1:H1:436:U:C2'	1:H1:437:A:H5'	2.50	0.42
1:H1:533:G:N2	1:H1:534:U:C2	2.87	0.42
1:H1:846:C:H1'	1:H1:936:C:O3'	2.20	0.42
1:H1:940:A:C5	1:H1:942:A:H1'	2.54	0.42
5:HE:68:GLN:CG	5:HE:68:GLN:O	2.67	0.42
12:HM:56:ILE:HG13	12:HM:69:SER:OG	2.20	0.42
13:HN:46:VAL:HG13	13:HN:46:VAL:O	2.19	0.42
13:HN:83:THR:HG21	13:HN:85:TYR:HD2	1.84	0.42
1:H1:1101:U:C5'	17:HT:49:ASN:HD22	2.18	0.42
17:HT:48:LYS:C	17:HT:55:LYS:HZ1	2.22	0.42
19:HX:137:ILE:HG13	19:HX:137:ILE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:HX:188:THR:C	19:HX:189:PHE:CG	2.92	0.42
1:A1:1050:C:O2	1:A1:1055:A:H2	2.01	0.42
1:A1:1209:G:OP2	50:A1:4284:HOH:O	2.19	0.42
1:A1:1237:U:O2'	1:A1:1238:U:H5'	2.19	0.42
1:A1:1617:G:O2'	1:A1:1618:A:P	2.75	0.42
1:A1:2239:A:P	22:BA:244:THR:HG22	2.59	0.42
1:A1:2293:U:O2'	1:A1:2294:A:H5'	2.20	0.42
1:A1:2303:C:H2'	1:A1:2304:A:OP1	2.20	0.42
1:A1:2378:A:C6	30:BI:90:LYS:HG2	2.55	0.42
1:A1:2521:A:N1	1:A1:2522:A:C6	2.87	0.42
1:A1:2678:A:H5'	1:A1:2679:G:C5	2.55	0.42
1:A1:2804:G:H8	1:A1:2858:C:OP2	2.03	0.42
1:A1:3020:G:C2'	1:A1:3021:A:H5''	2.49	0.42
1:A1:559:G:H5''	24:BC:355:ARG:NH1	2.35	0.42
1:A1:592:A:H2'	1:A1:593:U:H6	1.79	0.42
1:A1:631:G:N7	5:AE:31:ARG:NH2	2.66	0.42
1:A1:86:A:P	35:BN:173:LYS:HE3	2.59	0.42
2:AA:4:GLY:C	2:AA:6:PRO:HD2	2.39	0.42
5:AE:136:GLU:OE1	5:AE:139:LYS:HD2	2.19	0.42
8:AH:104:LEU:HD23	8:AH:104:LEU:HA	1.64	0.42
8:AH:47:ASP:N	8:AH:47:ASP:OD1	2.51	0.42
9:AJ:187:ASN:O	9:AJ:188:ARG:HB3	2.19	0.42
13:AN:142:LEU:HA	13:AN:142:LEU:HD12	1.79	0.42
15:AP:13:LYS:HB3	15:AP:13:LYS:HE2	1.79	0.42
1:A1:297:U:O4'	16:AQ:32:GLY:HA3	2.19	0.42
19:AX:143:LEU:HD13	19:AX:148:ILE:HG22	2.02	0.42
19:AX:28:LEU:O	19:AX:29:PRO:C	2.56	0.42
21:B3:64:A:H2'	21:B3:64:A:N3	2.33	0.42
22:BA:212:HIS:O	22:BA:214:GLY:N	2.53	0.42
23:BB:278:LYS:HB3	23:BB:322:ILE:CG2	2.50	0.42
24:BC:166:TYR:CE1	24:BC:171:GLN:HB2	2.54	0.42
24:BC:310:VAL:HG12	24:BC:311:ALA:N	2.34	0.42
25:BD:142:ARG:O	25:BD:145:THR:OG1	2.37	0.42
25:BD:77:ARG:HH22	25:BD:166:GLU:HG3	1.84	0.42
26:BE:75:ILE:O	26:BE:76:LYS:C	2.55	0.42
27:BF:161:GLN:OE1	27:BF:164:ARG:NH1	2.52	0.42
27:BF:45:VAL:CG1	27:BF:46:ARG:N	2.82	0.42
18:AU:178:TYR:OH	32:BK:132:LYS:HE2	2.19	0.42
32:BK:20:GLY:O	32:BK:24:LYS:HG2	2.19	0.42
1:A1:815:U:OP1	33:BL:204:ARG:CZ	2.68	0.42
39:BR:123:THR:HG22	39:BR:125:THR:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1389:G:C1'	43:BV:156:GLN:OE1	2.66	0.42
43:BV:84:ILE:HD12	43:BV:234:LEU:CD2	2.50	0.42
20:C2:30:U:H2'	20:C2:31:C:C6	2.54	0.42
23:CB:171:GLN:CD	1:D1:3273:U:H5''	2.40	0.42
23:CB:278:LYS:HB3	23:CB:322:ILE:CG2	2.50	0.42
24:CC:24:THR:HG21	1:D1:472:C:OP1	2.19	0.42
24:CC:258:TRP:CZ3	24:CC:266:LEU:HD21	2.55	0.42
25:CD:131:LEU:HD11	25:CD:162:TRP:CE3	2.54	0.42
25:CD:65:MET:CE	1:D1:2670:U:H4'	2.49	0.42
25:CD:99:THR:O	25:CD:99:THR:HG22	2.19	0.42
26:CE:139:LYS:O	26:CE:140:ASN:HB2	2.19	0.42
26:CE:19:THR:HB	26:CE:26:GLU:HB2	2.01	0.42
26:CE:58:TRP:O	26:CE:59:GLN:C	2.57	0.42
29:CH:26:VAL:HA	29:CH:27:PRO:HD2	1.85	0.42
30:CI:3:ASP:OD1	1:D1:3160:A:OP1	2.36	0.42
30:CI:59:LYS:O	30:CI:71:HIS:CE1	2.72	0.42
30:CI:64:ASN:ND2	30:CI:64:ASN:C	2.71	0.42
33:CL:120:TRP:CE2	33:CL:122:GLY:CA	3.01	0.42
33:CL:182:LYS:CG	33:CL:183:SER:N	2.74	0.42
25:CD:143:ARG:HH21	34:CM:27:LEU:HD22	1.83	0.42
39:CR:74:PRO:HB3	39:CR:149:LEU:HD11	2.02	0.42
40:CS:4:HIS:HE1	1:D1:232:C:OP1	2.01	0.42
41:CT:33:PHE:HZ	41:CT:42:SER:HG	1.65	0.42
1:D1:1201:G:C6	1:D1:1202:C:N4	2.87	0.42
1:D1:124:U:C2'	1:D1:125:G:H5'	2.50	0.42
1:D1:1373:G:C5	1:D1:1374:C:C5	3.06	0.42
1:D1:1549:U:H5''	1:D1:1632:U:O2	2.20	0.42
1:D1:1593:A:H2'	1:D1:1594:C:H6	1.73	0.42
1:D1:1646:G:O2'	1:D1:1647:U:H5'	2.19	0.42
1:D1:1680:A:H4'	1:D1:1681:C:O5'	2.20	0.42
1:D1:1769:U:H2'	1:D1:1770:A:C8	2.55	0.42
1:D1:1837:A:H2'	1:D1:1838:C:C6	2.55	0.42
38:CQ:139:ASN:OD1	1:D1:2352:A:H4'	2.20	0.42
1:D1:2370:G:O2'	1:D1:2372:G:OP2	2.28	0.42
1:D1:2391:G:H5''	1:D1:2393:A:H5''	2.01	0.42
1:D1:2522:A:N6	1:D1:2523:A:N6	2.68	0.42
1:D1:2552:A:H2'	1:D1:2553:G:H5'	2.01	0.42
1:D1:2899:C:P	50:D1:4561:HOH:O	2.68	0.42
1:D1:3062:A:H2'	1:D1:3063:G:O4'	2.19	0.42
1:D1:3106:C:C3'	1:D1:3107:C:C5'	2.98	0.42
23:CB:224:PHE:HB2	1:D1:3267:A:OP1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:426:A:H4'	8:DH:94:ASN:O	2.19	0.42
1:D1:452:U:H6	1:D1:452:U:O5'	2.02	0.42
1:D1:528:C:C5'	1:D1:528:C:H6	2.29	0.42
1:D1:574:G:H2'	1:D1:575:A:H8	1.85	0.42
1:D1:592:A:H2'	1:D1:593:U:H6	1.80	0.42
1:D1:611:A:H8	1:D1:611:A:O5'	2.02	0.42
1:D1:624:G:C6	1:D1:625:C:N4	2.88	0.42
1:D1:685:G:O2'	1:D1:686:U:P	2.76	0.42
1:D1:833:A:O2'	1:D1:2408:A:H5'	2.20	0.42
1:D1:938:A:C2'	1:D1:939:A:OP2	2.67	0.42
32:CK:29:GLY:CA	1:D1:962:G:H5'	2.41	0.42
6:DF:106:PHE:HD2	6:DF:110:ARG:HH21	1.67	0.42
6:DF:26:VAL:HB	6:DF:72:LEU:HD21	2.01	0.42
9:DJ:4:ARG:HB3	9:DJ:208:LEU:HA	2.01	0.42
10:DK:79:GLU:O	10:DK:82:ILE:N	2.48	0.42
11:DL:31:VAL:HG12	11:DL:32:ALA:O	2.20	0.42
11:DL:64:TYR:O	11:DL:72:LYS:HE2	2.18	0.42
13:DN:46:VAL:HG13	13:DN:46:VAL:O	2.19	0.42
14:DO:101:LYS:O	14:DO:104:LYS:HB2	2.19	0.42
24:CC:149:ILE:HG22	14:DO:76:ILE:HD12	2.02	0.42
1:D1:298:G:C6	16:DQ:31:LYS:HG3	2.54	0.42
18:DU:45:PHE:CD1	18:DU:45:PHE:C	2.92	0.42
20:E2:67:C:C6	20:E2:67:C:H5''	2.54	0.42
20:E2:90:G:C6	20:E2:92:C:N4	2.87	0.42
22:EA:205:MET:O	22:EA:213:GLY:HA3	2.19	0.42
23:EB:45:ALA:H	23:EB:179:ILE:HG23	1.85	0.42
24:EC:81:ILE:HG23	24:EC:82:PRO:N	2.34	0.42
26:EE:22:GLN:OE1	26:EE:39:ARG:NH2	2.53	0.42
27:EF:142:LYS:HE3	27:EF:194:THR:O	2.19	0.42
29:EH:189:LYS:HE2	29:EH:199:VAL:HG12	2.00	0.42
29:EH:191:VAL:HB	29:EH:198:LYS:HB2	2.00	0.42
30:EI:13:HIS:HA	30:EI:122:ALA:O	2.19	0.42
31:EJ:44:PHE:CZ	31:EJ:63:LEU:HD13	2.54	0.42
31:EJ:87:ARG:HD2	31:EJ:88:PRO:CD	2.48	0.42
33:EL:73:ARG:HA	33:EL:74:PRO:HD2	1.55	0.42
35:EN:73:ASN:OD1	35:EN:74:GLU:OE1	2.38	0.42
37:EP:8:ARG:CD	37:EP:11:THR:HG21	2.49	0.42
38:EQ:133:ARG:HG3	38:EQ:139:ASN:HD21	1.72	0.42
45:EX:40:ILE:HG23	1:F1:664:U:OP2	2.19	0.42
34:EM:140:LYS:NZ	1:F1:1108:A:OP1	2.49	0.42
1:F1:1235:U:C6	10:FK:109:ASN:ND2	2.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1398:G:H2'	1:F1:1399:A:O5'	2.19	0.42
1:F1:1595:A:H3'	1:F1:1596:U:C6	2.55	0.42
1:F1:1668:A:C8	11:FL:69:ARG:NH1	2.87	0.42
1:F1:1681:C:C5	1:F1:1823:A:H5''	2.54	0.42
1:F1:2246:G:C2	1:F1:2261:U:O2	2.72	0.42
1:F1:2587:G:C6	1:F1:2588:U:C4	3.08	0.42
1:F1:2641:U:C4	1:F1:2748:U:O2	2.73	0.42
1:F1:2680:A:H2'	1:F1:2681:A:O5'	2.20	0.42
1:F1:2904:C:O5'	1:F1:2904:C:H6	2.02	0.42
1:F1:29:C:C2'	1:F1:30:U:H5'	2.49	0.42
1:F1:3011:G:C1'	1:F1:3012:U:OP2	2.67	0.42
1:F1:3031:U:C2'	1:F1:3032:C:H5'	2.49	0.42
1:F1:3061:A:H2'	1:F1:3062:A:H5'	2.02	0.42
1:F1:43:A:C5	1:F1:44:U:C5	3.07	0.42
24:EC:49:ARG:CZ	1:F1:713:G:N2	2.82	0.42
1:F1:726:G:O2'	1:F1:727:C:H5'	2.19	0.42
35:EN:67:ARG:HG2	1:F1:810:G:OP1	2.20	0.42
1:F1:835:A:H2'	1:F1:836:U:H6	1.84	0.42
5:FE:56:GLY:N	5:FE:59:ARG:HB3	2.33	0.42
5:FE:77:THR:HG23	5:FE:87:LEU:HD23	2.02	0.42
1:F1:615:G:N2	8:FH:79:LYS:HE2	2.33	0.42
9:FJ:49:ILE:HD11	9:FJ:88:LEU:HD13	2.00	0.42
12:FM:43:ILE:CD1	12:FM:58:ILE:HD11	2.50	0.42
14:FO:6:TRP:CE3	14:FO:6:TRP:HA	2.55	0.42
16:FQ:5:GLN:O	16:FQ:12:GLY:CA	2.67	0.42
19:FX:42:ARG:NH2	19:FX:140:THR:CB	2.64	0.42
20:G2:76:U:H5'	20:G2:77:U:OP2	2.20	0.42
21:G3:108:G:H2'	21:G3:109:U:O4'	2.19	0.42
21:G3:33:U:C2	34:GM:212:TYR:HD1	2.37	0.42
21:G3:39:U:N1	25:GD:46:VAL:CG2	2.82	0.42
24:GC:153:GLN:HA	24:GC:153:GLN:OE1	2.19	0.42
24:GC:19:THR:CG2	24:GC:20:ALA:N	2.81	0.42
24:GC:215:VAL:HG23	24:GC:256:ILE:CG2	2.48	0.42
29:GH:213:ARG:HH12	1:H1:1040:A:H1'	1.83	0.42
35:GN:147:GLU:O	35:GN:148:ALA:C	2.58	0.42
24:GC:34:ARG:NE	35:GN:24:ASN:CB	2.83	0.42
39:GR:74:PRO:HB3	39:GR:149:LEU:HD11	2.00	0.42
39:GR:91:VAL:HG13	39:GR:131:TYR:CD1	2.54	0.42
20:G2:69:A:H5'	42:GU:11:ARG:HH22	1.83	0.42
43:GV:107:GLN:HG2	43:GV:110:ASN:HD21	1.84	0.42
35:GN:6:HIS:ND1	1:H1:1131:G:C4	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:1384:G:C2	1:H1:1385:C:C6	3.08	0.42
1:H1:997:G:H4'	1:H1:1399:A:O2'	2.18	0.42
1:H1:1435:C:O2'	1:H1:1436:C:H5'	2.19	0.42
1:H1:1554:G:H2'	1:H1:1555:A:H8	1.83	0.42
1:H1:2255:U:C2'	1:H1:2256:G:C8	3.00	0.42
1:H1:2255:U:C3'	1:H1:2256:G:C8	3.02	0.42
1:H1:2345:C:O2'	1:H1:2346:U:H5'	2.19	0.42
30:GI:69:VAL:HG22	1:H1:2377:G:O2'	2.17	0.42
1:H1:2391:G:H3'	1:H1:2393:A:H5''	2.02	0.42
1:H1:239:G:C6	1:H1:240:A:N6	2.87	0.42
1:H1:159:G:C2	1:H1:262:C:O2	2.73	0.42
1:H1:2753:C:C5	1:H1:2754:C:C5	3.07	0.42
23:GB:224:PHE:HB2	1:H1:3267:A:OP1	2.19	0.42
1:H1:34:C:H4'	1:H1:833:A:C2	2.53	0.42
1:H1:361:A:C3'	1:H1:362:G:H5''	2.48	0.42
1:H1:468:A:N6	1:H1:469:U:C4	2.87	0.42
1:H1:469:U:H3	1:H1:510:A:H61	1.68	0.42
3:HB:6:THR:HG22	3:HB:8:ASN:H	1.84	0.42
8:HH:56:VAL:HG22	8:HH:106:VAL:HG22	2.01	0.42
8:HH:20:PHE:CE2	8:HH:99:ALA:HB3	2.55	0.42
8:HH:38:LYS:HE2	8:HH:42:VAL:O	2.20	0.42
18:HU:40:GLN:OE1	18:HU:40:GLN:HA	2.19	0.42
1:H1:73:G:H5'	18:HU:56:VAL:HG11	2.01	0.42
1:A1:1025:G:H1'	1:A1:1028:A:N6	2.35	0.42
1:A1:1048:U:O2'	1:A1:1049:U:H5'	2.20	0.42
1:A1:1167:G:H2'	1:A1:1168:C:C6	2.52	0.42
1:A1:1344:A:O2'	1:A1:1345:A:H3'	2.20	0.42
1:A1:1427:G:H2'	1:A1:1428:G:O5'	2.19	0.42
1:A1:1435:C:O2'	1:A1:1436:C:H5'	2.19	0.42
1:A1:174:A:N6	1:A1:246:G:C5	2.87	0.42
1:A1:1820:U:C4'	1:A1:1821:U:OP2	2.67	0.42
1:A1:2561:A:C2	1:A1:2563:U:C4	3.08	0.42
1:A1:2793:G:C5	1:A1:2794:U:C5	3.07	0.42
1:A1:2887:C:C5	26:BE:171:ARG:NH2	2.85	0.42
1:A1:348:A:C4	20:B2:27:G:H1'	2.54	0.42
1:A1:459:G:H1'	1:A1:519:A:H62	1.83	0.42
1:A1:471:A:C2'	1:A1:472:C:O5'	2.68	0.42
1:A1:47:G:OP1	33:BL:192:TRP:NE1	2.53	0.42
1:A1:57:G:O3'	1:A1:58:A:C4'	2.59	0.42
1:A1:611:A:O5'	1:A1:611:A:H8	2.03	0.42
6:AF:93:LYS:O	6:AF:97:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:107:MET:CB	8:AH:109:TYR:CE2	3.03	0.42
12:AM:79:LYS:HB2	12:AM:105:TYR:CE2	2.53	0.42
13:AN:23:ALA:CB	13:AN:43:VAL:HG12	2.46	0.42
15:AP:15:TRP:O	15:AP:72:TYR:CE1	2.73	0.42
15:AP:15:TRP:CE3	15:AP:69:PRO:HG3	2.54	0.42
20:B2:22:A:O2'	20:B2:23:U:H5'	2.20	0.42
22:BA:12:ARG:NH2	22:BA:14:ASN:HD22	2.12	0.42
23:BB:157:ARG:HG2	23:BB:180:GLN:CB	2.50	0.42
23:BB:218:VAL:O	23:BB:332:ARG:NE	2.53	0.42
24:BC:33:ILE:CG2	24:BC:33:ILE:O	2.66	0.42
26:BE:141:THR:HG22	26:BE:142:LEU:H	1.83	0.42
26:BE:80:ARG:O	26:BE:84:GLU:O	2.38	0.42
30:BI:140:LEU:HA	30:BI:140:LEU:HD12	1.82	0.42
1:A1:3160:A:OP1	30:BI:3:ASP:OD1	2.37	0.42
34:BM:11:ALA:O	34:BM:12:TYR:C	2.58	0.42
39:BR:145:ASN:HA	39:BR:150:ILE:HD11	2.00	0.42
40:BS:33:HIS:O	40:BS:104:VAL:HA	2.20	0.42
42:BU:78:SER:O	42:BU:79:LEU:CB	2.68	0.42
44:BW:7:LYS:H	44:BW:76:LYS:HB3	1.83	0.42
45:BX:6:VAL:CG1	45:BX:7:ALA:N	2.69	0.42
45:BX:75:LYS:NZ	45:BX:97:GLU:OE1	2.49	0.42
20:C2:2:G:O2'	1:D1:2983:A:H1'	2.19	0.42
21:C3:75:G:O2'	21:C3:76:U:P	2.77	0.42
24:CC:69:ALA:HB1	24:CC:96:ALA:CB	2.49	0.42
25:CD:57:PHE:HE1	1:D1:2666:G:C6	2.38	0.42
27:CF:144:VAL:HG23	27:CF:168:VAL:CG1	2.49	0.42
28:CG:28:UNK:N	28:CG:112:UNK:O	2.52	0.42
31:CJ:11:VAL:HG21	31:CJ:131:PRO:HD3	2.01	0.42
33:CL:44:ARG:NH1	33:CL:47:LYS:HG2	2.34	0.42
33:CL:65:ARG:HB2	33:CL:127:TYR:CD2	2.43	0.42
35:CN:141:ARG:HH22	1:D1:1002:A:P	2.42	0.42
37:CP:54:TYR:CE1	1:D1:2713:U:H4'	2.55	0.42
38:CQ:77:GLU:HB2	38:CQ:78:PHE:CD2	2.54	0.42
45:CX:46:ARG:HD2	45:CX:48:PHE:CE2	2.55	0.42
1:D1:1150:U:H2'	1:D1:1151:U:O5'	2.19	0.42
1:D1:1312:G:H2'	1:D1:1313:A:C8	2.55	0.42
1:D1:663:G:H4'	1:D1:1460:G:O6	2.19	0.42
1:D1:1652:U:H3'	1:D1:1652:U:H6	1.85	0.42
1:D1:1818:C:H2'	1:D1:1821:U:C5	2.55	0.42
1:D1:2187:C:C2'	1:D1:2188:U:C5'	2.97	0.42
1:D1:2194:G:O2'	1:D1:2195:U:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:221:A:H2'	50:D1:3839:HOH:O	2.20	0.42
1:D1:2260:C:H2'	1:D1:2261:U:C6	2.55	0.42
1:D1:2558:U:H2'	1:D1:2559:U:C6	2.55	0.42
1:D1:2563:U:C2	1:D1:2564:G:C8	3.07	0.42
1:D1:2710:A:C2	1:D1:2725:A:C2	3.07	0.42
1:D1:2751:A:N6	1:D1:2788:G:H2'	2.35	0.42
1:D1:2871:U:H2'	1:D1:2872:C:C6	2.54	0.42
1:D1:2971:C:O2'	1:D1:2972:C:H5'	2.20	0.42
1:D1:3096:U:O5'	1:D1:3096:U:H6	2.03	0.42
1:D1:3110:U:H4'	1:D1:3111:A:H5'	2.02	0.42
1:D1:3115:C:H2'	1:D1:3116:A:O4'	2.19	0.42
1:D1:3169:A:C8	19:DX:189:PHE:CE2	3.07	0.42
24:CC:55:VAL:CG1	1:D1:345:C:OP1	2.66	0.42
1:D1:63:A:H5''	1:D1:64:A:H4'	2.00	0.42
1:D1:689:A:H2'	1:D1:690:U:H6	1.85	0.42
1:D1:977:A:H4'	1:D1:993:G:N2	2.34	0.42
1:D1:3230:G:C5	5:DE:119:ARG:HD2	2.54	0.42
8:DH:20:PHE:CE2	8:DH:99:ALA:HB3	2.55	0.42
9:DJ:42:LEU:HD21	9:DJ:205:PHE:CE1	2.54	0.42
9:DJ:46:ILE:HG22	9:DJ:47:PRO:O	2.18	0.42
1:D1:1663:C:OP1	11:DL:54:ASN:HB2	2.20	0.42
16:DQ:36:LYS:O	16:DQ:40:LEU:HG	2.19	0.42
16:DQ:83:THR:O	16:DQ:84:HIS:C	2.56	0.42
19:DX:134:THR:CG2	19:DX:134:THR:O	2.67	0.42
19:DX:150:ARG:O	19:DX:154:LEU:HG	2.19	0.42
20:E2:40:A:H5''	20:E2:42:G:O4'	2.19	0.42
20:E2:71:G:H2'	20:E2:72:C:H6	1.84	0.42
21:E3:96:U:H2'	21:E3:97:G:H5''	2.01	0.42
22:EA:41:TYR:CD1	22:EA:41:TYR:N	2.87	0.42
23:EB:82:PRO:HG3	23:EB:167:LEU:HD21	2.02	0.42
24:EC:194:LEU:HD23	24:EC:194:LEU:HA	1.64	0.42
27:EF:45:VAL:HB	27:EF:47:TRP:CZ2	2.55	0.42
33:EL:57:ASP:OD1	1:F1:144:A:O2'	2.31	0.42
33:EL:93:LYS:HG3	1:F1:288:A:N3	2.35	0.42
34:EM:173:ILE:HA	34:EM:174:PRO:HD3	1.80	0.42
40:ES:3:THR:HG22	40:ES:3:THR:O	2.20	0.42
41:ET:50:LYS:HB3	1:F1:2107:A:H5'	2.01	0.42
20:E2:67:C:P	42:EU:53:LYS:HZ3	2.36	0.42
43:EV:107:GLN:NE2	43:EV:203:LYS:HE2	2.34	0.42
44:EW:79:ASN:OD1	44:EW:81:GLU:HG2	2.20	0.42
1:F1:1102:U:H2'	17:FT:45:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1246:A:C4	1:F1:1314:A:C2	3.08	0.42
1:F1:1594:C:C2'	1:F1:1595:A:H5'	2.48	0.42
46:EY:51:ALA:HA	1:F1:1821:U:O4	2.20	0.42
1:F1:1831:G:O2'	11:FL:78:TYR:HD2	2.03	0.42
1:F1:1926:G:OP2	1:F1:2907:A:OP1	2.37	0.42
33:EL:74:PRO:HA	1:F1:2162:A:H1'	2.01	0.42
1:F1:2667:A:C6	1:F1:2668:A:C6	3.08	0.42
1:F1:2678:A:H5'	1:F1:2679:G:C5	2.55	0.42
1:F1:2701:U:H4'	1:F1:2732:G:O3'	2.19	0.42
1:F1:2793:G:H2'	1:F1:2794:U:H6	1.83	0.42
1:F1:296:G:N7	16:FQ:42:ARG:NH1	2.67	0.42
1:F1:3177:G:C2	19:FX:177:TYR:CD2	3.08	0.42
1:F1:3198:A:N6	1:F1:3213:G:H1'	2.35	0.42
1:F1:459:G:H2'	1:F1:517:A:C2	2.55	0.42
43:EV:64:ARG:HD3	1:F1:565:G:C6	2.54	0.42
1:F1:627:U:O2	1:F1:630:G:O6	2.38	0.42
1:F1:970:C:O2'	1:F1:1432:G:H1'	2.20	0.42
6:FF:67:GLN:HE22	6:FF:75:LYS:HG3	1.85	0.42
9:FJ:101:LEU:HD11	9:FJ:118:HIS:CD2	2.54	0.42
9:FJ:112:ASP:N	9:FJ:156:ASN:HD21	2.11	0.42
1:F1:1845:U:O2	11:FL:69:ARG:HB2	2.20	0.42
1:F1:1706:U:O2	12:FM:84:LYS:HE3	2.19	0.42
14:FO:111:LEU:O	14:FO:112:VAL:C	2.58	0.42
14:FO:56:GLN:HE21	14:FO:56:GLN:HB2	1.50	0.42
15:FP:11:PHE:O	15:FP:15:TRP:HD1	2.02	0.42
18:FU:123:LEU:O	18:FU:125:PRO:HD3	2.20	0.42
19:FX:48:GLU:O	19:FX:52:LYS:HG3	2.20	0.42
22:GA:186:GLN:HB3	22:GA:197:TRP:CZ2	2.55	0.42
23:GB:119:TYR:CE1	1:H1:3255:A:C5'	3.03	0.42
23:GB:33:PRO:CD	23:GB:44:THR:CG2	2.97	0.42
23:GB:365:HIS:HA	41:GT:19:ARG:HH22	1.83	0.42
24:GC:166:TYR:OH	24:GC:175:PHE:HD2	2.02	0.42
24:GC:28:VAL:HG13	24:GC:270:PHE:CD2	2.54	0.42
24:GC:42:PHE:CD1	24:GC:244:LEU:HD23	2.54	0.42
27:GF:142:LYS:NZ	27:GF:201:LYS:NZ	2.68	0.42
27:GF:170:PHE:CD1	27:GF:216:ASN:OD1	2.73	0.42
27:GF:66:VAL:N	27:GF:226:GLY:O	2.52	0.42
28:GG:109:UNK:O	28:GG:112:UNK:HB2	2.19	0.42
30:GI:137:LEU:HA	30:GI:137:LEU:HD12	1.89	0.42
30:GI:13:HIS:HA	30:GI:122:ALA:O	2.19	0.42
31:GJ:84:ARG:HG2	31:GJ:99:PHE:CG	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:GP:80:VAL:O	37:GP:83:ARG:HG2	2.19	0.42
38:GQ:133:ARG:HG3	38:GQ:139:ASN:HD21	1.69	0.42
46:GY:32:THR:CG2	46:GY:70:GLU:HG2	2.50	0.42
1:H1:1053:A:O4'	1:H1:1054:G:O4'	2.38	0.42
1:H1:1150:U:H2'	1:H1:1151:U:O4'	2.18	0.42
1:H1:1171:U:H4'	1:H1:1172:G:O5'	2.19	0.42
1:H1:1430:G:C6	1:H1:1434:G:C6	3.08	0.42
1:H1:1497:U:C2	1:H1:1498:U:C5	3.07	0.42
1:H1:1599:G:N1	1:H1:1600:U:C2	2.88	0.42
1:H1:1646:G:O2'	1:H1:1647:U:H5'	2.18	0.42
1:H1:1669:G:C2	1:H1:1670:A:C5	3.08	0.42
1:H1:1691:U:H2'	1:H1:1692:G:H8	1.83	0.42
1:H1:1919:A:H2'	50:H1:4179:HOH:O	2.18	0.42
22:GA:241:ALA:HB2	1:H1:2150:U:O2'	2.20	0.42
1:H1:2253:U:OP2	1:H1:2253:U:C5	2.72	0.42
1:H1:2312:A:C2'	1:H1:2313:U:O5'	2.67	0.42
1:H1:1338:G:O2'	1:H1:2376:A:H4'	2.20	0.42
1:H1:2873:C:C4	1:H1:2874:U:O4	2.73	0.42
1:H1:3079:U:C2'	1:H1:3080:A:O5'	2.68	0.42
1:H1:3115:C:H6	1:H1:3115:C:C5'	2.25	0.42
1:H1:3229:C:O2'	1:H1:3230:G:OP1	2.32	0.42
1:H1:1909:C:H5''	1:H1:3266:G:C2	2.54	0.42
1:H1:3309:U:C2'	1:H1:3310:U:O5'	2.67	0.42
1:H1:486:C:H2'	1:H1:487:G:H5'	2.00	0.42
1:H1:459:G:C5	1:H1:517:A:C6	3.08	0.42
1:H1:579:G:H1'	19:HX:157:ARG:C	2.40	0.42
1:H1:612:C:C2'	1:H1:613:U:H5'	2.49	0.42
1:H1:680:A:H2'	1:H1:681:A:C8	2.54	0.42
1:H1:685:G:H1'	1:H1:827:C:H4'	2.02	0.42
1:H1:689:A:O2'	1:H1:690:U:H5'	2.19	0.42
1:H1:875:U:H2'	1:H1:876:C:C6	2.55	0.42
7:HG:64:GLN:OE1	7:HG:64:GLN:HA	2.20	0.42
8:HH:107:MET:CB	8:HH:109:TYR:CE2	3.03	0.42
1:H1:1614:A:C6	11:HL:13:TYR:CE2	3.08	0.42
12:HM:79:LYS:HB2	12:HM:105:TYR:CE2	2.54	0.42
11:HL:78:TYR:HE1	13:HN:144:PHE:HB2	1.84	0.42
14:HO:26:THR:O	14:HO:26:THR:HG22	2.20	0.42
16:HQ:68:LYS:HG3	16:HQ:69:ASP:N	2.35	0.42
19:HX:94:LYS:HE2	19:HX:136:GLN:HG2	2.01	0.42
1:A1:1040:A:H2'	1:A1:1041:C:C5'	2.50	0.42
1:A1:1150:U:H2'	1:A1:1151:U:O5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1227:A:C4'	1:A1:1228:C:O5'	2.65	0.42
1:A1:1248:G:H8	1:A1:1248:G:O5'	2.03	0.42
1:A1:1597:U:C5	1:A1:1598:C:C4	3.08	0.42
1:A1:1883:A:O4'	11:AL:2:ALA:HB2	2.19	0.42
1:A1:2162:A:C1'	33:BL:74:PRO:HA	2.50	0.42
1:A1:2154:A:C8	1:A1:2172:G:N2	2.87	0.42
1:A1:2277:U:HO2'	1:A1:2278:G:P	2.39	0.42
1:A1:2519:A:O2'	1:A1:2520:G:H5'	2.19	0.42
1:A1:2559:U:O2	1:A1:2561:A:N1	2.52	0.42
1:A1:2574:U:O2	27:BF:58:ARG:HG2	2.19	0.42
1:A1:3033:A:H4'	23:BB:13:SER:HB2	2.02	0.42
1:A1:3156:A:H4'	1:A1:3159:A:C5	2.55	0.42
1:A1:3206:A:H2'	30:BI:109:THR:HG22	2.00	0.42
1:A1:588:G:H2'	1:A1:589:C:C6	2.55	0.42
1:A1:607:U:H2'	1:A1:608:C:H6	1.83	0.42
1:A1:637:U:C2	1:A1:638:U:C5	3.08	0.42
1:A1:651:U:H2'	1:A1:652:U:H6	1.85	0.42
1:A1:718:A:H2'	1:A1:719:C:H6	1.83	0.42
7:AG:102:LYS:C	7:AG:103:THR:HG1	2.16	0.42
9:AJ:115:ALA:CB	9:AJ:135:VAL:HG11	2.49	0.42
1:A1:1880:C:C1'	11:AL:7:TYR:CE1	3.03	0.42
14:AO:43:THR:HB	14:AO:44:HIS:H	1.61	0.42
14:AO:6:TRP:CE3	14:AO:6:TRP:HA	2.55	0.42
19:AX:124:MET:CE	19:AX:128:HIS:HB2	2.50	0.42
19:AX:8:GLU:CD	19:AX:19:ARG:HH11	2.22	0.42
1:A1:3132:A:C2'	20:B2:2:G:O6	2.61	0.42
23:BB:113:ASN:C	23:BB:174:ASN:HD22	2.22	0.42
23:BB:233:VAL:HG12	23:BB:234:LYS:O	2.19	0.42
1:A1:3325:G:H22	23:BB:378:PHE:HA	1.83	0.42
24:BC:173:VAL:O	24:BC:177:LYS:HG3	2.20	0.42
27:BF:63:ARG:CZ	27:BF:231:GLY:HA3	2.50	0.42
29:BH:34:TYR:HD2	29:BH:89:CYS:HB3	1.84	0.42
30:BI:171:VAL:O	30:BI:172:LYS:C	2.56	0.42
32:BK:89:ARG:HA	32:BK:121:GLN:HE22	1.85	0.42
33:BL:183:SER:HB3	33:BL:195:ARG:HH22	1.84	0.42
35:BN:61:PHE:HA	35:BN:62:PRO:HD3	1.83	0.42
45:BX:88:LEU:HD12	45:BX:88:LEU:HA	1.75	0.42
20:C2:110:A:C2	20:C2:115:G:O6	2.73	0.42
20:C2:67:C:C6	20:C2:67:C:H5''	2.54	0.42
21:C3:11:A:H2'	21:C3:12:U:H5''	2.02	0.42
22:CA:192:ARG:CZ	1:D1:1821:U:OP2	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:35:PHE:O	22:CA:38:ARG:HG3	2.20	0.42
23:CB:141:ALA:O	23:CB:144:LEU:HB2	2.20	0.42
24:CC:145:ARG:HH22	24:CC:248:PRO:HB2	1.85	0.42
27:CF:170:PHE:CE1	27:CF:216:ASN:OD1	2.72	0.42
27:CF:243:LYS:O	27:CF:247:GLU:HG3	2.20	0.42
32:CK:101:VAL:HG22	32:CK:124:VAL:HB	2.01	0.42
33:CL:148:ILE:O	33:CL:148:ILE:CG2	2.68	0.42
34:CM:212:TYR:CE2	34:CM:227:GLN:NE2	2.88	0.42
34:CM:48:LYS:HE2	34:CM:145:ILE:HD11	2.01	0.42
34:CM:83:LEU:O	34:CM:88:VAL:HG22	2.19	0.42
47:CO:106:LEU:HD11	47:CO:123:PHE:HB3	2.01	0.42
38:CQ:76:HIS:O	38:CQ:78:PHE:N	2.53	0.42
40:CS:51:LYS:HG3	40:CS:51:LYS:O	2.18	0.42
41:CT:27:ASP:OD1	41:CT:27:ASP:N	2.51	0.42
43:CV:134:GLY:HA3	43:CV:231:ILE:CG2	2.50	0.42
24:CC:320:LYS:NZ	43:CV:146:TYR:O	2.51	0.42
44:CW:105:THR:HG21	1:D1:3341:C:H1'	2.01	0.42
46:CY:61:LYS:HD3	11:DL:48:GLY:O	2.19	0.42
1:D1:1022:A:H2'	1:D1:1023:A:O4'	2.20	0.42
1:D1:1039:G:HO2'	1:D1:1041:C:H41	1.60	0.42
1:D1:1050:C:C5	1:D1:1051:C:N3	2.87	0.42
1:D1:1052:A:N3	1:D1:1052:A:H2'	2.35	0.42
1:D1:1109:A:C4'	1:D1:1110:U:O5'	2.62	0.42
1:D1:1370:A:C2	1:D1:1389:G:N1	2.87	0.42
24:CC:314:THR:CG2	1:D1:1372:A:N3	2.82	0.42
1:D1:130:G:C6	1:D1:137:A:C6	3.08	0.42
1:D1:13:C:H2'	1:D1:14:A:H8	1.85	0.42
1:D1:1481:U:O2'	1:D1:1482:A:P	2.77	0.42
1:D1:148:G:O2'	1:D1:149:U:O5'	2.37	0.42
1:D1:1522:C:C2	1:D1:1547:G:N2	2.87	0.42
1:D1:1795:C:O2'	1:D1:1796:U:H5'	2.19	0.42
1:D1:1817:C:H2'	1:D1:1818:C:C6	2.54	0.42
1:D1:1932:A:H2'	1:D1:1933:A:O4'	2.19	0.42
30:CI:69:VAL:HG22	1:D1:2377:G:O2'	2.18	0.42
1:D1:2543:C:H5''	1:D1:2544:U:C5	2.55	0.42
1:D1:2546:A:O2'	11:DL:90:ARG:HD3	2.19	0.42
1:D1:2595:G:H4'	1:D1:2596:G:OP1	2.19	0.42
1:D1:2759:A:O2'	1:D1:2760:C:H5'	2.20	0.42
1:D1:2767:A:C6	1:D1:2768:G:C5	3.08	0.42
1:D1:2601:U:H1'	1:D1:2791:A:N3	2.35	0.42
20:C2:2:G:C5	1:D1:2983:A:C2	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:3185:G:C5	1:D1:3237:C:C4	3.07	0.42
1:D1:3198:A:C6	1:D1:3199:G:C6	3.08	0.42
1:D1:3205:A:H4'	1:D1:3206:A:OP1	2.20	0.42
1:D1:3194:G:N2	1:D1:3217:U:H1'	2.35	0.42
23:CB:171:GLN:CG	1:D1:3273:U:H5''	2.50	0.42
1:D1:3349:U:H2'	1:D1:3350:U:C6	2.54	0.42
1:D1:393:U:O2	1:D1:395:A:C8	2.72	0.42
1:D1:440:C:C4	1:D1:538:A:H2	2.38	0.42
1:D1:591:G:H4'	6:DF:64:GLU:OE1	2.19	0.42
1:D1:703:U:H2'	1:D1:704:G:C8	2.54	0.42
1:D1:773:C:C2'	1:D1:774:A:O5'	2.67	0.42
1:D1:788:C:H1'	18:DU:179:ARG:NH2	2.34	0.42
6:DF:27:ILE:CD1	6:DF:36:ILE:HD12	2.50	0.42
1:D1:1668:A:N7	11:DL:69:ARG:NH1	2.67	0.42
12:DM:15:LEU:HG	12:DM:17:PHE:CE2	2.55	0.42
1:D1:1379:G:OP2	14:DO:102:GLY:CA	2.67	0.42
1:D1:1771:U:H4'	15:DP:54:LYS:HZ2	1.85	0.42
18:DU:123:LEU:HD22	18:DU:135:LEU:O	2.20	0.42
19:DX:96:GLN:CB	19:DX:134:THR:CG2	2.97	0.42
20:E2:77:U:H2'	40:ES:73:TYR:OH	2.20	0.42
20:E2:87:C:O2'	20:E2:88:G:H5'	2.18	0.42
23:EB:278:LYS:HB3	23:EB:322:ILE:CG2	2.49	0.42
24:EC:145:ARG:HH22	24:EC:248:PRO:HB2	1.85	0.42
24:EC:260:GLU:OE1	24:EC:264:LYS:HE3	2.19	0.42
24:EC:25:LEU:HA	24:EC:26:PRO:HD2	1.86	0.42
26:EE:94:PHE:CD1	26:EE:98:PRO:HA	2.55	0.42
27:EF:115:LYS:HG2	27:EF:116:GLN:N	2.34	0.42
27:EF:145:VAL:HG13	27:EF:173:VAL:HG23	2.02	0.42
27:EF:196:VAL:HG21	27:EF:204:LEU:HD11	2.01	0.42
29:EH:54:SER:O	29:EH:54:SER:OG	2.37	0.42
35:EN:174:PHE:O	35:EN:176:ARG:N	2.53	0.42
35:EN:25:VAL:CG1	14:FO:7:GLU:CB	2.97	0.42
35:EN:61:PHE:CD2	35:EN:144:LYS:HA	2.55	0.42
36:EO:21:ARG:O	36:EO:53:ARG:HG3	2.19	0.42
38:EQ:62:PHE:HE1	38:EQ:84:ARG:HB2	1.82	0.42
39:ER:39:ARG:NH1	1:F1:11:A:H4'	2.34	0.42
42:EU:104:VAL:HG13	42:EU:108:THR:CB	2.46	0.42
45:EX:75:LYS:NZ	45:EX:97:GLU:OE1	2.49	0.42
1:F1:1158:G:C4	1:F1:2368:A:C2	3.07	0.42
1:F1:1227:A:HO2'	1:F1:1228:C:P	2.42	0.42
1:F1:135:A:C4'	1:F1:136:C:OP2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1397:G:N7	50:F1:4103:HOH:O	2.51	0.42
1:F1:1617:G:O2'	1:F1:1618:A:P	2.77	0.42
1:F1:1652:U:H4'	1:F1:1655:A:H5'	2.02	0.42
1:F1:190:U:C4	1:F1:224:C:O4'	2.73	0.42
22:EA:55:ARG:HH12	1:F1:2172:G:P	2.43	0.42
1:F1:2255:U:OP2	1:F1:2255:U:C6	2.73	0.42
1:F1:2353:C:H3'	1:F1:2354:C:C6	2.54	0.42
39:ER:35:VAL:HG11	1:F1:2518:A:H3'	2.02	0.42
34:EM:36:LEU:HD23	1:F1:2737:A:N3	2.35	0.42
1:F1:2871:U:H2'	1:F1:2872:C:H6	1.85	0.42
1:F1:296:G:P	1:F1:296:G:H8	2.42	0.42
1:F1:3047:U:C3'	1:F1:3047:U:C6	3.02	0.42
1:F1:3053:U:C4	1:F1:3069:G:N1	2.88	0.42
1:F1:3095:A:H61	1:F1:3117:G:H1'	1.85	0.42
1:F1:3127:U:O2'	1:F1:3128:G:H5''	2.18	0.42
1:F1:3222:U:C2'	1:F1:3223:G:H5'	2.50	0.42
1:F1:347:A:H4'	1:F1:366:A:H62	1.84	0.42
1:F1:591:G:H8	1:F1:591:G:C5'	2.33	0.42
1:F1:603:A:H2'	1:F1:604:A:H8	1.83	0.42
1:F1:612:C:C2'	1:F1:613:U:H5'	2.50	0.42
1:F1:61:A:C6	1:F1:62:G:C6	3.07	0.42
1:F1:630:G:H2'	1:F1:631:G:C4'	2.49	0.42
1:F1:788:C:C5	1:F1:790:C:C5	3.07	0.42
1:F1:792:G:H5'	18:FU:190:TRP:CE3	2.54	0.42
1:F1:805:A:C5'	1:F1:806:G:OP2	2.67	0.42
1:F1:1865:A:H1'	3:FB:45:ARG:HH22	1.83	0.42
1:F1:2783:U:OP2	4:FC:61:LYS:HG2	2.20	0.42
5:FE:122:ALA:HB3	5:FE:132:ALA:HB1	2.02	0.42
5:FE:75:LEU:HD23	5:FE:75:LEU:HA	1.48	0.42
7:FG:8:ASP:HA	7:FG:11:GLN:HE21	1.82	0.42
5:FE:179:THR:OG1	8:FH:12:THR:HA	2.20	0.42
9:FJ:42:LEU:HD21	9:FJ:205:PHE:HE1	1.85	0.42
14:FO:40:LEU:O	14:FO:44:HIS:ND1	2.52	0.42
17:FT:30:ILE:HG22	17:FT:31:SER:N	2.35	0.42
19:FX:28:LEU:O	19:FX:29:PRO:C	2.57	0.42
22:GA:112:THR:HG22	22:GA:113:VAL:N	2.34	0.42
22:GA:68:TYR:C	22:GA:69:ARG:HG2	2.38	0.42
23:GB:72:VAL:HG12	23:GB:73:VAL:N	2.35	0.42
24:GC:23:LEU:HD11	24:GC:264:LYS:HE2	2.02	0.42
24:GC:316:THR:O	24:GC:317:HIS:CD2	2.69	0.42
24:GC:43:THR:CG2	24:GC:47:LYS:HE3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:65:MET:CE	24:GC:105:ARG:CG	2.95	0.42
25:GD:17:LEU:CD1	25:GD:129:VAL:HG22	2.47	0.42
26:GE:144:LEU:HD13	26:GE:155:THR:CG2	2.50	0.42
27:GF:124:VAL:HG12	27:GF:125:LEU:N	2.35	0.42
36:GO:28:GLU:O	36:GO:31:GLU:HB3	2.19	0.42
37:GP:11:THR:CG2	37:GP:15:PHE:CD2	3.03	0.42
1:H1:1021:U:H2'	1:H1:1022:A:H5'	2.00	0.42
1:H1:1048:U:N3	1:H1:1049:U:C5	2.88	0.42
30:GI:132:ARG:NH1	1:H1:1216:C:O2'	2.53	0.42
1:H1:1370:A:N3	1:H1:1389:G:C2	2.88	0.42
1:H1:121:A:C6	1:H1:150:A:C6	3.07	0.42
1:H1:1533:G:C8	1:H1:1533:G:H5''	2.55	0.42
1:H1:1755:A:O2'	1:H1:1756:U:H5'	2.19	0.42
1:H1:1758:U:C5'	1:H1:1759:C:OP2	2.68	0.42
1:H1:1856:C:H4'	3:HB:7:LEU:HG	2.00	0.42
1:H1:1869:G:H4'	2:HA:8:PHE:HD2	1.84	0.42
1:H1:2178:A:C2'	1:H1:2179:U:O5'	2.68	0.42
1:H1:2292:U:O2'	1:H1:2908:U:H4'	2.20	0.42
1:H1:2749:C:O2	1:H1:2749:C:H2'	2.19	0.42
1:H1:3095:A:H61	1:H1:3117:G:H1'	1.83	0.42
1:H1:3229:C:C2'	1:H1:3229:C:O2	2.68	0.42
1:H1:977:A:H4'	1:H1:993:G:N2	2.34	0.42
2:HA:36:ALA:HB1	2:HA:58:LYS:NZ	2.35	0.42
5:HE:185:ARG:HB3	5:HE:187:HIS:CE1	2.54	0.42
5:HE:40:LYS:O	5:HE:41:LEU:HD23	2.19	0.42
5:HE:73:LEU:H	5:HE:73:LEU:HG	1.60	0.42
6:HF:106:PHE:HD2	6:HF:110:ARG:HH21	1.65	0.42
9:HJ:42:LEU:HD21	9:HJ:205:PHE:CE1	2.55	0.42
9:HJ:30:ALA:HB3	9:HJ:35:TYR:CE1	2.54	0.42
9:HJ:71:LEU:HB3	9:HJ:97:ILE:CD1	2.49	0.42
1:H1:1091:G:H1'	17:HT:28:ARG:NH1	2.35	0.42
19:HX:113:LEU:HD12	19:HX:116:ALA:HB3	2.02	0.42
1:A1:1018:A:C2'	1:A1:1019:G:H5'	2.50	0.42
1:A1:1050:C:C4	1:A1:1051:C:N3	2.88	0.42
1:A1:116:U:H3'	1:A1:117:G:C8	2.53	0.42
1:A1:1310:C:C5	1:A1:1311:C:C4	3.08	0.42
1:A1:136:C:O2'	1:A1:137:A:H5'	2.20	0.42
1:A1:1495:C:O2	1:A1:1535:A:C2	2.73	0.42
1:A1:1592:G:N2	1:A1:1602:U:H1'	2.34	0.42
1:A1:1595:A:H2'	1:A1:1596:U:O4'	2.20	0.42
1:A1:1662:A:OP2	13:AN:16:GLY:HA2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1682:G:H2'	1:A1:1683:U:C6	2.55	0.42
1:A1:1757:A:H2'	1:A1:1758:U:C6	2.54	0.42
1:A1:2247:A:C4	1:A1:2248:G:C8	3.08	0.42
1:A1:2558:U:H2'	1:A1:2559:U:C6	2.55	0.42
1:A1:2765:C:C2'	1:A1:2765:C:O2	2.64	0.42
1:A1:296:G:H8	1:A1:296:G:P	2.42	0.42
1:A1:283:A:N7	1:A1:305:A:C8	2.87	0.42
1:A1:3086:U:H2'	1:A1:3087:G:H8	1.83	0.42
1:A1:3106:C:H2'	1:A1:3107:C:C5'	2.46	0.42
1:A1:3175:A:N1	1:A1:3177:G:N1	2.68	0.42
1:A1:3230:G:O2'	1:A1:3231:U:OP2	2.38	0.42
1:A1:3308:A:C2	1:A1:3309:U:C2	3.08	0.42
1:A1:3344:U:H2'	1:A1:3344:U:O2	2.20	0.42
1:A1:452:U:O2'	1:A1:453:A:O5'	2.37	0.42
1:A1:499:U:H3'	1:A1:500:G:H8	1.84	0.42
1:A1:577:C:C2'	1:A1:578:G:H5'	2.50	0.42
1:A1:729:A:C4'	1:A1:810:G:H21	2.33	0.42
1:A1:762:G:C2	1:A1:763:G:C8	3.07	0.42
1:A1:894:G:C6	1:A1:895:A:C6	3.08	0.42
2:AA:84:GLN:HA	2:AA:84:GLN:OE1	2.19	0.42
6:AF:11:ARG:O	6:AF:26:VAL:HA	2.20	0.42
9:AJ:187:ASN:ND2	9:AJ:207:GLY:HA3	2.19	0.42
11:AL:59:VAL:HG12	11:AL:60:ARG:O	2.20	0.42
11:AL:7:TYR:HE2	11:AL:18:ASN:OD1	2.03	0.42
12:AM:56:ILE:HG13	12:AM:69:SER:OG	2.19	0.42
14:AO:44:HIS:HD2	14:AO:46:HIS:HD2	1.68	0.42
15:AP:11:PHE:O	15:AP:15:TRP:HD1	2.02	0.42
15:AP:46:GLY:O	15:AP:47:LYS:C	2.58	0.42
1:A1:1849:G:OP1	15:AP:47:LYS:HB2	2.19	0.42
19:AX:16:MET:CG	19:AX:17:LYS:H	2.33	0.42
2:AA:68:MET:HG3	20:B2:44:A:OP1	2.20	0.42
21:B3:7:G:O6	34:BM:21:ARG:NH1	2.49	0.42
22:BA:188:HIS:O	22:BA:191:ALA:HB3	2.20	0.42
1:A1:2170:A:O2'	22:BA:24:ARG:HD2	2.20	0.42
24:BC:323:PRO:HG2	43:BV:146:TYR:HB3	2.02	0.42
24:BC:34:ARG:O	24:BC:38:VAL:HG23	2.20	0.42
25:BD:80:LEU:HA	25:BD:80:LEU:HD23	1.97	0.42
26:BE:70:SER:O	26:BE:74:GLN:HG3	2.20	0.42
27:BF:19:ASN:CB	27:BF:20:PRO:CD	2.95	0.42
31:BJ:113:MET:HB3	31:BJ:113:MET:HE3	1.84	0.42
1:A1:734:A:H1'	32:BK:59:GLY:HA3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:282:G:N3	32:BK:63:PHE:CE1	2.88	0.42
33:BL:145:ASP:HA	33:BL:146:PRO:HD3	1.85	0.42
33:BL:148:ILE:O	33:BL:148:ILE:CG2	2.67	0.42
34:BM:240:VAL:HG12	34:BM:241:ASP:N	2.35	0.42
34:BM:38:ILE:HD12	37:BP:70:ARG:NH1	2.35	0.42
34:BM:60:ILE:HD12	34:BM:98:ALA:N	2.35	0.42
35:BN:73:ASN:H	35:BN:76:ASN:CG	2.23	0.42
40:BS:113:SER:O	40:BS:117:LEU:HG	2.19	0.42
43:BV:124:ILE:HG22	43:BV:128:LEU:HD23	2.01	0.42
20:C2:52:G:H4'	42:CU:36:LYS:HZ1	1.85	0.42
22:CA:25:ILE:HG13	22:CA:52:GLU:HG3	2.01	0.42
22:CA:3:ARG:CG	22:CA:4:VAL:H	2.32	0.42
23:CB:119:TYR:HE1	1:D1:3255:A:H5'	1.85	0.42
23:CB:218:VAL:HB	23:CB:332:ARG:HE	1.85	0.42
23:CB:211:GLU:OE2	23:CB:338:LYS:HE2	2.20	0.42
28:CG:22:UNK:HG1	28:CG:92:UNK:HB1	2.01	0.42
29:CH:166:VAL:CG1	29:CH:167:THR:N	2.83	0.42
30:CI:109:THR:O	30:CI:111:TYR:N	2.53	0.42
32:CK:89:ARG:HA	32:CK:121:GLN:HE22	1.84	0.42
32:CK:91:LYS:NZ	1:D1:487:G:H5''	2.35	0.42
33:CL:103:GLU:CD	33:CL:165:THR:HG1	2.23	0.42
33:CL:188:ARG:HH21	1:D1:279:U:H4'	1.85	0.42
34:CM:133:ASP:HB3	34:CM:172:ASN:ND2	2.35	0.42
39:CR:150:ILE:H	39:CR:150:ILE:CD1	2.19	0.42
40:CS:26:ARG:NH1	40:CS:74:ARG:O	2.52	0.42
45:CX:113:ARG:HE	45:CX:117:LEU:HD11	1.85	0.42
1:D1:1018:A:C2'	1:D1:1019:G:H5'	2.49	0.42
1:D1:1064:C:O2'	1:D1:1065:U:H5'	2.20	0.42
1:D1:1073:A:HO2'	1:D1:1074:A:C5'	2.33	0.42
1:D1:1098:A:H2'	1:D1:1099:G:H5''	2.01	0.42
1:D1:1171:U:H4'	1:D1:1172:G:O5'	2.19	0.42
1:D1:135:A:C5'	1:D1:136:C:OP2	2.67	0.42
1:D1:1440:A:C6	1:D1:1441:U:C4	3.08	0.42
1:D1:1601:U:O2'	1:D1:1602:U:H5'	2.20	0.42
1:D1:1839:A:C4'	1:D1:1840:U:O5'	2.67	0.42
1:D1:2221:U:H2'	1:D1:2222:C:C6	2.55	0.42
1:D1:2208:A:C5	1:D1:2227:A:C6	3.07	0.42
1:D1:2378:A:H2'	1:D1:2379:A:C8	2.55	0.42
1:D1:2434:A:H2'	1:D1:2435:A:C8	2.54	0.42
1:D1:2558:U:C5	1:D1:2559:U:C4	3.08	0.42
1:D1:2561:A:C2	1:D1:2563:U:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:2576:C:C6	1:D1:2576:C:C4'	3.03	0.42
33:CL:93:LYS:HE3	1:D1:275:U:O2	2.18	0.42
20:C2:153:A:N6	1:D1:2:U:N3	2.66	0.42
1:D1:3175:A:C6	1:D1:3177:G:C6	3.07	0.42
1:D1:3234:U:O4	8:DH:68:SER:HB2	2.19	0.42
41:CT:52:THR:HB	1:D1:3292:U:C5	2.55	0.42
1:D1:40:C:O5'	1:D1:40:C:H6	2.03	0.42
1:D1:624:G:HO2'	1:D1:625:C:H6	1.57	0.42
1:D1:788:C:C5	1:D1:790:C:C5	3.07	0.42
1:D1:80:C:C2'	1:D1:81:C:O5'	2.68	0.42
1:D1:80:C:H2'	1:D1:81:C:O5'	2.19	0.42
1:D1:853:A:H2'	1:D1:854:U:C6	2.55	0.42
1:D1:868:G:C6	1:D1:869:G:N7	2.88	0.42
1:D1:917:U:H2'	1:D1:918:C:O4'	2.19	0.42
4:DC:55:ILE:HD12	4:DC:57:ARG:NH2	2.35	0.42
5:DE:73:LEU:HG	5:DE:73:LEU:H	1.58	0.42
6:DF:96:ILE:O	6:DF:99:LYS:HB2	2.20	0.42
8:DH:57:VAL:O	8:DH:104:LEU:HD22	2.19	0.42
8:DH:104:LEU:HD23	8:DH:104:LEU:HA	1.64	0.42
12:DM:97:VAL:HG22	12:DM:107:LEU:CD2	2.49	0.42
14:DO:49:ALA:O	14:DO:50:LEU:HD23	2.18	0.42
1:D1:801:U:H4'	17:DT:37:PRO:HG3	2.02	0.42
20:E2:43:A:HO2'	20:E2:44:A:P	2.43	0.42
20:E2:87:C:O2'	20:E2:88:G:C5'	2.68	0.42
23:EB:277:ASN:ND2	23:EB:343:GLN:HE21	2.10	0.42
23:EB:382:ARG:HH22	1:F1:3287:U:P	2.42	0.42
23:EB:92:TYR:HH	1:F1:2992:G:HO2'	1.67	0.42
24:EC:289:LEU:HA	24:EC:289:LEU:HD23	1.59	0.42
24:EC:67:HIS:CD2	24:EC:91:ARG:HH21	2.38	0.42
26:EE:82:VAL:O	26:EE:82:VAL:HG12	2.19	0.42
26:EE:89:LYS:HB2	26:EE:181:ASP:HB2	2.01	0.42
30:EI:60:TRP:C	30:EI:60:TRP:CD1	2.92	0.42
34:EM:106:ALA:CB	34:EM:169:GLY:HA3	2.49	0.42
36:EO:123:PHE:CE2	36:EO:142:ILE:HG12	2.55	0.42
34:EM:34:LYS:HE3	37:EP:30:TYR:HE1	1.84	0.42
39:ER:121:LEU:HA	39:ER:121:LEU:HD23	1.73	0.42
43:EV:41:TRP:HE1	43:EV:176:THR:HG22	1.85	0.42
43:EV:18:LYS:O	43:EV:21:LYS:HB2	2.19	0.42
46:EY:88:LYS:HG2	46:EY:89:LEU:N	2.34	0.42
1:F1:1062:A:H2'	1:F1:1063:C:C5'	2.45	0.42
1:F1:1240:G:O2'	1:F1:1241:U:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:1248:G:O2'	1:F1:1249:G:OP2	2.28	0.42
1:F1:1254:C:H2'	1:F1:1255:A:H5''	2.02	0.42
1:F1:1427:G:C2'	1:F1:1428:G:O5'	2.68	0.42
1:F1:1473:G:HO2'	1:F1:1474:U:P	2.42	0.42
1:F1:1883:A:C2	1:F1:1884:G:C8	3.08	0.42
1:F1:2153:G:H5'	1:F1:2173:A:N6	2.35	0.42
1:F1:2254:A:H5'	1:F1:2255:U:OP2	2.19	0.42
1:F1:315:U:H4'	1:F1:316:A:H5'	2.01	0.42
1:F1:3215:C:H2'	1:F1:3216:C:C6	2.55	0.42
1:F1:3230:G:O2'	1:F1:3231:U:OP2	2.38	0.42
1:F1:636:U:H4'	5:FE:34:LYS:HE2	2.02	0.42
1:F1:80:C:C2'	1:F1:81:C:O5'	2.67	0.42
1:F1:841:A:OP2	2:FA:28:HIS:HE1	2.02	0.42
5:FE:128:ASN:OD1	5:FE:130:PHE:N	2.51	0.42
6:FF:109:PHE:O	6:FF:113:VAL:HG23	2.20	0.42
6:FF:85:TYR:CE2	6:FF:91:ALA:HB2	2.54	0.42
12:FM:19:ILE:CD1	12:FM:105:TYR:HB2	2.49	0.42
14:FO:24:PHE:CD1	14:FO:34:ARG:HG2	2.55	0.42
1:F1:788:C:H1'	18:FU:179:ARG:NH2	2.35	0.42
19:FX:124:MET:CE	19:FX:128:HIS:HB2	2.50	0.42
19:FX:167:LYS:HG2	19:FX:188:THR:CG2	2.48	0.42
19:FX:19:ARG:HG3	19:FX:21:TYR:OH	2.19	0.42
20:G2:103:U:C4	20:G2:104:G:C6	3.08	0.42
20:G2:130:C:H2'	20:G2:130:C:O2	2.20	0.42
21:G3:21:G:H4'	34:GM:277:PHE:CE1	2.54	0.42
21:G3:83:G:C2	21:G3:93:G:N2	2.88	0.42
22:GA:109:PRO:HG2	22:GA:112:THR:OG1	2.20	0.42
22:GA:216:ASN:HB3	1:H1:2956:G:N7	2.34	0.42
22:GA:3:ARG:CG	22:GA:4:VAL:H	2.32	0.42
23:GB:233:VAL:HG12	23:GB:234:LYS:O	2.19	0.42
24:GC:303:GLU:OE1	24:GC:303:GLU:N	2.48	0.42
24:GC:310:VAL:HG12	24:GC:311:ALA:N	2.35	0.42
24:GC:33:ILE:O	24:GC:33:ILE:CG2	2.65	0.42
24:GC:348:ALA:C	24:GC:350:ALA:N	2.72	0.42
24:GC:65:MET:HE3	24:GC:105:ARG:CG	2.50	0.42
25:GD:19:ILE:CG2	25:GD:125:MET:CE	2.97	0.42
25:GD:25:GLU:O	25:GD:30:LEU:CD1	2.67	0.42
25:GD:45:PRO:HA	25:GD:69:VAL:HG22	2.02	0.42
25:GD:92:ARG:H	25:GD:95:ASN:HD22	1.64	0.42
34:GM:133:ASP:HB3	34:GM:172:ASN:ND2	2.35	0.42
34:GM:231:TRP:CZ2	34:GM:243:VAL:CG2	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:GM:60:ILE:HD12	34:GM:98:ALA:N	2.35	0.42
37:GP:11:THR:CG2	37:GP:15:PHE:CG	3.03	0.42
37:GP:21:THR:HA	37:GP:24:HIS:HD2	1.79	0.42
42:GU:118:ARG:O	18:HU:47:ARG:NH1	2.53	0.42
42:GU:29:LEU:HA	42:GU:29:LEU:HD23	1.87	0.42
43:GV:82:PHE:CD1	43:GV:112:ALA:O	2.73	0.42
43:GV:170:LEU:O	43:GV:171:GLY:C	2.57	0.42
1:H1:1601:U:O2'	1:H1:1602:U:H5'	2.20	0.42
1:H1:1903:A:N1	50:H1:4092:HOH:O	2.37	0.42
1:H1:20:G:C5	1:H1:21:A:C8	3.08	0.42
1:H1:2255:U:C6	1:H1:2256:G:C8	3.07	0.42
38:GQ:141:TYR:CD1	1:H1:2350:G:H4'	2.54	0.42
1:H1:2369:C:O2	1:H1:2369:C:C2'	2.58	0.42
1:H1:2673:C:H2'	1:H1:2674:A:H8	1.85	0.42
1:H1:2762:U:O2	1:H1:2763:U:C6	2.73	0.42
1:H1:3106:C:C3'	1:H1:3107:C:C5'	2.98	0.42
1:H1:3128:G:H2'	1:H1:3129:G:O4'	2.20	0.42
1:H1:3160:A:H2'	1:H1:3160:A:N3	2.35	0.42
1:H1:3171:A:N6	1:H1:3172:A:N6	2.67	0.42
1:H1:3185:G:O6	1:H1:3235:U:O3'	2.37	0.42
1:H1:431:A:C6	1:H1:432:G:C6	3.08	0.42
1:H1:60:A:O5'	1:H1:60:A:H8	2.03	0.42
1:H1:762:G:C2	1:H1:763:G:C8	3.08	0.42
36:GO:95:TRP:CZ2	1:H1:880:U:H4'	2.54	0.42
1:H1:236:G:O2'	2:HA:88:LYS:O	2.37	0.42
5:HE:116:TYR:OH	5:HE:149:ARG:HG2	2.19	0.42
7:HG:15:ALA:O	7:HG:19:ARG:HG3	2.20	0.42
8:HH:20:PHE:CD1	8:HH:20:PHE:C	2.93	0.42
11:HL:20:VAL:CG1	11:HL:21:ARG:N	2.82	0.42
13:HN:122:TYR:O	13:HN:125:ILE:HG13	2.20	0.42
14:HO:75:THR:CG2	14:HO:77:GLU:CG	2.94	0.42
18:HU:121:LEU:HG	18:HU:122:VAL:N	2.34	0.42
1:A1:1191:G:H5''	8:AH:33:ASN:ND2	2.35	0.42
1:A1:1314:A:H2'	1:A1:1315:U:H6	1.85	0.42
1:A1:1316:G:H8	1:A1:1316:G:H5''	1.85	0.42
1:A1:1377:A:H2'	1:A1:1378:U:O4'	2.20	0.42
1:A1:1608:G:H2'	1:A1:1609:U:O5'	2.20	0.42
1:A1:1616:G:C2'	1:A1:1617:G:H5'	2.49	0.42
1:A1:164:A:C2'	1:A1:165:C:H5'	2.47	0.42
1:A1:1922:G:H2'	1:A1:1923:G:C5'	2.50	0.42
1:A1:2168:U:H2'	1:A1:2169:G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2435:A:C2	1:A1:2503:U:C2	3.07	0.42
1:A1:949:G:N7	1:A1:2797:C:H1'	2.34	0.42
1:A1:3031:U:C2'	1:A1:3032:C:H5'	2.50	0.42
1:A1:3156:A:H4'	1:A1:3159:A:N7	2.35	0.42
1:A1:31:G:H1'	1:A1:49:A:N6	2.34	0.42
1:A1:39:G:C4	1:A1:2789:A:C2	3.07	0.42
1:A1:440:C:C4	1:A1:538:A:H2	2.38	0.42
1:A1:524:G:H8	1:A1:524:G:O5'	2.02	0.42
1:A1:773:C:C2'	1:A1:774:A:O5'	2.68	0.42
1:A1:852:A:C2	1:A1:853:A:C4	3.07	0.42
1:A1:938:A:C2'	1:A1:939:A:OP2	2.68	0.42
3:AB:50:LYS:O	3:AB:51:ILE:HG13	2.19	0.42
8:AH:39:LEU:HD22	8:AH:106:VAL:HG21	2.00	0.42
13:AN:100:ASP:HB3	13:AN:104:ASN:ND2	2.34	0.42
13:AN:29:SER:O	13:AN:30:GLU:C	2.58	0.42
14:AO:104:LYS:O	14:AO:108:LEU:HG	2.19	0.42
14:AO:7:GLU:OE1	14:AO:7:GLU:HA	2.19	0.42
18:AU:31:LYS:O	18:AU:34:LEU:HB2	2.20	0.42
19:AX:45:ALA:HB1	19:AX:50:HIS:HB3	2.01	0.42
19:AX:25:ALA:CA	19:AX:73:LEU:HG	2.42	0.42
20:B2:28:G:C6	20:B2:29:U:C4	3.08	0.42
3:AB:12:ARG:HD3	20:B2:48:C:OP1	2.19	0.42
20:B2:58:U:N3	20:B2:65:C:C5	2.72	0.42
22:BA:35:PHE:O	22:BA:38:ARG:HG3	2.20	0.42
23:BB:138:ASP:OD1	23:BB:140:LYS:HG2	2.20	0.42
23:BB:218:VAL:HB	23:BB:332:ARG:HE	1.85	0.42
23:BB:32:PHE:CD2	23:BB:44:THR:HG21	2.53	0.42
24:BC:142:VAL:HG11	24:BC:149:ILE:HD11	2.02	0.42
26:BE:113:LYS:CD	26:BE:114:HIS:HB2	2.49	0.42
26:BE:63:LYS:HD3	26:BE:63:LYS:HA	1.79	0.42
1:A1:740:A:C5'	32:BK:114:GLY:O	2.68	0.42
33:BL:164:LEU:HD23	33:BL:172:ARG:NH2	2.34	0.42
34:BM:287:ARG:O	34:BM:291:VAL:HG23	2.20	0.42
36:BO:94:LEU:HD23	36:BO:94:LEU:HA	1.72	0.42
39:BR:42:THR:HG22	39:BR:43:LEU:N	2.35	0.42
1:A1:186:U:H4'	40:BS:125:LEU:CD2	2.50	0.42
40:BS:33:HIS:CE1	40:BS:39:ARG:HE	2.38	0.42
1:A1:229:A:H5''	40:BS:3:THR:HB	2.02	0.42
42:BU:42:ALA:HA	42:BU:45:LEU:HG	2.02	0.42
43:BV:108:LEU:O	43:BV:109:HIS:HB2	2.19	0.42
20:C2:87:C:O2'	20:C2:88:G:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CA:102:VAL:O	22:CA:103:LEU:HD23	2.20	0.42
22:CA:183:ALA:HB1	22:CA:197:TRP:HH2	1.85	0.42
22:CA:214:GLY:HA3	1:D1:2955:A:OP1	2.19	0.42
28:CG:81:UNK:HG2	1:D1:1309:G:H1'	2.02	0.42
33:CL:72:LYS:O	33:CL:74:PRO:HD3	2.20	0.42
33:CL:7:LEU:O	33:CL:10:LEU:HB2	2.20	0.42
47:CO:105:LEU:HD13	47:CO:135:LYS:HE3	2.01	0.42
47:CO:161:UNK:CA	47:CO:164:UNK:HG3	2.50	0.42
47:CO:89:MET:HG3	47:CO:90:PRO:HD2	2.02	0.42
38:CQ:66:THR:HG23	38:CQ:82:GLN:NE2	2.35	0.42
20:C2:86:G:C6	40:CS:111:ASP:OD2	2.73	0.42
41:CT:15:ILE:HD13	41:CT:32:PHE:HE1	1.85	0.42
41:CT:54:THR:HG22	41:CT:55:ILE:N	2.35	0.42
43:CV:124:ILE:HG22	43:CV:128:LEU:HD23	2.01	0.42
43:CV:216:HIS:C	43:CV:222:GLY:HA3	2.40	0.42
1:D1:1004:U:C4'	1:D1:1005:A:OP2	2.68	0.42
1:D1:1021:U:O2	1:D1:1021:U:H2'	2.20	0.42
29:CH:34:TYR:HB2	1:D1:1034:U:O2'	2.20	0.42
1:D1:1054:G:H2'	1:D1:1055:A:N7	2.28	0.42
1:D1:1165:U:C2'	1:D1:1166:G:H5''	2.49	0.42
1:D1:1198:G:C5	50:D1:4426:HOH:O	2.70	0.42
1:D1:1203:C:OP2	1:D1:1204:C:H3'	2.20	0.42
1:D1:1233:G:H2'	1:D1:1234:G:H5'	2.02	0.42
1:D1:1173:A:H4'	1:D1:1358:U:C4	2.55	0.42
47:CO:135:LYS:HB3	1:D1:1972:G:OP1	2.19	0.42
1:D1:213:A:H2'	1:D1:214:G:O4'	2.20	0.42
1:D1:222:A:C6	1:D1:223:C:C4	3.08	0.42
1:D1:2353:C:C2'	1:D1:2353:C:O2	2.59	0.42
1:D1:292:C:OP1	1:D1:2427:U:C5'	2.68	0.42
1:D1:2435:A:C2	1:D1:2503:U:C2	3.07	0.42
1:D1:2731:C:C4'	4:DC:18:HIS:HD2	2.32	0.42
1:D1:3185:G:O6	1:D1:3235:U:O3'	2.38	0.42
1:D1:528:C:O2'	14:DO:115:HIS:CE1	2.72	0.42
1:D1:567:C:C4	1:D1:603:A:N1	2.87	0.42
1:D1:651:U:C4	1:D1:652:U:C5	3.08	0.42
1:D1:415:A:C4'	1:D1:653:C:H4'	2.50	0.42
1:D1:773:C:C2	1:D1:774:A:C8	3.08	0.42
1:D1:805:A:H5''	1:D1:806:G:OP2	2.19	0.42
1:D1:821:U:H6	1:D1:821:U:C5'	2.28	0.42
1:D1:895:A:OP1	50:D1:4195:HOH:O	2.21	0.42
1:D1:927:G:C4	1:D1:928:U:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:26:TYR:HB2	4:DC:67:ALA:HB3	1.98	0.42
5:DE:124:LYS:HB3	5:DE:130:PHE:HA	2.02	0.42
5:DE:173:TYR:CD2	6:DF:106:PHE:HD1	2.37	0.42
5:DE:178:PHE:O	8:DH:12:THR:CG2	2.68	0.42
1:D1:978:G:P	17:DT:15:LYS:HZ1	2.39	0.42
18:DU:17:GLN:HG3	18:DU:17:GLN:H	1.23	0.42
18:DU:29:GLN:O	18:DU:30:LYS:C	2.57	0.42
1:D1:1240:G:O4'	19:DX:104:MET:HE3	2.20	0.42
21:E3:108:G:H2'	21:E3:109:U:O4'	2.20	0.42
22:EA:206:ASN:O	22:EA:208:VAL:N	2.53	0.42
23:EB:113:ASN:O	23:EB:116:LYS:HB2	2.19	0.42
24:EC:129:VAL:HG13	24:EC:246:LEU:HD12	2.01	0.42
25:ED:77:ARG:HH22	25:ED:166:GLU:HG3	1.83	0.42
26:EE:120:ARG:NH1	26:EE:122:ARG:NH1	2.68	0.42
27:EF:21:LEU:HA	27:EF:21:LEU:HD12	1.72	0.42
20:E2:148:U:O4	27:EF:43:ARG:HA	2.20	0.42
30:EI:64:ASN:HD21	30:EI:66:ARG:CG	2.22	0.42
33:EL:11:TRP:HH2	33:EL:26:ARG:NH1	2.18	0.42
34:EM:133:ASP:HB3	34:EM:172:ASN:ND2	2.35	0.42
34:EM:88:VAL:CG1	34:EM:246:LEU:HD21	2.50	0.42
34:EM:6:VAL:CG1	34:EM:6:VAL:O	2.66	0.42
40:ES:98:LEU:HD23	40:ES:98:LEU:HA	1.75	0.42
23:EB:367:ARG:NH1	41:ET:13:TYR:CD1	2.87	0.42
43:EV:82:PHE:CD1	43:EV:112:ALA:O	2.73	0.42
44:EW:14:ASN:HD21	44:EW:69:ARG:NH2	2.17	0.42
44:EW:7:LYS:H	44:EW:76:LYS:HB3	1.85	0.42
45:EX:27:PHE:HB2	45:EX:30:LEU:HB2	2.02	0.42
46:EY:51:ALA:HB3	46:EY:54:ILE:HB	2.01	0.42
1:F1:1222:A:C2	1:F1:1336:U:C2	3.07	0.42
1:F1:1470:G:H2'	1:F1:1471:U:O4'	2.20	0.42
1:F1:1512:G:N7	50:F1:4243:HOH:O	2.37	0.42
1:F1:1604:C:H2'	1:F1:1605:G:O5'	2.20	0.42
1:F1:1636:C:C2	1:F1:1637:A:C8	3.08	0.42
1:F1:1616:G:H4'	1:F1:1680:A:OP1	2.20	0.42
1:F1:1701:A:H5''	12:FM:99:SER:HB2	2.01	0.42
1:F1:1757:A:H2'	1:F1:1758:U:C6	2.55	0.42
1:F1:1839:A:O2'	1:F1:1840:U:C6	2.73	0.42
1:F1:1846:C:H2'	1:F1:1847:A:H8	1.84	0.42
1:F1:2283:G:C4	1:F1:2284:U:C5	3.08	0.42
1:F1:170:A:C2	1:F1:250:U:C2	3.08	0.42
1:F1:263:A:C5	16:FQ:30:ARG:NH2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2710:A:C2	1:F1:2725:A:C2	3.07	0.42
1:F1:983:U:OP1	1:F1:2787:A:H3'	2.19	0.42
1:F1:2859:G:HO2'	1:F1:2860:A:P	2.43	0.42
1:F1:2902:G:N3	1:F1:2922:A:H2	2.17	0.42
1:F1:2963:U:H2'	1:F1:2964:A:C8	2.54	0.42
1:F1:3308:A:H2'	1:F1:3309:U:C6	2.55	0.42
1:F1:402:U:OP2	1:F1:403:G:N7	2.53	0.42
1:F1:487:G:OP2	18:FU:161:LYS:NZ	2.46	0.42
9:FJ:101:LEU:CD1	9:FJ:118:HIS:CD2	3.02	0.42
9:FJ:97:ILE:HG22	9:FJ:98:GLU:N	2.34	0.42
10:FK:93:LYS:HA	10:FK:105:PRO:HD3	2.00	0.42
13:FN:39:GLY:O	13:FN:77:LEU:HG	2.20	0.42
1:F1:1381:G:C5'	14:FO:37:GLN:HG3	2.48	0.42
20:G2:30:U:OP1	24:GC:56:LYS:HA	2.20	0.42
22:GA:206:ASN:O	22:GA:208:VAL:N	2.53	0.42
23:GB:294:THR:HG21	23:GB:354:LEU:O	2.19	0.42
23:GB:33:PRO:HD3	23:GB:44:THR:CG2	2.49	0.42
23:GB:60:VAL:CG2	23:GB:67:HIS:O	2.68	0.42
25:GD:23:VAL:HG23	25:GD:25:GLU:N	2.35	0.42
27:GF:72:GLN:HE21	27:GF:160:PRO:HG2	1.84	0.42
27:GF:41:LEU:HD21	1:H1:2519:A:C2	2.50	0.42
29:GH:140:VAL:CG1	29:GH:141:LYS:N	2.82	0.42
30:GI:25:GLU:HB3	30:GI:30:GLN:HB3	2.01	0.42
33:GL:142:ILE:HG23	33:GL:148:ILE:CG2	2.49	0.42
33:GL:26:ARG:C	33:GL:30:TYR:HD1	2.23	0.42
34:GM:107:ARG:HD2	34:GM:107:ARG:HA	1.76	0.42
34:GM:252:ALA:O	34:GM:256:LYS:HG3	2.20	0.42
35:GN:57:ARG:CB	1:H1:696:A:OP2	2.68	0.42
38:GQ:47:LYS:HE2	38:GQ:98:ASP:OD1	2.20	0.42
42:GU:81:PRO:HG2	42:GU:84:ILE:HD12	2.02	0.42
44:GW:32:ILE:CD1	1:H1:1485:C:H5'	2.50	0.42
45:GX:8:HIS:CE1	45:GX:72:GLY:HA2	2.54	0.42
1:H1:753:A:H5'	1:H1:1002:A:O4'	2.20	0.42
1:H1:1227:A:C4'	1:H1:1228:C:O5'	2.65	0.42
1:H1:1370:A:C2	1:H1:1389:G:N1	2.87	0.42
45:GX:45:ARG:HE	1:H1:1395:U:H5'	1.84	0.42
1:H1:1427:G:C2'	1:H1:1428:G:O5'	2.67	0.42
27:GF:155:LEU:HD11	1:H1:147:U:H1'	2.01	0.42
1:H1:1608:G:C2'	1:H1:1609:U:O5'	2.68	0.42
1:H1:1915:A:O2'	1:H1:1916:G:H5'	2.20	0.42
1:H1:2383:U:H5''	1:H1:2383:U:H6	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2522:A:N6	1:H1:2523:A:N6	2.68	0.42
1:H1:2751:A:N6	1:H1:2788:G:H2'	2.35	0.42
1:H1:2962:U:H6	1:H1:2962:U:C5'	2.30	0.42
1:H1:3175:A:C5'	1:H1:3176:A:OP2	2.68	0.42
1:H1:414:G:H1'	1:H1:652:U:O2'	2.19	0.42
1:H1:687:C:N3	1:H1:688:U:C5	2.88	0.42
1:H1:852:A:C2	1:H1:853:A:C4	3.08	0.42
1:H1:840:G:C2	1:H1:951:A:C2	3.07	0.42
1:H1:636:U:O2'	5:HE:34:LYS:HG2	2.20	0.42
1:H1:3227:A:H5'	5:HE:57:ARG:NH1	2.32	0.42
6:HF:14:TYR:CE1	6:HF:90:PHE:HE2	2.38	0.42
15:HP:16:GLN:O	15:HP:17:ASN:C	2.58	0.42
15:HP:15:TRP:CE3	15:HP:69:PRO:HG3	2.55	0.42
17:HT:40:LEU:O	17:HT:44:ARG:HG3	2.20	0.42
1:A1:1229:A:O2'	1:A1:1230:A:H5'	2.20	0.42
1:A1:127:A:H5''	50:A1:3814:HOH:O	2.20	0.42
1:A1:135:A:C5'	1:A1:136:C:OP2	2.68	0.42
1:A1:136:C:C2'	1:A1:137:A:H5'	2.50	0.42
1:A1:1669:G:C2	1:A1:1670:A:C6	3.08	0.42
1:A1:1932:A:H2'	1:A1:1933:A:O4'	2.20	0.42
1:A1:2269:U:O2	1:A1:2269:U:H2'	2.20	0.42
1:A1:2370:G:OP2	50:A1:3947:HOH:O	2.21	0.42
1:A1:2438:G:C6	1:A1:2439:C:C4	3.08	0.42
1:A1:2673:C:H1'	25:BD:99:THR:OG1	2.19	0.42
1:A1:283:A:OP2	1:A1:283:A:H4'	2.19	0.42
1:A1:2883:G:H5'	1:A1:3096:U:O2'	2.19	0.42
1:A1:3160:A:H2'	1:A1:3160:A:N3	2.35	0.42
1:A1:3168:A:N3	26:BE:42:SER:O	2.52	0.42
1:A1:3234:U:O5'	1:A1:3234:U:H6	2.03	0.42
1:A1:406:A:C8	1:A1:407:C:C5	3.08	0.42
1:A1:40:C:H6	1:A1:40:C:H3'	1.85	0.42
1:A1:49:A:C2'	1:A1:50:A:H5'	2.50	0.42
1:A1:653:C:C2	1:A1:654:U:C5	3.07	0.42
1:A1:853:A:H2'	1:A1:854:U:C6	2.54	0.42
6:AF:23:LYS:HB2	6:AF:43:ILE:HD11	2.02	0.42
8:AH:18:ALA:HB2	8:AH:39:LEU:HD22	2.02	0.42
12:AM:19:ILE:CD1	12:AM:105:TYR:HB2	2.50	0.42
13:AN:83:THR:CG2	13:AN:85:TYR:HD2	2.33	0.42
14:AO:118:ASN:OD1	14:AO:122:GLN:NE2	2.52	0.42
1:A1:1776:G:N7	15:AP:34:LYS:HD2	2.35	0.42
19:AX:71:ARG:HH21	43:BV:74:VAL:HG12	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AX:73:LEU:HA	43:BV:74:VAL:CG2	2.50	0.42
20:B2:129:A:C4	20:B2:130:C:C6	3.08	0.42
20:B2:90:G:C6	20:B2:92:C:C4	3.07	0.42
21:B3:43:A:H4'	25:BD:140:ARG:O	2.19	0.42
22:BA:205:MET:HE2	22:BA:209:ASP:CB	2.48	0.42
23:BB:299:THR:HG22	23:BB:300:ASP:N	2.35	0.42
23:BB:375:ASP:CB	23:BB:380:ARG:O	2.65	0.42
20:B2:29:U:H5''	24:BC:56:LYS:HD2	2.02	0.42
26:BE:4:LEU:HD12	26:BE:4:LEU:HA	1.65	0.42
26:BE:58:TRP:O	26:BE:59:GLN:C	2.58	0.42
34:BM:267:ASN:HD21	34:BM:270:PRO:CG	2.33	0.42
42:BU:97:THR:HG22	42:BU:99:LYS:H	1.85	0.42
43:BV:100:LEU:HD21	43:BV:127:VAL:CG1	2.39	0.42
46:BY:32:THR:CG2	46:BY:70:GLU:HG2	2.50	0.42
46:BY:74:PRO:N	46:BY:75:PRO:CD	2.83	0.42
23:CB:233:VAL:HG12	23:CB:234:LYS:N	2.34	0.42
23:CB:33:PRO:HD3	23:CB:44:THR:CG2	2.50	0.42
23:CB:58:ARG:HH21	23:CB:60:VAL:HG12	1.81	0.42
25:CD:65:MET:HE3	1:D1:2670:U:C4'	2.50	0.42
27:CF:21:LEU:HD12	27:CF:21:LEU:HA	1.72	0.42
27:CF:222:ARG:HA	27:CF:222:ARG:HD2	1.81	0.42
31:CJ:46:ILE:CD1	31:CJ:54:PRO:CB	2.95	0.42
34:CM:59:ARG:CD	34:CM:61:ILE:HG12	2.45	0.42
35:CN:10:ARG:O	1:D1:1369:C:H4'	2.20	0.42
35:CN:34:TYR:CD2	35:CN:37:LEU:HD12	2.55	0.42
35:CN:63:LEU:HD12	35:CN:63:LEU:HA	1.63	0.42
35:CN:65:LEU:O	35:CN:69:VAL:HG23	2.19	0.42
35:CN:85:SER:O	35:CN:103:ALA:HB1	2.20	0.42
47:CO:109:TYR:HB3	47:CO:115:ILE:CD1	2.49	0.42
47:CO:4:LEU:HA	47:CO:7:GLN:HG2	2.02	0.42
38:CQ:45:ASN:HD22	38:CQ:45:ASN:HA	1.70	0.42
40:CS:24:HIS:CD2	40:CS:25:LEU:HG	2.55	0.42
43:CV:84:ILE:HA	43:CV:110:ASN:O	2.20	0.42
46:CY:32:THR:HG21	46:CY:70:GLU:CG	2.49	0.42
1:D1:752:C:C5'	1:D1:1002:A:C2	3.01	0.42
1:D1:1060:C:C2	1:D1:1061:G:C8	3.07	0.42
1:D1:1242:U:H2'	1:D1:1243:C:H6	1.84	0.42
1:D1:1215:U:C2	1:D1:1344:A:N6	2.87	0.42
1:D1:134:A:C6	1:D1:135:A:C6	3.08	0.42
1:D1:169:A:OP2	1:D1:249:G:C2	2.72	0.42
1:D1:1839:A:O2'	1:D1:1840:U:P	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1865:A:H1'	3:DB:45:ARG:HH22	1.85	0.42
40:CS:61:LYS:HG2	1:D1:218:G:O6	2.20	0.42
1:D1:169:A:C8	1:D1:250:U:O4	2.73	0.42
1:D1:2749:C:O2	1:D1:2749:C:H2'	2.20	0.42
1:D1:2907:A:C5'	1:D1:2907:A:C8	3.00	0.42
1:D1:3215:C:H2'	1:D1:3216:C:C6	2.54	0.42
1:D1:358:C:O2	1:D1:840:G:H4'	2.20	0.42
24:CC:89:THR:HG21	1:D1:363:G:O2'	2.19	0.42
1:D1:533:G:N2	1:D1:534:U:C2	2.88	0.42
1:D1:573:A:C6	1:D1:596:A:N7	2.88	0.42
2:DA:26:THR:HG21	2:DA:36:ALA:HB2	2.02	0.42
20:C2:96:A:N1	2:DA:85:ALA:HA	2.35	0.42
9:DJ:13:ILE:HG13	9:DJ:13:ILE:H	1.73	0.42
16:DQ:51:PHE:CD1	16:DQ:51:PHE:N	2.88	0.42
18:DU:131:ALA:HB3	18:DU:136:VAL:CG2	2.50	0.42
20:E2:93:A:H2'	20:E2:94:U:H6	1.85	0.42
21:E3:11:A:H4'	21:E3:13:A:C8	2.55	0.42
21:E3:71:G:H2'	21:E3:72:U:H6	1.85	0.42
23:EB:119:TYR:CE1	1:F1:3255:A:C5'	3.03	0.42
24:EC:205:ARG:HB3	24:EC:206:TYR:CD2	2.55	0.42
24:EC:376:TRP:CD1	1:F1:564:A:O4'	2.73	0.42
27:EF:69:GLN:CG	27:EF:222:ARG:HH12	2.32	0.42
27:EF:83:SER:HA	27:EF:86:PHE:HD2	1.85	0.42
32:EK:99:VAL:HG13	32:EK:100:PRO:HD2	2.02	0.42
32:EK:78:ASP:OD2	32:EK:115:LYS:HD3	2.20	0.42
33:EL:196:GLN:CB	18:FU:19:ARG:HD2	2.50	0.42
33:EL:26:ARG:O	33:EL:29:GLU:N	2.52	0.42
21:E3:45:U:H5'	34:EM:154:THR:HG21	2.02	0.42
34:EM:240:VAL:HG12	34:EM:241:ASP:N	2.35	0.42
36:EO:12:ALA:N	36:EO:22:LEU:HD11	2.34	0.42
39:ER:71:VAL:HG21	39:ER:107:PHE:HD1	1.84	0.42
40:ES:113:SER:O	40:ES:117:LEU:HG	2.19	0.42
43:EV:123:MET:HG3	1:F1:1012:U:H1'	2.02	0.42
43:EV:170:LEU:HA	43:EV:170:LEU:HD23	1.60	0.42
1:D1:2251:A:H1'	46:EY:74:PRO:HG2	2.01	0.42
1:F1:111:C:O2	1:F1:111:C:C2'	2.64	0.42
35:EN:36:PHE:HE2	1:F1:1375:A:H2'	1.84	0.42
1:F1:1506:G:N1	1:F1:1896:C:OP2	2.52	0.42
1:F1:1736:G:O5'	1:F1:1736:G:H8	2.02	0.42
33:EL:79:ILE:CD1	1:F1:2597:G:O2'	2.67	0.42
1:F1:2885:A:O2'	1:F1:2886:G:H3'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2987:A:H2'	1:F1:2988:U:O4'	2.20	0.42
1:F1:3229:C:C2	5:FE:57:ARG:HG3	2.55	0.42
1:F1:687:C:H2'	1:F1:688:U:C6	2.54	0.42
2:FA:71:ILE:O	2:FA:75:ALA:HB2	2.20	0.42
4:FC:19:THR:CG2	4:FC:20:ASN:N	2.83	0.42
5:FE:50:VAL:HA	5:FE:63:VAL:O	2.20	0.42
6:FF:113:VAL:O	6:FF:117:LYS:HG3	2.20	0.42
6:FF:23:LYS:CB	6:FF:43:ILE:HD11	2.49	0.42
9:FJ:112:ASP:H	9:FJ:156:ASN:ND2	2.07	0.42
11:FL:104:LYS:O	11:FL:108:ILE:HG13	2.20	0.42
13:FN:142:LEU:HA	13:FN:142:LEU:HD12	1.78	0.42
14:FO:104:LYS:O	14:FO:108:LEU:HG	2.18	0.42
15:FP:41:LYS:HD3	15:FP:52:THR:HG21	2.00	0.42
15:FP:8:ILE:HG12	15:FP:53:PHE:HZ	1.84	0.42
17:FT:19:ASN:N	50:FT:202:HOH:O	2.36	0.42
20:G2:40:A:H5''	20:G2:42:G:O4'	2.19	0.42
20:G2:5:A:C2'	20:G2:6:A:H5'	2.49	0.42
22:GA:30:TYR:H	22:GA:124:ARG:HB3	1.85	0.42
23:GB:27:GLY:HA2	23:GB:272:HIS:CE1	2.50	0.42
26:GE:139:LYS:O	26:GE:140:ASN:HB2	2.19	0.42
26:GE:141:THR:HG22	26:GE:142:LEU:H	1.84	0.42
29:GH:139:ARG:HB3	29:GH:173:PHE:CE1	2.54	0.42
32:GK:77:ILE:HG13	32:GK:114:GLY:HA2	2.01	0.42
32:GK:129:TYR:CD1	32:GK:129:TYR:N	2.87	0.42
33:GL:26:ARG:CB	33:GL:30:TYR:HE1	2.21	0.42
34:GM:212:TYR:CE2	34:GM:227:GLN:NE2	2.88	0.42
34:GM:75:LEU:HA	34:GM:75:LEU:HD23	1.61	0.42
39:GR:84:MET:HE2	39:GR:144:ALA:CB	2.48	0.42
23:GB:365:HIS:HA	41:GT:19:ARG:NH2	2.35	0.42
42:GU:81:PRO:HG2	42:GU:84:ILE:CD1	2.50	0.42
43:GV:85:ARG:CZ	43:GV:100:LEU:CD1	2.97	0.42
44:GW:71:ARG:CD	44:GW:103:LEU:HD13	2.47	0.42
1:H1:101:G:P	50:H1:3650:HOH:O	2.77	0.42
1:H1:1090:A:HO2'	1:H1:1091:G:P	2.34	0.42
1:H1:1209:G:H2'	1:H1:1210:C:C6	2.55	0.42
45:GX:13:LYS:NZ	1:H1:1430:G:OP2	2.53	0.42
1:H1:1554:G:N2	1:H1:1857:G:C4	2.88	0.42
1:H1:169:A:C6	1:H1:251:A:C6	3.07	0.42
1:H1:2657:G:H2'	1:H1:2658:U:H6	1.85	0.42
1:H1:2803:G:C5'	1:H1:2804:G:OP2	2.62	0.42
1:H1:284:U:P	1:H1:284:U:O4'	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2914:A:H2'	1:H1:2915:C:H6	1.84	0.42
1:H1:3272:U:C4	1:H1:3273:U:C5	3.07	0.42
1:H1:33:A:H2'	1:H1:34:C:H6	1.84	0.42
1:H1:467:A:N1	1:H1:468:A:C4	2.88	0.42
1:H1:514:U:O2'	1:H1:515:A:H5'	2.20	0.42
1:H1:528:C:O2'	14:HO:115:HIS:CE1	2.70	0.42
1:H1:583:G:N3	1:H1:585:A:OP2	2.53	0.42
1:H1:573:A:C6	1:H1:596:A:N7	2.88	0.42
1:H1:848:C:HO2'	1:H1:1561:A:HO2'	1.62	0.42
33:GL:81:TYR:OH	1:H1:933:G:H5'	2.20	0.42
5:HE:142:GLU:OE1	5:HE:145:ARG:HD2	2.19	0.42
5:HE:58:PHE:HB3	5:HE:85:VAL:CG2	2.50	0.42
5:HE:54:LEU:C	5:HE:59:ARG:HB2	2.38	0.42
8:HH:57:VAL:HG22	8:HH:74:TRP:CH2	2.55	0.42
9:HJ:119:PRO:HA	9:HJ:139:ARG:HB3	2.01	0.42
9:HJ:43:VAL:CG1	9:HJ:44:PRO:N	2.78	0.42
9:HJ:4:ARG:HB3	9:HJ:208:LEU:HA	2.01	0.42
9:HJ:66:ASN:OD1	9:HJ:66:ASN:C	2.57	0.42
13:HN:23:ALA:CB	13:HN:43:VAL:HG12	2.45	0.42
14:HO:7:GLU:HA	14:HO:7:GLU:OE1	2.20	0.42
42:GU:119:LYS:CB	18:HU:124:PHE:CD1	3.03	0.42
1:A1:1055:A:H2'	1:A1:1056:A:C8	2.54	0.41
1:A1:1022:A:C2	1:A1:1080:A:C4	3.08	0.41
1:A1:1123:A:OP2	1:A1:1124:G:C8	2.73	0.41
1:A1:1135:U:C6	1:A1:1135:U:C5'	3.02	0.41
1:A1:1233:G:C2'	1:A1:1234:G:H5'	2.50	0.41
1:A1:1196:A:C6	1:A1:1357:A:N7	2.88	0.41
1:A1:1414:C:C4	1:A1:1415:C:C5	3.08	0.41
1:A1:1598:C:H2'	1:A1:1599:G:C5'	2.48	0.41
1:A1:1604:C:H2'	1:A1:1605:G:O5'	2.20	0.41
1:A1:1880:C:H2'	1:A1:1881:C:C6	2.55	0.41
1:A1:191:U:H2'	1:A1:191:U:O2	2.19	0.41
1:A1:2352:A:H2	50:A1:4343:HOH:O	2.02	0.41
1:A1:2378:A:H2'	1:A1:2379:A:C8	2.54	0.41
1:A1:2543:C:H5''	1:A1:2544:U:C5	2.55	0.41
1:A1:2564:G:C6	1:A1:2565:A:C5	3.08	0.41
1:A1:2619:C:C2	1:A1:2638:G:C2	3.08	0.41
1:A1:2873:C:C4	1:A1:2874:U:O4	2.73	0.41
1:A1:2920:U:H1'	1:A1:2923:U:C4	2.55	0.41
1:A1:3028:A:H2'	1:A1:3029:A:C8	2.55	0.41
1:A1:3086:U:H2'	1:A1:3087:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3111:A:H2'	1:A1:3112:A:H5''	2.02	0.41
1:A1:3345:A:C8	1:A1:3345:A:OP2	2.72	0.41
1:A1:525:C:C4'	1:A1:526:U:OP2	2.65	0.41
1:A1:609:A:C2	1:A1:610:A:C5	3.08	0.41
1:A1:624:G:C4	1:A1:625:C:C4	3.08	0.41
1:A1:838:G:C4	1:A1:839:U:C5	3.08	0.41
1:A1:938:A:H2'	1:A1:939:A:OP2	2.20	0.41
2:AA:69:LYS:HG2	2:AA:69:LYS:H	1.67	0.41
4:AC:41:TYR:O	4:AC:45:GLN:HG3	2.20	0.41
9:AJ:35:TYR:CZ	9:AJ:50:HIS:CE1	3.08	0.41
9:AJ:97:ILE:HG22	9:AJ:98:GLU:N	2.34	0.41
12:AM:43:ILE:CD1	12:AM:58:ILE:HD11	2.49	0.41
14:AO:120:ARG:O	14:AO:124:ASN:ND2	2.52	0.41
14:AO:13:ASN:OD1	14:AO:15:PHE:HB2	2.20	0.41
1:A1:2726:C:O2'	17:AT:36:ASN:HB2	2.20	0.41
17:AT:50:ASP:HB3	17:AT:53:ILE:HD12	2.02	0.41
6:AF:30:ILE:HD12	19:AX:161:LEU:HD23	2.02	0.41
19:AX:45:ALA:CB	19:AX:50:HIS:CD2	2.98	0.41
24:BC:270:PHE:HB3	24:BC:285:LEU:HD21	2.02	0.41
27:BF:170:PHE:CE1	27:BF:216:ASN:OD1	2.73	0.41
29:BH:99:ILE:HG22	29:BH:123:LEU:HB2	2.02	0.41
30:BI:196:PHE:CD1	30:BI:196:PHE:O	2.73	0.41
21:B3:45:U:H5'	34:BM:154:THR:HG21	2.02	0.41
21:B3:11:A:OP2	34:BM:18:THR:CG2	2.68	0.41
41:BT:44:ARG:HB3	41:BT:46:VAL:HG23	2.02	0.41
42:BU:66:ARG:O	42:BU:69:ALA:HB3	2.20	0.41
20:C2:118:G:H2'	20:C2:119:A:C8	2.55	0.41
22:CA:33:TYR:CD1	22:CA:164:ARG:NH2	2.84	0.41
23:CB:113:ASN:O	23:CB:116:LYS:HB2	2.20	0.41
23:CB:47:THR:OG1	23:CB:177:LEU:CD1	2.66	0.41
23:CB:86:ILE:CD1	23:CB:196:LEU:HD13	2.50	0.41
24:CC:163:VAL:CA	24:CC:166:TYR:CD2	3.00	0.41
24:CC:313:THR:HG22	24:CC:314:THR:H	1.84	0.41
26:CE:82:VAL:HG12	26:CE:82:VAL:O	2.20	0.41
27:CF:61:LEU:HD23	27:CF:61:LEU:HA	1.79	0.41
30:CI:26:LEU:CD2	30:CI:100:ARG:HB2	2.48	0.41
30:CI:35:VAL:HG11	30:CI:107:ILE:HG23	2.02	0.41
32:CK:76:ASN:OD1	32:CK:113:LEU:HB2	2.20	0.41
47:CO:165:UNK:HG2	47:CO:166:UNK:N	2.35	0.41
37:CP:139:VAL:HG12	37:CP:140:GLN:N	2.35	0.41
38:CQ:8:ARG:HH12	38:CQ:118:HIS:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:101:G:H4'	18:DU:63:TYR:CD1	2.55	0.41
1:D1:1052:A:HO2'	1:D1:1053:A:C5'	2.32	0.41
1:D1:1165:U:H2'	1:D1:1166:G:O4'	2.20	0.41
1:D1:620:A:H1'	1:D1:1364:A:H5''	2.02	0.41
1:D1:1427:G:C2'	1:D1:1428:G:O5'	2.68	0.41
38:CQ:27:HIS:CG	1:D1:1473:G:O6	2.73	0.41
1:D1:1521:U:H5'	1:D1:1522:C:C5	2.55	0.41
38:CQ:131:THR:OG1	1:D1:1533:G:N2	2.52	0.41
1:D1:1616:G:C2'	1:D1:1617:G:H5'	2.50	0.41
1:D1:1681:C:C5	1:D1:1823:A:H5''	2.55	0.41
1:D1:1735:U:OP1	13:DN:76:ASN:ND2	2.50	0.41
1:D1:1850:C:C2'	1:D1:1851:C:H5'	2.50	0.41
1:D1:2128:C:P	50:D1:4187:HOH:O	2.70	0.41
1:D1:2203:A:O2'	1:D1:2204:U:O4'	2.30	0.41
1:D1:2261:U:H2'	1:D1:2262:C:C6	2.55	0.41
1:D1:2264:U:C2'	1:D1:2265:A:O5'	2.67	0.41
1:D1:2339:U:H5'	1:D1:3045:A:O2'	2.20	0.41
1:D1:2368:A:N3	1:D1:2812:G:O2'	2.48	0.41
1:D1:2369:C:N4	1:D1:2929:A:C4	2.88	0.41
1:D1:2377:G:C2'	1:D1:2378:A:H5'	2.50	0.41
1:D1:2409:G:C2'	1:D1:2410:C:O5'	2.68	0.41
27:CF:36:GLN:HB3	1:D1:2519:A:H61	1.85	0.41
1:D1:2641:U:C4	1:D1:2748:U:O2	2.73	0.41
1:D1:2771:U:C5	1:D1:2772:U:C5	3.08	0.41
1:D1:2883:G:H5'	1:D1:3096:U:O2'	2.20	0.41
1:D1:3056:C:C2	1:D1:3057:U:C5	3.07	0.41
1:D1:3185:G:C4	1:D1:3237:C:C4	3.08	0.41
1:D1:401:U:C2	1:D1:402:U:C6	3.08	0.41
1:D1:589:C:C2	1:D1:590:A:C8	3.08	0.41
1:D1:615:G:C2	1:D1:616:A:C4	3.08	0.41
46:CY:12:ARG:HG2	1:D1:861:A:H4'	2.02	0.41
32:CK:62:THR:N	1:D1:87:A:OP1	2.49	0.41
1:D1:95:U:O2	1:D1:95:U:H2'	2.20	0.41
3:DB:44:TRP:CH2	3:DB:45:ARG:CD	3.04	0.41
7:DG:21:GLY:HA3	7:DG:94:ASP:O	2.19	0.41
9:DJ:14:GLY:N	9:DJ:195:ALA:O	2.53	0.41
14:DO:124:ASN:O	14:DO:128:GLU:HG3	2.20	0.41
1:D1:298:G:C5	16:DQ:31:LYS:HG3	2.55	0.41
16:DQ:57:ARG:HD3	16:DQ:76:ILE:HD13	2.02	0.41
42:CU:121:ALA:HB1	18:DU:146:ALA:HB3	2.02	0.41
32:CK:100:PRO:CB	18:DU:164:LYS:HZ3	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DU:34:LEU:HD23	18:DU:34:LEU:HA	1.80	0.41
19:DX:175:LYS:HZ2	19:DX:178:ARG:CD	2.33	0.41
22:EA:12:ARG:HH21	22:EA:14:ASN:ND2	2.12	0.41
22:EA:151:LEU:O	22:EA:154:GLY:N	2.51	0.41
22:EA:210:HIS:CE1	22:EA:236:VAL:HG12	2.55	0.41
23:EB:105:VAL:HG13	23:EB:142:GLN:OE1	2.21	0.41
23:EB:60:VAL:CG2	23:EB:67:HIS:O	2.68	0.41
24:EC:388:ILE:O	24:EC:391:ALA:HB3	2.20	0.41
27:EF:127:TYR:CB	27:EF:183:VAL:HG11	2.49	0.41
31:EJ:50:LEU:HA	31:EJ:50:LEU:HD23	1.81	0.41
32:EK:58:LEU:HA	32:EK:58:LEU:HD23	1.58	0.41
34:EM:111:LYS:HA	34:EM:116:ASP:OD2	2.20	0.41
34:EM:9:THR:OG1	34:EM:11:ALA:HB3	2.20	0.41
34:EM:175:HIS:HD2	34:EM:180:PHE:CE2	2.34	0.41
34:EM:250:VAL:O	34:EM:254:ILE:CG1	2.67	0.41
46:EY:21:SER:OG	1:F1:2184:U:O3'	2.38	0.41
22:EA:178:LYS:HE3	46:EY:26:VAL:HG13	2.02	0.41
1:F1:1055:A:H2'	1:F1:1056:A:H8	1.84	0.41
43:EV:12:LYS:NZ	1:F1:1377:A:C5'	2.83	0.41
1:F1:1381:G:H4'	1:F1:1382:A:OP2	2.16	0.41
1:F1:143:G:C2'	1:F1:144:A:H5'	2.49	0.41
1:F1:1598:C:C5	1:F1:1599:G:C8	3.08	0.41
1:F1:1652:U:H6	1:F1:1652:U:H3'	1.84	0.41
1:F1:1658:G:P	13:FN:107:LYS:HZ1	2.43	0.41
1:F1:1725:A:C2'	1:F1:1726:C:O5'	2.68	0.41
1:F1:1845:U:C5'	1:F1:1846:C:OP2	2.68	0.41
1:F1:1902:C:C2'	1:F1:1903:A:H5''	2.50	0.41
1:F1:2303:C:C2'	1:F1:2304:A:OP1	2.67	0.41
1:F1:2634:G:H2'	1:F1:2635:C:H5''	2.02	0.41
1:F1:263:A:C4	16:FQ:30:ARG:NH1	2.86	0.41
1:F1:291:C:C3'	1:F1:292:C:H5''	2.49	0.41
1:F1:2889:G:N2	1:F1:3019:G:O2'	2.52	0.41
1:F1:3136:A:C5	1:F1:3137:U:C5	3.07	0.41
1:F1:3340:U:H2'	1:F1:3341:C:H6	1.84	0.41
1:F1:514:U:O2'	1:F1:515:A:H5'	2.19	0.41
1:F1:805:A:H5''	1:F1:806:G:OP2	2.20	0.41
1:F1:79:C:H2'	1:F1:80:C:H5'	2.02	0.41
5:FE:124:LYS:HB3	5:FE:130:PHE:HA	2.01	0.41
1:F1:3227:A:N1	5:FE:150:LYS:HD3	2.35	0.41
1:F1:3227:A:H5'	5:FE:58:PHE:HZ	1.85	0.41
8:FH:56:VAL:HG22	8:FH:106:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FJ:12:ASP:C	9:FJ:14:GLY:N	2.73	0.41
11:FL:87:VAL:O	11:FL:90:ARG:HB2	2.19	0.41
13:FN:100:ASP:HB3	13:FN:104:ASN:ND2	2.35	0.41
16:FQ:83:THR:CG2	16:FQ:85:ARG:HB3	2.50	0.41
35:EN:168:ARG:NH1	18:FU:9:VAL:HG22	2.34	0.41
22:GA:71:LYS:HE3	22:GA:73:ASN:ND2	2.35	0.41
23:GB:304:THR:HG22	23:GB:308:GLY:HA2	2.02	0.41
23:GB:368:PHE:CE1	23:GB:374:LYS:HA	2.55	0.41
24:GC:31:ALA:O	24:GC:134:ALA:CB	2.68	0.41
24:GC:81:ILE:HG12	24:GC:82:PRO:HD2	2.02	0.41
25:GD:89:MET:HE1	25:GD:167:PHE:HB3	2.02	0.41
26:GE:43:VAL:CG1	26:GE:44:ASP:N	2.83	0.41
26:GE:94:PHE:CE1	26:GE:98:PRO:HA	2.55	0.41
27:GF:126:LYS:CE	27:GF:194:THR:OG1	2.66	0.41
32:GK:132:LYS:HG3	18:HU:178:TYR:CE2	2.55	0.41
32:GK:84:VAL:HG13	1:H1:485:A:H2'	2.01	0.41
37:GP:125:ARG:HG2	1:H1:1122:A:N7	2.35	0.41
46:GY:21:SER:O	46:GY:25:VAL:HG23	2.20	0.41
46:GY:49:ARG:HB2	46:GY:55:TRP:CZ3	2.55	0.41
29:GH:39:LYS:O	1:H1:1036:G:H4'	2.20	0.41
1:H1:1018:A:H1'	1:H1:1084:G:N2	2.35	0.41
1:H1:1355:C:H2'	1:H1:1356:G:O5'	2.19	0.41
1:H1:1810:C:H2'	1:H1:1811:U:C6	2.55	0.41
1:H1:1818:C:H5''	1:H1:1819:C:P	2.60	0.41
1:H1:1681:C:O2'	1:H1:1823:A:OP2	2.12	0.41
1:H1:1907:A:H2'	1:H1:1908:A:O5'	2.19	0.41
1:H1:1926:G:C6	1:H1:1927:U:C2	3.08	0.41
27:GF:32:GLY:HA3	1:H1:2541:U:C2	2.55	0.41
1:H1:2558:U:H2'	1:H1:2559:U:C6	2.54	0.41
1:H1:2559:U:O2	1:H1:2561:A:N1	2.52	0.41
1:H1:283:A:C4'	1:H1:283:A:OP2	2.68	0.41
1:H1:2859:G:HO2'	1:H1:2860:A:P	2.43	0.41
1:H1:2907:A:N1	1:H1:2915:C:O2	2.52	0.41
1:H1:452:U:O2'	1:H1:453:A:C5'	2.68	0.41
1:H1:550:G:C5	1:H1:551:U:C5	3.07	0.41
1:H1:591:G:C5'	1:H1:591:G:H8	2.32	0.41
1:H1:646:A:H2'	1:H1:647:U:C6	2.55	0.41
1:H1:70:C:C4'	18:HU:64:ASN:HD21	2.33	0.41
1:H1:726:G:H2'	1:H1:727:C:H6	1.82	0.41
9:HJ:112:ASP:H	9:HJ:156:ASN:ND2	2.06	0.41
9:HJ:143:ALA:C	9:HJ:144:ASN:ND2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:HJ:158:GLY:CA	9:HJ:179:ILE:HD12	2.50	0.41
11:HL:59:VAL:HG12	11:HL:60:ARG:O	2.20	0.41
19:HX:34:THR:O	19:HX:36:PRO:HD3	2.20	0.41
1:A1:1052:A:C2	1:A1:1053:A:N7	2.82	0.41
1:A1:1078:U:C5	1:A1:1079:A:C5	3.07	0.41
1:A1:134:A:C6	1:A1:135:A:C6	3.08	0.41
1:A1:1840:U:OP2	1:A1:1840:U:C6	2.70	0.41
1:A1:2185:U:C4	1:A1:2186:U:C4	3.08	0.41
1:A1:2350:G:OP2	38:BQ:27:HIS:HE1	2.03	0.41
1:A1:2552:A:C2'	1:A1:2553:G:H5'	2.50	0.41
1:A1:2886:G:C8	1:A1:2886:G:C3'	3.01	0.41
1:A1:3106:C:C3'	1:A1:3107:C:C5'	2.98	0.41
1:A1:331:C:H2'	1:A1:332:G:C5'	2.45	0.41
1:A1:365:A:OP1	24:BC:103:LYS:NZ	2.48	0.41
1:A1:528:C:H2'	1:A1:529:G:C8	2.55	0.41
1:A1:61:A:C6	1:A1:62:G:C6	3.08	0.41
1:A1:881:G:OP1	1:A1:1746:U:O2'	2.17	0.41
1:A1:95:U:O2'	50:A1:3726:HOH:O	2.12	0.41
2:AA:14:LYS:NZ	3:AB:52:TYR:CE1	2.88	0.41
4:AC:77:THR:CG2	4:AC:78:LYS:N	2.82	0.41
7:AG:21:GLY:CA	7:AG:94:ASP:O	2.68	0.41
9:AJ:224:LEU:HD23	9:AJ:224:LEU:HA	1.67	0.41
11:AL:60:ARG:HA	11:AL:61:PRO:HD3	1.85	0.41
12:AM:15:LEU:HG	12:AM:17:PHE:CE2	2.55	0.41
12:AM:51:ASN:C	12:AM:53:GLY:H	2.23	0.41
14:AO:83:VAL:HG21	14:AO:90:VAL:CG2	2.50	0.41
18:AU:128:GLN:HA	18:AU:128:GLN:OE1	2.19	0.41
18:AU:131:ALA:HB3	18:AU:136:VAL:CG2	2.50	0.41
20:B2:90:G:C6	20:B2:92:C:N4	2.88	0.41
21:B3:90:A:O5'	21:B3:90:A:H8	2.03	0.41
23:BB:257:ARG:HD3	30:BI:63:HIS:CE1	2.55	0.41
23:BB:294:THR:CG2	23:BB:354:LEU:O	2.68	0.41
23:BB:45:ALA:H	23:BB:179:ILE:HG23	1.84	0.41
25:BD:25:GLU:O	25:BD:30:LEU:CD1	2.68	0.41
26:BE:83:THR:HB	26:BE:84:GLU:H	1.68	0.41
27:BF:124:VAL:HG12	27:BF:125:LEU:N	2.34	0.41
32:BK:49:LYS:HE2	32:BK:50:TRP:CZ2	2.55	0.41
1:A1:279:U:H5'	33:BL:188:ARG:HH21	1.86	0.41
34:BM:82:GLU:O	34:BM:85:ARG:HB2	2.19	0.41
36:BO:96:MET:HE3	36:BO:96:MET:HB3	1.90	0.41
46:BY:57:CYS:SG	46:BY:59:PRO:CG	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C2:27:G:H5'	20:C2:27:G:C8	2.49	0.41
20:C2:80:A:H8	20:C2:80:A:O5'	2.03	0.41
20:C2:90:G:C6	20:C2:92:C:N4	2.88	0.41
23:CB:20:ARG:CB	1:D1:2979:A:P	3.08	0.41
23:CB:220:LYS:CD	1:D1:3036:U:OP1	2.68	0.41
23:CB:340:ILE:HG13	23:CB:341:ILE:H	1.85	0.41
24:CC:227:LEU:HA	24:CC:230:ILE:CD1	2.41	0.41
24:CC:65:MET:HE2	24:CC:97:PHE:HB2	1.97	0.41
29:CH:4:ARG:HA	29:CH:5:PRO:HD3	1.90	0.41
33:CL:183:SER:HB3	33:CL:195:ARG:HH22	1.84	0.41
38:CQ:34:VAL:O	38:CQ:38:ILE:HG13	2.20	0.41
39:CR:111:TYR:HD2	39:CR:143:LEU:HD11	1.84	0.41
39:CR:123:THR:HG22	39:CR:125:THR:H	1.85	0.41
39:CR:149:LEU:HA	39:CR:149:LEU:HD23	1.80	0.41
43:CV:58:LYS:O	43:CV:62:GLU:HG2	2.21	0.41
46:CY:23:ARG:H	46:CY:23:ARG:HG2	1.73	0.41
1:D1:1107:A:C5	1:D1:1108:A:C5	3.08	0.41
1:D1:1108:A:N3	1:D1:1108:A:H2'	2.34	0.41
1:D1:1351:U:OP1	19:DX:17:LYS:HB2	2.20	0.41
1:D1:13:C:H2'	1:D1:14:A:C8	2.55	0.41
1:D1:1433:A:H3'	1:D1:1434:G:O4'	2.20	0.41
1:D1:1495:C:O2	1:D1:1535:A:C2	2.73	0.41
1:D1:1635:U:H2'	1:D1:1636:C:C6	2.55	0.41
1:D1:1683:U:H2'	1:D1:1684:C:H6	1.85	0.41
1:D1:1697:U:H2'	1:D1:1698:G:C8	2.55	0.41
1:D1:1755:A:O2'	1:D1:1756:U:H5'	2.20	0.41
1:D1:1758:U:C5'	1:D1:1759:C:OP2	2.68	0.41
1:D1:219:A:N1	1:D1:1416:U:C2'	2.83	0.41
1:D1:2659:G:H2'	1:D1:2660:A:H8	1.79	0.41
1:D1:2716:A:O3'	1:D1:2717:G:C4'	2.56	0.41
1:D1:2801:A:N6	1:D1:2802:G:C5	2.88	0.41
1:D1:2276:A:C6	1:D1:2947:C:H1'	2.55	0.41
1:D1:467:A:N1	1:D1:468:A:C4	2.88	0.41
1:D1:545:A:H2'	1:D1:546:A:H8	1.84	0.41
1:D1:658:G:H5'	8:DH:28:HIS:O	2.19	0.41
45:CX:29:LYS:HD3	1:D1:679:C:OP2	2.20	0.41
1:D1:747:G:C2'	1:D1:748:G:H5'	2.51	0.41
1:D1:837:G:H21	2:DA:50:TRP:HZ2	1.67	0.41
1:D1:927:G:H2'	1:D1:928:U:C6	2.54	0.41
1:D1:1517:G:H5'	2:DA:12:HIS:O	2.19	0.41
1:D1:350:A:N6	3:DB:35:ILE:HG23	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DE:67:LYS:HD2	5:DE:109:THR:CB	2.49	0.41
9:DJ:140:THR:CG2	9:DJ:141:THR:H	2.18	0.41
11:DL:60:ARG:HA	11:DL:61:PRO:HD3	1.82	0.41
12:DM:56:ILE:HG13	12:DM:69:SER:OG	2.21	0.41
1:D1:1380:C:C4	14:DO:32:THR:HG21	2.55	0.41
14:DO:6:TRP:CE3	14:DO:6:TRP:HA	2.55	0.41
15:DP:31:VAL:HG22	15:DP:44:LEU:HD21	2.00	0.41
1:D1:256:A:H4'	18:DU:84:SER:HB3	2.01	0.41
19:DX:93:LEU:HD21	19:DX:120:LEU:CD2	2.42	0.41
21:E3:32:A:C2	21:E3:41:G:C5	3.08	0.41
23:EB:233:VAL:CG1	23:EB:234:LYS:N	2.83	0.41
23:EB:23:ARG:HE	23:EB:24:HIS:CE1	2.37	0.41
23:EB:301:LYS:HD3	23:EB:359:THR:CG2	2.50	0.41
24:EC:148:ARG:NE	24:EC:187:ARG:HD2	2.34	0.41
25:ED:9:MET:O	25:ED:134:PRO:HD3	2.20	0.41
27:EF:63:ARG:CZ	27:EF:231:GLY:HA3	2.49	0.41
29:EH:4:ARG:HA	29:EH:5:PRO:HD3	1.87	0.41
33:EL:180:ARG:HH22	1:F1:301:A:H5'	1.84	0.41
34:EM:201:LYS:HA	34:EM:204:ILE:HG13	2.02	0.41
34:EM:75:LEU:HD23	34:EM:75:LEU:HA	1.63	0.41
35:EN:152:TRP:CG	1:F1:1136:C:H5''	2.54	0.41
35:EN:174:PHE:C	35:EN:176:ARG:H	2.24	0.41
36:EO:144:VAL:O	36:EO:147:ALA:HB3	2.20	0.41
40:ES:23:SER:O	40:ES:26:ARG:HB2	2.20	0.41
43:EV:125:LYS:O	43:EV:128:LEU:HG	2.19	0.41
45:EX:57:ILE:C	45:EX:59:PHE:N	2.71	0.41
1:F1:1083:U:O2	1:F1:1083:U:H2'	2.20	0.41
1:F1:1179:G:H1	1:F1:1226:C:N4	2.17	0.41
1:F1:1312:G:H2'	1:F1:1313:A:C8	2.55	0.41
1:F1:134:A:C6	1:F1:135:A:C6	3.08	0.41
1:F1:136:C:O2'	1:F1:137:A:H5'	2.19	0.41
1:F1:683:G:H22	1:F1:1460:G:C5'	2.34	0.41
1:F1:1669:G:C2	1:F1:1670:A:C5	3.09	0.41
1:F1:2109:G:H2'	1:F1:2110:C:H5'	2.00	0.41
40:ES:61:LYS:HG2	1:F1:218:G:O6	2.21	0.41
1:F1:223:C:O2'	1:F1:224:C:P	2.76	0.41
1:F1:2242:G:C5	1:F1:2243:C:C5	3.08	0.41
1:F1:2245:G:O2'	1:F1:2246:G:H5'	2.20	0.41
1:F1:2268:G:O2'	1:F1:2269:U:OP2	2.38	0.41
1:F1:2361:U:H3'	50:F1:3771:HOH:O	2.20	0.41
24:EC:80:ARG:NH2	1:F1:2397:A:C6	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2561:A:C2	1:F1:2563:U:C2	3.08	0.41
1:F1:2576:C:H2'	1:F1:2577:G:C5'	2.30	0.41
1:F1:3115:C:H2'	1:F1:3116:A:O4'	2.20	0.41
1:F1:3137:U:O2'	1:F1:3138:G:H5'	2.19	0.41
1:F1:3155:A:N7	8:FH:101:GLY:O	2.53	0.41
23:EB:377:PHE:C	1:F1:3325:G:H22	2.22	0.41
1:F1:371:A:C6	1:F1:372:A:C6	3.07	0.41
1:F1:524:G:HO2'	1:F1:525:C:P	2.39	0.41
1:F1:766:G:O2'	1:F1:767:C:O5'	2.37	0.41
1:F1:729:A:H1'	1:F1:810:G:N2	2.35	0.41
24:EC:40:LYS:HZ1	1:F1:815:U:H1'	1.85	0.41
1:F1:835:A:H2'	1:F1:836:U:C6	2.55	0.41
1:F1:852:A:C2	1:F1:853:A:C4	3.08	0.41
5:FE:182:ASN:HD22	5:FE:182:ASN:HA	1.69	0.41
6:FF:23:LYS:HB2	6:FF:43:ILE:HD11	2.01	0.41
9:FJ:111:ASN:HD22	9:FJ:156:ASN:HA	1.86	0.41
1:F1:1615:G:H5''	11:FL:15:THR:HG21	2.02	0.41
14:FO:69:LYS:CG	14:FO:70:VAL:H	2.25	0.41
18:FU:132:LYS:O	18:FU:135:LEU:HD13	2.20	0.41
19:FX:179:THR:HG22	19:FX:181:TYR:N	2.35	0.41
20:G2:67:C:H6	20:G2:67:C:H5''	1.85	0.41
20:G2:77:U:H2'	40:GS:73:TYR:OH	2.20	0.41
22:GA:238:LEU:HD22	1:H1:2149:U:O2	2.20	0.41
23:GB:93:ILE:CD1	23:GB:102:LEU:HD13	2.50	0.41
23:GB:230:ARG:HG2	23:GB:231:PHE:CZ	2.55	0.41
23:GB:46:PHE:HD1	23:GB:206:ILE:CD1	2.34	0.41
23:GB:89:VAL:O	23:GB:104:THR:HA	2.21	0.41
24:GC:44:ASP:HB3	24:GC:118:ARG:HB2	2.01	0.41
27:GF:145:VAL:HG13	27:GF:173:VAL:HG23	2.02	0.41
27:GF:92:TYR:HE1	27:GF:200:ASP:OD2	2.03	0.41
27:GF:45:VAL:HB	27:GF:47:TRP:CE2	2.55	0.41
30:GI:21:TYR:CE2	30:GI:121:ASP:HB3	2.54	0.41
31:GJ:25:ALA:HA	1:H1:1922:G:O2'	2.20	0.41
33:GL:147:ARG:O	33:GL:150:TRP:CD1	2.72	0.41
21:G3:15:U:H1'	34:GM:13:PHE:HE1	1.85	0.41
34:GM:142:PHE:HB3	34:GM:171:ILE:HG23	2.02	0.41
34:GM:242:SER:OG	34:GM:245:LYS:HG2	2.20	0.41
34:GM:52:VAL:HG23	34:GM:52:VAL:O	2.21	0.41
35:GN:146:ARG:HB3	35:GN:149:TYR:HD2	1.83	0.41
35:GN:34:TYR:O	35:GN:38:VAL:CG2	2.66	0.41
38:GQ:128:ARG:HG2	38:GQ:142:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:GR:69:SER:O	39:GR:95:HIS:HB2	2.19	0.41
46:GY:8:VAL:O	46:GY:11:THR:HB	2.20	0.41
1:H1:1053:A:H1'	1:H1:1054:G:P	2.59	0.41
1:H1:1085:G:C5'	1:H1:1085:G:H8	2.34	0.41
1:H1:146:U:C5'	1:H1:146:U:H6	2.32	0.41
1:H1:1608:G:H2'	1:H1:1609:U:O5'	2.20	0.41
1:H1:1663:C:C2'	1:H1:1664:G:H5'	2.50	0.41
1:H1:1642:G:C2	1:H1:1852:A:C2	3.08	0.41
23:GB:245:ARG:HG3	1:H1:1913:G:P	2.60	0.41
1:H1:19:A:C4'	1:H1:20:G:OP2	2.66	0.41
1:H1:2150:U:O2'	1:H1:2151:G:H5'	2.20	0.41
1:H1:2303:C:H2'	1:H1:2304:A:OP1	2.21	0.41
1:H1:2543:C:H5''	1:H1:2544:U:C5	2.55	0.41
1:H1:2576:C:C6	1:H1:2576:C:H5''	2.44	0.41
1:H1:297:U:O2	16:HQ:31:LYS:HE2	2.21	0.41
1:H1:3278:U:H4'	1:H1:3279:G:OP2	2.21	0.41
1:H1:347:A:H4'	1:H1:366:A:H62	1.85	0.41
1:H1:402:U:C2'	1:H1:403:G:H5'	2.50	0.41
1:H1:454:A:N6	1:H1:524:G:H1'	2.31	0.41
1:H1:437:A:H4'	1:H1:540:G:O2'	2.20	0.41
1:H1:685:G:H2'	1:H1:686:U:OP2	2.19	0.41
35:GN:173:LYS:HE3	1:H1:86:A:OP1	2.20	0.41
1:H1:920:A:C6	1:H1:922:U:C2	3.07	0.41
1:H1:970:C:O2'	1:H1:1432:G:H1'	2.20	0.41
1:H1:970:C:O2	1:H1:971:C:C6	2.73	0.41
2:HA:84:GLN:HA	2:HA:84:GLN:OE1	2.19	0.41
1:H1:526:U:H4'	5:HE:10:ARG:HG3	2.02	0.41
5:HE:114:ASP:C	5:HE:116:TYR:N	2.73	0.41
6:HF:28:VAL:HG11	6:HF:66:ASN:HA	2.02	0.41
6:HF:80:ASP:O	6:HF:81:LEU:C	2.59	0.41
9:HJ:116:LEU:HD11	9:HJ:177:LEU:HD21	2.01	0.41
13:HN:126:ASN:HA	13:HN:127:PRO:HD3	1.77	0.41
13:HN:5:LEU:HD23	13:HN:5:LEU:HA	1.76	0.41
14:HO:53:GLY:O	14:HO:57:ALA:HB3	2.20	0.41
42:GU:120:PHE:CD1	18:HU:47:ARG:HB3	2.54	0.41
19:HX:122:GLN:OE1	19:HX:122:GLN:HA	2.18	0.41
19:HX:176:LYS:HE2	19:HX:177:TYR:OH	2.19	0.41
19:HX:96:GLN:CB	19:HX:134:THR:HG21	2.49	0.41
1:A1:1074:A:H2'	29:BH:22:TYR:CZ	2.55	0.41
1:A1:1254:C:H2'	1:A1:1255:A:H5''	2.03	0.41
1:A1:1376:A:H3'	43:BV:12:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1370:A:C2	1:A1:1389:G:N1	2.88	0.41
1:A1:1427:G:C2'	1:A1:1428:G:O5'	2.67	0.41
1:A1:147:U:H1'	27:BF:155:LEU:HD11	2.01	0.41
1:A1:1563:A:H2'	1:A1:1564:C:C6	2.55	0.41
1:A1:1902:C:O2	1:A1:1902:C:C2'	2.68	0.41
1:A1:2103:A:H2'	1:A1:2104:C:C6	2.55	0.41
1:A1:2191:C:O2'	1:A1:2265:A:N3	2.48	0.41
1:A1:2601:U:H1'	1:A1:2791:A:N3	2.35	0.41
1:A1:2716:A:O3'	1:A1:2717:G:C4'	2.55	0.41
1:A1:2710:A:C2	1:A1:2725:A:C2	3.08	0.41
1:A1:2753:C:C5	1:A1:2754:C:C5	3.08	0.41
1:A1:2403:U:C2	1:A1:2802:G:N2	2.88	0.41
1:A1:282:G:H22	1:A1:304:U:H4'	1.75	0.41
1:A1:2913:C:H2'	1:A1:2914:A:C5'	2.50	0.41
1:A1:3193:G:O2'	1:A1:3194:G:H5'	2.20	0.41
1:A1:3185:G:C4	1:A1:3237:C:C4	3.08	0.41
1:A1:462:G:H8	1:A1:462:G:O5'	2.03	0.41
1:A1:498:A:H5''	24:BC:275:THR:HG1	1.85	0.41
1:A1:591:G:H8	1:A1:591:G:C5'	2.33	0.41
1:A1:628:A:C4'	1:A1:629:A:OP2	2.66	0.41
1:A1:658:G:H5'	8:AH:28:HIS:O	2.20	0.41
1:A1:713:G:N2	24:BC:49:ARG:CZ	2.83	0.41
1:A1:76:U:O2'	1:A1:77:A:H5'	2.20	0.41
1:A1:50:A:H1'	1:A1:836:U:O2'	2.20	0.41
5:AE:114:ASP:C	5:AE:116:TYR:N	2.74	0.41
8:AH:20:PHE:C	8:AH:20:PHE:HD1	2.24	0.41
9:AJ:97:ILE:HD12	9:AJ:104:LEU:HD13	2.03	0.41
11:AL:15:THR:HG22	11:AL:17:SER:H	1.85	0.41
1:A1:2216:G:O6	16:AQ:75:LYS:NZ	2.52	0.41
17:AT:56:SER:OG	17:AT:57:LYS:N	2.53	0.41
20:B2:118:G:H2'	20:B2:119:A:H8	1.86	0.41
20:B2:146:A:H2	27:BF:50:TYR:HE2	1.68	0.41
20:B2:43:A:C2'	20:B2:44:A:O5'	2.69	0.41
22:BA:186:GLN:HB3	22:BA:197:TRP:CZ2	2.56	0.41
22:BA:52:GLU:HA	22:BA:53:PRO:HD3	1.83	0.41
23:BB:36:ASP:HA	23:BB:37:PRO:HD2	1.74	0.41
24:BC:127:HIS:CE1	24:BC:286:GLN:OE1	2.73	0.41
24:BC:163:VAL:CA	24:BC:166:TYR:CD2	3.01	0.41
24:BC:330:LEU:HA	24:BC:330:LEU:HD23	1.77	0.41
24:BC:359:LEU:HD21	24:BC:363:ARG:HH21	1.84	0.41
26:BE:94:PHE:CD1	26:BE:98:PRO:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BF:176:LYS:HD2	27:BF:187:THR:CG2	2.49	0.41
27:BF:89:LEU:HD23	27:BF:193:LEU:HD21	2.02	0.41
9:AJ:100:LYS:O	31:BJ:139:SER:HB3	2.20	0.41
32:BK:38:GLY:HA3	32:BK:42:HIS:CE1	2.55	0.41
34:BM:252:ALA:O	34:BM:256:LYS:HG3	2.21	0.41
37:BP:108:ARG:NH2	37:BP:130:ARG:HG2	2.35	0.41
37:BP:31:LEU:HD23	37:BP:31:LEU:HA	1.81	0.41
37:BP:5:TYR:HA	37:BP:9:ARG:HD2	2.02	0.41
38:BQ:114:LEU:HA	38:BQ:114:LEU:HD23	1.61	0.41
40:BS:33:HIS:NE2	40:BS:39:ARG:NH2	2.68	0.41
1:A1:230:G:OP1	40:BS:3:THR:HG21	2.19	0.41
42:BU:11:ARG:HG2	42:BU:61:ILE:HD12	2.02	0.41
42:BU:61:ILE:HD13	42:BU:61:ILE:HA	1.82	0.41
14:AO:110:LYS:HB2	45:BX:89:MET:CE	2.50	0.41
20:C2:139:U:H1'	33:CL:136:ASP:OD2	2.21	0.41
20:C2:45:G:C6	20:C2:104:G:N3	2.88	0.41
21:C3:71:G:H2'	21:C3:72:U:H6	1.84	0.41
23:CB:356:PHE:CE2	23:CB:358:ASP:HA	2.55	0.41
23:CB:363:ILE:O	1:D1:3075:A:O3'	2.38	0.41
23:CB:375:ASP:OD2	23:CB:382:ARG:HG3	2.20	0.41
24:CC:348:ALA:C	24:CC:350:ALA:N	2.74	0.41
24:CC:41:VAL:HG12	24:CC:45:LEU:HD12	2.01	0.41
24:CC:89:THR:HG22	24:CC:91:ARG:HB3	2.03	0.41
27:CF:143:LEU:HD23	27:CF:143:LEU:HA	1.84	0.41
30:CI:36:ARG:HG3	30:CI:107:ILE:HD11	2.02	0.41
33:CL:61:ILE:HD13	33:CL:133:ILE:HA	2.03	0.41
33:CL:145:ASP:HA	33:CL:146:PRO:HD3	1.85	0.41
34:CM:106:ALA:CB	34:CM:169:GLY:HA3	2.50	0.41
34:CM:125:VAL:CG2	34:CM:205:PHE:CE1	2.95	0.41
35:CN:93:LEU:HA	35:CN:93:LEU:HD23	1.83	0.41
47:CO:84:THR:HB	47:CO:87:ALA:H	1.85	0.41
37:CP:11:THR:O	37:CP:11:THR:CG2	2.68	0.41
40:CS:10:ALA:HB3	40:CS:13:LYS:HG3	2.01	0.41
43:CV:41:TRP:HE1	43:CV:176:THR:HG22	1.85	0.41
45:CX:57:ILE:C	45:CX:59:PHE:N	2.72	0.41
1:D1:1050:C:H2'	1:D1:1051:C:O4'	2.19	0.41
1:D1:1127:U:C2	1:D1:1128:G:C8	3.08	0.41
43:CV:91:GLN:HG2	1:D1:1166:G:O2'	2.21	0.41
1:D1:969:C:OP1	1:D1:1458:C:H4'	2.20	0.41
1:D1:1555:A:OP2	1:D1:1617:G:N2	2.52	0.41
1:D1:1728:A:C2'	1:D1:1729:U:OP2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:174:A:N6	1:D1:246:G:C5	2.88	0.41
1:D1:2242:G:N3	1:D1:2266:A:H2	2.17	0.41
1:D1:2303:C:H2'	1:D1:2304:A:OP1	2.20	0.41
1:D1:2873:C:N4	1:D1:2874:U:O4	2.54	0.41
1:D1:514:U:O2'	1:D1:515:A:H5'	2.20	0.41
5:DE:114:ASP:C	5:DE:116:TYR:N	2.72	0.41
5:DE:49:THR:HG22	5:DE:50:VAL:H	1.85	0.41
1:D1:3226:A:N3	5:DE:84:GLY:HA3	2.34	0.41
11:DL:68:ALA:O	11:DL:69:ARG:C	2.58	0.41
15:DP:15:TRP:O	15:DP:72:TYR:CE1	2.73	0.41
17:DT:50:ASP:HB3	17:DT:53:ILE:HD12	2.03	0.41
1:D1:742:U:H5	17:DT:61:LYS:HD2	1.86	0.41
18:DU:74:THR:HB	18:DU:101:ASN:ND2	2.35	0.41
6:DF:3:PHE:CE1	19:DX:164:PRO:HB3	2.54	0.41
26:CE:58:TRP:NE1	19:DX:164:PRO:HG2	2.35	0.41
20:E2:75:A:N3	20:E2:89:A:O2'	2.52	0.41
23:EB:294:THR:HG22	23:EB:295:ALA:H	1.83	0.41
24:EC:270:PHE:HB3	24:EC:285:LEU:HD21	2.01	0.41
24:EC:273:TYR:HB3	24:EC:287:ARG:HH12	1.86	0.41
29:EH:43:VAL:O	29:EH:171:TRP:NE1	2.53	0.41
29:EH:44:GLU:OE2	29:EH:181:TYR:OH	2.35	0.41
30:EI:156:GLU:HA	30:EI:156:GLU:OE1	2.19	0.41
34:EM:99:TYR:HD2	34:EM:251:HIS:HE1	1.68	0.41
39:ER:113:VAL:CG1	39:ER:138:SER:OG	2.69	0.41
39:ER:121:LEU:O	39:ER:128:LYS:HA	2.20	0.41
39:ER:77:THR:O	39:ER:78:GLU:C	2.56	0.41
20:E2:81:G:C4'	42:EU:42:ALA:HB1	2.50	0.41
43:EV:117:ASN:HB2	43:EV:120:SER:OG	2.20	0.41
45:EX:22:PHE:CE2	45:EX:23:GLU:HG3	2.55	0.41
45:EX:25:GLU:OE1	45:EX:25:GLU:N	2.42	0.41
45:EX:65:THR:O	45:EX:68:LEU:HB2	2.20	0.41
1:F1:101:G:H4'	18:FU:63:TYR:CD1	2.55	0.41
1:F1:1032:A:H5'	1:F1:1033:U:OP2	2.21	0.41
1:F1:1070:U:H2'	1:F1:1071:C:O5'	2.19	0.41
1:F1:1133:G:H2'	1:F1:1134:C:O4'	2.20	0.41
1:F1:1175:G:H2'	1:F1:1176:G:C5'	2.50	0.41
1:F1:1244:A:C2'	1:F1:1245:U:H5''	2.50	0.41
1:F1:1453:U:O2'	1:F1:1454:A:H5'	2.19	0.41
1:F1:1616:G:C2'	1:F1:1617:G:H5'	2.51	0.41
1:F1:1725:A:H2'	1:F1:1726:C:O5'	2.19	0.41
1:F1:2228:A:N7	1:F1:2229:G:N7	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:EL:50:LYS:HZ2	1:F1:267:A:P	2.44	0.41
1:F1:2801:A:C6	1:F1:2802:G:C5	3.08	0.41
1:F1:3028:A:H2'	1:F1:3029:A:C8	2.55	0.41
23:EB:270:TYR:CD2	1:F1:3265:A:H5'	2.54	0.41
1:F1:468:A:N6	1:F1:469:U:C4	2.88	0.41
1:F1:524:G:H8	1:F1:524:G:O5'	2.02	0.41
1:F1:545:A:H2'	1:F1:546:A:H8	1.85	0.41
1:F1:651:U:C4	1:F1:652:U:C5	3.09	0.41
1:F1:920:A:C6	1:F1:922:U:C2	3.07	0.41
1:F1:969:C:H2'	1:F1:970:C:H6	1.85	0.41
2:FA:28:HIS:CD2	2:FA:31:LYS:N	2.76	0.41
5:FE:116:TYR:OH	5:FE:149:ARG:HG2	2.19	0.41
6:FF:106:PHE:CE2	6:FF:110:ARG:NE	2.87	0.41
6:FF:111:VAL:CG1	6:FF:115:LYS:HE3	2.49	0.41
6:FF:11:ARG:O	6:FF:26:VAL:HA	2.19	0.41
8:FH:107:MET:CB	8:FH:109:TYR:CE2	3.03	0.41
9:FJ:53:ILE:HD13	9:FJ:63:THR:HG23	2.02	0.41
9:FJ:66:ASN:C	9:FJ:66:ASN:OD1	2.58	0.41
13:FN:9:ARG:HD2	13:FN:83:THR:O	2.20	0.41
14:FO:53:GLY:O	14:FO:57:ALA:HB3	2.20	0.41
14:FO:69:LYS:CG	14:FO:70:VAL:N	2.80	0.41
17:FT:40:LEU:O	17:FT:44:ARG:HG3	2.21	0.41
33:EL:202:ARG:NH1	18:FU:27:ALA:HB2	2.28	0.41
19:FX:44:PHE:HD1	19:FX:137:ILE:HD11	1.84	0.41
19:FX:170:HIS:C	19:FX:170:HIS:ND1	2.73	0.41
20:G2:2:G:O2'	1:H1:2983:A:C2'	2.68	0.41
22:GA:95:ALA:HB3	22:GA:103:LEU:HD22	2.02	0.41
23:GB:233:VAL:HG12	23:GB:234:LYS:N	2.35	0.41
24:GC:388:ILE:O	24:GC:391:ALA:HB3	2.21	0.41
25:GD:9:MET:HA	25:GD:9:MET:CE	2.50	0.41
26:GE:113:LYS:CD	26:GE:114:HIS:HB2	2.50	0.41
26:GE:132:ILE:HG23	26:GE:144:LEU:HD21	2.01	0.41
26:GE:49:THR:C	26:GE:51:ASP:N	2.74	0.41
27:GF:68:PRO:CD	27:GF:225:TRP:NE1	2.83	0.41
29:GH:159:PHE:HB3	29:GH:163:GLN:CD	2.40	0.41
32:GK:39:GLY:HA3	32:GK:55:TYR:OH	2.20	0.41
33:GL:44:ARG:NH1	33:GL:47:LYS:HG2	2.36	0.41
34:GM:109:LEU:CD2	34:GM:142:PHE:CD2	3.03	0.41
35:GN:63:LEU:CD2	35:GN:83:SER:HB3	2.51	0.41
37:GP:43:MET:HB3	37:GP:43:MET:HE3	1.51	0.41
37:GP:15:PHE:HE2	37:GP:52:MET:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:GP:5:TYR:HA	37:GP:9:ARG:HD2	2.01	0.41
38:GQ:103:ASN:OD1	1:H1:388:A:H4'	2.20	0.41
41:GT:11:CYS:O	41:GT:55:ILE:HB	2.20	0.41
42:GU:42:ALA:HA	42:GU:45:LEU:HG	2.02	0.41
24:GC:323:PRO:HG2	43:GV:146:TYR:HB3	2.01	0.41
43:GV:8:ASN:HB3	1:H1:1376:A:H2'	2.01	0.41
43:GV:93:HIS:CG	43:GV:94:PRO:HD2	2.55	0.41
45:GX:44:VAL:O	45:GX:45:ARG:C	2.59	0.41
45:GX:47:ARG:HB3	45:GX:53:ARG:HH12	1.86	0.41
1:H1:1233:G:H1'	50:H1:4516:HOH:O	2.19	0.41
1:H1:1438:A:H2'	1:H1:1439:U:H6	1.85	0.41
1:H1:1517:G:H21	1:H1:1867:C:H5'	1.85	0.41
1:H1:1653:A:N6	1:H1:1839:A:C2	2.88	0.41
1:H1:1728:A:C2'	1:H1:1729:U:OP2	2.68	0.41
1:H1:1818:C:H5''	1:H1:1819:C:OP1	2.21	0.41
1:H1:1945:A:C2	1:H1:1956:A:C2	3.08	0.41
1:H1:2111:G:O2'	1:H1:2112:G:OP1	2.29	0.41
22:GA:236:VAL:C	1:H1:2178:A:HO2'	2.20	0.41
1:H1:2287:U:C4	1:H1:2288:C:N4	2.89	0.41
1:H1:2692:A:H5''	1:H1:2693:A:H5'	2.02	0.41
1:H1:2762:U:O2	1:H1:2762:U:H2'	2.20	0.41
23:GB:5:LYS:HZ2	1:H1:2866:G:H5''	1.85	0.41
1:H1:3228:U:C3'	1:H1:3229:C:H5'	2.47	0.41
1:H1:3229:C:O2	5:HE:57:ARG:HG3	2.21	0.41
1:H1:3298:U:H1'	1:H1:3299:G:OP1	2.21	0.41
1:H1:487:G:H2'	1:H1:488:U:C6	2.55	0.41
1:H1:453:A:N7	1:H1:526:U:C2	2.89	0.41
1:H1:588:G:H2'	1:H1:589:C:C6	2.54	0.41
1:H1:540:G:N2	1:H1:642:C:O2	2.38	0.41
1:H1:847:G:C5'	1:H1:847:G:H8	2.33	0.41
1:H1:847:G:H8	1:H1:847:G:H5'	1.84	0.41
2:HA:28:HIS:NE2	2:HA:31:LYS:HG3	2.34	0.41
9:HJ:188:ARG:O	9:HJ:188:ARG:HG3	2.19	0.41
9:HJ:53:ILE:HD13	9:HJ:63:THR:CG2	2.50	0.41
12:HM:98:THR:O	12:HM:105:TYR:HD1	2.02	0.41
13:HN:142:LEU:HD12	13:HN:142:LEU:HA	1.81	0.41
24:GC:251:HIS:CE1	14:HO:12:ASN:OD1	2.73	0.41
14:HO:49:ALA:O	14:HO:50:LEU:HD23	2.20	0.41
1:H1:1146:C:N4	17:HT:10:LYS:NZ	2.62	0.41
42:GU:118:ARG:NH1	18:HU:123:LEU:HD21	2.34	0.41
19:HX:161:LEU:HA	19:HX:161:LEU:HD12	1.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1027:G:N3	1:A1:1027:G:C2'	2.81	0.41
1:A1:1062:A:N6	1:A1:1063:C:N4	2.68	0.41
1:A1:195:U:O2'	1:A1:1417:A:OP2	2.30	0.41
1:A1:1428:G:H2'	1:A1:1429:C:H6	1.86	0.41
1:A1:1445:G:C3'	1:A1:1446:C:H5''	2.48	0.41
1:A1:2121:A:H2'	1:A1:2122:A:O5'	2.21	0.41
1:A1:2377:G:C2'	1:A1:2378:A:H5'	2.50	0.41
1:A1:2564:G:O6	1:A1:2565:A:N6	2.53	0.41
1:A1:2703:G:OP2	1:A1:2705:U:C1'	2.62	0.41
1:A1:3062:A:H2'	1:A1:3063:G:O4'	2.20	0.41
1:A1:3194:G:N2	1:A1:3217:U:H1'	2.35	0.41
1:A1:710:G:C2'	1:A1:711:U:O5'	2.68	0.41
1:A1:825:G:N2	1:A1:826:A:C2	2.88	0.41
3:AB:7:LEU:HD23	3:AB:7:LEU:HA	1.66	0.41
7:AG:24:THR:HG21	7:AG:29:SER:HG	1.85	0.41
8:AH:91:PHE:CZ	8:AH:95:LEU:HD11	2.55	0.41
14:AO:52:GLY:CA	14:AO:118:ASN:HD21	2.26	0.41
1:A1:298:G:C6	16:AQ:31:LYS:HB2	2.56	0.41
22:BA:31:ARG:O	22:BA:164:ARG:NH1	2.36	0.41
23:BB:113:ASN:O	23:BB:116:LYS:HB2	2.20	0.41
21:B3:63:A:N3	29:BH:202:GLU:HB3	2.35	0.41
30:BI:26:LEU:CD2	30:BI:100:ARG:HB2	2.50	0.41
30:BI:11:LYS:O	30:BI:13:HIS:CD2	2.73	0.41
31:BJ:9:GLY:HA3	31:BJ:110:LYS:O	2.20	0.41
32:BK:110:PHE:HD2	32:BK:128:LYS:HD2	1.83	0.41
32:BK:46:LEU:CD2	32:BK:50:TRP:CZ3	3.03	0.41
36:BO:165:LYS:HG2	36:BO:165:LYS:O	2.19	0.41
36:BO:21:ARG:NH1	36:BO:52:LYS:HE3	2.35	0.41
39:BR:113:VAL:HG12	39:BR:114:LYS:N	2.34	0.41
39:BR:84:MET:HG2	39:BR:89:THR:O	2.20	0.41
40:BS:14:GLN:O	40:BS:15:ARG:C	2.58	0.41
40:BS:86:LYS:HE3	40:BS:96:ILE:CD1	2.49	0.41
37:BP:141:VAL:O	43:BV:71:ALA:HB1	2.19	0.41
43:BV:80:VAL:HG22	43:BV:188:VAL:HG21	1.98	0.41
21:C3:67:C:C2	21:C3:68:U:C5	3.09	0.41
22:CA:195:LYS:CG	22:CA:195:LYS:O	2.64	0.41
23:CB:185:LYS:HB2	23:CB:188:GLU:CG	2.44	0.41
23:CB:250:ILE:HD13	23:CB:250:ILE:HA	1.67	0.41
24:CC:126:ARG:HD3	24:CC:283:TYR:HD2	1.85	0.41
24:CC:41:VAL:HG12	24:CC:45:LEU:CD1	2.50	0.41
26:CE:113:LYS:CD	26:CE:114:HIS:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CF:115:LYS:HG2	27:CF:116:GLN:N	2.36	0.41
27:CF:41:LEU:HA	27:CF:41:LEU:HD23	1.86	0.41
30:CI:48:ARG:HH12	1:D1:1217:A:H8	1.68	0.41
32:CK:22:VAL:HG22	1:D1:666:U:OP1	2.20	0.41
33:CL:185:ARG:O	33:CL:186:THR:HB	2.20	0.41
33:CL:202:ARG:HH21	18:DU:26:GLN:HE21	1.67	0.41
34:CM:157:ASN:OD1	34:CM:158:ARG:N	2.53	0.41
34:CM:176:SER:HB3	50:D1:4713:HOH:O	2.20	0.41
34:CM:37:ILE:O	34:CM:37:ILE:HG12	2.20	0.41
47:CO:170:UNK:O	47:CO:174:UNK:CG	2.65	0.41
37:CP:42:ILE:HD12	37:CP:91:VAL:HG21	2.03	0.41
40:CS:23:SER:O	40:CS:26:ARG:HB2	2.20	0.41
41:CT:11:CYS:O	41:CT:55:ILE:HB	2.19	0.41
43:CV:125:LYS:O	43:CV:128:LEU:HG	2.20	0.41
1:D1:1227:A:C4'	1:D1:1228:C:O5'	2.66	0.41
1:D1:1248:G:O5'	1:D1:1248:G:C8	2.74	0.41
1:D1:1475:A:C2	1:D1:2351:A:C5	3.08	0.41
1:D1:1519:G:N3	3:DB:13:PHE:HE1	2.17	0.41
1:D1:1594:C:N4	1:D1:1595:A:N7	2.67	0.41
1:D1:1598:C:C5	1:D1:1599:G:C8	3.07	0.41
1:D1:1921:G:H2'	1:D1:1922:G:C5'	2.47	0.41
1:D1:206:G:C6	1:D1:207:U:C5	3.08	0.41
1:D1:2283:G:C4	1:D1:2284:U:C5	3.08	0.41
1:D1:2423:U:H2'	1:D1:2424:A:C8	2.55	0.41
1:D1:2650:U:H2'	1:D1:2651:A:H8	1.86	0.41
1:D1:2801:A:C6	1:D1:2802:G:C5	3.08	0.41
1:D1:1143:G:N2	1:D1:2805:A:O4'	2.54	0.41
1:D1:3144:G:C2	1:D1:3249:U:O2	2.74	0.41
1:D1:3175:A:H5'	1:D1:3176:A:OP2	2.20	0.41
23:CB:221:GLY:HA3	1:D1:3265:A:H5''	2.02	0.41
1:D1:3278:U:H4'	1:D1:3279:G:OP2	2.20	0.41
1:D1:468:A:N6	1:D1:469:U:C4	2.88	0.41
1:D1:681:A:H3'	50:D1:3873:HOH:O	2.20	0.41
2:DA:65:MET:HE2	2:DA:68:MET:HG3	2.03	0.41
5:DE:114:ASP:O	5:DE:116:TYR:N	2.53	0.41
7:DG:11:GLN:CG	7:DG:12:SER:N	2.83	0.41
7:DG:40:LYS:NZ	1:F1:1047:G:OP1	2.53	0.41
8:DH:48:VAL:CG1	8:DH:87:ALA:HB2	2.50	0.41
8:DH:50:PHE:CD1	8:DH:50:PHE:C	2.94	0.41
9:DJ:97:ILE:HD12	9:DJ:104:LEU:CD1	2.50	0.41
9:DJ:114:VAL:HG12	9:DJ:115:ALA:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DO:24:PHE:CD1	14:DO:34:ARG:HG2	2.54	0.41
14:DO:94:ILE:HD13	14:DO:107:ALA:CB	2.49	0.41
14:DO:48:VAL:HG23	14:DO:98:PHE:HZ	1.85	0.41
16:DQ:40:LEU:O	16:DQ:44:VAL:HG23	2.20	0.41
33:CL:196:GLN:HB3	18:DU:19:ARG:HD2	2.02	0.41
19:DX:44:PHE:CD1	19:DX:137:ILE:CD1	3.03	0.41
20:E2:107:C:C5	20:E2:135:A:C4	3.08	0.41
20:E2:58:U:H2'	20:E2:59:G:H8	1.84	0.41
22:EA:106:ASN:HA	22:EA:140:HIS:CE1	2.54	0.41
23:EB:138:ASP:OD1	23:EB:140:LYS:HG2	2.20	0.41
23:EB:105:VAL:HG11	23:EB:146:LEU:HD21	2.03	0.41
23:EB:41:PRO:HA	23:EB:183:GLY:HA3	2.02	0.41
24:EC:230:ILE:CG2	24:EC:233:VAL:CG1	2.98	0.41
24:EC:24:THR:HG21	1:F1:472:C:OP1	2.20	0.41
24:EC:398:PHE:CG	37:EP:154:ARG:NH1	2.88	0.41
25:ED:93:LYS:HE2	25:ED:156:LYS:NZ	2.35	0.41
26:EE:1:MET:HE3	1:F1:1214:C:OP1	2.20	0.41
26:EE:27:VAL:HG12	26:EE:82:VAL:HG21	2.02	0.41
29:EH:64:ALA:O	29:EH:67:ALA:HB3	2.21	0.41
30:EI:21:TYR:CE2	30:EI:121:ASP:HB3	2.55	0.41
30:EI:81:ARG:CG	30:EI:81:ARG:HH11	2.32	0.41
34:EM:76:CYS:HB3	34:EM:105:LEU:HD12	2.01	0.41
37:EP:11:THR:CG2	37:EP:15:PHE:CD2	3.03	0.41
38:EQ:24:LEU:HB2	38:EQ:146:CYS:HB2	2.02	0.41
39:ER:104:LYS:HG3	39:ER:115:VAL:HB	2.02	0.41
40:ES:111:ASP:OD1	40:ES:111:ASP:C	2.59	0.41
45:EX:96:GLY:N	45:EX:120:ARG:O	2.44	0.41
1:F1:997:G:C5'	1:F1:1399:A:O2'	2.68	0.41
1:F1:1414:C:C2	1:F1:1415:C:C6	3.08	0.41
1:F1:1551:C:O2	1:F1:1619:A:H2	2.03	0.41
1:F1:1597:U:C2'	1:F1:1598:C:C6	2.96	0.41
1:F1:1737:A:C4'	1:F1:1738:A:OP1	2.59	0.41
36:EO:134:ASN:ND2	1:F1:1971:G:C5'	2.84	0.41
1:F1:2126:G:N3	50:F1:3987:HOH:O	2.50	0.41
1:F1:2221:U:H2'	1:F1:2222:C:H6	1.85	0.41
1:F1:2391:G:H5''	1:F1:2393:A:H5''	2.01	0.41
1:F1:2703:G:C8	1:F1:2705:U:C4	3.09	0.41
1:F1:2766:A:C3'	1:F1:2767:A:H5'	2.50	0.41
23:EB:11:HIS:HB2	1:F1:2870:U:OP1	2.19	0.41
1:F1:2945:G:C2'	1:F1:2946:A:H5'	2.50	0.41
1:F1:3080:A:OP2	50:F1:4448:HOH:O	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:374:LYS:NZ	1:F1:3288:A:OP2	2.36	0.41
1:F1:397:A:O2'	1:F1:400:C:O2'	2.26	0.41
4:FC:25:GLN:HG2	4:FC:26:TYR:N	2.36	0.41
4:FC:4:VAL:O	4:FC:91:PHE:HA	2.21	0.41
5:FE:58:PHE:HB3	5:FE:85:VAL:CG2	2.49	0.41
5:FE:73:LEU:HG	5:FE:73:LEU:H	1.63	0.41
7:FG:90:MET:CG	7:FG:91:ALA:N	2.83	0.41
9:FJ:158:GLY:HA2	9:FJ:179:ILE:HD12	2.03	0.41
11:FL:59:VAL:HG12	11:FL:60:ARG:O	2.20	0.41
15:FP:15:TRP:O	15:FP:72:TYR:CE1	2.73	0.41
15:FP:15:TRP:CE3	15:FP:69:PRO:HG3	2.55	0.41
1:F1:298:G:C6	16:FQ:31:LYS:HG3	2.54	0.41
18:FU:100:LYS:HE3	18:FU:102:ARG:HH21	1.86	0.41
50:F1:3657:HOH:O	18:FU:15:HIS:CE1	2.69	0.41
18:FU:34:LEU:HA	18:FU:34:LEU:HD23	1.79	0.41
6:FF:29:ASN:OD1	19:FX:109:ARG:NH2	2.53	0.41
20:G2:60:C:C5	2:HA:64:ARG:NH1	2.89	0.41
20:G2:6:A:N1	1:H1:2381:A:O2'	2.45	0.41
24:GC:157:TYR:CE1	24:GC:179:VAL:CG1	3.04	0.41
24:GC:179:VAL:O	24:GC:179:VAL:HG12	2.21	0.41
25:GD:112:LEU:HA	25:GD:112:LEU:HD23	1.86	0.41
32:GK:123:VAL:O	32:GK:144:ALA:N	2.45	0.41
32:GK:148:THR:CG2	32:GK:149:ALA:H	2.34	0.41
32:GK:25:HIS:HD2	1:H1:827:C:C6	2.38	0.41
32:GK:49:LYS:HE2	32:GK:50:TRP:CZ2	2.56	0.41
34:GM:166:ALA:HB1	34:GM:173:ILE:HD11	2.01	0.41
34:GM:264:THR:HG22	34:GM:264:THR:O	2.20	0.41
24:GC:34:ARG:CZ	35:GN:24:ASN:CB	2.99	0.41
36:GO:115:ILE:CG2	36:GO:119:GLN:HB3	2.50	0.41
36:GO:68:GLU:OE1	36:GO:68:GLU:HA	2.19	0.41
37:GP:48:GLN:HG3	37:GP:94:GLU:HG3	2.02	0.41
39:GR:85:GLU:HA	39:GR:141:LEU:HD21	2.03	0.41
23:GB:55:HIS:ND1	41:GT:18:GLY:HA3	2.35	0.41
45:GX:113:ARG:HD2	45:GX:113:ARG:O	2.20	0.41
45:GX:57:ILE:C	45:GX:59:PHE:N	2.72	0.41
1:H1:1005:A:C2	1:H1:1007:G:C6	3.09	0.41
1:H1:1107:A:C3'	1:H1:1108:A:H8	2.28	0.41
1:H1:1398:G:H2'	1:H1:1399:A:O5'	2.21	0.41
1:H1:1440:A:C6	1:H1:1441:U:C4	3.07	0.41
1:H1:1549:U:H2'	1:H1:1632:U:O2	2.20	0.41
1:H1:1597:U:C5	1:H1:1598:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:169:A:OP2	1:H1:249:G:C2	2.74	0.41
1:H1:1812:G:O2'	1:H1:1813:A:H5'	2.20	0.41
1:H1:2371:G:C6	1:H1:2372:G:C6	3.09	0.41
1:H1:2915:C:H2'	1:H1:2916:C:H6	1.85	0.41
1:H1:2994:G:C2'	1:H1:2995:A:OP2	2.68	0.41
1:H1:3079:U:O2'	1:H1:3080:A:C5'	2.69	0.41
1:H1:3092:A:H2'	1:H1:3093:U:O5'	2.20	0.41
1:H1:547:U:H2'	1:H1:548:G:C8	2.55	0.41
1:H1:680:A:C6	1:H1:681:A:C6	3.09	0.41
22:GA:20:HIS:CE1	1:H1:848:C:H5'	2.54	0.41
22:GA:205:MET:HE3	1:H1:939:A:N1	2.35	0.41
2:HA:21:ARG:CZ	2:HA:44:MET:HE3	2.49	0.41
2:HA:68:MET:HE2	2:HA:68:MET:HB3	2.00	0.41
6:HF:109:PHE:O	6:HF:113:VAL:HG23	2.19	0.41
7:HG:57:GLU:HA	7:HG:67:ILE:HD13	1.96	0.41
11:HL:53:LEU:HA	11:HL:53:LEU:HD23	1.84	0.41
11:HL:41:TYR:CB	11:HL:58:GLN:HE21	2.30	0.41
11:HL:87:VAL:O	11:HL:90:ARG:HB2	2.20	0.41
13:HN:41:VAL:HG12	13:HN:43:VAL:HG23	2.00	0.41
13:HN:75:VAL:HG13	13:HN:79:HIS:HB2	2.02	0.41
14:HO:52:GLY:HA3	14:HO:118:ASN:ND2	2.31	0.41
15:HP:13:LYS:HE2	15:HP:13:LYS:HB3	1.80	0.41
42:GU:124:ALA:HB1	18:HU:152:THR:HG22	2.03	0.41
18:HU:156:LEU:HA	18:HU:157:PRO:HD2	1.95	0.41
19:HX:134:THR:CG2	19:HX:134:THR:O	2.66	0.41
1:A1:1108:A:H3'	1:A1:1110:U:C6	2.55	0.41
1:A1:975:G:C2	1:A1:1397:G:O6	2.74	0.41
1:A1:145:A:P	50:A1:3710:HOH:O	2.78	0.41
1:A1:150:A:O2'	1:A1:151:A:H5'	2.21	0.41
1:A1:1865:A:N1	1:A1:1872:U:C4	2.89	0.41
1:A1:2198:U:O2	1:A1:2235:G:C2	2.73	0.41
1:A1:2255:U:C4'	1:A1:2301:C:O4'	2.68	0.41
1:A1:2632:A:H5'	17:AT:6:ASN:OD1	2.20	0.41
1:A1:2669:A:C6	25:BD:57:PHE:CD1	3.08	0.41
1:A1:27:C:H2'	1:A1:28:G:O5'	2.21	0.41
1:A1:284:U:O4'	1:A1:284:U:P	2.79	0.41
1:A1:3078:C:C4	1:A1:3079:U:C4	3.08	0.41
1:A1:3316:C:N4	1:A1:3317:G:C6	2.88	0.41
1:A1:469:U:O2	1:A1:469:U:H2'	2.18	0.41
1:A1:612:C:C2'	1:A1:613:U:H5'	2.50	0.41
1:A1:833:A:O2'	1:A1:2408:A:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:5:THR:N	2:AA:6:PRO:CD	2.84	0.41
5:AE:56:GLY:O	5:AE:59:ARG:N	2.34	0.41
6:AF:56:THR:O	6:AF:57:LYS:CG	2.47	0.41
7:AG:10:ILE:HG12	7:AG:13:LYS:NZ	2.35	0.41
1:A1:297:U:O4	16:AQ:30:ARG:HA	2.19	0.41
16:AQ:36:LYS:O	16:AQ:40:LEU:HG	2.20	0.41
17:AT:30:ILE:HG22	17:AT:31:SER:N	2.36	0.41
18:AU:87:PHE:CD2	18:AU:91:ILE:HD11	2.55	0.41
19:AX:19:ARG:HG3	19:AX:21:TYR:OH	2.21	0.41
19:AX:61:LYS:HD3	19:AX:61:LYS:HA	1.79	0.41
21:B3:4:G:C2'	21:B3:5:U:H5'	2.50	0.41
22:BA:176:THR:HG22	22:BA:176:THR:O	2.20	0.41
22:BA:5:ILE:CG2	22:BA:6:ARG:N	2.83	0.41
1:A1:2388:G:H4'	23:BB:250:ILE:CG1	2.51	0.41
23:BB:46:PHE:HD1	23:BB:206:ILE:CD1	2.33	0.41
28:BG:22:UNK:HG1	28:BG:92:UNK:HB1	2.02	0.41
29:BH:146:LYS:HD3	29:BH:146:LYS:HA	1.92	0.41
30:BI:23:ALA:O	30:BI:26:LEU:HB2	2.20	0.41
30:BI:32:ILE:HG22	30:BI:33:VAL:N	2.36	0.41
32:BK:131:SER:O	32:BK:132:LYS:C	2.58	0.41
1:A1:291:C:P	33:BL:68:ARG:HH12	2.42	0.41
45:BX:46:ARG:HD2	45:BX:48:PHE:CE2	2.54	0.41
45:BX:81:PRO:O	45:BX:84:LEU:HB2	2.20	0.41
24:CC:42:PHE:CD1	24:CC:244:LEU:HD23	2.55	0.41
25:CD:142:ARG:O	25:CD:145:THR:OG1	2.38	0.41
26:CE:101:GLU:HG2	26:CE:101:GLU:H	1.77	0.41
26:CE:110:ILE:CD1	26:CE:159:ILE:HD11	2.50	0.41
27:CF:127:TYR:CE1	1:D1:146:U:C2	3.08	0.41
27:CF:21:LEU:HD21	13:DN:122:TYR:HE2	1.76	0.41
30:CI:13:HIS:HE1	30:CI:119:VAL:H	1.69	0.41
33:CL:29:GLU:O	33:CL:32:GLN:HB2	2.21	0.41
34:CM:131:ASN:HB3	34:CM:133:ASP:OD1	2.20	0.41
34:CM:60:ILE:HD13	34:CM:98:ALA:HB2	2.02	0.41
35:CN:88:THR:HG22	35:CN:107:THR:CG2	2.51	0.41
38:CQ:62:PHE:CD2	38:CQ:69:ILE:HD13	2.56	0.41
40:CS:33:HIS:O	40:CS:104:VAL:HA	2.20	0.41
40:CS:98:LEU:HD23	40:CS:98:LEU:HA	1.72	0.41
45:CX:29:LYS:HG2	1:D1:679:C:OP1	2.19	0.41
1:D1:753:A:H5'	1:D1:1002:A:O4'	2.21	0.41
1:D1:1047:G:C2'	1:D1:1048:U:H5''	2.50	0.41
1:D1:1107:A:C6	1:D1:1108:A:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:114:A:H2'	1:D1:115:G:H8	1.83	0.41
1:D1:116:U:C5	1:D1:117:G:N7	2.88	0.41
1:D1:1191:G:H2'	1:D1:1192:A:C8	2.47	0.41
1:D1:1245:U:N3	1:D1:1314:A:C2	2.89	0.41
1:D1:1310:C:C5	1:D1:1311:C:C4	3.08	0.41
1:D1:1377:A:H2'	1:D1:1378:U:O4'	2.20	0.41
1:D1:1379:G:N2	5:DE:22:ASP:OD2	2.54	0.41
1:D1:1380:C:O2'	14:DO:38:VAL:HB	2.19	0.41
1:D1:1130:A:C2	1:D1:1390:A:O2'	2.65	0.41
1:D1:1497:U:H2'	1:D1:1498:U:C6	2.56	0.41
1:D1:1701:A:N6	12:DM:76:ARG:HH21	2.19	0.41
1:D1:181:U:O2'	1:D1:182:C:H5'	2.20	0.41
1:D1:2250:A:C1'	1:D1:2251:A:OP2	2.69	0.41
1:D1:2303:C:OP1	1:D1:2304:A:C2'	2.68	0.41
1:D1:2387:C:H5''	1:D1:2388:G:OP2	2.21	0.41
1:D1:2429:U:C4'	1:D1:2430:G:O5'	2.67	0.41
1:D1:2545:A:H2'	11:DL:47:ALA:HB3	2.02	0.41
1:D1:2680:A:H2'	1:D1:2681:A:O5'	2.21	0.41
1:D1:2913:C:H2'	1:D1:2914:A:C5'	2.48	0.41
1:D1:3095:A:H61	1:D1:3117:G:H1'	1.86	0.41
1:D1:33:A:H2'	1:D1:34:C:H6	1.85	0.41
1:D1:577:C:C2'	1:D1:578:G:H5'	2.51	0.41
1:D1:784:G:O2'	1:D1:796:A:N6	2.53	0.41
1:D1:881:G:C6	1:D1:882:G:C2	3.08	0.41
5:DE:185:ARG:HB3	5:DE:187:HIS:CE1	2.55	0.41
5:DE:78:GLY:O	5:DE:79:PRO:C	2.56	0.41
8:DH:15:TRP:CZ2	8:DH:105:ARG:NE	2.89	0.41
13:DN:24:VAL:C	13:DN:43:VAL:HG13	2.39	0.41
18:DU:131:ALA:H	18:DU:136:VAL:HB	1.85	0.41
20:E2:129:A:C4	20:E2:130:C:C6	3.08	0.41
23:EB:130:PHE:CE1	1:F1:3138:G:H5''	2.56	0.41
23:EB:41:PRO:HG2	23:EB:192:PHE:CD1	2.55	0.41
23:EB:245:ARG:NH2	1:F1:2336:A:OP2	2.54	0.41
23:EB:250:ILE:HA	23:EB:250:ILE:HD13	1.70	0.41
23:EB:375:ASP:CB	23:EB:380:ARG:O	2.66	0.41
24:EC:300:ASN:HA	24:EC:305:GLN:HE21	1.84	0.41
25:ED:19:ILE:CG2	25:ED:125:MET:CE	2.99	0.41
27:EF:143:LEU:HD23	27:EF:143:LEU:HA	1.82	0.41
29:EH:49:VAL:HA	29:EH:138:VAL:O	2.20	0.41
32:EK:57:LYS:HE3	1:F1:91:C:O2'	2.21	0.41
33:EL:12:ARG:HG2	1:F1:267:A:C4	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:140:LYS:HB2	1:F1:1107:A:H4'	2.01	0.41
34:EM:284:ALA:O	34:EM:288:LYS:HG2	2.20	0.41
37:EP:141:VAL:HG13	19:FX:36:PRO:HG2	2.01	0.41
38:EQ:66:THR:CG2	38:EQ:82:GLN:NE2	2.81	0.41
42:EU:97:THR:HB	42:EU:100:GLN:HG3	2.02	0.41
43:EV:157:ARG:HG3	43:EV:200:TRP:CD2	2.54	0.41
43:EV:74:VAL:HA	43:EV:75:PRO:HD2	1.84	0.41
44:EW:95:LEU:HD23	44:EW:95:LEU:HA	1.79	0.41
45:EX:47:ARG:NH1	1:F1:1187:C:N3	2.67	0.41
46:EY:47:VAL:HG11	46:EY:71:LEU:HD22	2.01	0.41
1:F1:1069:C:C4	1:F1:1070:U:C5	3.08	0.41
1:F1:1175:G:H2'	1:F1:1176:G:H5'	2.01	0.41
1:F1:1185:A:H3'	1:F1:1186:A:C5'	2.49	0.41
1:F1:1208:U:H5'	19:FX:178:ARG:CZ	2.48	0.41
1:F1:1373:G:C5	1:F1:1374:C:C5	3.08	0.41
1:F1:1383:G:O2'	1:F1:1384:G:OP2	2.37	0.41
1:F1:1547:G:C2	1:F1:1548:U:H5	2.38	0.41
1:F1:165:C:C5'	18:FU:132:LYS:HD2	2.49	0.41
1:F1:1847:A:C4	1:F1:1848:C:C5	3.07	0.41
1:F1:2146:G:C2'	1:F1:2147:C:H5'	2.50	0.41
1:F1:2256:G:C2'	1:F1:2257:A:C5'	2.97	0.41
1:F1:2296:U:O2'	1:F1:2297:G:H5'	2.21	0.41
1:F1:2647:G:P	50:F1:4486:HOH:O	2.78	0.41
1:F1:268:G:N2	1:F1:293:U:H2'	2.35	0.41
1:F1:2700:A:H2'	1:F1:2701:U:C6	2.56	0.41
1:F1:2762:U:O2	1:F1:2762:U:H2'	2.20	0.41
1:F1:2902:G:C6	1:F1:2903:U:N3	2.89	0.41
1:F1:331:C:C2'	1:F1:332:G:H5''	2.48	0.41
1:F1:621:G:O6	1:F1:622:G:N1	2.53	0.41
1:F1:710:G:C2'	1:F1:711:U:O5'	2.69	0.41
1:F1:882:G:HO2'	1:F1:883:A:P	2.43	0.41
1:F1:971:C:O2'	1:F1:972:U:C5'	2.67	0.41
4:FC:41:TYR:O	4:FC:45:GLN:HG3	2.21	0.41
1:F1:1175:G:OP2	8:FH:28:HIS:HD2	2.04	0.41
8:FH:36:LEU:HD22	8:FH:81:HIS:HD2	1.84	0.41
9:FJ:129:ILE:O	9:FJ:133:LEU:HB2	2.21	0.41
12:FM:15:LEU:HG	12:FM:17:PHE:CE2	2.56	0.41
12:FM:51:ASN:C	12:FM:53:GLY:H	2.24	0.41
12:FM:56:ILE:HG13	12:FM:69:SER:OG	2.20	0.41
12:FM:74:SER:OG	12:FM:76:ARG:HB2	2.20	0.41
1:D1:1046:G:H5''	13:FN:3:LYS:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FN:38:PHE:HE2	13:FN:76:ASN:HB2	1.85	0.41
1:F1:1379:G:O6	14:FO:101:LYS:HE2	2.21	0.41
14:FO:62:LEU:CD1	14:FO:97:ARG:HG2	2.48	0.41
15:FP:16:GLN:O	15:FP:17:ASN:C	2.59	0.41
16:FQ:68:LYS:HZ3	16:FQ:72:LYS:HE3	1.86	0.41
19:FX:96:GLN:CB	19:FX:134:THR:CG2	2.98	0.41
19:FX:161:LEU:HD12	19:FX:161:LEU:HA	1.42	0.41
20:G2:52:G:C6	20:G2:80:A:C2	3.09	0.41
20:G2:62:A:OP1	20:G2:99:U:O2'	2.19	0.41
20:G2:73:G:C2	20:G2:88:G:C2	3.09	0.41
21:G3:81:A:C3'	21:G3:82:G:C5'	2.99	0.41
21:G3:8:G:H2'	21:G3:9:C:O4'	2.20	0.41
23:GB:46:PHE:CE1	23:GB:84:MET:HG3	2.56	0.41
24:GC:37:ILE:O	24:GC:41:VAL:HG23	2.20	0.41
25:GD:104:PHE:CE1	25:GD:106:ILE:HD11	2.48	0.41
27:GF:220:GLU:O	27:GF:224:THR:N	2.53	0.41
27:GF:232:GLN:OE1	1:H1:2573:U:H1'	2.19	0.41
27:GF:56:GLN:HA	27:GF:56:GLN:OE1	2.19	0.41
29:GH:147:TYR:N	29:GH:147:TYR:CD1	2.87	0.41
30:GI:35:VAL:CG1	30:GI:106:GLY:O	2.66	0.41
30:GI:107:ILE:HD12	30:GI:159:ARG:NH2	2.35	0.41
30:GI:32:ILE:HG22	30:GI:33:VAL:N	2.35	0.41
31:GJ:139:SER:HB3	9:HJ:102:SER:N	2.30	0.41
31:GJ:35:ALA:HB1	31:GJ:66:VAL:CG1	2.50	0.41
33:GL:98:LEU:O	33:GL:101:CYS:HB2	2.20	0.41
33:GL:123:GLN:HB2	33:GL:128:LYS:HG2	2.02	0.41
46:GY:88:LYS:HG2	46:GY:89:LEU:N	2.35	0.41
1:H1:1239:G:O3'	19:HX:106:LYS:NZ	2.49	0.41
1:H1:1404:G:H2'	1:H1:1405:U:H6	1.86	0.41
1:H1:2558:U:C5	1:H1:2559:U:C4	3.08	0.41
1:H1:2564:G:O6	1:H1:2565:A:N6	2.54	0.41
25:GD:48:SER:CB	1:H1:2671:C:OP1	2.62	0.41
1:H1:3115:C:C2'	1:H1:3116:A:O5'	2.68	0.41
1:H1:3234:U:O4	8:HH:68:SER:HB2	2.21	0.41
1:H1:526:U:O2'	1:H1:527:A:O5'	2.38	0.41
1:H1:800:G:C4'	1:H1:801:U:OP2	2.62	0.41
1:H1:971:C:O2'	1:H1:972:U:C5'	2.67	0.41
1:H1:979:U:H4'	17:HT:8:THR:O	2.21	0.41
4:HC:25:GLN:HG2	4:HC:26:TYR:N	2.36	0.41
4:HC:9:LYS:HA	4:HC:19:THR:O	2.20	0.41
11:HL:104:LYS:O	11:HL:108:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:579:G:O2'	19:HX:158:ASN:CA	2.67	0.41
19:HX:39:LEU:HD23	19:HX:39:LEU:HA	1.82	0.41
1:A1:1060:C:H2'	1:A1:1061:G:O4'	2.20	0.41
1:A1:1175:G:H2'	1:A1:1176:G:C5'	2.50	0.41
1:A1:1185:A:H3'	1:A1:1186:A:C5'	2.51	0.41
1:A1:1395:U:H5'	45:BX:45:ARG:HE	1.84	0.41
1:A1:1394:G:O2'	1:A1:1395:U:O5'	2.33	0.41
1:A1:1547:G:C2	1:A1:1548:U:H5	2.39	0.41
1:A1:1865:A:H1'	3:AB:45:ARG:HH22	1.85	0.41
1:A1:208:C:O2'	1:A1:209:A:H5'	2.20	0.41
1:A1:2146:G:C2'	1:A1:2147:C:H5'	2.50	0.41
1:A1:2228:A:C8	1:A1:2229:G:N7	2.89	0.41
1:A1:2397:A:C6	24:BC:80:ARG:NH2	2.89	0.41
1:A1:2529:G:H2'	1:A1:2530:G:H8	1.86	0.41
1:A1:2620:U:O4	37:BP:3:HIS:NE2	2.40	0.41
1:A1:2824:C:H2'	1:A1:2825:A:O4'	2.20	0.41
1:A1:2902:G:C6	1:A1:2903:U:C4	3.08	0.41
1:A1:2994:G:C2'	1:A1:2995:A:OP2	2.69	0.41
1:A1:3237:C:N3	8:AH:7:SER:OG	2.52	0.41
1:A1:3146:G:C6	1:A1:3248:C:N4	2.88	0.41
1:A1:679:C:O2'	1:A1:680:A:H5'	2.20	0.41
1:A1:689:A:O2'	1:A1:690:U:H5'	2.20	0.41
1:A1:81:C:H2'	1:A1:82:C:C6	2.56	0.41
1:A1:920:A:C6	1:A1:922:U:C2	3.09	0.41
1:A1:350:A:N6	3:AB:35:ILE:HG23	2.34	0.41
10:AK:114:LYS:H	10:AK:114:LYS:HG3	1.70	0.41
1:A1:1618:A:H4'	11:AL:62:ALA:HB1	2.03	0.41
1:A1:1210:C:C2'	19:AX:13:THR:HG21	2.51	0.41
19:AX:52:LYS:O	19:AX:55:PHE:HB3	2.21	0.41
19:AX:7:GLN:HG2	19:AX:83:LEU:HD11	2.03	0.41
20:B2:130:C:H2'	20:B2:130:C:O2	2.20	0.41
20:B2:87:C:O2'	20:B2:88:G:H5'	2.20	0.41
21:B3:11:A:C2'	21:B3:12:U:H5''	2.51	0.41
21:B3:120:U:O2'	34:BM:265:LYS:NZ	2.42	0.41
22:BA:205:MET:O	22:BA:213:GLY:HA3	2.20	0.41
23:BB:86:ILE:CD1	23:BB:196:LEU:HD13	2.51	0.41
24:BC:65:MET:HE3	24:BC:105:ARG:NH1	2.34	0.41
1:A1:1462:U:C4	24:BC:78:VAL:O	2.74	0.41
26:BE:164:LEU:HD23	26:BE:164:LEU:HA	1.85	0.41
26:BE:46:GLN:OE1	26:BE:54:LYS:HB3	2.21	0.41
27:BF:127:TYR:C	27:BF:127:TYR:HD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:9:G:H1'	27:BF:50:TYR:CD2	2.56	0.41
27:BF:53:LEU:O	27:BF:54:GLN:C	2.58	0.41
1:A1:685:G:O6	32:BK:19:HIS:CD2	2.72	0.41
1:A1:279:U:O4'	33:BL:188:ARG:NH2	2.54	0.41
35:BN:82:VAL:HG21	35:BN:127:LEU:CD1	2.45	0.41
37:BP:8:ARG:C	37:BP:11:THR:HG1	2.22	0.41
39:BR:121:LEU:O	39:BR:128:LYS:HA	2.21	0.41
39:BR:90:MET:HB3	39:BR:90:MET:HE2	1.34	0.41
39:BR:97:ARG:HD2	39:BR:97:ARG:HA	1.92	0.41
18:AU:144:SER:CB	42:BU:123:LYS:NZ	2.64	0.41
20:C2:96:A:C6	2:DA:80:ARG:NH1	2.89	0.41
21:C3:98:G:OP2	19:DX:66:LYS:NZ	2.43	0.41
22:CA:20:HIS:ND1	1:D1:848:C:C5'	2.83	0.41
24:CC:240:ARG:HB2	1:D1:719:C:H1'	2.01	0.41
24:CC:300:ASN:HA	24:CC:305:GLN:HE21	1.85	0.41
25:CD:132:GLU:C	25:CD:154:ILE:HD11	2.41	0.41
27:CF:161:GLN:OE1	27:CF:164:ARG:NH1	2.53	0.41
28:CG:109:UNK:O	28:CG:112:UNK:HB2	2.21	0.41
29:CH:75:ASN:HB3	29:CH:151:ALA:HB2	2.03	0.41
31:CJ:46:ILE:HD13	31:CJ:54:PRO:HB3	1.99	0.41
32:CK:91:LYS:HZ3	1:D1:487:G:C5'	2.33	0.41
33:CL:26:ARG:C	33:CL:30:TYR:CD1	2.92	0.41
37:CP:105:LEU:HD23	37:CP:105:LEU:HA	1.83	0.41
41:CT:16:TYR:HB3	41:CT:17:PRO:HD2	2.02	0.41
43:CV:82:PHE:CD1	43:CV:112:ALA:O	2.73	0.41
43:CV:82:PHE:HB3	43:CV:231:ILE:HD13	2.03	0.41
1:D1:125:G:C6	1:D1:142:A:C6	3.08	0.41
1:D1:1344:A:O2'	1:D1:1345:A:H3'	2.21	0.41
1:D1:1411:U:N3	1:D1:1412:U:C5	2.88	0.41
1:D1:1519:G:C2	3:DB:13:PHE:CZ	3.08	0.41
1:D1:1595:A:H2'	1:D1:1596:U:O4'	2.21	0.41
1:D1:1597:U:C5	1:D1:1598:C:C4	3.09	0.41
1:D1:169:A:N7	1:D1:250:U:C4	2.89	0.41
1:D1:174:A:N1	1:D1:246:G:C4	2.89	0.41
1:D1:2247:A:C2	1:D1:2260:C:C2	3.09	0.41
1:D1:2636:A:H2'	1:D1:2637:G:O5'	2.20	0.41
1:D1:2934:A:H2'	1:D1:2970:A:N7	2.34	0.41
1:D1:3007:G:H2'	1:D1:3008:U:O5'	2.20	0.41
1:D1:3097:G:N1	1:D1:3116:A:C2	2.89	0.41
1:D1:3311:U:H3'	1:D1:3311:U:H6	1.86	0.41
1:D1:567:C:H2'	1:D1:568:A:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:585:A:N6	1:D1:586:A:C6	2.89	0.41
1:D1:591:G:H8	1:D1:591:G:C5'	2.33	0.41
1:D1:729:A:C4'	1:D1:810:G:H21	2.33	0.41
1:D1:807:G:H2'	1:D1:808:A:O4'	2.20	0.41
22:CA:16:VAL:HG21	1:D1:936:C:H5''	1.98	0.41
1:D1:1876:G:N3	2:DA:9:GLY:HA3	2.35	0.41
5:DE:66:LEU:HD11	5:DE:77:THR:OG1	2.20	0.41
6:DF:44:VAL:HG12	6:DF:45:ARG:N	2.35	0.41
8:DH:12:THR:HG22	8:DH:14:LEU:HG	2.01	0.41
8:DH:56:VAL:HG22	8:DH:106:VAL:HG22	2.02	0.41
9:DJ:101:LEU:HD11	9:DJ:118:HIS:CD2	2.56	0.41
9:DJ:25:LEU:HD11	9:DJ:70:LEU:HD21	2.03	0.41
11:DL:87:VAL:O	11:DL:90:ARG:HB2	2.21	0.41
13:DN:54:THR:HG22	13:DN:55:LYS:N	2.35	0.41
14:DO:52:GLY:CA	14:DO:118:ASN:HD21	2.27	0.41
15:DP:16:GLN:O	15:DP:17:ASN:C	2.58	0.41
19:DX:113:LEU:HD12	19:DX:116:ALA:HB3	2.01	0.41
23:EB:56:ILE:HG21	23:EB:354:LEU:CD2	2.48	0.41
24:EC:37:ILE:O	24:EC:41:VAL:HG23	2.20	0.41
24:EC:80:ARG:HH11	1:F1:830:G:H1'	1.86	0.41
26:EE:113:LYS:CD	26:EE:114:HIS:HB2	2.50	0.41
26:EE:141:THR:CG2	26:EE:142:LEU:N	2.83	0.41
26:EE:4:LEU:HA	26:EE:4:LEU:HD12	1.67	0.41
29:EH:190:LEU:HD22	29:EH:197:VAL:CG1	2.50	0.41
29:EH:51:HIS:HB3	29:EH:134:ILE:HG23	2.03	0.41
34:EM:135:ASP:O	34:EM:137:LYS:HG3	2.21	0.41
21:E3:10:C:C6	34:EM:20:TYR:CE1	3.08	0.41
35:EN:36:PHE:CE1	35:EN:40:ARG:HD2	2.56	0.41
35:EN:91:GLU:HG3	35:EN:91:GLU:H	1.39	0.41
40:ES:73:TYR:HD1	40:ES:76:LYS:H	1.67	0.41
46:EY:8:VAL:O	46:EY:11:THR:HB	2.20	0.41
43:EV:123:MET:CG	1:F1:1012:U:H1'	2.50	0.41
1:F1:1176:G:H5'	1:F1:1176:G:H8	1.85	0.41
43:EV:206:THR:HG21	1:F1:1195:U:H1'	1.99	0.41
1:F1:1200:C:H1'	1:F1:1206:A:C4	2.56	0.41
1:F1:1255:A:C2	1:F1:1309:G:C4	3.08	0.41
1:F1:1580:G:O2'	1:F1:1581:C:H5''	2.20	0.41
1:F1:169:A:C6	1:F1:251:A:C6	3.09	0.41
1:F1:1746:U:C4	1:F1:1747:A:N7	2.89	0.41
1:F1:1880:C:C1'	11:FL:7:TYR:HE1	2.34	0.41
1:F1:1921:G:H2'	1:F1:1922:G:C5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:2165:A:C2	1:F1:2166:G:C8	3.08	0.41
22:EA:236:VAL:HG12	1:F1:2179:U:OP1	2.21	0.41
1:F1:2312:A:C2'	1:F1:2313:U:O5'	2.69	0.41
1:F1:2323:U:H2'	1:F1:2324:A:H5''	2.02	0.41
1:F1:2353:C:H5''	1:F1:2354:C:OP2	2.21	0.41
1:F1:2423:U:H2'	1:F1:2424:A:C8	2.55	0.41
1:F1:2558:U:C5	1:F1:2559:U:C4	3.09	0.41
1:F1:2569:A:O2'	1:F1:2570:U:OP2	2.38	0.41
1:F1:2604:U:H2'	1:F1:2605:C:C6	2.55	0.41
1:F1:2761:U:O2	18:FU:190:TRP:CZ2	2.73	0.41
1:F1:2793:G:C5	1:F1:2794:U:C5	3.09	0.41
1:F1:2820:C:C2'	1:F1:2821:A:O5'	2.68	0.41
1:F1:2829:G:H5''	1:F1:2830:U:H5'	2.03	0.41
1:F1:2920:U:H1'	1:F1:2923:U:C4	2.55	0.41
26:EE:69:GLN:HB3	1:F1:3102:A:H4'	2.03	0.41
1:F1:3108:U:H2'	1:F1:3109:C:C5'	2.49	0.41
1:F1:564:A:C6	1:F1:567:C:H4'	2.56	0.41
1:F1:66:C:H2'	1:F1:67:U:O4'	2.21	0.41
1:F1:685:G:H2'	1:F1:686:U:OP2	2.21	0.41
1:F1:685:G:OP1	1:F1:685:G:C4'	2.69	0.41
1:F1:774:A:C5	1:F1:775:C:C5	3.08	0.41
1:F1:806:G:H2'	1:F1:807:G:H5'	2.03	0.41
1:F1:81:C:H2'	1:F1:82:C:C6	2.55	0.41
2:FA:14:LYS:NZ	3:FB:52:TYR:CE1	2.81	0.41
2:FA:58:LYS:HA	2:FA:62:THR:HG21	2.02	0.41
5:FE:179:THR:HA	8:FH:12:THR:HG23	2.02	0.41
5:FE:185:ARG:HD2	5:FE:188:GLU:OE2	2.20	0.41
6:FF:98:THR:O	6:FF:101:ALA:HB3	2.20	0.41
1:F1:3155:A:H62	8:FH:101:GLY:H	1.68	0.41
8:FH:45:LYS:HG2	8:FH:45:LYS:H	1.66	0.41
12:FM:13:VAL:CG1	12:FM:14:ASN:N	2.83	0.41
13:FN:118:PHE:CE2	13:FN:138:PHE:HE2	2.38	0.41
19:FX:188:THR:C	19:FX:189:PHE:CG	2.90	0.41
20:G2:95:C:O2'	20:G2:96:A:H8	2.03	0.41
21:G3:43:A:OP1	25:GD:137:ARG:CD	2.61	0.41
21:G3:4:G:C2'	21:G3:5:U:H5'	2.51	0.41
23:GB:32:PHE:CD2	23:GB:44:THR:HG21	2.55	0.41
24:GC:254:ARG:HG2	24:GC:255:PHE:N	2.36	0.41
25:GD:138:VAL:HG13	25:GD:141:ARG:NH2	2.35	0.41
21:G3:42:A:N9	25:GD:72:ARG:NH1	2.69	0.41
26:GE:141:THR:CG2	26:GE:142:LEU:N	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:GI:36:ARG:HG3	30:GI:107:ILE:HD11	2.03	0.41
31:GJ:117:GLN:HG2	9:HJ:146:VAL:CG2	2.51	0.41
31:GJ:87:ARG:HD2	31:GJ:88:PRO:CD	2.48	0.41
32:GK:15:VAL:HG21	32:GK:21:ARG:HH21	1.86	0.41
33:GL:188:ARG:HH21	1:H1:279:U:C5'	2.33	0.41
33:GL:11:TRP:HH2	33:GL:26:ARG:NH1	2.18	0.41
21:G3:116:A:C4'	34:GM:260:ARG:NH2	2.83	0.41
38:GQ:49:TYR:HD1	38:GQ:58:ARG:NH1	2.18	0.41
39:GR:121:LEU:HD11	1:H1:1548:U:H3'	2.01	0.41
41:GT:33:PHE:HZ	41:GT:42:SER:HG	1.64	0.41
42:GU:61:ILE:HD13	42:GU:61:ILE:HA	1.88	0.41
44:GW:22:ILE:HD13	44:GW:30:ARG:CG	2.34	0.41
44:GW:32:ILE:HD13	1:H1:1485:C:H5'	2.01	0.41
1:H1:1026:C:H5'	1:H1:1027:G:H5'	2.02	0.41
1:H1:1045:G:C4	1:H1:1046:G:C8	3.08	0.41
1:H1:1058:C:C2	1:H1:1059:U:C6	3.08	0.41
1:H1:1070:U:C2'	1:H1:1071:C:O5'	2.69	0.41
1:H1:1186:A:O2'	1:H1:1187:C:P	2.77	0.41
1:H1:1223:U:O2	1:H1:1223:U:C2'	2.57	0.41
1:H1:122:U:H4'	1:H1:150:A:C1'	2.51	0.41
1:H1:1140:G:H4'	1:H1:1397:G:H5'	2.02	0.41
1:H1:147:U:C4'	1:H1:148:G:OP2	2.65	0.41
1:H1:165:C:H5''	18:HU:132:LYS:CE	2.50	0.41
1:H1:168:G:H2'	1:H1:169:A:OP2	2.21	0.41
1:H1:1720:A:O2'	11:HL:33:GLN:NE2	2.49	0.41
46:GY:12:ARG:NH1	1:H1:1951:G:O2'	2.50	0.41
1:H1:2189:G:H1'	1:H1:2269:U:C2	2.56	0.41
1:H1:2307:A:H5''	50:H1:4239:HOH:O	2.20	0.41
1:H1:2435:A:C2	1:H1:2503:U:C2	3.08	0.41
1:H1:2630:U:H5''	1:H1:2631:A:OP1	2.20	0.41
1:H1:2644:U:O2'	4:HC:5:PRO:HG3	2.21	0.41
1:H1:2733:C:H2'	1:H1:2734:G:C8	2.56	0.41
1:H1:3102:A:N1	1:H1:3103:A:C2	2.88	0.41
1:H1:3156:A:H4'	1:H1:3159:A:C5	2.56	0.41
1:H1:3198:A:C6	1:H1:3199:G:C5	3.08	0.41
1:H1:3228:U:H5''	1:H1:3229:C:C5'	2.49	0.41
1:H1:3230:G:HO2'	1:H1:3231:U:P	2.39	0.41
1:H1:3308:A:H2'	1:H1:3309:U:C6	2.56	0.41
1:H1:371:A:C6	1:H1:372:A:C6	3.08	0.41
1:H1:40:C:HO2'	1:H1:41:A:P	2.42	0.41
1:H1:434:A:C4'	1:H1:435:A:OP1	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:452:U:H6	1:H1:452:U:O5'	2.03	0.41
32:GK:17:HIS:CE1	1:H1:685:G:H5''	2.55	0.41
1:H1:838:G:C4	1:H1:839:U:C5	3.09	0.41
2:HA:8:PHE:CD1	2:HA:8:PHE:N	2.86	0.41
5:HE:45:ILE:O	5:HE:45:ILE:HG23	2.19	0.41
5:HE:90:VAL:HG13	5:HE:91:ASN:N	2.35	0.41
30:GI:193:LEU:HD21	6:HF:114:LEU:HB3	2.03	0.41
12:HM:96:TYR:HD1	12:HM:110:PHE:HD1	1.68	0.41
7:HG:62:LEU:HD23	13:HN:4:PHE:CD2	2.56	0.41
13:HN:10:VAL:CG1	13:HN:85:TYR:HB2	2.51	0.41
14:HO:52:GLY:CA	14:HO:118:ASN:HD21	2.27	0.41
1:H1:2631:A:C5'	17:HT:7:SER:HB3	2.50	0.41
18:HU:74:THR:CB	18:HU:101:ASN:HD21	2.33	0.41
18:HU:123:LEU:HD23	18:HU:136:VAL:HG23	2.03	0.41
1:A1:1141:U:C4	1:A1:1142:G:N2	2.88	0.41
1:A1:1414:C:N3	1:A1:1415:C:C5	2.88	0.41
1:A1:1617:G:H4'	1:A1:1618:A:OP1	2.19	0.41
1:A1:1660:U:O2'	13:AN:79:HIS:CD2	2.72	0.41
1:A1:1926:G:C6	1:A1:1927:U:C2	3.08	0.41
1:A1:2596:G:C6	1:A1:2597:G:C5	3.09	0.41
1:A1:2771:U:C5	1:A1:2772:U:C5	3.08	0.41
1:A1:3007:G:H2'	1:A1:3008:U:O5'	2.20	0.41
1:A1:3011:G:C1'	1:A1:3012:U:OP2	2.67	0.41
1:A1:3305:A:O5'	1:A1:3305:A:H8	2.04	0.41
1:A1:3308:A:H2'	1:A1:3309:U:C6	2.56	0.41
1:A1:340:G:C5'	1:A1:343:A:H1'	2.51	0.41
1:A1:583:G:N3	1:A1:585:A:OP2	2.54	0.41
1:A1:615:G:N2	8:AH:79:LYS:NZ	2.68	0.41
1:A1:790:C:HO2'	1:A1:791:C:H5	1.58	0.41
1:A1:861:A:N6	1:A1:882:G:H1'	2.35	0.41
7:AG:64:GLN:HA	7:AG:64:GLN:OE1	2.21	0.41
12:AM:74:SER:OG	12:AM:76:ARG:HB2	2.21	0.41
13:AN:23:ALA:HB1	13:AN:43:VAL:CG1	2.44	0.41
1:A1:1771:U:HO2'	15:AP:54:LYS:HZ3	1.56	0.41
18:AU:123:LEU:O	18:AU:125:PRO:HD3	2.21	0.41
18:AU:154:VAL:N	18:AU:155:PRO:CD	2.84	0.41
19:AX:96:GLN:CB	19:AX:134:THR:HG21	2.50	0.41
19:AX:55:PHE:CZ	19:AX:59:MET:CE	3.03	0.41
20:B2:103:U:C4	20:B2:104:G:C6	3.08	0.41
21:B3:28:C:H5''	25:BD:137:ARG:HG2	2.03	0.41
23:BB:196:LEU:O	23:BB:199:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:46:PHE:HD1	23:BB:206:ILE:HD12	1.82	0.41
23:BB:76:VAL:HG22	23:BB:322:ILE:O	2.21	0.41
24:BC:254:ARG:HG2	24:BC:255:PHE:N	2.36	0.41
24:BC:300:ASN:HA	24:BC:305:GLN:HE21	1.86	0.41
1:A1:634:G:C6	24:BC:319:ARG:NH2	2.89	0.41
21:B3:90:A:C2	29:BH:162:ARG:NH2	2.86	0.41
21:B3:63:A:C2	29:BH:202:GLU:CB	3.02	0.41
30:BI:35:VAL:CG1	30:BI:106:GLY:O	2.69	0.41
6:AF:111:VAL:CG2	30:BI:196:PHE:CE1	3.01	0.41
32:BK:77:ILE:HA	32:BK:80:LEU:HD12	2.03	0.41
34:BM:135:ASP:O	34:BM:137:LYS:HG3	2.21	0.41
21:B3:15:U:H1'	34:BM:13:PHE:CE2	2.55	0.41
35:BN:167:VAL:HG13	35:BN:169:SER:O	2.20	0.41
35:BN:18:ARG:HH12	35:BN:56:SER:HA	1.86	0.41
38:BQ:45:ASN:HA	38:BQ:45:ASN:HD22	1.71	0.41
40:BS:73:TYR:HD1	40:BS:76:LYS:HB2	1.81	0.41
40:BS:98:LEU:HA	40:BS:98:LEU:HD23	1.70	0.41
41:BT:16:TYR:HB3	41:BT:17:PRO:HD2	2.03	0.41
43:BV:74:VAL:HA	43:BV:75:PRO:HD2	1.86	0.41
45:BX:36:ARG:HA	45:BX:37:PRO:HD2	1.80	0.41
14:AO:110:LYS:HB2	45:BX:89:MET:HE3	2.03	0.41
46:BY:10:ILE:O	46:BY:13:LYS:HG2	2.20	0.41
20:C2:60:C:C5	2:DA:64:ARG:NH1	2.88	0.41
21:C3:33:U:N3	34:CM:212:TYR:CD1	2.89	0.41
21:C3:88:G:C6	21:C3:89:G:C4	3.09	0.41
23:CB:230:ARG:HG2	23:CB:231:PHE:CE1	2.56	0.41
23:CB:56:ILE:CG2	23:CB:57:LEU:N	2.82	0.41
24:CC:25:LEU:HA	24:CC:26:PRO:HD2	1.85	0.41
24:CC:2:THR:CG2	24:CC:30:THR:HG23	2.51	0.41
26:CE:26:GLU:HG2	26:CE:35:LYS:HB3	2.01	0.41
27:CF:92:TYR:CE2	27:CF:123:ILE:HG21	2.50	0.41
27:CF:155:LEU:HD13	1:D1:147:U:C1'	2.49	0.41
27:CF:19:ASN:CB	27:CF:20:PRO:CD	2.93	0.41
27:CF:45:VAL:HB	27:CF:47:TRP:CZ2	2.56	0.41
27:CF:82:SER:HB2	27:CF:86:PHE:CE2	2.56	0.41
29:CH:34:TYR:HD2	29:CH:89:CYS:HB3	1.85	0.41
32:CK:110:PHE:HD2	32:CK:128:LYS:HD2	1.84	0.41
34:CM:136:GLN:CB	34:CM:141:PRO:HD3	2.51	0.41
34:CM:76:CYS:O	34:CM:105:LEU:HD11	2.20	0.41
38:CQ:29:LYS:HG2	38:CQ:29:LYS:H	1.42	0.41
44:CW:4:GLN:CG	44:CW:76:LYS:HZ3	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CF:127:TYR:CZ	1:D1:117:G:N2	2.89	0.41
1:D1:1398:G:H2'	1:D1:1399:A:O5'	2.21	0.41
1:D1:1608:G:C2'	1:D1:1609:U:O5'	2.68	0.41
1:D1:1618:A:H4'	11:DL:62:ALA:HB1	2.02	0.41
1:D1:1643:G:H5'	1:D1:1643:G:H8	1.86	0.41
1:D1:2187:C:HO2'	1:D1:2188:U:H5'	1.85	0.41
1:D1:220:C:C4'	1:D1:221:A:OP2	2.57	0.41
42:CU:98:LYS:NZ	1:D1:242:G:OP1	2.51	0.41
1:D1:2559:U:O2	1:D1:2561:A:N1	2.54	0.41
1:D1:1926:G:OP2	1:D1:2907:A:OP1	2.38	0.41
1:D1:2987:A:H2'	1:D1:2988:U:O4'	2.21	0.41
1:D1:2989:G:C8	50:D1:5017:HOH:O	2.73	0.41
1:D1:3020:G:C2'	1:D1:3021:A:H5''	2.50	0.41
1:D1:3175:A:C2	1:D1:3177:G:C5	3.08	0.41
1:D1:687:C:N3	1:D1:688:U:C5	2.89	0.41
1:D1:792:G:C2	1:D1:793:A:C4	3.08	0.41
1:D1:824:G:H2'	1:D1:825:G:OP1	2.20	0.41
1:D1:969:C:H2'	1:D1:970:C:H6	1.85	0.41
4:DC:10:THR:HG23	4:DC:11:TYR:N	2.35	0.41
5:DE:7:GLY:C	5:DE:9:ASN:N	2.74	0.41
7:DG:62:LEU:HD23	13:DN:4:PHE:CE2	2.55	0.41
9:DJ:39:GLU:O	9:DJ:43:VAL:HB	2.20	0.41
9:DJ:97:ILE:HD12	9:DJ:104:LEU:HD13	2.01	0.41
1:D1:1507:A:C2	11:DL:2:ALA:HB3	2.55	0.41
1:D1:155:A:H1'	16:DQ:27:ALA:HB3	2.02	0.41
21:E3:11:A:H8	34:EM:18:THR:HG21	1.85	0.41
27:EF:37:PRO:HG2	27:EF:39:ARG:HE	1.86	0.41
28:EG:11:UNK:O	28:EG:15:UNK:CG	2.64	0.41
28:EG:57:UNK:HG3	28:EG:58:UNK:N	2.35	0.41
30:EI:26:LEU:CD2	30:EI:100:ARG:HB2	2.50	0.41
32:EK:76:ASN:OD1	32:EK:115:LYS:HB2	2.20	0.41
32:EK:131:SER:O	32:EK:132:LYS:C	2.58	0.41
21:E3:7:G:H4'	34:EM:33:ARG:NH2	2.35	0.41
24:EC:287:ARG:CD	35:EN:111:ARG:HH12	2.30	0.41
35:EN:45:PHE:CE1	35:EN:139:LEU:HB2	2.48	0.41
36:EO:55:THR:HG22	36:EO:56:VAL:N	2.36	0.41
37:EP:141:VAL:O	43:EV:71:ALA:HB1	2.21	0.41
40:ES:33:HIS:O	40:ES:104:VAL:HA	2.21	0.41
40:ES:55:VAL:HG22	40:ES:105:LEU:CD2	2.44	0.41
23:EB:377:PHE:CZ	41:ET:13:TYR:HE1	2.38	0.41
42:EU:122:LEU:HD12	18:FU:48:PRO:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EU:122:LEU:HD21	18:FU:117:TYR:CE1	2.56	0.41
1:F1:1074:A:OP1	1:F1:1075:C:H5'	2.21	0.41
1:F1:1107:A:C5	1:F1:1108:A:C5	3.09	0.41
1:F1:1117:U:H2'	1:F1:1117:U:O2	2.21	0.41
1:F1:1173:A:H4'	1:F1:1358:U:C4	2.56	0.41
1:F1:1594:C:N4	1:F1:1595:A:N7	2.68	0.41
9:DJ:167:VAL:HG21	1:F1:2108:A:H61	1.85	0.41
1:F1:2303:C:OP1	1:F1:2304:A:C2'	2.68	0.41
1:F1:2392:A:H8	1:F1:2929:A:N1	2.17	0.41
1:F1:3106:C:C3'	1:F1:3107:C:C5'	2.98	0.41
1:F1:3111:A:H2'	1:F1:3112:A:H5''	2.03	0.41
1:F1:3140:C:H4'	1:F1:3254:A:C1'	2.50	0.41
24:EC:89:THR:HG21	1:F1:363:G:O2'	2.21	0.41
1:F1:406:A:C8	1:F1:407:C:C5	3.08	0.41
1:F1:792:G:H2'	1:F1:793:A:H8	1.86	0.41
1:F1:801:U:H5'	17:FT:37:PRO:CB	2.50	0.41
1:F1:997:G:H4'	1:F1:1399:A:H4'	2.02	0.41
1:F1:2134:A:O2'	2:FA:2:THR:HA	2.21	0.41
2:FA:2:THR:HG22	2:FA:4:GLY:H	1.86	0.41
5:FE:125:ASN:OD1	5:FE:125:ASN:C	2.59	0.41
5:FE:7:GLY:C	5:FE:9:ASN:N	2.74	0.41
8:FH:37:LEU:CD1	8:FH:89:ALA:HB2	2.51	0.41
9:FJ:161:VAL:C	9:FJ:193:ILE:HD12	2.41	0.41
9:FJ:23:TYR:HA	9:FJ:46:ILE:HG21	1.99	0.41
12:FM:42:LYS:HD3	12:FM:42:LYS:HA	1.85	0.41
13:FN:10:VAL:CG1	13:FN:85:TYR:HB2	2.51	0.41
18:FU:183:GLN:O	18:FU:187:ASN:ND2	2.53	0.41
19:FX:143:LEU:CD1	19:FX:148:ILE:HG22	2.50	0.41
6:FF:3:PHE:CE1	19:FX:164:PRO:HB3	2.56	0.41
22:GA:114:VAL:HG11	22:GA:165:ALA:CB	2.35	0.41
23:GB:281:TYR:HB3	23:GB:321:MET:HE3	2.03	0.41
24:GC:172:ALA:O	24:GC:175:PHE:HB3	2.20	0.41
27:GF:27:ARG:HB3	27:GF:29:PHE:CE1	2.56	0.41
28:GG:28:UNK:N	28:GG:112:UNK:O	2.53	0.41
30:GI:139:ASP:O	30:GI:142:ALA:HB3	2.21	0.41
30:GI:140:LEU:HD12	30:GI:140:LEU:HA	1.84	0.41
33:GL:129:PHE:CD1	33:GL:129:PHE:N	2.88	0.41
34:GM:54:ARG:CZ	34:GM:149:GLY:HA3	2.50	0.41
39:GR:143:LEU:HG	39:GR:147:ILE:CD1	2.50	0.41
39:GR:75:LEU:HD12	39:GR:91:VAL:CG1	2.51	0.41
41:GT:11:CYS:HA	41:GT:54:THR:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:GV:108:LEU:O	43:GV:109:HIS:HB2	2.20	0.41
43:GV:157:ARG:HG3	43:GV:200:TRP:CD2	2.56	0.41
43:GV:227:ARG:HB3	43:GV:230:TYR:HB2	2.03	0.41
45:GX:71:ASN:OD1	45:GX:71:ASN:C	2.58	0.41
34:GM:140:LYS:NZ	1:H1:1108:A:P	2.94	0.41
1:H1:1171:U:H6	1:H1:1171:U:H2'	1.69	0.41
1:H1:1215:U:C2	1:H1:1344:A:N6	2.88	0.41
1:H1:1217:A:C4	1:H1:1220:A:H1'	2.56	0.41
1:H1:1241:U:H2'	1:H1:1242:U:H6	1.85	0.41
1:H1:1344:A:O2'	1:H1:1345:A:H3'	2.20	0.41
1:H1:1396:A:H2'	1:H1:1397:G:O4'	2.21	0.41
1:H1:1775:A:C8	1:H1:1777:A:C8	3.09	0.41
1:H1:1839:A:O2'	1:H1:1840:U:C6	2.73	0.41
1:H1:2248:G:H2'	1:H1:2249:U:O4'	2.20	0.41
1:H1:2508:U:H2'	1:H1:2581:G:N1	2.33	0.41
1:H1:2887:C:O2'	1:H1:2889:G:OP2	2.35	0.41
1:H1:3151:G:H2'	1:H1:3152:A:C8	2.55	0.41
1:H1:3344:U:H2'	1:H1:3344:U:O2	2.19	0.41
1:H1:578:G:O2'	1:H1:579:G:H5''	2.20	0.41
1:H1:583:G:C4	1:H1:585:A:OP2	2.73	0.41
1:H1:632:G:C6	1:H1:633:C:C4	3.09	0.41
1:H1:643:A:O2'	1:H1:644:A:P	2.75	0.41
1:H1:726:G:O2'	1:H1:727:C:H5'	2.21	0.41
1:H1:765:A:C6	1:H1:766:G:C2	3.08	0.41
1:H1:821:U:C5'	1:H1:821:U:H6	2.30	0.41
1:H1:949:G:N7	1:H1:2797:C:H1'	2.36	0.41
1:H1:969:C:H2'	1:H1:970:C:H6	1.84	0.41
9:HJ:5:CYS:SG	9:HJ:13:ILE:CD1	3.07	0.41
13:HN:26:VAL:HG22	13:HN:93:PHE:HB3	2.01	0.41
15:HP:12:MET:O	15:HP:16:GLN:CG	2.66	0.41
1:H1:249:G:O6	18:HU:126:ARG:NH1	2.53	0.41
32:GK:46:LEU:CD1	18:HU:1:MET:HG2	2.48	0.41
1:A1:1107:A:C6	1:A1:1108:A:C5	3.09	0.41
1:A1:1598:C:C5	1:A1:1599:G:C8	3.07	0.41
1:A1:1635:U:H2'	1:A1:1636:C:C6	2.56	0.41
1:A1:1868:C:O2	2:AA:9:GLY:HA2	2.21	0.41
1:A1:1865:A:C6	1:A1:1872:U:N3	2.89	0.41
1:A1:1507:A:O2'	1:A1:1882:A:N3	2.49	0.41
1:A1:210:A:H4'	1:A1:211:A:OP2	2.21	0.41
1:A1:2189:G:C2'	1:A1:2190:C:H5'	2.51	0.41
1:A1:2245:G:H2'	1:A1:2246:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:2292:U:C2	1:A1:2294:A:C6	3.09	0.41
1:A1:2429:U:C4'	1:A1:2430:G:O5'	2.69	0.41
1:A1:2576:C:C3'	1:A1:2577:G:H5'	2.51	0.41
1:A1:3073:U:H2'	1:A1:3074:G:H5'	2.02	0.41
1:A1:3129:G:O5'	1:A1:3129:G:H8	2.04	0.41
1:A1:3137:U:O2'	1:A1:3138:G:H5'	2.21	0.41
1:A1:3144:G:C2	1:A1:3249:U:O2	2.73	0.41
1:A1:3223:G:C2'	1:A1:3224:C:O5'	2.69	0.41
1:A1:3268:C:N4	1:A1:3269:G:C6	2.88	0.41
1:A1:33:A:H2'	1:A1:34:C:H6	1.86	0.41
1:A1:39:G:C2'	1:A1:40:C:H5'	2.51	0.41
1:A1:581:C:H2'	1:A1:582:A:C4'	2.49	0.41
1:A1:680:A:N6	1:A1:681:A:N6	2.68	0.41
1:A1:800:G:C4'	1:A1:801:U:OP2	2.63	0.41
3:AB:23:LEU:HD22	3:AB:35:ILE:HG22	2.02	0.41
7:AG:11:GLN:CG	7:AG:12:SER:N	2.83	0.41
1:A1:655:A:H1'	8:AH:97:PRO:HG2	2.03	0.41
11:AL:21:ARG:HG2	11:AL:22:LYS:N	2.34	0.41
12:AM:52:LEU:HA	12:AM:52:LEU:HD23	1.85	0.41
13:AN:33:THR:HB	13:AN:35:ASP:N	2.35	0.41
15:AP:47:LYS:HA	15:AP:47:LYS:HD3	1.64	0.41
16:AQ:78:ARG:HG3	16:AQ:84:HIS:HA	2.03	0.41
17:AT:18:ARG:HH11	17:AT:18:ARG:HD3	1.69	0.41
1:A1:1350:G:H4'	19:AX:16:MET:SD	2.60	0.41
19:AX:16:MET:CG	19:AX:17:LYS:N	2.83	0.41
20:B2:93:A:H2'	20:B2:94:U:H6	1.85	0.41
22:BA:81:GLU:OE1	46:BY:73:THR:OG1	2.34	0.41
23:BB:86:ILE:CG1	23:BB:158:VAL:HG11	2.51	0.41
23:BB:27:GLY:HA2	23:BB:272:HIS:CE1	2.50	0.41
28:BG:94:UNK:O	28:BG:98:UNK:HG2	2.20	0.41
30:BI:27:LEU:HD23	30:BI:27:LEU:HA	1.78	0.41
34:BM:164:LYS:HA	34:BM:167:CYS:SG	2.61	0.41
35:BN:63:LEU:HA	35:BN:63:LEU:HD12	1.63	0.41
35:BN:68:ILE:HG13	35:BN:68:ILE:H	1.57	0.41
1:A1:905:G:H5''	38:BQ:134:ALA:HB2	1.94	0.41
40:BS:80:HIS:ND1	40:BS:95:GLN:CB	2.78	0.41
41:BT:11:CYS:HA	41:BT:54:THR:HG23	2.03	0.41
20:C2:45:G:H2'	20:C2:46:A:H5'	2.03	0.41
20:C2:52:G:C6	20:C2:80:A:C2	3.09	0.41
23:CB:230:ARG:HG2	23:CB:231:PHE:CZ	2.56	0.41
24:CC:126:ARG:CB	24:CC:283:TYR:CE2	3.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CE:141:THR:CG2	26:CE:142:LEU:N	2.84	0.41
28:CG:109:UNK:CG	28:CG:111:UNK:HG3	2.48	0.41
29:CH:91:VAL:CG1	29:CH:127:ALA:HB1	2.51	0.41
29:CH:9:TYR:CG	29:CH:97:LEU:HD13	2.56	0.41
30:CI:21:TYR:CE2	30:CI:121:ASP:HB3	2.55	0.41
31:CJ:122:VAL:O	31:CJ:140:VAL:HA	2.19	0.41
31:CJ:9:GLY:HA3	31:CJ:110:LYS:O	2.21	0.41
32:CK:39:GLY:HA3	32:CK:55:TYR:OH	2.20	0.41
33:CL:160:GLU:HG2	33:CL:161:LEU:HG	2.02	0.41
33:CL:180:ARG:HH22	1:D1:301:A:H5'	1.86	0.41
33:CL:192:TRP:CE2	33:CL:196:GLN:HG3	2.56	0.41
21:C3:119:C:C2'	34:CM:270:PRO:HG2	2.47	0.41
47:CO:6:LEU:HD11	47:CO:10:LEU:HD11	2.01	0.41
1:D1:1038:G:H2'	1:D1:1039:G:H8	1.84	0.41
1:D1:1141:U:C4	1:D1:1142:G:N2	2.88	0.41
1:D1:1160:A:H2'	1:D1:1161:G:H5''	2.03	0.41
1:D1:1414:C:C4	1:D1:1415:C:C5	3.08	0.41
1:D1:1620:U:C2	1:D1:1621:G:C8	3.08	0.41
1:D1:1969:G:H2'	1:D1:1970:A:H8	1.86	0.41
1:D1:2221:U:H2'	1:D1:2222:C:H6	1.86	0.41
1:D1:2296:U:O2'	1:D1:2297:G:H5'	2.21	0.41
1:D1:2593:G:N1	50:D1:3707:HOH:O	2.52	0.41
25:CD:20:ASN:ND2	1:D1:2671:C:O4'	2.52	0.41
26:CE:97:PHE:CE2	1:D1:3013:A:H4'	2.56	0.41
1:D1:3137:U:O2'	1:D1:3138:G:H5'	2.21	0.41
1:D1:3223:G:C2'	1:D1:3224:C:O5'	2.69	0.41
32:CK:19:HIS:HD2	1:D1:685:G:O6	2.03	0.41
1:D1:726:G:O2'	1:D1:727:C:H5'	2.21	0.41
1:D1:805:A:C5'	1:D1:806:G:OP2	2.69	0.41
4:DC:11:TYR:CE1	4:DC:13:LYS:HA	2.56	0.41
5:DE:135:THR:O	5:DE:139:LYS:HG3	2.19	0.41
5:DE:56:GLY:N	5:DE:59:ARG:HB3	2.36	0.41
6:DF:30:ILE:HD13	19:DX:163:PHE:CE2	2.55	0.41
6:DF:3:PHE:CE1	19:DX:164:PRO:CB	3.04	0.41
6:DF:67:GLN:HE22	6:DF:75:LYS:HG3	1.86	0.41
6:DF:80:ASP:O	6:DF:81:LEU:C	2.56	0.41
5:DE:187:HIS:CD2	8:DH:47:ASP:HB3	2.55	0.41
8:DH:57:VAL:HG22	8:DH:74:TRP:CH2	2.56	0.41
9:DJ:101:LEU:CD1	9:DJ:118:HIS:CD2	3.03	0.41
9:DJ:42:LEU:HD21	9:DJ:205:PHE:HE1	1.85	0.41
13:DN:77:LEU:H	13:DN:77:LEU:HG	1.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CK:46:LEU:CD1	18:DU:1:MET:HG2	2.51	0.41
22:EA:206:ASN:H	22:EA:206:ASN:ND2	2.18	0.41
23:EB:110:ILE:HG22	23:EB:114:THR:CG2	2.51	0.41
23:EB:27:GLY:HA2	23:EB:272:HIS:CE1	2.50	0.41
23:EB:49:PHE:CD2	23:EB:333:VAL:HG12	2.55	0.41
23:EB:378:PHE:CD1	1:F1:3325:G:N2	2.87	0.41
24:EC:242:ASN:C	24:EC:244:LEU:H	2.24	0.41
24:EC:276:THR:HG23	24:EC:277:GLY:N	2.27	0.41
25:ED:109:HIS:O	25:ED:112:LEU:HB2	2.21	0.41
25:ED:32:LYS:HB3	25:ED:119:SER:O	2.21	0.41
26:EE:26:GLU:HG2	26:EE:35:LYS:HB3	2.02	0.41
27:EF:92:TYR:CE2	27:EF:123:ILE:CG2	3.01	0.41
28:EG:58:UNK:HB2	1:F1:1308:U:H5''	2.02	0.41
28:EG:5:UNK:C	28:EG:7:UNK:N	2.81	0.41
30:EI:196:PHE:O	30:EI:196:PHE:CD1	2.73	0.41
32:EK:28:GLY:HA2	32:EK:31:ARG:NE	2.36	0.41
33:EL:74:PRO:HA	1:F1:2162:A:C1'	2.51	0.41
37:EP:15:PHE:CE2	37:EP:52:MET:HE1	2.56	0.41
37:EP:76:VAL:HG12	37:EP:77:HIS:H	1.83	0.41
38:EQ:134:ALA:HB2	1:F1:905:G:H5''	2.00	0.41
38:EQ:96:LEU:HD23	38:EQ:96:LEU:HA	1.83	0.41
40:ES:70:THR:N	40:ES:80:HIS:O	2.51	0.41
41:ET:16:TYR:HB3	41:ET:17:PRO:HD2	2.02	0.41
1:F1:1310:C:C5	1:F1:1311:C:C4	3.08	0.41
1:F1:139:A:O2'	1:F1:140:A:H8	2.02	0.41
1:F1:1445:G:C3'	1:F1:1446:C:H5''	2.49	0.41
1:F1:2117:A:OP1	1:F1:2117:A:H4'	2.20	0.41
1:F1:2163:A:H4'	50:F1:3622:HOH:O	2.20	0.41
22:EA:70:TYR:OH	1:F1:2548:G:OP1	2.38	0.41
1:F1:2625:A:H5'	1:F1:2626:A:H5''	1.99	0.41
1:F1:3223:G:C2'	1:F1:3224:C:O5'	2.69	0.41
1:F1:3345:A:OP2	1:F1:3345:A:C8	2.73	0.41
1:F1:556:A:C6	1:F1:557:U:C5	3.09	0.41
1:F1:832:A:N6	1:F1:959:G:H22	2.19	0.41
1:F1:987:A:H3'	50:F1:4477:HOH:O	2.20	0.41
2:FA:28:HIS:NE2	2:FA:31:LYS:HG3	2.34	0.41
6:FF:3:PHE:CD1	19:FX:164:PRO:CB	3.01	0.41
8:FH:20:PHE:CE2	8:FH:99:ALA:HB3	2.56	0.41
10:FK:79:GLU:O	10:FK:82:ILE:N	2.49	0.41
11:FL:20:VAL:HG11	11:FL:32:ALA:HB1	2.02	0.41
1:F1:1712:U:C4	12:FM:80:TYR:HD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:FO:69:LYS:HD3	14:FO:71:LYS:O	2.21	0.41
14:FO:7:GLU:OE1	14:FO:7:GLU:HA	2.21	0.41
20:G2:118:G:H2'	20:G2:119:A:C8	2.56	0.41
20:G2:107:C:C5	20:G2:135:A:C6	3.09	0.41
21:G3:11:A:H8	34:GM:18:THR:HG21	1.85	0.41
23:GB:121:ASN:HD21	23:GB:124:ASN:HB2	1.86	0.41
23:GB:211:GLU:OE2	23:GB:338:LYS:HE2	2.20	0.41
23:GB:356:PHE:CE2	23:GB:358:ASP:HA	2.55	0.41
27:GF:127:TYR:CB	27:GF:183:VAL:HG11	2.51	0.41
28:GG:94:UNK:O	28:GG:98:UNK:HG2	2.20	0.41
29:GH:15:LYS:HA	29:GH:16:PRO:HD3	1.79	0.41
31:GJ:7:ARG:HB2	31:GJ:130:TRP:HH2	1.86	0.41
33:GL:104:GLU:HB2	33:GL:161:LEU:CD2	2.51	0.41
21:G3:1:G:C2	34:GM:274:HIS:NE2	2.85	0.41
34:GM:82:GLU:O	34:GM:85:ARG:HB2	2.21	0.41
35:GN:69:VAL:CG2	35:GN:93:LEU:HD11	2.49	0.41
36:GO:21:ARG:NH1	36:GO:52:LYS:HE3	2.36	0.41
40:GS:105:LEU:HD13	40:GS:108:LEU:HD21	2.02	0.41
42:GU:78:SER:O	42:GU:79:LEU:CB	2.68	0.41
45:GX:20:VAL:HG12	45:GX:52:ARG:HH12	1.85	0.41
1:H1:752:C:C5'	1:H1:1002:A:C2	3.01	0.41
1:H1:116:U:C6	1:H1:117:G:N7	2.88	0.41
1:H1:1200:C:H1'	1:H1:1206:A:C4	2.56	0.41
39:GR:131:TYR:CD2	1:H1:1549:U:C2	3.09	0.41
1:H1:1708:U:OP1	12:HM:88:LYS:HE2	2.21	0.41
1:H1:2121:A:H2'	1:H1:2122:A:O5'	2.20	0.41
1:H1:2125:C:O2'	1:H1:2140:A:O4'	2.38	0.41
38:GQ:139:ASN:OD1	1:H1:2352:A:H4'	2.21	0.41
1:H1:2561:A:C2	1:H1:2563:U:C4	3.08	0.41
1:H1:2564:G:C6	1:H1:2565:A:C5	3.08	0.41
1:H1:2915:C:H2'	1:H1:2916:C:C6	2.56	0.41
1:H1:3305:A:O5'	1:H1:3305:A:H8	2.04	0.41
1:H1:3346:G:H2'	1:H1:3347:A:H8	1.85	0.41
1:H1:469:U:O2	1:H1:510:A:N1	2.53	0.41
1:H1:663:G:H4'	1:H1:1460:G:O6	2.21	0.41
1:H1:685:G:N9	1:H1:827:C:O4'	2.54	0.41
1:H1:729:A:C4'	1:H1:810:G:H21	2.34	0.41
1:H1:774:A:C5	1:H1:775:C:C5	3.09	0.41
1:H1:792:G:H4'	18:HU:190:TRP:CD1	2.55	0.41
1:H1:1516:A:O2'	2:HA:12:HIS:HD2	2.04	0.41
3:HB:7:LEU:HA	3:HB:7:LEU:HD23	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HC:10:THR:C	4:HC:18:HIS:ND1	2.75	0.41
1:H1:3230:G:C5	5:HE:119:ARG:HD2	2.55	0.41
5:HE:78:GLY:O	5:HE:79:PRO:C	2.56	0.41
30:GI:196:PHE:CE1	6:HF:107:ASP:O	2.74	0.41
14:HO:29:PHE:HB2	14:HO:41:GLY:HA3	2.03	0.41
1:H1:510:A:H5''	14:HO:68:HIS:O	2.21	0.41
18:HU:132:LYS:O	18:HU:135:LEU:HD13	2.21	0.41
18:HU:166:VAL:O	18:HU:169:ILE:N	2.54	0.41
18:HU:59:GLN:O	18:HU:59:GLN:CG	2.67	0.41
18:HU:74:THR:O	18:HU:77:GLU:N	2.54	0.41
1:H1:74:G:H2'	18:HU:98:ARG:HD2	2.01	0.41
19:HX:117:VAL:O	19:HX:120:LEU:HB3	2.21	0.41
1:A1:1175:G:OP2	8:AH:28:HIS:HD2	2.03	0.41
1:A1:117:G:N2	27:BF:127:TYR:CE2	2.89	0.41
1:A1:148:G:O2'	1:A1:149:U:O5'	2.39	0.41
1:A1:1531:C:C4	1:A1:1532:A:N7	2.88	0.41
1:A1:159:G:C4	1:A1:160:G:C8	3.09	0.41
1:A1:165:C:H5''	18:AU:132:LYS:HZ1	1.83	0.41
1:A1:168:G:H2'	1:A1:169:A:OP2	2.20	0.41
1:A1:2106:G:O2'	1:A1:2107:A:OP1	2.38	0.41
1:A1:2118:G:C6	1:A1:2327:A:C2	3.09	0.41
1:A1:2415:C:C2'	1:A1:2416:U:C5'	2.88	0.41
1:A1:2432:G:C6	1:A1:2506:G:C5	3.09	0.41
1:A1:2938:G:H2'	1:A1:2938:G:N3	2.36	0.41
1:A1:3036:U:O4	1:A1:3037:A:N6	2.54	0.41
1:A1:3037:A:C2	1:A1:3079:U:N3	2.89	0.41
1:A1:3175:A:C2	1:A1:3177:G:C5	3.09	0.41
1:A1:3175:A:C5'	1:A1:3176:A:OP2	2.68	0.41
1:A1:319:G:OP1	33:BL:166:SER:HB3	2.21	0.41
1:A1:3332:A:C3'	1:A1:3333:G:C5'	2.94	0.41
1:A1:3348:U:H4'	38:BQ:58:ARG:NH2	2.36	0.41
1:A1:589:C:O2'	1:A1:590:A:H5'	2.20	0.41
1:A1:26:C:O2'	1:A1:59:A:H1'	2.21	0.41
1:A1:64:A:H5'	1:A1:315:U:OP1	2.21	0.41
5:AE:124:LYS:HG2	5:AE:132:ALA:CB	2.47	0.41
7:AG:71:VAL:CG1	7:AG:71:VAL:O	2.68	0.41
8:AH:17:LYS:HG3	8:AH:40:GLN:OE1	2.20	0.41
9:AJ:111:ASN:OD1	9:AJ:111:ASN:C	2.59	0.41
12:AM:82:THR:HG21	12:AM:97:VAL:HG21	2.02	0.41
1:A1:1701:A:H5''	12:AM:99:SER:CB	2.51	0.41
14:AO:53:GLY:O	14:AO:57:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AU:131:ALA:H	18:AU:136:VAL:HB	1.86	0.41
18:AU:131:ALA:HB3	18:AU:136:VAL:HG21	2.01	0.41
19:AX:15:GLN:NE2	19:AX:115:GLY:CA	2.84	0.41
21:B3:40:C:O2	21:B3:40:C:C2'	2.67	0.41
1:A1:2975:A:O2'	23:BB:257:ARG:HB3	2.21	0.41
24:BC:348:ALA:C	24:BC:350:ALA:N	2.74	0.41
25:BD:102:PHE:CE1	25:BD:129:VAL:HB	2.55	0.41
26:BE:134:ARG:HG3	26:BE:141:THR:O	2.21	0.41
29:BH:15:LYS:HA	29:BH:16:PRO:HD3	1.75	0.41
29:BH:61:THR:O	29:BH:64:ALA:HB3	2.21	0.41
32:BK:121:GLN:HA	32:BK:122:PRO:HD3	1.62	0.41
32:BK:46:LEU:CD2	32:BK:50:TRP:CE3	3.04	0.41
33:BL:33:LEU:HD23	33:BL:33:LEU:HA	1.78	0.41
34:BM:105:LEU:HA	34:BM:105:LEU:HD12	1.85	0.41
1:A1:2111:G:O2'	36:BO:82:LYS:HE3	2.20	0.41
37:BP:11:THR:CG2	37:BP:11:THR:O	2.68	0.41
22:BA:175:ARG:HA	46:BY:69:TRP:NE1	2.34	0.41
46:BY:71:LEU:C	46:BY:71:LEU:HD12	2.36	0.41
20:C2:105:A:H5'	20:C2:106:A:P	2.60	0.41
20:C2:43:A:H3'	20:C2:43:A:C8	2.56	0.41
21:C3:64:A:H3'	50:C3:331:HOH:O	2.21	0.41
22:CA:30:TYR:H	22:CA:124:ARG:HB3	1.86	0.41
22:CA:8:GLN:O	1:D1:2159:C:O2'	2.33	0.41
24:CC:163:VAL:HG12	24:CC:223:LEU:HG	2.03	0.41
24:CC:272:THR:O	24:CC:275:THR:N	2.54	0.41
25:CD:9:MET:CE	25:CD:9:MET:HA	2.51	0.41
27:CF:208:SER:O	27:CF:212:LYS:N	2.44	0.41
27:CF:48:PRO:O	27:CF:49:ARG:C	2.59	0.41
29:CH:180:GLN:O	29:CH:184:LEU:HG	2.20	0.41
29:CH:42:THR:HG22	29:CH:43:VAL:N	2.36	0.41
29:CH:49:VAL:HA	29:CH:138:VAL:O	2.21	0.41
30:CI:11:LYS:O	30:CI:13:HIS:CD2	2.74	0.41
32:CK:141:VAL:HG12	32:CK:141:VAL:O	2.19	0.41
34:CM:164:LYS:HD3	34:CM:180:PHE:CE1	2.56	0.41
34:CM:95:TYR:OH	34:CM:200:HIS:HE1	2.03	0.41
34:CM:99:TYR:HD2	34:CM:251:HIS:HE1	1.68	0.41
47:CO:131:LEU:HB2	47:CO:132:TYR:CE1	2.56	0.41
47:CO:167:UNK:HA	47:CO:170:UNK:HG3	2.02	0.41
38:CQ:128:ARG:HG2	38:CQ:142:LEU:HD22	2.02	0.41
39:CR:42:THR:HG22	39:CR:43:LEU:N	2.36	0.41
42:CU:36:LYS:HE3	42:CU:48:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:116:U:C5	1:D1:117:G:C5	3.09	0.41
1:D1:1381:G:N3	1:D1:1381:G:H2'	2.36	0.41
1:D1:1462:U:O2	50:D1:4892:HOH:O	2.22	0.41
1:D1:1766:A:C4	1:D1:1768:G:C8	3.09	0.41
1:D1:2215:C:H2'	1:D1:2216:G:O4'	2.21	0.41
1:D1:2267:G:N3	1:D1:2267:G:H2'	2.35	0.41
1:D1:2521:A:C2	1:D1:2522:A:C5	3.09	0.41
1:D1:2561:A:C2	1:D1:2563:U:C2	3.09	0.41
1:D1:3004:U:C2	1:D1:3029:A:C2	3.09	0.41
23:CB:220:LYS:HD2	1:D1:3036:U:C5'	2.50	0.41
1:D1:3109:C:H5''	10:DK:111:ARG:HH22	1.86	0.41
1:D1:3156:A:H4'	1:D1:3159:A:C5	2.55	0.41
1:D1:3157:C:H4'	1:D1:3158:G:H5'	2.03	0.41
1:D1:3173:U:H5''	1:D1:3174:U:OP1	2.21	0.41
1:D1:3230:G:O2'	1:D1:3231:U:OP2	2.38	0.41
1:D1:361:A:C3'	1:D1:362:G:H5''	2.51	0.41
1:D1:469:U:H2'	1:D1:469:U:O2	2.19	0.41
1:D1:508:A:H2'	1:D1:509:A:OP2	2.21	0.41
1:D1:621:G:O6	1:D1:622:G:N1	2.54	0.41
1:D1:624:G:C4	1:D1:625:C:C4	3.08	0.41
1:D1:698:G:H2'	1:D1:699:C:C6	2.56	0.41
35:CN:92:ARG:NE	1:D1:810:G:N7	2.68	0.41
2:DA:11:ARG:HG3	2:DA:11:ARG:H	1.56	0.41
5:DE:90:VAL:HG13	5:DE:91:ASN:N	2.36	0.41
8:DH:54:LYS:CD	8:DH:110:PRO:HG2	2.46	0.41
9:DJ:5:CYS:SG	9:DJ:13:ILE:CD1	3.08	0.41
11:DL:7:TYR:HE2	11:DL:18:ASN:OD1	2.03	0.41
12:DM:51:ASN:C	12:DM:53:GLY:H	2.23	0.41
13:DN:90:LEU:HD12	13:DN:90:LEU:HA	1.89	0.41
1:D1:296:G:C3'	16:DQ:34:LEU:HD21	2.51	0.41
19:DX:52:LYS:O	19:DX:55:PHE:HB3	2.21	0.41
20:E2:37:A:C4'	20:E2:38:C:OP1	2.46	0.41
21:E3:7:G:O3'	34:EM:33:ARG:CZ	2.69	0.41
23:EB:281:TYR:CB	23:EB:321:MET:HE3	2.51	0.41
24:EC:163:VAL:HG12	24:EC:223:LEU:HG	2.02	0.41
24:EC:316:THR:O	24:EC:317:HIS:CD2	2.72	0.41
24:EC:65:MET:CE	24:EC:105:ARG:CG	2.98	0.41
26:EE:90:MET:O	26:EE:141:THR:HG23	2.20	0.41
26:EE:45:ILE:HA	26:EE:55:LEU:CD2	2.44	0.41
27:EF:45:VAL:CG1	27:EF:46:ARG:N	2.83	0.41
29:EH:46:PHE:CZ	29:EH:84:ALA:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:EI:96:ALA:O	30:EI:97:ALA:C	2.59	0.41
32:EK:45:ILE:HG12	1:F1:2716:A:N1	2.35	0.41
33:EL:185:ARG:O	33:EL:186:THR:HB	2.21	0.41
34:EM:83:LEU:O	34:EM:88:VAL:HG22	2.21	0.41
20:E2:7:U:P	38:EQ:36:ARG:HH12	2.43	0.41
39:ER:97:ARG:HD2	39:ER:97:ARG:HA	1.89	0.41
40:ES:33:HIS:CE1	40:ES:39:ARG:HE	2.39	0.41
41:ET:57:ARG:HD2	41:ET:61:TRP:CD1	2.56	0.41
43:EV:63:LYS:HZ1	1:F1:563:G:P	2.44	0.41
46:EY:12:ARG:HG2	1:F1:861:A:O4'	2.19	0.41
46:EY:38:GLY:HA2	46:EY:45:VAL:HA	2.02	0.41
46:EY:73:THR:HA	46:EY:74:PRO:HD2	1.94	0.41
1:F1:1172:G:H1'	1:F1:1187:C:N3	2.35	0.41
1:F1:1130:A:C2	1:F1:1390:A:O2'	2.64	0.41
1:F1:1597:U:C5	1:F1:1598:C:C4	3.08	0.41
1:F1:1550:A:C5	1:F1:1632:U:C6	3.09	0.41
1:F1:2132:U:C5'	50:F1:3909:HOH:O	2.64	0.41
22:EA:86:GLY:HA2	1:F1:2545:A:N3	2.36	0.41
1:F1:3064:A:H2'	1:F1:3065:C:C6	2.56	0.41
1:F1:2883:G:H5'	1:F1:3096:U:O2'	2.20	0.41
33:EL:150:TRP:CE3	1:F1:320:C:H5''	2.56	0.41
1:F1:3233:A:HO2'	1:F1:3234:U:P	2.31	0.41
1:F1:345:C:C4	1:F1:347:A:N7	2.89	0.41
38:EQ:6:TYR:OH	1:F1:388:A:OP1	2.36	0.41
1:F1:469:U:O2	1:F1:510:A:N1	2.54	0.41
1:F1:76:U:O2'	1:F1:77:A:H5'	2.21	0.41
20:E2:96:A:O4'	2:FA:80:ARG:HB2	2.21	0.41
3:FB:9:MET:O	3:FB:10:LYS:C	2.58	0.41
1:F1:282:G:O2'	4:FC:36:GLN:NE2	2.54	0.41
6:FF:60:ILE:CG2	6:FF:63:VAL:HG23	2.51	0.41
6:FF:39:ASP:HB3	6:FF:72:LEU:CD2	2.50	0.41
10:FK:108:THR:O	10:FK:108:THR:HG22	2.21	0.41
13:FN:90:LEU:HA	13:FN:90:LEU:HD12	1.87	0.41
14:FO:106:PHE:O	14:FO:107:ALA:C	2.59	0.41
15:FP:67:ALA:O	15:FP:69:PRO:HD3	2.21	0.41
18:FU:177:VAL:O	18:FU:180:ILE:HB	2.21	0.41
19:FX:44:PHE:CE2	19:FX:117:VAL:HG21	2.55	0.41
19:FX:134:THR:O	19:FX:134:THR:CG2	2.66	0.41
19:FX:15:GLN:NE2	19:FX:115:GLY:CA	2.84	0.41
19:FX:16:MET:CE	19:FX:18:VAL:CG2	2.93	0.41
20:G2:146:A:C2'	20:G2:147:G:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:G2:15:G:N2	1:H1:409:G:C4	2.89	0.41
20:G2:74:A:H62	20:G2:88:G:H1'	1.74	0.41
22:GA:183:ALA:HB2	1:H1:2144:A:O2'	2.20	0.41
22:GA:43:ARG:O	22:GA:43:ARG:HG3	2.21	0.41
23:GB:230:ARG:HG2	23:GB:231:PHE:CE1	2.55	0.41
24:GC:242:ASN:HD21	1:H1:718:A:C3'	2.33	0.41
26:GE:38:PHE:CD1	26:GE:38:PHE:N	2.89	0.41
27:GF:76:THR:HG21	27:GF:174:LYS:HG2	2.03	0.41
32:GK:68:ASN:HB2	32:GK:69:PRO:HD3	2.03	0.41
35:GN:92:ARG:NH2	1:H1:810:G:H8	2.19	0.41
36:GO:134:ASN:ND2	1:H1:1971:G:C5'	2.82	0.41
36:GO:5:ARG:HD2	36:GO:5:ARG:HA	1.78	0.41
38:GQ:86:PRO:O	38:GQ:90:VAL:HG23	2.19	0.41
39:GR:113:VAL:HG13	39:GR:138:SER:OG	2.21	0.41
42:GU:10:LEU:HD21	42:GU:58:TYR:CZ	2.56	0.41
35:GN:4:ASP:CG	43:GV:101:ARG:HH21	2.25	0.41
1:H1:130:G:C6	1:H1:137:A:C6	3.08	0.41
1:H1:13:C:H2'	1:H1:14:A:H8	1.86	0.41
1:H1:1508:A:N6	1:H1:1890:C:O2'	2.53	0.41
1:H1:2106:G:O2'	1:H1:2107:A:OP1	2.37	0.41
1:H1:2409:G:C2'	1:H1:2410:C:O5'	2.69	0.41
1:H1:2596:G:C6	1:H1:2597:G:C5	3.09	0.41
33:GL:120:TRP:CD2	1:H1:268:G:H5'	2.56	0.41
1:H1:270:C:H2'	1:H1:271:G:O5'	2.21	0.41
1:H1:279:U:O2	1:H1:281:G:C8	2.74	0.41
1:H1:2847:U:H4'	1:H1:2848:U:O5'	2.19	0.41
1:H1:2876:U:C4	1:H1:2898:A:C4	3.09	0.41
1:H1:2995:A:H2'	1:H1:2996:C:O4'	2.21	0.41
23:GB:374:LYS:NZ	1:H1:3288:A:OP2	2.40	0.41
1:H1:402:U:OP2	1:H1:403:G:N7	2.54	0.41
1:H1:727:C:H2'	1:H1:728:G:C8	2.56	0.41
1:H1:792:G:C2'	1:H1:793:A:O5'	2.69	0.41
33:GL:201:ARG:NH2	1:H1:79:C:O2'	2.54	0.41
1:H1:984:C:N4	1:H1:2789:A:C8	2.89	0.41
6:HF:28:VAL:CG1	6:HF:66:ASN:CA	2.98	0.41
1:H1:3235:U:O2	8:HH:10:ALA:HB1	2.21	0.41
9:HJ:142:ILE:HD12	9:HJ:148:VAL:HG12	2.03	0.41
15:HP:39:ILE:CG2	15:HP:40:THR:N	2.82	0.41
1:H1:787:U:H2'	18:HU:179:ARG:HH22	1.82	0.41
1:A1:1083:U:O2'	1:A1:1084:G:H5'	2.21	0.41
1:A1:1133:G:H2'	1:A1:1134:C:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1160:A:H2'	1:A1:1161:G:H5''	2.02	0.41
1:A1:1373:G:C5	1:A1:1374:C:C5	3.08	0.41
1:A1:1432:G:N2	1:A1:1433:A:C2	2.89	0.41
1:A1:1433:A:H3'	1:A1:1434:G:O4'	2.21	0.41
1:A1:187:A:C4	1:A1:211:A:C6	3.09	0.41
1:A1:2215:C:H2'	1:A1:2216:G:O4'	2.21	0.41
1:A1:2362:A:C8	50:A1:3890:HOH:O	2.73	0.41
1:A1:2411:U:H2'	1:A1:2412:U:H6	1.84	0.41
1:A1:2558:U:C5	1:A1:2559:U:C4	3.09	0.41
1:A1:2636:A:H2'	1:A1:2637:G:O5'	2.21	0.41
1:A1:2716:A:C2	32:BK:45:ILE:HG23	2.55	0.41
1:A1:3143:A:OP2	1:A1:3143:A:C8	2.73	0.41
1:A1:3232:A:N6	1:A1:3233:A:C2	2.88	0.41
1:A1:399:A:N3	1:A1:400:C:N3	2.69	0.41
1:A1:528:C:H6	1:A1:528:C:C5'	2.30	0.41
1:A1:540:G:N2	1:A1:642:C:O2	2.42	0.41
1:A1:698:G:H2'	1:A1:699:C:C6	2.56	0.41
1:A1:64:A:C2	1:A1:75:A:H5''	2.55	0.41
1:A1:788:C:C4	1:A1:790:C:C6	3.09	0.41
1:A1:977:A:C2'	1:A1:978:G:H5''	2.51	0.41
2:AA:64:ARG:HA	50:AA:204:HOH:O	2.21	0.41
5:AE:77:THR:HG23	5:AE:87:LEU:HD23	2.03	0.41
6:AF:39:ASP:HB3	6:AF:72:LEU:CD2	2.50	0.41
1:A1:1658:G:P	13:AN:107:LYS:NZ	2.94	0.41
15:AP:45:ARG:NH1	15:AP:50:LEU:HB2	2.36	0.41
20:B2:89:A:H2'	20:B2:90:G:O4'	2.21	0.41
21:B3:27:A:H2'	21:B3:28:C:H6	1.83	0.41
1:A1:2171:U:H5''	22:BA:55:ARG:NH2	2.36	0.41
23:BB:277:ASN:ND2	23:BB:343:GLN:HE21	2.12	0.41
24:BC:23:LEU:HD11	24:BC:264:LYS:HE2	2.03	0.41
19:AX:22:VAL:HG22	24:BC:380:PHE:CE1	2.56	0.41
24:BC:62:THR:O	24:BC:65:MET:HB2	2.21	0.41
24:BC:89:THR:HG21	24:BC:91:ARG:HB3	2.01	0.41
25:BD:86:VAL:HG21	25:BD:112:LEU:HD23	2.02	0.41
25:BD:29:LYS:O	25:BD:32:LYS:HB2	2.21	0.41
25:BD:50:ALA:CB	25:BD:59:ILE:HG23	2.50	0.41
25:BD:65:MET:HE2	25:BD:65:MET:HB3	1.71	0.41
26:BE:97:PHE:HB3	26:BE:114:HIS:HD2	1.85	0.41
1:A1:147:U:N3	27:BF:151:ASP:O	2.54	0.41
28:BG:109:UNK:CG	28:BG:111:UNK:HG3	2.48	0.41
29:BH:68:ALA:HB2	29:BH:158:LYS:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:260:PHE:HD1	30:BI:63:HIS:O	2.04	0.41
31:BJ:57:SER:O	31:BJ:58:ILE:C	2.58	0.41
1:A1:2776:C:P	32:BK:59:GLY:HA2	2.60	0.41
33:BL:26:ARG:C	33:BL:30:TYR:HD1	2.24	0.41
34:BM:119:TYR:HD1	34:BM:132:VAL:CG1	2.24	0.41
34:BM:212:TYR:CE2	34:BM:227:GLN:NE2	2.89	0.41
35:BN:174:PHE:O	35:BN:176:ARG:N	2.54	0.41
37:BP:8:ARG:CD	37:BP:11:THR:HG21	2.50	0.41
23:BB:365:HIS:HA	41:BT:19:ARG:HH22	1.85	0.41
20:B2:52:G:H4'	42:BU:36:LYS:NZ	2.36	0.41
43:BV:148:ARG:HD3	43:BV:148:ARG:HA	1.94	0.41
43:BV:93:HIS:CE1	43:BV:94:PRO:HD2	2.56	0.41
46:BY:99:LEU:O	46:BY:99:LEU:HD12	2.21	0.41
20:C2:43:A:C2'	20:C2:44:A:O5'	2.69	0.41
20:C2:91:U:O2'	20:C2:92:C:H5''	2.21	0.41
22:CA:84:TYR:CD1	22:CA:87:GLN:HB2	2.55	0.41
23:CB:332:ARG:HH11	23:CB:332:ARG:HB2	1.86	0.41
23:CB:86:ILE:CG1	23:CB:158:VAL:HG11	2.51	0.41
24:CC:91:ARG:HH12	24:CC:103:LYS:HB2	1.85	0.41
24:CC:125:LYS:HD3	1:D1:719:C:OP1	2.20	0.41
24:CC:374:GLN:HA	24:CC:377:ILE:HD12	2.03	0.41
27:CF:125:LEU:HD11	27:CF:191:VAL:HG12	2.02	0.41
28:CG:30:UNK:HG3	28:CG:81:UNK:HB2	2.02	0.41
30:CI:196:PHE:CD1	30:CI:196:PHE:O	2.73	0.41
32:CK:52:PRO:HG3	35:CN:157:GLY:HA3	2.02	0.41
35:CN:141:ARG:HD3	1:D1:768:A:O4'	2.21	0.41
38:CQ:126:LYS:HG2	38:CQ:144:SER:HA	2.03	0.41
38:CQ:49:TYR:HD1	38:CQ:58:ARG:NH1	2.19	0.41
24:CC:203:ASN:ND2	40:CS:10:ALA:HA	2.35	0.41
40:CS:55:VAL:HG22	40:CS:105:LEU:CD2	2.44	0.41
23:CB:377:PHE:CZ	41:CT:13:TYR:HE1	2.39	0.41
24:CC:333:LEU:CD2	43:CV:161:THR:O	2.67	0.41
43:CV:173:PHE:HD1	43:CV:191:HIS:ND1	2.17	0.41
45:CX:81:PRO:O	45:CX:84:LEU:HB2	2.21	0.41
46:CY:88:LYS:HG2	46:CY:89:LEU:N	2.35	0.41
29:CH:39:LYS:O	1:D1:1036:G:H4'	2.20	0.41
1:D1:1142:G:H3'	1:D1:1142:G:H8	1.86	0.41
1:D1:1179:G:H1	1:D1:1226:C:N4	2.19	0.41
27:CF:131:HIS:CG	1:D1:117:G:C2	3.09	0.41
1:D1:1200:C:H1'	1:D1:1206:A:C4	2.56	0.41
42:CU:78:SER:HB3	1:D1:134:A:H4'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1517:G:OP2	50:D1:4528:HOH:O	2.22	0.41
1:D1:2125:C:O2'	1:D1:2140:A:O4'	2.39	0.41
22:CA:200:VAL:HA	1:D1:2143:A:OP1	2.21	0.41
1:D1:2247:A:C4	1:D1:2248:G:C8	3.09	0.41
1:D1:2804:G:H8	1:D1:2858:C:OP2	2.04	0.41
1:D1:2920:U:O2	1:D1:2922:A:C8	2.73	0.41
1:D1:3177:G:OP1	1:D1:3177:G:C8	2.74	0.41
1:D1:434:A:C4'	1:D1:435:A:OP1	2.68	0.41
1:D1:564:A:C6	1:D1:567:C:H4'	2.55	0.41
1:D1:61:A:C6	1:D1:62:G:C6	3.08	0.41
1:D1:620:A:N3	1:D1:620:A:O4'	2.54	0.41
1:D1:766:G:O2'	1:D1:767:C:O5'	2.38	0.41
1:D1:77:A:C2	1:D1:324:A:N3	2.88	0.41
1:D1:934:G:C2'	1:D1:935:G:O5'	2.69	0.41
1:D1:975:G:C2	1:D1:1397:G:C6	3.09	0.41
3:DB:33:THR:HG22	3:DB:35:ILE:N	2.04	0.41
4:DC:14:LYS:HB2	4:DC:75:CYS:SG	2.61	0.41
14:DO:13:ASN:OD1	14:DO:13:ASN:C	2.59	0.41
16:DQ:18:LEU:HA	16:DQ:18:LEU:HD23	1.69	0.41
19:DX:56:TRP:O	19:DX:57:TYR:C	2.59	0.41
22:EA:10:LYS:O	22:EA:194:ARG:NH2	2.53	0.41
23:EB:121:ASN:HD21	23:EB:124:ASN:HB2	1.86	0.41
23:EB:185:LYS:HB2	23:EB:188:GLU:CG	2.46	0.41
23:EB:46:PHE:CE1	23:EB:84:MET:HG3	2.56	0.41
24:EC:147:HIS:CD2	24:EC:254:ARG:HA	2.56	0.41
26:EE:160:HIS:CE1	26:EE:164:LEU:HD21	2.56	0.41
26:EE:49:THR:C	26:EE:51:ASP:N	2.74	0.41
29:EH:15:LYS:HA	29:EH:16:PRO:HD3	1.75	0.41
33:EL:33:LEU:HD23	33:EL:33:LEU:HA	1.79	0.41
35:EN:24:ASN:HD21	35:EN:27:HIS:HB2	1.86	0.41
35:EN:6:HIS:CD2	35:EN:7:LYS:HG2	2.56	0.41
39:ER:150:ILE:CD1	39:ER:150:ILE:H	2.18	0.41
40:ES:18:HIS:CE1	40:ES:77:TRP:CH2	3.09	0.41
23:EB:55:HIS:ND1	41:ET:18:GLY:HA3	2.34	0.41
42:EU:119:LYS:HB3	18:FU:124:PHE:CD1	2.56	0.41
45:EX:53:ARG:HD3	45:EX:53:ARG:HA	1.41	0.41
1:F1:620:A:H1'	1:F1:1364:A:H5''	2.03	0.41
1:F1:1546:G:O2'	1:F1:1628:A:N1	2.52	0.41
1:F1:1649:G:N2	1:F1:1650:U:C2	2.89	0.41
1:F1:1909:C:H5''	1:F1:3266:G:C2	2.56	0.41
1:F1:240:A:C4'	1:F1:241:A:OP2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:EF:65:LYS:HD2	1:F1:2431:U:H5''	2.03	0.41
1:F1:2567:U:H2'	1:F1:2568:G:C8	2.56	0.41
1:F1:303:A:N3	1:F1:303:A:H2'	2.36	0.41
1:F1:3189:G:OP2	50:F1:4533:HOH:O	2.21	0.41
1:F1:3311:U:H3'	1:F1:3311:U:H6	1.86	0.41
1:F1:3332:A:C3'	1:F1:3333:G:C5'	2.97	0.41
1:F1:34:C:H4'	1:F1:833:A:C2	2.56	0.41
1:F1:454:A:N6	1:F1:524:G:H1'	2.31	0.41
1:F1:870:G:N2	1:F1:874:C:C4	2.89	0.41
6:FF:93:LYS:O	6:FF:97:LYS:HG2	2.20	0.41
8:FH:12:THR:HG22	8:FH:14:LEU:HG	2.02	0.41
8:FH:16:VAL:HG12	8:FH:17:LYS:N	2.35	0.41
12:FM:96:TYR:HD1	12:FM:110:PHE:HD1	1.68	0.41
14:FO:105:GLN:HA	14:FO:105:GLN:OE1	2.21	0.41
14:FO:29:PHE:HB2	14:FO:41:GLY:HA3	2.02	0.41
16:FQ:56:LYS:O	16:FQ:59:ILE:HB	2.20	0.41
16:FQ:16:THR:OG1	18:FU:105:GLU:OE2	2.28	0.41
23:GB:85:THR:O	23:GB:161:HIS:N	2.51	0.41
23:GB:213:LEU:O	23:GB:214:ASP:OD1	2.39	0.41
24:GC:100:GLN:HG2	24:GC:100:GLN:H	1.19	0.41
24:GC:108:ALA:O	24:GC:109:PRO:C	2.58	0.41
24:GC:317:HIS:HE1	1:H1:1388:U:O2'	2.03	0.41
24:GC:67:HIS:CD2	24:GC:91:ARG:HH21	2.39	0.41
26:GE:110:ILE:CD1	26:GE:159:ILE:HD11	2.51	0.41
27:GF:125:LEU:HD12	27:GF:192:ALA:O	2.20	0.41
30:GI:13:HIS:HE1	30:GI:119:VAL:H	1.68	0.41
30:GI:127:ARG:O	1:H1:1343:G:H2'	2.20	0.41
31:GJ:85:GLN:HA	31:GJ:102:ASN:ND2	2.33	0.41
33:GL:188:ARG:HH21	1:H1:279:U:H5'	1.86	0.41
35:GN:128:ALA:O	35:GN:132:PRO:HD3	2.20	0.41
35:GN:168:ARG:HE	35:GN:174:PHE:HE2	1.68	0.41
35:GN:61:PHE:HA	35:GN:62:PRO:HD3	1.83	0.41
35:GN:62:PRO:O	35:GN:142:ALA:CB	2.69	0.41
41:GT:5:THR:HG21	41:GT:14:ARG:NE	2.36	0.41
45:GX:25:GLU:N	45:GX:25:GLU:OE1	2.39	0.41
45:GX:81:PRO:O	45:GX:84:LEU:HB2	2.21	0.41
1:H1:1055:A:N6	1:H1:1056:A:N6	2.69	0.41
1:H1:1902:C:HO2'	1:H1:1903:A:P	2.36	0.41
1:H1:2221:U:H2'	1:H1:2222:C:C6	2.56	0.41
1:H1:2403:U:C2	1:H1:2802:G:N2	2.89	0.41
33:GL:12:ARG:HG2	1:H1:267:A:C4	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:2703:G:H4'	1:H1:2704:A:C5'	2.49	0.41
1:H1:2883:G:H5'	1:H1:3096:U:O2'	2.21	0.41
1:H1:2902:G:N3	1:H1:2922:A:H2	2.19	0.41
23:GB:272:HIS:CD2	1:H1:3127:U:OP1	2.61	0.41
1:H1:3127:U:O2'	1:H1:3128:G:H5''	2.16	0.41
1:H1:3294:A:H2'	1:H1:3295:G:H5'	2.02	0.41
44:GW:105:THR:HG21	1:H1:3341:C:H1'	2.03	0.41
1:H1:517:A:C4'	1:H1:518:G:OP2	2.63	0.41
24:GC:319:ARG:CZ	1:H1:620:A:N7	2.81	0.41
1:H1:685:G:O2'	1:H1:686:U:P	2.79	0.41
1:H1:773:C:C2	1:H1:774:A:C8	3.09	0.41
20:G2:45:G:H5''	2:HA:63:GLY:H	1.85	0.41
6:HF:16:ASN:OD1	6:HF:17:TYR:N	2.54	0.41
7:HG:32:LYS:HG2	7:HG:36:ASN:ND2	2.36	0.41
7:HG:62:LEU:HD23	13:HN:4:PHE:CE2	2.55	0.41
8:HH:104:LEU:HD23	8:HH:104:LEU:HA	1.66	0.41
16:HQ:68:LYS:HZ3	16:HQ:72:LYS:HE3	1.86	0.41
18:HU:150:LEU:HA	18:HU:150:LEU:HD23	1.82	0.41
1:A1:116:U:C6	1:A1:117:G:N7	2.89	0.41
1:A1:1235:U:H2'	10:AK:109:ASN:HD21	1.83	0.41
1:A1:1245:U:N3	1:A1:1314:A:C2	2.89	0.41
1:A1:1376:A:H1'	24:BC:300:ASN:HB3	2.03	0.41
1:A1:1481:U:C5	1:A1:3067:A:C2	3.09	0.41
1:A1:155:A:N3	1:A1:265:A:N1	2.68	0.41
1:A1:1769:U:H2'	1:A1:1770:A:C8	2.56	0.41
1:A1:1795:C:O2'	1:A1:1796:U:H5'	2.21	0.41
1:A1:1958:G:C6	50:A1:4528:HOH:O	2.70	0.41
1:A1:2179:U:OP1	22:BA:210:HIS:HE1	2.04	0.41
1:A1:219:A:H2	1:A1:1416:U:C2'	2.22	0.41
1:A1:223:C:O2'	1:A1:224:C:P	2.75	0.41
1:A1:2242:G:H2'	1:A1:2243:C:H5'	2.03	0.41
1:A1:2309:U:C5'	1:A1:2310:G:OP2	2.69	0.41
1:A1:2312:A:H2'	1:A1:2313:U:O5'	2.20	0.41
1:A1:2322:U:O2'	1:A1:2323:U:H5'	2.20	0.41
1:A1:2563:U:C2	1:A1:2564:G:C8	3.09	0.41
1:A1:2576:C:C6	1:A1:2576:C:C4'	3.04	0.41
1:A1:2590:A:H2'	1:A1:2591:G:C8	2.56	0.41
1:A1:2701:U:H2'	1:A1:2702:U:C6	2.55	0.41
1:A1:2915:C:H2'	1:A1:2916:C:H6	1.85	0.41
1:A1:2991:U:H2'	1:A1:2992:G:O5'	2.21	0.41
1:A1:3102:A:C2	1:A1:3111:A:C8	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:3227:A:O2'	5:AE:86:PRO:CG	2.67	0.41
1:A1:3243:A:O4'	20:B2:3:A:H2	2.03	0.41
1:A1:467:A:N1	1:A1:468:A:C4	2.89	0.41
1:A1:864:C:N3	1:A1:865:C:C5	2.89	0.41
4:AC:11:TYR:CE1	4:AC:13:LYS:HA	2.56	0.41
5:AE:75:LEU:HA	5:AE:75:LEU:HD23	1.49	0.41
6:AF:81:LEU:HD12	6:AF:81:LEU:HA	1.83	0.41
1:A1:2546:A:HO2'	11:AL:90:ARG:HD3	1.86	0.41
18:AU:181:ILE:H	18:AU:181:ILE:HG13	1.58	0.41
19:AX:41:MET:HE2	19:AX:59:MET:HE1	2.03	0.41
20:B2:118:G:H2'	20:B2:119:A:C8	2.56	0.41
22:BA:12:ARG:HH21	22:BA:14:ASN:ND2	2.14	0.41
23:BB:233:VAL:HG12	23:BB:234:LYS:N	2.35	0.41
24:BC:152:VAL:CG1	24:BC:155:LEU:HD21	2.49	0.41
24:BC:213:LEU:HD12	24:BC:234:ASP:C	2.40	0.41
24:BC:298:ILE:O	24:BC:304:VAL:CG2	2.69	0.41
24:BC:44:ASP:HB3	24:BC:118:ARG:HB2	2.02	0.41
24:BC:43:THR:CG2	24:BC:47:LYS:HE3	2.51	0.41
25:BD:115:LYS:CG	25:BD:116:TYR:H	2.34	0.41
26:BE:132:ILE:HG23	26:BE:144:LEU:HD21	2.03	0.41
26:BE:88:PHE:HD2	26:BE:152:VAL:HG12	1.83	0.41
26:BE:49:THR:C	26:BE:51:ASP:N	2.73	0.41
29:BH:180:GLN:O	29:BH:184:LEU:HG	2.21	0.41
30:BI:35:VAL:HG12	30:BI:107:ILE:HG12	2.03	0.41
32:BK:14:HIS:CG	50:BK:203:HOH:O	2.74	0.41
32:BK:52:PRO:HG3	35:BN:156:PRO:O	2.21	0.41
32:BK:62:THR:HG21	32:BK:65:LEU:HB2	2.03	0.41
1:A1:2677:U:C4	34:BM:19:LYS:HE3	2.55	0.41
34:BM:240:VAL:CG1	34:BM:245:LYS:HB2	2.50	0.41
35:BN:37:LEU:O	35:BN:41:THR:CB	2.66	0.41
24:BC:309:LYS:HD3	35:BN:42:ASP:OD1	2.21	0.41
36:BO:176:LYS:HA	36:BO:176:LYS:HD3	1.87	0.41
39:BR:147:ILE:O	39:BR:147:ILE:HG22	2.20	0.41
41:BT:2:VAL:HG22	41:BT:3:VAL:N	2.36	0.41
43:BV:33:GLN:O	43:BV:37:ARG:HG3	2.21	0.41
21:C3:13:A:OP1	21:C3:109:U:C2'	2.69	0.41
21:C3:64:A:H5'	50:C3:333:HOH:O	2.20	0.41
22:CA:253:GLU:O	22:CA:257:MET:HB2	2.21	0.41
24:CC:148:ARG:NE	24:CC:187:ARG:HD2	2.34	0.41
25:CD:104:PHE:HE1	25:CD:106:ILE:CG1	2.34	0.41
21:C3:90:A:H2	29:CH:162:ARG:NH2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CI:22:VAL:O	30:CI:26:LEU:HG	2.21	0.41
30:CI:47:PHE:O	30:CI:50:ARG:N	2.54	0.41
32:CK:46:LEU:HA	32:CK:46:LEU:HD23	1.75	0.41
35:CN:125:ASP:N	35:CN:125:ASP:OD1	2.54	0.41
20:C2:14:C:O2'	38:CQ:7:SER:HA	2.21	0.41
39:CR:77:THR:O	39:CR:80:ALA:N	2.53	0.41
39:CR:84:MET:HA	39:CR:89:THR:O	2.21	0.41
40:CS:21:SER:OG	40:CS:26:ARG:HG2	2.21	0.41
43:CV:206:THR:CG2	1:D1:1195:U:H1'	2.51	0.41
43:CV:86:ILE:HG12	43:CV:131:ILE:CA	2.46	0.41
44:CW:97:VAL:HG12	44:CW:98:ASP:N	2.35	0.41
45:CX:8:HIS:CE1	45:CX:72:GLY:HA2	2.56	0.41
1:D1:1017:U:C2'	1:D1:1018:A:O5'	2.69	0.41
43:CV:206:THR:HG21	1:D1:1195:U:C1'	2.51	0.41
1:D1:1344:A:N3	1:D1:1346:G:C8	2.89	0.41
1:D1:168:G:H2'	1:D1:169:A:OP2	2.20	0.41
1:D1:1828:C:H2'	1:D1:1829:U:O4'	2.20	0.41
23:CB:226:GLY:HA2	1:D1:1911:A:O2'	2.21	0.41
47:CO:74:ARG:CZ	1:D1:1966:U:C5	3.04	0.41
1:D1:2658:U:H2'	1:D1:2659:G:H8	1.86	0.41
1:D1:2723:A:O2'	1:D1:2724:U:H5'	2.21	0.41
1:D1:2761:U:O2	18:DU:190:TRP:CZ2	2.74	0.41
1:D1:2827:G:C2'	1:D1:2828:A:H5'	2.51	0.41
1:D1:2829:G:H5''	1:D1:2830:U:H5'	2.02	0.41
1:D1:2396:A:C2	1:D1:2860:A:C6	3.09	0.41
1:D1:2977:U:H2'	1:D1:2978:G:O4'	2.21	0.41
1:D1:579:G:H1	6:DF:29:ASN:ND2	2.16	0.41
1:D1:748:G:C5	1:D1:749:U:C5	3.09	0.41
6:DF:32:ASN:OD1	6:DF:32:ASN:C	2.60	0.41
6:DF:81:LEU:HA	6:DF:81:LEU:HD12	1.82	0.41
7:DG:38:THR:O	7:DG:38:THR:HG22	2.21	0.41
8:DH:9:VAL:CG1	8:DH:10:ALA:H	2.33	0.41
8:DH:20:PHE:C	8:DH:20:PHE:HD1	2.25	0.41
9:DJ:119:PRO:HA	9:DJ:139:ARG:HB3	2.03	0.41
32:CK:43:HIS:CE1	18:DU:1:MET:HB3	2.56	0.41
19:DX:170:HIS:C	19:DX:170:HIS:ND1	2.74	0.41
21:E3:45:U:H4'	34:EM:154:THR:OG1	2.21	0.41
22:EA:102:VAL:O	22:EA:103:LEU:HD23	2.20	0.41
23:EB:46:PHE:HD1	23:EB:206:ILE:CD1	2.33	0.41
23:EB:299:THR:HG22	23:EB:300:ASP:N	2.37	0.41
23:EB:62:ARG:NH2	1:F1:3027:U:OP1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:EB:93:ILE:CD1	23:EB:102:LEU:HD13	2.51	0.41
24:EC:359:LEU:HD21	24:EC:363:ARG:HH21	1.85	0.41
27:EF:103:ARG:NH1	1:F1:119:A:C5	2.89	0.41
36:EO:131:LEU:HD11	1:F1:867:G:H5'	2.03	0.41
37:EP:139:VAL:HG12	37:EP:140:GLN:N	2.35	0.41
24:EC:383:ALA:HB1	37:EP:147:PHE:CG	2.55	0.41
37:EP:70:ARG:O	37:EP:93:ILE:HG13	2.21	0.41
38:EQ:128:ARG:HG2	38:EQ:142:LEU:CD2	2.51	0.41
39:ER:90:MET:HE2	39:ER:92:PHE:HE1	1.84	0.41
41:ET:11:CYS:O	41:ET:55:ILE:HB	2.21	0.41
43:EV:81:ALA:HB3	43:EV:114:PHE:CZ	2.56	0.41
45:EX:30:LEU:HD23	45:EX:30:LEU:HA	1.88	0.41
46:EY:55:TRP:N	46:EY:55:TRP:CD1	2.89	0.41
1:F1:1110:U:H2'	1:F1:1110:U:O2	2.20	0.41
1:F1:1196:A:C6	1:F1:1357:A:N7	2.89	0.41
1:F1:1415:C:C2'	1:F1:1415:C:O2	2.69	0.41
1:F1:1518:G:O3'	3:FB:48:LYS:HD2	2.21	0.41
1:F1:165:C:OP1	18:FU:132:LYS:NZ	2.54	0.41
1:F1:1839:A:C4'	1:F1:1840:U:O5'	2.67	0.41
1:F1:1925:A:H4'	1:F1:2906:G:H4'	2.02	0.41
22:EA:153:SER:OG	1:F1:2153:G:N7	2.46	0.41
1:F1:2277:U:O2	1:F1:2277:U:H2'	2.21	0.41
1:F1:2438:G:C6	1:F1:2439:C:C4	3.08	0.41
1:F1:2706:U:H5'	1:F1:2706:U:H6	1.86	0.41
1:F1:3007:G:C5	1:F1:3008:U:C4	3.09	0.41
1:F1:3227:A:C8	5:FE:146:LYS:NZ	2.88	0.41
1:F1:583:G:N3	1:F1:585:A:OP2	2.54	0.41
1:F1:624:G:O2'	1:F1:625:C:H6	2.02	0.41
35:EN:18:ARG:NH1	1:F1:696:A:OP1	2.49	0.41
35:EN:57:ARG:CB	1:F1:696:A:OP2	2.69	0.41
1:F1:934:G:C2'	1:F1:935:G:O5'	2.69	0.41
1:F1:2783:U:P	4:FC:61:LYS:HG2	2.61	0.41
5:FE:104:LEU:HD13	5:FE:160:LEU:HG	2.02	0.41
5:FE:67:LYS:NZ	5:FE:109:THR:HB	2.36	0.41
1:F1:2543:C:H42	7:FG:54:SER:HB3	1.86	0.41
7:FG:21:GLY:CA	7:FG:94:ASP:O	2.69	0.41
8:FH:54:LYS:HD3	8:FH:110:PRO:CG	2.46	0.41
9:FJ:188:ARG:O	9:FJ:188:ARG:HG3	2.21	0.41
14:FO:102:GLY:O	14:FO:105:GLN:N	2.54	0.41
20:G2:87:C:O2'	20:G2:88:G:C5'	2.69	0.41
22:GA:119:GLU:CA	22:GA:127:PHE:HE1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:GB:128:LYS:HD3	23:GB:128:LYS:HA	1.81	0.41
23:GB:68:ASN:O	23:GB:70:LYS:HG3	2.21	0.41
24:GC:240:ARG:HB2	1:H1:719:C:H1'	2.03	0.41
24:GC:298:ILE:O	24:GC:304:VAL:CG2	2.68	0.41
21:G3:54:A:O2'	25:GD:152:GLN:NE2	2.54	0.41
26:GE:110:ILE:HD12	26:GE:159:ILE:HD11	2.02	0.41
27:GF:170:PHE:CE1	27:GF:216:ASN:OD1	2.74	0.41
29:GH:213:ARG:HA	29:GH:213:ARG:HD2	1.89	0.41
29:GH:46:PHE:CZ	29:GH:84:ALA:HA	2.55	0.41
29:GH:92:HIS:HB2	29:GH:94:TRP:NE1	2.36	0.41
30:GI:79:PHE:CD2	30:GI:103:ILE:HD13	2.51	0.41
30:GI:196:PHE:CD1	30:GI:196:PHE:O	2.74	0.41
33:GL:120:TRP:CE2	33:GL:122:GLY:CA	3.01	0.41
21:G3:45:U:H5'	34:GM:154:THR:HG21	2.02	0.41
34:GM:88:VAL:CG1	34:GM:246:LEU:HD21	2.51	0.41
36:GO:133:LYS:CG	36:GO:134:ASN:H	2.26	0.41
38:GQ:56:ARG:HH12	1:H1:2347:A:H5'	1.84	0.41
43:GV:184:GLU:O	43:GV:188:VAL:HA	2.21	0.41
45:GX:79:ARG:HH12	1:H1:1448:G:C1'	2.33	0.41
1:H1:1045:G:N3	1:H1:1046:G:C8	2.89	0.41
1:H1:1052:A:C2	1:H1:1053:A:C6	3.09	0.41
1:H1:1054:G:C2'	1:H1:1055:A:O5'	2.68	0.41
1:H1:1165:U:H2'	1:H1:1166:G:O4'	2.20	0.41
1:H1:116:U:C4	1:H1:117:G:C5	3.09	0.41
1:H1:1495:C:O2	1:H1:1535:A:C2	2.74	0.41
1:H1:121:A:H61	1:H1:150:A:N6	2.18	0.41
1:H1:1594:C:N4	1:H1:1595:A:N7	2.69	0.41
1:H1:206:G:N3	1:H1:206:G:H2'	2.36	0.41
1:H1:2119:G:C2'	1:H1:2120:U:H5'	2.51	0.41
1:H1:2153:G:H5'	1:H1:2173:A:N6	2.35	0.41
1:H1:2313:U:C4	1:H1:2314:U:C4	3.08	0.41
1:H1:2378:A:H2'	1:H1:2379:A:C8	2.56	0.41
1:H1:2387:C:H5''	1:H1:2388:G:OP2	2.21	0.41
22:GA:71:LYS:CE	1:H1:2517:G:O6	2.68	0.41
1:H1:56:G:N2	1:H1:58:A:N3	2.68	0.41
1:H1:567:C:N4	1:H1:603:A:C2	2.89	0.41
1:H1:807:G:H2'	1:H1:808:A:O4'	2.21	0.41
1:H1:909:A:OP2	2:HA:4:GLY:HA3	2.21	0.41
4:HC:16:ASN:O	4:HC:16:ASN:CG	2.60	0.41
5:HE:7:GLY:C	5:HE:9:ASN:N	2.75	0.41
6:HF:25:ALA:HB1	6:HF:38:ILE:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:HH:15:TRP:CZ3	8:HH:105:ARG:CZ	3.03	0.41
9:HJ:53:ILE:HD13	9:HJ:63:THR:HG23	2.03	0.41
11:HL:83:CYS:O	11:HL:87:VAL:HG23	2.20	0.41
12:HM:15:LEU:HG	12:HM:17:PHE:CE2	2.56	0.41
14:HO:58:ILE:O	14:HO:83:VAL:HG22	2.21	0.41
1:H1:1776:G:N7	15:HP:34:LYS:HD2	2.36	0.41
17:HT:50:ASP:HB3	17:HT:53:ILE:HD12	2.02	0.41
19:HX:93:LEU:O	19:HX:103:ASN:HA	2.21	0.41
19:HX:16:MET:CE	19:HX:18:VAL:CG2	2.93	0.41
1:A1:1017:U:C2'	1:A1:1018:A:O5'	2.69	0.40
1:A1:1019:G:N3	1:A1:2626:A:H2'	2.36	0.40
1:A1:1142:G:H3'	1:A1:1142:G:H8	1.86	0.40
1:A1:1460:G:P	50:A1:3957:HOH:O	2.63	0.40
1:A1:1549:U:H3	39:BR:83:LYS:HZ1	1.61	0.40
1:A1:1662:A:H5'	11:AL:76:ARG:CZ	2.42	0.40
1:A1:1734:A:OP1	13:AN:79:HIS:HE1	2.03	0.40
1:A1:20:G:C4	1:A1:21:A:C8	3.09	0.40
1:A1:2212:U:H2'	1:A1:2213:G:H8	1.85	0.40
1:A1:2352:A:H4'	38:BQ:139:ASN:OD1	2.21	0.40
1:A1:2633:C:HO2'	29:BH:116:ARG:C	2.24	0.40
1:A1:2650:U:H2'	1:A1:2651:A:H8	1.86	0.40
1:A1:2910:G:H1'	1:A1:2939:G:N3	2.37	0.40
1:A1:2961:G:H3'	1:A1:2962:U:H5''	2.01	0.40
1:A1:3017:G:H2'	1:A1:3018:A:C8	2.56	0.40
1:A1:307:A:C2	1:A1:2770:U:O2	2.74	0.40
1:A1:3123:A:OP2	50:A1:4649:HOH:O	2.22	0.40
1:A1:3308:A:C2	1:A1:3309:U:N3	2.89	0.40
1:A1:517:A:C4'	1:A1:518:G:OP2	2.60	0.40
1:A1:559:G:C6	1:A1:609:A:C6	3.10	0.40
1:A1:574:G:H2'	1:A1:575:A:H8	1.86	0.40
1:A1:583:G:C4	1:A1:585:A:OP2	2.74	0.40
1:A1:585:A:N6	1:A1:586:A:C6	2.90	0.40
1:A1:56:G:N2	1:A1:58:A:N3	2.69	0.40
1:A1:573:A:C6	1:A1:596:A:N7	2.88	0.40
1:A1:696:A:C2'	1:A1:697:A:C5'	2.85	0.40
1:A1:818:U:H2'	1:A1:819:U:C6	2.56	0.40
2:AA:21:ARG:CZ	2:AA:44:MET:CE	2.99	0.40
3:AB:33:THR:HG22	3:AB:35:ILE:N	2.04	0.40
5:AE:122:ALA:HB3	5:AE:132:ALA:HB1	2.04	0.40
5:AE:78:GLY:O	5:AE:79:PRO:C	2.56	0.40
6:AF:25:ALA:HB1	6:AF:38:ILE:HG23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:79:PHE:O	6:AF:80:ASP:HB2	2.20	0.40
6:AF:85:TYR:CE2	6:AF:91:ALA:HB2	2.55	0.40
7:AG:38:THR:HG22	7:AG:93:LEU:CD2	2.39	0.40
8:AH:45:LYS:HG2	8:AH:45:LYS:H	1.67	0.40
18:AU:183:GLN:O	18:AU:187:ASN:ND2	2.54	0.40
18:AU:74:THR:O	18:AU:77:GLU:N	2.53	0.40
19:AX:64:LYS:HA	19:AX:64:LYS:HD3	1.88	0.40
23:BB:216:LEU:HD23	23:BB:274:THR:HA	2.02	0.40
23:BB:376:LYS:HZ3	9:DJ:44:PRO:CG	2.28	0.40
24:BC:37:ILE:O	24:BC:41:VAL:HG23	2.21	0.40
26:BE:31:LEU:HA	26:BE:31:LEU:HD23	1.91	0.40
29:BH:46:PHE:CZ	29:BH:84:ALA:HA	2.55	0.40
30:BI:106:GLY:N	30:BI:152:ILE:HD11	2.36	0.40
30:BI:40:ILE:HG22	30:BI:41:ASN:N	2.37	0.40
1:A1:1064:C:P	34:BM:5:LYS:HD3	2.61	0.40
1:A1:768:A:O4'	35:BN:141:ARG:HD3	2.20	0.40
35:BN:147:GLU:O	35:BN:148:ALA:C	2.57	0.40
36:BO:131:LEU:HB2	36:BO:132:TYR:CE1	2.56	0.40
37:BP:74:VAL:HG12	37:BP:75:ILE:H	1.79	0.40
38:BQ:59:CYS:HB3	38:BQ:74:GLN:CB	2.50	0.40
39:BR:94:VAL:HG12	39:BR:95:HIS:N	2.36	0.40
24:BC:203:ASN:ND2	40:BS:10:ALA:HA	2.35	0.40
20:C2:105:A:H1'	1:D1:20:G:H1'	2.02	0.40
23:CB:130:PHE:O	23:CB:134:GLU:HG3	2.22	0.40
23:CB:157:ARG:HG2	23:CB:180:GLN:CA	2.47	0.40
24:CC:194:LEU:HA	24:CC:194:LEU:HD23	1.62	0.40
26:CE:94:PHE:CD1	26:CE:98:PRO:HA	2.55	0.40
27:CF:92:TYR:HE1	27:CF:200:ASP:OD2	2.04	0.40
29:CH:77:ILE:CG1	29:CH:78:LYS:N	2.82	0.40
30:CI:48:ARG:HE	30:CI:48:ARG:HB2	1.69	0.40
30:CI:90:LYS:HG2	1:D1:2378:A:C6	2.56	0.40
33:CL:180:ARG:NH2	1:D1:301:A:H4'	2.36	0.40
34:CM:76:CYS:HB3	34:CM:105:LEU:HD12	2.03	0.40
35:CN:173:LYS:HE3	1:D1:86:A:P	2.61	0.40
41:CT:35:THR:HG22	41:CT:36:LYS:N	2.36	0.40
45:CX:88:LEU:HA	45:CX:88:LEU:HD12	1.78	0.40
1:D1:1112:A:N6	1:D1:1113:A:N6	2.69	0.40
1:D1:1184:U:C6	1:D1:1184:U:H5'	2.36	0.40
1:D1:1319:C:H2'	1:D1:1320:U:C6	2.48	0.40
1:D1:1373:G:C4	1:D1:1374:C:C5	3.09	0.40
1:D1:651:U:H5'	1:D1:1425:U:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:146:U:C5'	1:D1:146:U:H6	2.33	0.40
1:D1:1515:A:C4	1:D1:1516:A:C8	3.08	0.40
1:D1:1581:C:O2'	1:D1:1582:A:OP1	2.30	0.40
1:D1:1820:U:C4'	1:D1:1821:U:OP2	2.69	0.40
1:D1:1868:C:H2'	1:D1:1869:G:O5'	2.21	0.40
1:D1:1922:G:H2'	1:D1:1923:G:C5'	2.50	0.40
1:D1:1937:G:O2'	1:D1:2116:A:H1'	2.21	0.40
30:CI:81:ARG:NH2	1:D1:2378:A:P	2.93	0.40
1:D1:270:C:H2'	1:D1:271:G:O5'	2.21	0.40
1:D1:3129:G:H8	1:D1:3129:G:O5'	2.04	0.40
1:D1:3227:A:O2'	5:DE:86:PRO:CG	2.68	0.40
1:D1:363:G:H5''	1:D1:363:G:H8	1.85	0.40
1:D1:559:G:HO2'	1:D1:560:A:H5'	1.85	0.40
1:D1:603:A:H2'	1:D1:604:A:H8	1.85	0.40
1:D1:634:G:C2'	1:D1:635:A:OP2	2.69	0.40
4:DC:9:LYS:HA	4:DC:19:THR:O	2.20	0.40
6:DF:109:PHE:O	6:DF:113:VAL:HG23	2.21	0.40
6:DF:93:LYS:O	6:DF:97:LYS:HG2	2.20	0.40
9:DJ:67:LYS:HE2	9:DJ:112:ASP:HB3	2.03	0.40
14:DO:111:LEU:O	14:DO:112:VAL:C	2.59	0.40
14:DO:36:THR:O	14:DO:37:GLN:C	2.59	0.40
1:D1:2252:C:C5'	22:EA:177:ASP:OD2	2.68	0.40
22:EA:210:HIS:NE2	22:EA:236:VAL:HG11	2.36	0.40
23:EB:250:ILE:HG13	23:EB:264:ARG:NH2	2.22	0.40
23:EB:281:TYR:HB3	23:EB:321:MET:HE3	2.03	0.40
24:EC:126:ARG:NE	24:EC:280:LYS:HD2	2.35	0.40
24:EC:314:THR:HG21	1:F1:1372:A:N3	2.36	0.40
25:ED:117:ASP:H	25:ED:120:THR:HB	1.83	0.40
25:ED:23:VAL:HG23	25:ED:25:GLU:N	2.36	0.40
25:ED:29:LYS:HG2	25:ED:32:LYS:HD2	2.02	0.40
25:ED:60:LYS:O	25:ED:63:GLU:CB	2.68	0.40
26:EE:97:PHE:HB3	26:EE:114:HIS:HD2	1.86	0.40
26:EE:168:LYS:HB2	26:EE:173:PHE:CD2	2.56	0.40
27:EF:103:ARG:HG2	27:EF:104:LEU:N	2.29	0.40
29:EH:26:VAL:HA	29:EH:27:PRO:HD2	1.82	0.40
30:EI:17:ARG:O	30:EI:18:LEU:C	2.59	0.40
34:EM:163:LEU:HD21	34:EM:175:HIS:HB3	1.99	0.40
34:EM:125:VAL:HG23	34:EM:201:LYS:CE	2.51	0.40
35:EN:62:PRO:O	35:EN:142:ALA:CB	2.69	0.40
36:EO:110:ARG:HD2	36:EO:120:TYR:CD2	2.56	0.40
37:EP:19:TYR:HE1	37:EP:20:LYS:CE	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:EM:16:PHE:O	37:EP:20:LYS:HE2	2.21	0.40
43:EV:58:LYS:O	43:EV:62:GLU:HG2	2.22	0.40
43:EV:206:THR:HG23	1:F1:1195:U:H1'	2.03	0.40
1:F1:1239:G:N3	19:FX:128:HIS:CE1	2.85	0.40
1:F1:1434:G:O2'	1:F1:1435:C:H5''	2.21	0.40
1:F1:1902:C:O2	1:F1:1902:C:C2'	2.68	0.40
1:F1:1969:G:H2'	1:F1:1970:A:H8	1.85	0.40
1:F1:2185:U:C4	1:F1:2186:U:C4	3.08	0.40
1:F1:2345:C:O2'	1:F1:2346:U:H5'	2.21	0.40
1:F1:2347:A:C6	1:F1:2348:G:C5	3.09	0.40
1:F1:292:C:OP1	1:F1:2427:U:C5'	2.69	0.40
1:F1:243:G:H2'	1:F1:244:C:H6	1.85	0.40
1:F1:2561:A:C2	1:F1:2563:U:C4	3.09	0.40
1:F1:2576:C:C6	1:F1:2576:C:H5''	2.45	0.40
1:F1:2576:C:H6	1:F1:2576:C:H5'	1.78	0.40
1:F1:2588:U:H2'	1:F1:2589:U:H6	1.86	0.40
1:F1:2594:G:H2'	1:F1:2596:G:O6	2.20	0.40
1:F1:2968:U:O5'	1:F1:2968:U:H6	2.04	0.40
1:F1:2994:G:C2'	1:F1:2995:A:OP2	2.69	0.40
1:F1:3008:U:H2'	1:F1:3009:U:C6	2.57	0.40
1:F1:436:U:H2'	1:F1:437:A:H5'	2.02	0.40
1:F1:526:U:OP1	5:FE:10:ARG:HB2	2.21	0.40
1:F1:440:C:N4	1:F1:538:A:H2	2.19	0.40
1:F1:631:G:C5	5:FE:31:ARG:NH2	2.89	0.40
1:F1:73:G:C5'	18:FU:56:VAL:HG11	2.51	0.40
1:F1:748:G:C8	50:F1:3854:HOH:O	2.58	0.40
3:FB:6:THR:HG22	3:FB:8:ASN:H	1.86	0.40
5:FE:90:VAL:HG13	5:FE:91:ASN:N	2.36	0.40
7:FG:52:ARG:O	7:FG:56:ILE:HG13	2.21	0.40
8:FH:18:ALA:HB2	8:FH:39:LEU:HD22	2.02	0.40
9:FJ:158:GLY:CA	9:FJ:179:ILE:HD12	2.52	0.40
11:FL:60:ARG:HA	11:FL:61:PRO:HD3	1.85	0.40
5:FE:18:TRP:CB	14:FO:95:ARG:HH21	2.33	0.40
1:F1:315:U:C5	16:FQ:28:VAL:HG12	2.56	0.40
20:G2:48:C:OP1	3:HB:12:ARG:HD3	2.20	0.40
20:G2:82:A:O2'	42:GU:50:ILE:HD11	2.20	0.40
21:G3:32:A:C2	21:G3:41:G:C5	3.09	0.40
21:G3:45:U:OP1	34:GM:151:VAL:HG13	2.20	0.40
22:BA:256:ALA:CB	22:GA:253:GLU:OE2	2.69	0.40
22:GA:42:ILE:HD12	22:GA:42:ILE:C	2.40	0.40
24:GC:272:THR:O	24:GC:275:THR:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:GC:81:ILE:HD13	24:GC:101:CYS:SG	2.61	0.40
27:GF:243:LYS:O	27:GF:247:GLU:HG3	2.21	0.40
28:GG:5:UNK:C	28:GG:7:UNK:N	2.81	0.40
30:GI:130:ASN:HD21	19:HX:167:LYS:HE3	1.86	0.40
30:GI:9:ASP:O	30:GI:13:HIS:NE2	2.54	0.40
30:GI:155:LEU:HD13	1:H1:3205:A:C8	2.56	0.40
30:GI:50:ARG:O	30:GI:54:SER:HB2	2.22	0.40
33:GL:20:SER:HB2	33:GL:24:ARG:HH21	1.87	0.40
34:GM:166:ALA:HB1	34:GM:171:ILE:CD1	2.50	0.40
34:GM:213:MET:HB3	34:GM:224:PHE:CE1	2.44	0.40
34:GM:40:ASP:C	34:GM:42:ASP:N	2.74	0.40
36:GO:106:LEU:HD11	36:GO:123:PHE:HB3	2.03	0.40
36:GO:9:ARG:O	36:GO:12:ALA:HB3	2.22	0.40
37:GP:100:ASN:ND2	1:H1:1017:U:OP1	2.54	0.40
37:GP:101:VAL:HG22	1:H1:1016:U:H1'	2.02	0.40
40:GS:31:SER:CB	40:GS:48:PRO:HA	2.51	0.40
42:GU:21:GLU:HG2	42:GU:58:TYR:CE2	2.56	0.40
42:GU:81:PRO:CD	42:GU:84:ILE:HD12	2.49	0.40
43:GV:189:GLY:HA3	43:GV:190:PRO:HD2	1.78	0.40
44:GW:97:VAL:HG12	44:GW:98:ASP:N	2.36	0.40
1:H1:1107:A:C4	1:H1:1108:A:C8	3.09	0.40
1:H1:1175:G:H2'	1:H1:1176:G:C5'	2.51	0.40
1:H1:1179:G:H8	1:H1:1179:G:P	2.44	0.40
1:H1:1222:A:C2	1:H1:1336:U:C4	3.09	0.40
1:H1:1876:G:N3	2:HA:9:GLY:CA	2.84	0.40
1:H1:1925:A:H5''	1:H1:1926:G:OP2	2.21	0.40
1:H1:20:G:C4	1:H1:21:A:C8	3.09	0.40
1:H1:2255:U:C2'	1:H1:2256:G:O5'	2.69	0.40
1:H1:2275:A:OP1	50:H1:4204:HOH:O	2.21	0.40
1:H1:2279:C:O2	1:H1:2279:C:H2'	2.20	0.40
1:H1:418:G:N2	1:H1:2360:C:H1'	2.35	0.40
1:H1:2509:U:O2'	1:H1:2510:A:H8	2.03	0.40
1:H1:2773:A:O2'	4:HC:39:ARG:NH2	2.54	0.40
1:H1:2914:A:O2'	1:H1:2915:C:H5'	2.21	0.40
1:H1:3047:U:C3'	1:H1:3047:U:C6	3.03	0.40
1:H1:3103:A:H2'	1:H1:3104:G:N7	2.36	0.40
1:H1:452:U:O2'	1:H1:453:A:O5'	2.37	0.40
1:H1:732:C:H1'	1:H1:778:G:H1'	2.03	0.40
1:H1:807:G:H2'	1:H1:808:A:C8	2.57	0.40
20:G2:96:A:C2	2:HA:85:ALA:HA	2.56	0.40
3:HB:51:ILE:O	3:HB:52:TYR:CD1	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:HE:41:LEU:CB	5:HE:45:ILE:HG21	2.35	0.40
5:HE:90:VAL:CG1	5:HE:91:ASN:N	2.84	0.40
6:HF:93:LYS:O	6:HF:97:LYS:HG2	2.21	0.40
9:HJ:111:ASN:HB3	9:HJ:154:ILE:HG22	2.03	0.40
9:HJ:12:ASP:C	9:HJ:14:GLY:N	2.73	0.40
11:HL:59:VAL:HG12	11:HL:63:GLU:HB3	1.98	0.40
1:H1:1659:G:O6	13:HN:17:ARG:HB3	2.21	0.40
14:HO:102:GLY:O	14:HO:105:GLN:N	2.54	0.40
14:HO:91:ALA:O	14:HO:95:ARG:HG3	2.21	0.40
16:HQ:59:ILE:CG2	16:HQ:63:LYS:HE3	2.51	0.40
1:A1:1034:U:C2'	1:A1:1035:A:H5''	2.51	0.40
1:A1:1038:G:C2	1:A1:1039:G:C4	3.09	0.40
1:A1:1110:U:O2	1:A1:1110:U:H2'	2.20	0.40
1:A1:1201:G:H2'	1:A1:1202:C:C6	2.56	0.40
1:A1:1868:C:H2'	1:A1:1869:G:O5'	2.21	0.40
1:A1:1926:G:C2	1:A1:1927:U:H1'	2.56	0.40
1:A1:2242:G:C6	1:A1:2243:C:C4	3.08	0.40
1:A1:2727:A:O4'	17:AT:37:PRO:CD	2.68	0.40
1:A1:2729:A:H2'	1:A1:2730:C:H6	1.86	0.40
1:A1:2688:G:H1	1:A1:2744:C:H42	1.68	0.40
1:A1:2915:C:H2'	1:A1:2916:C:C6	2.55	0.40
1:A1:2926:G:C2'	1:A1:2927:G:H5'	2.52	0.40
1:A1:3029:A:H2'	1:A1:3030:A:H8	1.84	0.40
1:A1:310:U:H2'	1:A1:311:C:H6	1.86	0.40
1:A1:3175:A:H5'	1:A1:3176:A:OP2	2.21	0.40
1:A1:3298:U:H1'	1:A1:3299:G:OP1	2.20	0.40
1:A1:514:U:O2'	1:A1:515:A:H5'	2.20	0.40
1:A1:567:C:C4	1:A1:603:A:N1	2.89	0.40
1:A1:654:U:O2'	8:AH:98:GLN:NE2	2.54	0.40
1:A1:80:C:C2'	1:A1:81:C:O5'	2.69	0.40
1:A1:643:A:C2'	5:AE:131:LYS:HE2	2.50	0.40
5:AE:73:LEU:H	5:AE:73:LEU:HG	1.61	0.40
6:AF:39:ASP:HB3	6:AF:72:LEU:HD22	2.04	0.40
9:AJ:111:ASN:HD22	9:AJ:156:ASN:HA	1.85	0.40
9:AJ:42:LEU:HD21	9:AJ:205:PHE:HE1	1.84	0.40
16:AQ:46:ARG:HD2	16:AQ:46:ARG:HA	1.89	0.40
18:AU:150:LEU:HA	18:AU:150:LEU:HD23	1.86	0.40
21:B3:1:G:OP1	34:BM:275:LYS:NZ	2.42	0.40
22:BA:41:TYR:CD1	22:BA:41:TYR:N	2.88	0.40
24:BC:163:VAL:HG12	24:BC:223:LEU:HG	2.03	0.40
24:BC:369:HIS:O	24:BC:372:GLY:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BD:117:ASP:H	25:BD:120:THR:HB	1.85	0.40
27:BF:69:GLN:CG	27:BF:222:ARG:HH12	2.34	0.40
28:BG:123:UNK:O	28:BG:123:UNK:HG2	2.21	0.40
1:A1:1249:G:H5''	28:BG:60:UNK:HG1	2.03	0.40
30:BI:59:LYS:O	30:BI:71:HIS:CE1	2.74	0.40
32:BK:53:GLY:CA	35:BN:177:ALA:O	2.69	0.40
21:B3:22:A:C6	34:BM:274:HIS:CG	3.09	0.40
34:BM:80:SER:OG	34:BM:92:LEU:HB3	2.21	0.40
38:BQ:8:ARG:NH1	38:BQ:118:HIS:HB2	2.10	0.40
38:BQ:133:ARG:HG3	38:BQ:133:ARG:NH1	2.35	0.40
1:A1:1473:G:O6	38:BQ:27:HIS:ND1	2.54	0.40
1:A1:1365:C:H4'	45:BX:62:ASP:HB3	2.02	0.40
20:C2:119:A:C2	20:C2:133:U:O2	2.73	0.40
20:C2:5:A:C2'	20:C2:6:A:H5'	2.52	0.40
20:C2:75:A:C2	20:C2:83:A:N1	2.89	0.40
21:C3:51:G:C6	21:C3:52:U:C4	3.09	0.40
24:CC:107:PHE:HB2	1:D1:684:A:H5'	2.04	0.40
24:CC:9:VAL:O	24:CC:19:THR:HB	2.21	0.40
24:CC:242:ASN:C	24:CC:244:LEU:H	2.25	0.40
24:CC:6:GLN:CG	1:D1:471:A:H4'	2.52	0.40
25:CD:9:MET:O	25:CD:134:PRO:HD3	2.21	0.40
29:CH:191:VAL:HB	29:CH:198:LYS:HB2	2.03	0.40
29:CH:17:TYR:CZ	29:CH:23:ASN:OD1	2.73	0.40
32:CK:131:SER:O	32:CK:132:LYS:C	2.58	0.40
32:CK:132:LYS:HE2	18:DU:178:TYR:OH	2.20	0.40
34:CM:247:PHE:O	34:CM:251:HIS:CD2	2.74	0.40
34:CM:60:ILE:HD12	34:CM:98:ALA:N	2.35	0.40
47:CO:28:GLU:CB	47:CO:49:LEU:HD13	2.50	0.40
37:CP:102:LYS:HD3	37:CP:102:LYS:HA	1.60	0.40
37:CP:15:PHE:CE2	37:CP:52:MET:CE	3.04	0.40
37:CP:70:ARG:HB2	1:D1:2726:C:OP1	2.20	0.40
40:CS:21:SER:HA	40:CS:22:PRO:HD3	1.84	0.40
43:CV:98:ARG:NH1	43:CV:101:ARG:NH1	2.69	0.40
43:CV:108:LEU:O	43:CV:109:HIS:HB2	2.21	0.40
44:CW:7:LYS:H	44:CW:76:LYS:HB3	1.85	0.40
1:D1:1181:A:C5'	1:D1:1182:C:OP2	2.69	0.40
1:D1:1201:G:H2'	1:D1:1202:C:C6	2.56	0.40
1:D1:1196:A:C6	1:D1:1357:A:N7	2.89	0.40
27:CF:185:LYS:NZ	1:D1:146:U:H2'	2.36	0.40
1:D1:1616:G:H4'	1:D1:1680:A:OP1	2.21	0.40
1:D1:1617:G:H4'	1:D1:1618:A:OP1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:1824:A:H2'	1:D1:1825:A:C8	2.56	0.40
1:D1:1883:A:O4'	11:DL:2:ALA:HB2	2.21	0.40
1:D1:196:G:H21	1:D1:219:A:H62	1.70	0.40
40:CS:59:ARG:HH11	1:D1:200:C:P	2.44	0.40
22:CA:175:ARG:NH2	1:D1:2175:A:OP1	2.51	0.40
1:D1:2312:A:C2'	1:D1:2313:U:O5'	2.69	0.40
1:D1:2392:A:H8	1:D1:2929:A:N1	2.19	0.40
1:D1:2651:A:C5	50:D1:5039:HOH:O	2.64	0.40
1:D1:2915:C:H2'	1:D1:2916:C:H6	1.86	0.40
1:D1:2920:U:H1'	1:D1:2923:U:C4	2.56	0.40
1:D1:3283:C:H2'	1:D1:3284:G:C8	2.56	0.40
1:D1:3308:A:H2'	1:D1:3309:U:C6	2.56	0.40
1:D1:545:A:H4'	5:DE:91:ASN:ND2	2.37	0.40
1:D1:579:G:O2'	19:DX:158:ASN:HA	2.21	0.40
1:D1:652:U:H2'	1:D1:653:C:H6	1.86	0.40
1:D1:876:C:C2	1:D1:877:U:C5	3.09	0.40
47:CO:95:TRP:CE3	1:D1:880:U:H4'	2.55	0.40
1:D1:238:G:H5'	2:DA:86:ALA:HB3	2.02	0.40
5:DE:142:GLU:OE1	5:DE:145:ARG:HD2	2.21	0.40
7:DG:64:GLN:HA	7:DG:64:GLN:OE1	2.21	0.40
9:DJ:23:TYR:CA	9:DJ:46:ILE:CG2	2.90	0.40
9:DJ:78:ASP:OD1	9:DJ:96:ARG:NH2	2.54	0.40
11:DL:20:VAL:CG1	11:DL:21:ARG:N	2.84	0.40
14:DO:15:PHE:O	14:DO:25:THR:HA	2.22	0.40
16:DQ:47:GLU:HA	16:DQ:47:GLU:OE1	2.21	0.40
35:CN:168:ARG:NH1	18:DU:9:VAL:HG22	2.35	0.40
20:E2:105:A:H5'	20:E2:106:A:P	2.61	0.40
20:E2:18:G:H1'	1:F1:406:A:N6	2.32	0.40
20:E2:30:U:H2'	20:E2:31:C:C6	2.56	0.40
22:EA:35:PHE:O	22:EA:38:ARG:HG3	2.21	0.40
22:EA:70:TYR:CD2	1:F1:1674:C:O4'	2.74	0.40
23:EB:24:HIS:CE1	23:EB:28:ARG:CD	3.00	0.40
23:EB:49:PHE:N	23:EB:49:PHE:CD1	2.88	0.40
25:ED:124:GLY:HA3	1:F1:2663:A:N3	2.35	0.40
30:EI:132:ARG:HB3	30:EI:133:PRO:HD2	2.03	0.40
33:EL:159:ARG:HB2	33:EL:164:LEU:HB2	2.03	0.40
34:EM:153:THR:O	34:EM:153:THR:CG2	2.68	0.40
36:EO:74:ARG:HB3	1:F1:1965:C:OP2	2.22	0.40
37:EP:11:THR:HG23	37:EP:15:PHE:CG	2.56	0.40
37:EP:23:GLY:HA3	1:F1:2691:A:OP1	2.20	0.40
39:ER:52:SER:CB	39:ER:58:HIS:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:ES:30:MET:HB3	40:ES:30:MET:HE2	1.82	0.40
40:ES:33:HIS:NE2	40:ES:39:ARG:NH2	2.69	0.40
42:EU:29:LEU:HD23	42:EU:29:LEU:HA	1.88	0.40
42:EU:25:LEU:HB3	42:EU:55:ILE:HG12	2.03	0.40
1:F1:1078:U:C4	1:F1:1079:A:C5	3.09	0.40
1:F1:1112:A:N6	1:F1:1113:A:N6	2.68	0.40
1:F1:1172:G:C5	1:F1:1173:A:N7	2.89	0.40
1:F1:1423:A:C2'	1:F1:1424:U:O5'	2.69	0.40
1:F1:1433:A:H3'	1:F1:1434:G:O4'	2.22	0.40
1:F1:1551:C:C4	1:F1:1552:U:O4	2.74	0.40
1:F1:1595:A:H2'	1:F1:1596:U:O4'	2.21	0.40
1:F1:1635:U:H2'	1:F1:1636:C:H6	1.86	0.40
1:F1:1766:A:C4	1:F1:1768:G:C8	3.09	0.40
1:F1:1771:U:O2'	1:F1:1772:G:H5'	2.21	0.40
1:F1:1642:G:C2	1:F1:1852:A:C2	3.09	0.40
1:F1:2208:A:C5	1:F1:2227:A:C6	3.09	0.40
1:F1:2244:G:C4	1:F1:2245:G:N7	2.90	0.40
37:EP:3:HIS:NE2	1:F1:2620:U:O4	2.47	0.40
1:F1:2673:C:H2'	1:F1:2674:A:H8	1.86	0.40
1:F1:3110:U:H4'	1:F1:3111:A:H5'	2.03	0.40
1:F1:3146:G:C6	1:F1:3248:C:N4	2.89	0.40
1:F1:3156:A:H4'	1:F1:3159:A:C5	2.56	0.40
1:F1:3277:A:C4	1:F1:3279:G:C8	3.09	0.40
1:F1:3278:U:H4'	1:F1:3279:G:OP2	2.21	0.40
1:F1:435:A:H1'	1:F1:1427:G:O2'	2.21	0.40
1:F1:579:G:H1	19:FX:109:ARG:HH22	1.70	0.40
1:F1:615:G:C2	1:F1:616:A:C4	3.09	0.40
1:F1:880:U:C4	1:F1:881:G:C6	3.09	0.40
2:FA:5:THR:N	2:FA:6:PRO:CD	2.84	0.40
4:FC:14:LYS:HB2	4:FC:75:CYS:SG	2.61	0.40
6:FF:27:ILE:CD1	6:FF:36:ILE:HD12	2.50	0.40
7:FG:38:THR:HG22	7:FG:38:THR:O	2.20	0.40
31:EJ:124:LYS:HE2	9:FJ:75:THR:HG23	2.03	0.40
18:FU:131:ALA:H	18:FU:136:VAL:HB	1.87	0.40
6:FF:45:ARG:HH11	19:FX:84:ASN:HB3	1.83	0.40
20:G2:118:G:H2'	20:G2:119:A:H8	1.86	0.40
21:G3:71:G:H2'	21:G3:72:U:H6	1.86	0.40
22:GA:30:TYR:HE1	22:GA:102:VAL:CG2	2.34	0.40
23:GB:226:GLY:HA3	1:H1:1911:A:O3'	2.21	0.40
24:GC:166:TYR:CE1	24:GC:171:GLN:HB2	2.57	0.40
24:GC:336:ALA:HB2	43:GV:45:ALA:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:GD:60:LYS:O	25:GD:63:GLU:HB3	2.21	0.40
27:GF:183:VAL:O	27:GF:184:ASN:HB2	2.21	0.40
34:GM:105:LEU:HD12	34:GM:105:LEU:HA	1.80	0.40
38:GQ:134:ALA:HB2	1:H1:905:G:H5''	1.94	0.40
38:GQ:4:THR:HG21	38:GQ:6:TYR:CZ	2.57	0.40
20:G2:15:G:C1'	38:GQ:7:SER:HB3	2.51	0.40
38:GQ:87:VAL:HG12	38:GQ:88:LYS:N	2.35	0.40
39:GR:145:ASN:HD22	39:GR:150:ILE:HD11	1.86	0.40
43:GV:100:LEU:HA	43:GV:100:LEU:HD23	1.69	0.40
45:GX:79:ARG:NH1	1:H1:1448:G:O2'	2.53	0.40
37:GP:14:LYS:CE	1:H1:1020:G:OP1	2.64	0.40
1:H1:1074:A:H5''	1:H1:1075:C:O5'	2.20	0.40
1:H1:1240:G:O2'	1:H1:1241:U:H5'	2.21	0.40
1:H1:1173:A:H4'	1:H1:1358:U:C4	2.57	0.40
1:H1:1407:A:H2'	1:H1:1408:U:C6	2.56	0.40
1:H1:1445:G:C3'	1:H1:1446:C:H5''	2.51	0.40
1:H1:1461:A:N7	1:H1:1463:C:C2	2.89	0.40
1:H1:13:C:H2'	1:H1:14:A:C8	2.56	0.40
1:H1:1595:A:H2'	1:H1:1596:U:O4'	2.21	0.40
1:H1:1620:U:C2	1:H1:1621:G:C8	3.09	0.40
1:H1:1697:U:H2'	1:H1:1698:G:C8	2.56	0.40
1:H1:1837:A:H2'	1:H1:1838:C:C6	2.56	0.40
1:H1:191:U:O2	1:H1:191:U:H2'	2.20	0.40
1:H1:2149:U:O2'	1:H1:2150:U:H5''	2.21	0.40
1:H1:22:U:H4'	2:HA:60:GLN:OE1	2.21	0.40
1:H1:2576:C:H2'	1:H1:2577:G:C5'	2.34	0.40
1:H1:2678:A:H5'	1:H1:2679:G:C8	2.56	0.40
1:H1:2902:G:C6	1:H1:2903:U:C4	3.08	0.40
1:H1:296:G:P	1:H1:296:G:H8	2.44	0.40
1:H1:3099:C:C4	1:H1:3100:U:C4	3.09	0.40
1:H1:401:U:C2	1:H1:402:U:C6	3.09	0.40
1:H1:420:A:N1	1:H1:421:G:C2	2.89	0.40
1:H1:499:U:H3'	1:H1:500:G:H8	1.81	0.40
1:H1:779:A:C2	1:H1:780:C:C2	3.09	0.40
1:H1:788:C:C5	1:H1:790:C:C5	3.10	0.40
1:H1:838:G:H2'	1:H1:839:U:C6	2.56	0.40
1:H1:959:G:H5''	1:H1:960:U:OP2	2.20	0.40
5:HE:67:LYS:NZ	5:HE:109:THR:HB	2.37	0.40
5:HE:125:ASN:OD1	5:HE:125:ASN:C	2.59	0.40
5:HE:157:ASP:O	5:HE:161:LEU:HG	2.21	0.40
6:HF:31:ILE:O	6:HF:35:ARG:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:HG:21:GLY:CA	7:HG:94:ASP:O	2.68	0.40
1:H1:2546:A:O2'	11:HL:90:ARG:HD3	2.22	0.40
12:HM:51:ASN:C	12:HM:53:GLY:H	2.24	0.40
12:HM:82:THR:HG21	12:HM:97:VAL:HG21	2.04	0.40
16:HQ:46:ARG:NH2	16:HQ:51:PHE:CD2	2.87	0.40
18:HU:128:GLN:OE1	18:HU:128:GLN:HA	2.21	0.40
18:HU:172:LEU:H	18:HU:172:LEU:HG	1.72	0.40
18:HU:177:VAL:HA	18:HU:180:ILE:HD12	2.03	0.40
1:H1:3177:G:C2	19:HX:177:TYR:CE2	3.09	0.40
19:HX:8:GLU:CD	19:HX:19:ARG:HH11	2.23	0.40
1:A1:1183:C:O3'	43:BV:215:ARG:NH1	2.52	0.40
1:A1:1186:A:O2'	1:A1:1187:C:P	2.74	0.40
1:A1:1240:G:O2'	19:AX:104:MET:HG2	2.21	0.40
1:A1:1242:U:H2'	1:A1:1243:C:H6	1.86	0.40
1:A1:1402:G:H2'	1:A1:1403:C:H5'	2.02	0.40
1:A1:1599:G:C2	1:A1:1600:U:N1	2.89	0.40
1:A1:1602:U:O2'	1:A1:1603:U:H5'	2.21	0.40
1:A1:1972:G:N2	1:A1:1973:A:C8	2.90	0.40
1:A1:206:G:N3	1:A1:206:G:H2'	2.35	0.40
1:A1:2324:A:C6	1:A1:2325:C:C4	3.10	0.40
1:A1:2630:U:H5''	1:A1:2631:A:OP1	2.21	0.40
1:A1:2652:G:H5''	25:BD:142:ARG:NH1	2.36	0.40
1:A1:2678:A:H5'	1:A1:2679:G:C8	2.56	0.40
1:A1:2796:A:C8	1:A1:2943:U:H4'	2.55	0.40
1:A1:3064:A:O2'	1:A1:3065:C:H5'	2.22	0.40
1:A1:3308:A:C5	1:A1:3309:U:C4	3.10	0.40
1:A1:3341:C:H1'	44:BW:105:THR:CG2	2.52	0.40
1:A1:807:G:H2'	1:A1:808:A:O4'	2.22	0.40
2:AA:16:HIS:O	3:AB:52:TYR:HB3	2.21	0.40
1:A1:1519:G:H2'	3:AB:13:PHE:CD1	2.56	0.40
5:AE:104:LEU:HD13	5:AE:160:LEU:HG	2.03	0.40
6:AF:67:GLN:HE22	6:AF:75:LYS:HG3	1.86	0.40
8:AH:56:VAL:CG2	8:AH:106:VAL:HG22	2.51	0.40
9:AJ:129:ILE:O	9:AJ:133:LEU:HB2	2.22	0.40
12:AM:80:TYR:HD2	12:AM:81:LEU:HD23	1.86	0.40
1:A1:1773:G:OP1	15:AP:52:THR:HG21	2.21	0.40
1:A1:156:A:P	16:AQ:27:ALA:HB3	2.62	0.40
18:AU:81:ALA:CB	18:AU:114:LEU:HD13	2.51	0.40
20:B2:43:A:C8	20:B2:43:A:C3'	3.03	0.40
20:B2:71:G:H2'	20:B2:72:C:H6	1.85	0.40
22:BA:113:VAL:HG11	22:BA:169:ILE:HG13	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BA:253:GLU:O	22:BA:257:MET:HB2	2.22	0.40
23:BB:292:ALA:HB2	23:BB:302:ALA:C	2.42	0.40
23:BB:218:VAL:HB	23:BB:332:ARG:NE	2.36	0.40
24:BC:28:VAL:HG13	24:BC:270:PHE:CD2	2.56	0.40
25:BD:29:LYS:HG2	25:BD:32:LYS:HD2	2.03	0.40
29:BH:9:TYR:N	29:BH:9:TYR:CD1	2.89	0.40
30:BI:139:ASP:O	30:BI:142:ALA:HB3	2.22	0.40
34:BM:62:ALA:C	34:BM:105:LEU:HD22	2.42	0.40
34:BM:48:LYS:HE2	34:BM:145:ILE:HD11	2.03	0.40
35:BN:24:ASN:HD21	35:BN:27:HIS:HB2	1.85	0.40
35:BN:45:PHE:CZ	35:BN:49:ILE:HD11	2.56	0.40
37:BP:15:PHE:HE2	37:BP:52:MET:CE	2.35	0.40
3:AB:14:GLY:HA3	39:BR:124:ILE:O	2.22	0.40
40:BS:55:VAL:CG1	40:BS:103:LEU:HB3	2.50	0.40
41:BT:57:ARG:HD2	41:BT:61:TRP:CD1	2.56	0.40
43:BV:157:ARG:HG3	43:BV:200:TRP:CD1	2.56	0.40
43:BV:107:GLN:HE22	43:BV:203:LYS:HE2	1.85	0.40
46:BY:8:VAL:CG1	46:BY:12:ARG:N	2.85	0.40
21:C3:103:U:O5'	21:C3:103:U:H6	2.03	0.40
21:C3:104:C:H6	21:C3:104:C:O5'	2.04	0.40
22:CA:30:TYR:HE1	22:CA:102:VAL:CG2	2.34	0.40
23:CB:233:VAL:CG1	23:CB:234:LYS:N	2.84	0.40
24:CC:100:GLN:NE2	1:D1:828:C:HO2'	2.20	0.40
24:CC:258:TRP:HZ3	24:CC:266:LEU:HD21	1.87	0.40
24:CC:34:ARG:O	24:CC:38:VAL:HG23	2.22	0.40
24:CC:391:ALA:O	24:CC:392:ARG:C	2.59	0.40
24:CC:39:HIS:O	24:CC:40:LYS:C	2.59	0.40
30:CI:81:ARG:HH11	30:CI:81:ARG:CG	2.34	0.40
33:CL:129:PHE:CD1	33:CL:129:PHE:N	2.89	0.40
34:CM:6:VAL:O	34:CM:6:VAL:CG1	2.67	0.40
34:CM:82:GLU:O	34:CM:85:ARG:HB2	2.21	0.40
35:CN:140:LEU:HD12	35:CN:140:LEU:HA	1.85	0.40
35:CN:61:PHE:CD2	35:CN:144:LYS:HA	2.56	0.40
35:CN:92:ARG:NH2	1:D1:810:G:H8	2.19	0.40
40:CS:58:VAL:HG12	40:CS:59:ARG:CG	2.49	0.40
40:CS:70:THR:N	40:CS:80:HIS:O	2.52	0.40
1:D1:1191:G:O6	1:D1:1363:A:N6	2.54	0.40
1:D1:1217:A:H5'	1:D1:1218:U:OP1	2.22	0.40
1:D1:1241:U:H2'	1:D1:1242:U:H6	1.85	0.40
1:D1:1314:A:H2'	1:D1:1315:U:H6	1.85	0.40
45:CX:62:ASP:CB	1:D1:1365:C:H4'	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CW:63:ILE:HG13	1:D1:1482:A:C6	2.55	0.40
1:D1:1551:C:C4	1:D1:1552:U:O4	2.74	0.40
1:D1:1725:A:H2'	1:D1:1726:C:O5'	2.21	0.40
1:D1:1775:A:C8	1:D1:1777:A:C8	3.09	0.40
1:D1:2347:A:C6	1:D1:2348:G:C5	3.09	0.40
27:CF:35:ILE:HD12	1:D1:2549:U:H5'	2.03	0.40
25:CD:99:THR:OG1	1:D1:2673:C:H1'	2.22	0.40
1:D1:2:U:H6	1:D1:2:U:O5'	2.04	0.40
1:D1:3263:G:C4'	1:D1:3264:U:O5'	2.68	0.40
1:D1:3286:G:H2'	1:D1:3287:U:O5'	2.20	0.40
1:D1:440:C:N4	1:D1:538:A:H2	2.19	0.40
1:D1:495:U:H2'	1:D1:496:C:C6	2.56	0.40
1:D1:527:A:C3'	1:D1:528:C:H5''	2.50	0.40
1:D1:707:A:H2'	1:D1:708:G:O4'	2.21	0.40
1:D1:79:C:H2'	1:D1:80:C:H5'	2.03	0.40
1:D1:820:G:C2'	1:D1:821:U:H5''	2.52	0.40
5:DE:128:ASN:C	5:DE:128:ASN:OD1	2.59	0.40
8:DH:37:LEU:CD1	8:DH:89:ALA:HB2	2.51	0.40
9:DJ:108:VAL:HG22	9:DJ:117:ILE:HG22	2.01	0.40
9:DJ:161:VAL:HG12	9:DJ:162:HIS:N	2.35	0.40
10:DK:95:VAL:HG12	10:DK:96:CYS:N	2.35	0.40
11:DL:104:LYS:O	11:DL:108:ILE:HG13	2.21	0.40
14:DO:50:LEU:HA	14:DO:59:ALA:O	2.20	0.40
19:DX:8:GLU:CD	19:DX:19:ARG:HH11	2.24	0.40
20:E2:129:A:H2'	20:E2:130:C:H6	1.87	0.40
20:E2:37:A:C2	2:FA:72:ALA:HA	2.57	0.40
20:E2:75:A:C2	20:E2:83:A:N1	2.90	0.40
20:E2:94:U:H2'	20:E2:95:C:O4'	2.21	0.40
21:E3:8:G:H2'	21:E3:9:C:O4'	2.21	0.40
22:EA:176:THR:CG2	22:EA:176:THR:O	2.70	0.40
23:EB:141:ALA:O	23:EB:144:LEU:HB2	2.21	0.40
23:EB:86:ILE:HG12	23:EB:158:VAL:HG11	2.03	0.40
23:EB:196:LEU:O	23:EB:199:LYS:HB2	2.22	0.40
23:EB:226:GLY:HA2	1:F1:1911:A:O2'	2.21	0.40
26:EE:168:LYS:CB	26:EE:173:PHE:CE2	3.04	0.40
28:EG:109:UNK:O	28:EG:112:UNK:HB2	2.21	0.40
29:EH:72:ALA:O	29:EH:76:LEU:HG	2.21	0.40
33:EL:126:THR:C	33:EL:127:TYR:HD1	2.25	0.40
33:EL:65:ARG:HB3	33:EL:129:PHE:CD2	2.56	0.40
33:EL:78:GLY:O	33:EL:89:ILE:HD11	2.21	0.40
34:EM:82:GLU:O	34:EM:85:ARG:HB2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:EN:45:PHE:CZ	35:EN:49:ILE:HD11	2.56	0.40
38:EQ:126:LYS:HE2	38:EQ:144:SER:HB3	2.02	0.40
41:ET:44:ARG:HB3	41:ET:46:VAL:HG23	2.02	0.40
42:EU:81:PRO:CD	42:EU:84:ILE:HD12	2.52	0.40
42:EU:9:LYS:HA	42:EU:9:LYS:HD3	1.94	0.40
1:F1:1150:U:H2'	1:F1:1151:U:O5'	2.20	0.40
1:F1:1409:C:H2'	1:F1:1410:G:O5'	2.22	0.40
1:F1:1519:G:H2'	3:FB:13:PHE:CD1	2.56	0.40
1:F1:1522:C:C2	1:F1:1547:G:N2	2.89	0.40
1:F1:1537:U:OP2	1:F1:1538:U:O4	2.39	0.40
39:ER:131:TYR:CD2	1:F1:1549:U:C2	3.09	0.40
1:F1:1620:U:C2	1:F1:1621:G:C8	3.09	0.40
1:F1:2104:C:O2'	1:F1:2105:U:H5'	2.21	0.40
1:F1:2187:C:C2'	1:F1:2188:U:C5'	2.98	0.40
1:F1:2327:A:P	50:F1:4296:HOH:O	2.78	0.40
1:F1:2426:C:H2'	1:F1:2427:U:H6	1.87	0.40
27:EF:39:ARG:HD2	1:F1:2519:A:C2	2.57	0.40
1:F1:2650:U:H2'	1:F1:2651:A:H8	1.86	0.40
1:F1:2686:A:H2'	1:F1:2687:G:H8	1.83	0.40
1:F1:2756:U:H2'	1:F1:2757:U:C6	2.56	0.40
1:F1:297:U:O4	16:FQ:30:ARG:HA	2.22	0.40
1:F1:3073:U:H2'	1:F1:3074:G:H5'	2.04	0.40
23:EB:274:THR:HG21	1:F1:3126:C:H5'	2.04	0.40
1:F1:3298:U:H1'	1:F1:3299:G:OP1	2.21	0.40
1:F1:49:A:C2'	1:F1:50:A:H5'	2.51	0.40
1:F1:522:U:H2'	1:F1:523:U:C6	2.57	0.40
1:F1:574:G:H2'	1:F1:575:A:H8	1.85	0.40
1:F1:589:C:O2'	1:F1:590:A:H5'	2.21	0.40
1:F1:60:A:O5'	1:F1:60:A:H8	2.05	0.40
1:F1:619:G:O2'	1:F1:620:A:H2	2.04	0.40
1:F1:415:A:C4'	1:F1:653:C:H4'	2.52	0.40
1:F1:772:U:O2'	1:F1:773:C:H5'	2.21	0.40
1:F1:832:A:N1	1:F1:2406:U:O2'	2.53	0.40
2:FA:21:ARG:NH2	2:FA:42:ALA:HA	2.36	0.40
2:FA:44:MET:HA	2:FA:44:MET:HE3	1.96	0.40
4:FC:40:ARG:O	4:FC:41:TYR:C	2.60	0.40
5:FE:114:ASP:O	5:FE:116:TYR:N	2.54	0.40
5:FE:117:PHE:HA	5:FE:149:ARG:NH2	2.36	0.40
31:EJ:139:SER:CB	9:FJ:102:SER:H	2.34	0.40
9:FJ:23:TYR:CA	9:FJ:46:ILE:CG2	2.91	0.40
18:FU:73:PHE:HD2	18:FU:94:LYS:O	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:FX:44:PHE:CD1	19:FX:137:ILE:CD1	3.04	0.40
21:G3:116:A:O3'	34:GM:260:ARG:NH2	2.54	0.40
21:G3:5:U:H1'	34:GM:63:GLN:HE22	1.86	0.40
23:GB:113:ASN:C	23:GB:174:ASN:HD22	2.24	0.40
23:GB:274:THR:HG21	1:H1:3126:C:H5''	2.03	0.40
23:GB:303:ILE:O	23:GB:305:PRO:HD3	2.21	0.40
23:GB:365:HIS:CE1	50:H1:4160:HOH:O	2.74	0.40
23:GB:360:SER:HB2	23:GB:369:GLN:NE2	2.36	0.40
24:GC:302:ASN:O	24:GC:306:SER:OG	2.35	0.40
24:GC:319:ARG:CD	1:H1:634:G:C8	3.04	0.40
25:GD:19:ILE:HD12	25:GD:71:ILE:HD12	2.04	0.40
31:GJ:10:GLN:HG3	31:GJ:129:ILE:HG22	1.97	0.40
33:GL:23:LEU:HD23	33:GL:23:LEU:HA	1.80	0.40
34:GM:267:ASN:OD1	34:GM:268:ASP:N	2.55	0.40
38:GQ:10:PRO:CB	38:GQ:153:GLN:NE2	2.78	0.40
40:GS:30:MET:HB3	40:GS:30:MET:HE2	1.88	0.40
40:GS:33:HIS:NE2	40:GS:39:ARG:NH2	2.69	0.40
43:GV:55:ALA:O	43:GV:58:LYS:HB3	2.21	0.40
45:GX:53:ARG:HA	45:GX:53:ARG:HD3	1.38	0.40
46:GY:36:LYS:HE2	46:GY:48:LYS:HE2	2.03	0.40
46:GY:57:CYS:SG	46:GY:59:PRO:CG	3.09	0.40
1:H1:1003:G:H4'	1:H1:1004:U:OP1	2.21	0.40
1:H1:1053:A:O2'	1:H1:1054:G:OP2	2.39	0.40
1:H1:1162:A:OP2	17:HT:5:LYS:HD2	2.21	0.40
1:H1:1196:A:C2	1:H1:1357:A:C5	3.09	0.40
1:H1:1381:G:H4'	1:H1:1382:A:OP2	2.18	0.40
32:GK:21:ARG:HG3	1:H1:1396:A:H5''	2.02	0.40
1:H1:1490:G:N2	1:H1:1493:A:OP2	2.48	0.40
1:H1:1563:A:H2'	1:H1:1564:C:C6	2.55	0.40
1:H1:158:G:H2'	1:H1:159:G:C8	2.55	0.40
1:H1:1669:G:C2	1:H1:1670:A:C6	3.09	0.40
1:H1:1932:A:H2'	1:H1:1933:A:O4'	2.20	0.40
1:H1:2258:C:C2'	1:H1:2259:U:H5'	2.50	0.40
1:H1:2325:C:OP2	50:H1:4214:HOH:O	2.22	0.40
1:H1:2750:G:N3	1:H1:2783:U:C5	2.89	0.40
1:H1:2933:G:N3	1:H1:2933:G:C5'	2.77	0.40
1:H1:2934:A:H2'	1:H1:2970:A:N7	2.36	0.40
1:H1:3020:G:C2'	1:H1:3021:A:H5''	2.51	0.40
1:H1:3204:A:O2'	1:H1:3205:A:O5'	2.38	0.40
1:H1:3230:G:O2'	1:H1:3231:U:OP2	2.38	0.40
1:H1:345:C:C4	1:H1:347:A:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:429:A:H2'	1:H1:430:G:C8	2.56	0.40
1:H1:436:U:H2'	1:H1:437:A:H5'	2.03	0.40
1:H1:66:C:H2'	1:H1:67:U:O4'	2.21	0.40
1:H1:791:C:H5''	18:HU:194:ARG:NH2	2.37	0.40
1:H1:80:C:H2'	1:H1:81:C:O5'	2.21	0.40
1:H1:914:U:H2'	1:H1:915:C:O4'	2.21	0.40
9:HJ:115:ALA:CB	9:HJ:135:VAL:HG11	2.50	0.40
9:HJ:224:LEU:HD23	9:HJ:224:LEU:HA	1.66	0.40
32:GK:99:VAL:N	18:HU:166:VAL:HG23	2.36	0.40
18:HU:50:GLU:O	18:HU:150:LEU:CD1	2.67	0.40
1:A1:1061:G:C2	1:A1:1062:A:N9	2.90	0.40
1:A1:1241:U:H2'	1:A1:1242:U:H6	1.87	0.40
1:A1:1215:U:C2	1:A1:1344:A:N6	2.89	0.40
1:A1:1130:A:C2	1:A1:1390:A:O2'	2.63	0.40
1:A1:1605:G:C2	39:BR:38:PHE:CD2	3.09	0.40
1:A1:2275:A:O2'	1:A1:2276:A:P	2.76	0.40
1:A1:242:G:OP1	42:BU:98:LYS:NZ	2.47	0.40
1:A1:2518:A:H3'	39:BR:35:VAL:HG12	2.00	0.40
1:A1:2576:C:H5'	1:A1:2576:C:H6	1.80	0.40
1:A1:2659:G:H2'	1:A1:2660:A:H8	1.86	0.40
1:A1:2738:G:HO2'	1:A1:2739:C:H5'	1.86	0.40
1:A1:2899:C:H4'	1:A1:2900:G:H8	1.85	0.40
1:A1:3311:U:H3'	1:A1:3311:U:H6	1.86	0.40
1:A1:3339:C:H2'	1:A1:3340:U:C5'	2.52	0.40
1:A1:436:U:H2'	1:A1:437:A:H5'	2.03	0.40
1:A1:485:A:H2'	32:BK:84:VAL:HG13	2.02	0.40
1:A1:565:G:C6	43:BV:64:ARG:HD3	2.56	0.40
1:A1:772:U:O2'	17:AT:29:HIS:HB3	2.21	0.40
1:A1:792:G:C2	1:A1:793:A:C4	3.09	0.40
1:A1:875:U:H2'	1:A1:875:U:O2	2.21	0.40
5:AE:7:GLY:C	5:AE:9:ASN:N	2.74	0.40
6:AF:26:VAL:HB	6:AF:72:LEU:HD21	2.02	0.40
1:A1:3178:U:C5'	6:AF:97:LYS:NZ	2.82	0.40
7:AG:38:THR:O	7:AG:38:THR:HG22	2.20	0.40
7:AG:77:LEU:HA	7:AG:77:LEU:HD23	1.71	0.40
12:AM:51:ASN:ND2	12:AM:51:ASN:C	2.72	0.40
13:AN:23:ALA:CB	13:AN:43:VAL:CG1	2.99	0.40
14:AO:7:GLU:HB2	35:BN:25:VAL:HG11	2.04	0.40
1:A1:1104:C:C6	17:AT:42:ASN:ND2	2.88	0.40
1:A1:979:U:H4'	17:AT:8:THR:O	2.22	0.40
22:BA:102:VAL:O	22:BA:103:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:117:ARG:HD2	23:BB:117:ARG:HA	1.60	0.40
24:BC:111:LYS:HB3	24:BC:113:TYR:CE1	2.56	0.40
24:BC:195:ARG:HH11	24:BC:204:ARG:HB2	1.87	0.40
24:BC:214:VAL:HG21	24:BC:227:LEU:HD12	2.01	0.40
24:BC:388:ILE:N	24:BC:388:ILE:HD13	2.36	0.40
24:BC:41:VAL:HG12	24:BC:45:LEU:CD1	2.52	0.40
25:BD:60:LYS:O	25:BD:63:GLU:CB	2.69	0.40
26:BE:127:LEU:HA	26:BE:127:LEU:HD23	1.85	0.40
26:BE:22:GLN:OE1	26:BE:39:ARG:NH2	2.54	0.40
27:BF:115:LYS:HG2	27:BF:116:GLN:N	2.37	0.40
28:BG:116:UNK:O	28:BG:123:UNK:HG3	2.21	0.40
29:BH:166:VAL:CG1	29:BH:167:THR:N	2.85	0.40
30:BI:35:VAL:CG1	30:BI:36:ARG:N	2.83	0.40
18:AU:1:MET:CE	32:BK:36:LYS:HA	2.51	0.40
33:BL:30:TYR:CE2	33:BL:63:ARG:CD	2.88	0.40
34:BM:228:PHE:O	34:BM:229:SER:C	2.59	0.40
34:BM:99:TYR:HD2	34:BM:251:HIS:HE1	1.68	0.40
1:A1:133:C:H3'	42:BU:75:LYS:HE3	2.03	0.40
20:C2:107:C:C5	20:C2:135:A:C4	3.09	0.40
20:C2:28:G:C4	20:C2:29:U:C6	3.09	0.40
20:C2:96:A:N3	2:DA:83:THR:CG2	2.84	0.40
21:C3:18:G:C2	21:C3:61:U:C2	3.09	0.40
22:CA:187:PHE:CE2	1:D1:921:A:H4'	2.57	0.40
23:CB:137:PHE:CD1	23:CB:137:PHE:C	2.93	0.40
23:CB:254:HIS:CD2	1:D1:2929:A:OP2	2.74	0.40
24:CC:27:ALA:O	24:CC:30:THR:N	2.52	0.40
25:CD:77:ARG:HH22	25:CD:166:GLU:HG3	1.87	0.40
26:CE:38:PHE:N	26:CE:38:PHE:CD1	2.89	0.40
26:CE:7:GLU:CG	26:CE:56:GLN:HG2	2.44	0.40
29:CH:3:ARG:HH12	29:CH:63:GLU:HB2	1.85	0.40
30:CI:40:ILE:HG22	30:CI:41:ASN:N	2.37	0.40
30:CI:9:ASP:O	30:CI:13:HIS:NE2	2.55	0.40
31:CJ:99:PHE:CZ	31:CJ:123:ALA:HB2	2.57	0.40
32:CK:123:VAL:HG12	32:CK:124:VAL:N	2.37	0.40
32:CK:7:LYS:O	32:CK:8:THR:C	2.60	0.40
34:CM:153:THR:CG2	34:CM:153:THR:O	2.68	0.40
42:CU:78:SER:O	42:CU:79:LEU:CB	2.69	0.40
43:CV:151:ALA:HB1	43:CV:198:PHE:CE1	2.57	0.40
44:CW:58:ILE:HD13	44:CW:58:ILE:HA	1.91	0.40
1:D1:1083:U:H2'	1:D1:1083:U:O2	2.22	0.40
1:D1:1140:G:H4'	1:D1:1397:G:H5'	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CX:57:ILE:HG23	1:D1:1366:C:O2'	2.22	0.40
1:D1:136:C:O2'	1:D1:137:A:H5'	2.21	0.40
1:D1:1573:A:O2'	1:D1:1574:C:H5'	2.21	0.40
1:D1:1635:U:H2'	1:D1:1636:C:H6	1.86	0.40
1:D1:2117:A:H4'	1:D1:2117:A:OP1	2.21	0.40
1:D1:2553:G:C4	1:D1:2554:G:C8	3.10	0.40
1:D1:2829:G:C5	1:D1:2832:C:C4	3.10	0.40
1:D1:283:A:N7	1:D1:305:A:C8	2.90	0.40
1:D1:2961:G:H3'	1:D1:2962:U:H5''	2.01	0.40
1:D1:296:G:O2'	16:DQ:32:GLY:CA	2.69	0.40
1:D1:3078:C:C4	1:D1:3079:U:C4	3.09	0.40
1:D1:315:U:H4'	1:D1:316:A:H5'	2.04	0.40
1:D1:3198:A:C6	1:D1:3199:G:C5	3.09	0.40
1:D1:3237:C:N4	8:DH:9:VAL:C	2.74	0.40
1:D1:429:A:H2'	1:D1:430:G:H8	1.85	0.40
1:D1:524:G:H8	1:D1:524:G:O5'	2.04	0.40
1:D1:532:G:C6	1:D1:533:G:C6	3.09	0.40
1:D1:621:G:N7	1:D1:622:G:C6	2.89	0.40
1:D1:623:G:N2	5:DE:30:ARG:NH1	2.69	0.40
1:D1:631:G:C6	5:DE:31:ARG:NH2	2.89	0.40
1:D1:81:C:H2'	1:D1:82:C:O4'	2.21	0.40
1:D1:872:A:H8	1:D1:872:A:O5'	2.03	0.40
2:DA:2:THR:HG22	2:DA:4:GLY:H	1.86	0.40
1:D1:2756:U:H5''	4:DC:30:LYS:O	2.21	0.40
5:DE:77:THR:HG23	5:DE:87:LEU:HD23	2.02	0.40
9:DJ:188:ARG:O	9:DJ:188:ARG:HG3	2.21	0.40
13:DN:125:ILE:HG21	13:DN:136:LYS:HE2	2.04	0.40
13:DN:24:VAL:HG12	13:DN:25:ILE:N	2.36	0.40
14:DO:29:PHE:HB2	14:DO:41:GLY:HA3	2.03	0.40
14:DO:62:LEU:O	14:DO:63:ARG:C	2.59	0.40
19:DX:158:ASN:OD1	19:DX:159:ALA:N	2.54	0.40
19:DX:92:VAL:O	19:DX:138:ILE:N	2.45	0.40
20:E2:103:U:C4	20:E2:104:G:C6	3.09	0.40
22:EA:3:ARG:CG	22:EA:4:VAL:H	2.35	0.40
23:EB:117:ARG:CZ	23:EB:173:LYS:HE2	2.51	0.40
23:EB:240:THR:HG23	1:F1:2936:C:H4'	2.03	0.40
24:EC:283:TYR:HE1	24:EC:285:LEU:CA	2.32	0.40
24:EC:319:ARG:CZ	1:F1:634:G:C5	3.03	0.40
24:EC:348:ALA:C	24:EC:350:ALA:N	2.74	0.40
24:EC:40:LYS:O	24:EC:43:THR:HB	2.21	0.40
26:EE:134:ARG:HG3	26:EE:141:THR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:EE:58:TRP:O	26:EE:59:GLN:C	2.59	0.40
27:EF:142:LYS:NZ	27:EF:201:LYS:NZ	2.69	0.40
27:EF:170:PHE:CE1	27:EF:216:ASN:OD1	2.74	0.40
30:EI:25:GLU:HB3	30:EI:30:GLN:HB3	2.04	0.40
31:EJ:91:ARG:HD2	31:EJ:97:ILE:HD11	2.04	0.40
32:EK:43:HIS:O	32:EK:44:ARG:C	2.60	0.40
32:EK:63:PHE:CE1	1:F1:282:G:C4	3.09	0.40
33:EL:93:LYS:HG3	1:F1:288:A:H2	1.86	0.40
21:E3:11:A:N7	34:EM:18:THR:HB	2.35	0.40
36:EO:8:LYS:HG2	36:EO:22:LEU:HD12	2.02	0.40
24:EC:383:ALA:HB1	37:EP:147:PHE:CD1	2.57	0.40
37:EP:52:MET:HA	37:EP:95:HIS:CE1	2.56	0.40
39:ER:122:ASN:O	3:FB:10:LYS:NZ	2.54	0.40
39:ER:143:LEU:HG	39:ER:147:ILE:CD1	2.51	0.40
41:ET:2:VAL:HG22	41:ET:3:VAL:N	2.36	0.40
43:EV:122:ASN:OD1	43:EV:125:LYS:HE3	2.22	0.40
43:EV:217:ALA:C	43:EV:219:HIS:N	2.74	0.40
43:EV:93:HIS:CE1	43:EV:94:PRO:HD2	2.55	0.40
45:EX:81:PRO:O	45:EX:84:LEU:HB2	2.21	0.40
46:EY:101:LYS:HG2	46:EY:101:LYS:O	2.21	0.40
1:F1:1041:C:C2'	1:F1:1041:C:O2	2.66	0.40
1:F1:1221:G:H8	1:F1:1221:G:O5'	2.04	0.40
1:F1:1344:A:O2'	1:F1:1345:A:H3'	2.22	0.40
1:F1:138:C:C3'	1:F1:139:A:H5'	2.52	0.40
33:EL:71:ARG:NH2	1:F1:1572:A:N7	2.62	0.40
27:EF:48:PRO:CG	1:F1:1587:A:C8	3.05	0.40
1:F1:1599:G:C6	1:F1:1600:U:C5	3.09	0.40
1:F1:1602:U:O2'	1:F1:1603:U:H5'	2.22	0.40
1:F1:1608:G:C2'	1:F1:1609:U:O5'	2.70	0.40
1:F1:1661:A:N3	1:F1:1733:C:O2'	2.49	0.40
1:F1:1507:A:O2'	1:F1:1882:A:N3	2.48	0.40
1:F1:191:U:H2'	1:F1:191:U:O2	2.22	0.40
1:F1:1936:U:O2	1:F1:2118:G:O5'	2.39	0.40
1:F1:174:A:N1	1:F1:246:G:C4	2.89	0.40
1:F1:2635:C:C6	1:F1:2635:C:H5'	2.45	0.40
1:F1:2749:C:O2	1:F1:2749:C:H2'	2.21	0.40
1:F1:283:A:N7	1:F1:305:A:C8	2.90	0.40
1:F1:3007:G:H2'	1:F1:3008:U:O5'	2.22	0.40
1:F1:3177:G:OP1	1:F1:3177:G:C8	2.74	0.40
1:F1:3308:A:C5	1:F1:3309:U:C4	3.10	0.40
1:F1:343:A:C4	1:F1:344:G:C8	3.08	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:615:G:H2'	1:F1:616:A:C8	2.56	0.40
2:FA:19:CYS:O	2:FA:23:GLY:N	2.46	0.40
8:FH:38:LYS:HE2	8:FH:42:VAL:O	2.22	0.40
9:FJ:135:VAL:HG12	9:FJ:136:GLU:N	2.36	0.40
16:FQ:46:ARG:NH2	16:FQ:51:PHE:CD2	2.87	0.40
18:FU:81:ALA:CB	18:FU:114:LEU:HD13	2.52	0.40
18:FU:91:ILE:O	18:FU:91:ILE:HG22	2.20	0.40
19:FX:43:VAL:HG11	19:FX:54:LYS:HB2	2.03	0.40
21:G3:13:A:OP1	21:G3:109:U:C2'	2.69	0.40
22:GA:179:PRO:HG2	46:GY:26:VAL:CG2	2.50	0.40
22:GA:211:PRO:HD2	22:GA:236:VAL:HG11	2.03	0.40
22:GA:41:TYR:CE1	1:H1:2541:U:N3	2.89	0.40
23:GB:25:HIS:CD2	23:GB:270:TYR:OH	2.71	0.40
23:GB:301:LYS:HG2	23:GB:359:THR:HG21	2.03	0.40
23:GB:62:ARG:HH22	23:GB:346:GLY:HA3	1.86	0.40
24:GC:319:ARG:CZ	1:H1:634:G:C5	3.05	0.40
24:GC:374:GLN:HA	24:GC:377:ILE:HD12	2.03	0.40
28:GG:57:UNK:HG3	28:GG:58:UNK:N	2.36	0.40
30:GI:171:VAL:O	30:GI:172:LYS:C	2.58	0.40
31:GJ:88:PRO:HA	31:GJ:97:ILE:O	2.21	0.40
33:GL:142:ILE:CG2	33:GL:148:ILE:HG22	2.52	0.40
33:GL:26:ARG:O	33:GL:29:GLU:N	2.55	0.40
34:GM:18:THR:O	34:GM:18:THR:CG2	2.69	0.40
36:GO:109:TYR:HB3	36:GO:115:ILE:CD1	2.51	0.40
39:GR:94:VAL:CG1	39:GR:98:SER:OG	2.68	0.40
43:GV:117:ASN:HB2	43:GV:120:SER:OG	2.22	0.40
1:H1:1040:A:N7	1:H1:1041:C:C5	2.89	0.40
24:GC:314:THR:CG2	1:H1:1372:A:N3	2.85	0.40
1:H1:1373:G:C5	1:H1:1374:C:C5	3.09	0.40
1:H1:1446:C:O2'	1:H1:1447:A:H5'	2.21	0.40
1:H1:1602:U:O2'	1:H1:1603:U:H5'	2.21	0.40
1:H1:1725:A:C2'	1:H1:1726:C:O5'	2.69	0.40
1:H1:1818:C:H2'	1:H1:1821:U:C5	2.56	0.40
1:H1:1847:A:C4	1:H1:1848:C:C5	3.10	0.40
1:H1:1925:A:H4'	1:H1:2906:G:H4'	2.02	0.40
1:H1:2262:C:O2'	1:H1:2263:U:H5'	2.21	0.40
1:H1:2347:A:C6	1:H1:2348:G:C5	3.09	0.40
1:H1:2529:G:H2'	1:H1:2530:G:H8	1.86	0.40
1:H1:291:C:C3'	1:H1:292:C:H5''	2.51	0.40
1:H1:268:G:N2	1:H1:293:U:H2'	2.36	0.40
1:H1:295:A:OP1	16:HQ:90:LYS:NZ	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:3106:C:H3'	1:H1:3107:C:H5'	2.03	0.40
1:H1:3097:G:N1	1:H1:3116:A:C2	2.89	0.40
1:H1:3308:A:C2	1:H1:3309:U:C2	3.09	0.40
1:H1:355:C:O5'	1:H1:355:C:H6	2.04	0.40
1:H1:574:G:H2'	1:H1:575:A:H8	1.85	0.40
1:H1:635:A:C6	1:H1:636:U:C4	3.10	0.40
1:H1:651:U:H5'	1:H1:1425:U:H5'	2.03	0.40
1:H1:724:C:C2'	1:H1:725:C:H5'	2.51	0.40
1:H1:78:G:C6	1:H1:79:C:C5	3.09	0.40
1:H1:847:G:C8	1:H1:847:G:H5'	2.57	0.40
1:H1:908:A:C6	1:H1:946:A:C5	3.08	0.40
5:HE:26:THR:HA	5:HE:27:PRO:HD3	1.89	0.40
9:HJ:187:ASN:O	9:HJ:188:ARG:HB3	2.21	0.40
31:GJ:127:ALA:CB	9:HJ:58:ILE:HD13	2.44	0.40
12:HM:43:ILE:CD1	12:HM:58:ILE:HD11	2.51	0.40
14:HO:101:LYS:O	14:HO:104:LYS:HB2	2.21	0.40
16:HQ:57:ARG:HD3	16:HQ:76:ILE:HD13	2.03	0.40
32:GK:132:LYS:CG	18:HU:178:TYR:CE2	3.05	0.40
18:HU:4:ASN:OD1	18:HU:4:ASN:O	2.39	0.40
1:A1:1052:A:H2	1:A1:1053:A:C5	2.38	0.40
1:A1:1107:A:C5	1:A1:1108:A:C5	3.09	0.40
1:A1:1147:A:H2'	1:A1:1148:U:C6	2.53	0.40
1:A1:1245:U:H2'	1:A1:1246:A:C8	2.57	0.40
1:A1:135:A:C4'	1:A1:136:C:OP2	2.70	0.40
1:A1:1488:A:C2'	1:A1:1489:U:H5'	2.51	0.40
1:A1:851:G:O2'	1:A1:1614:A:C8	2.69	0.40
1:A1:1720:A:H4'	11:AL:23:VAL:HG11	2.03	0.40
1:A1:1847:A:C4	1:A1:1848:C:C5	3.09	0.40
1:A1:2117:A:H4'	1:A1:2117:A:OP1	2.21	0.40
1:A1:2187:C:C2'	1:A1:2188:U:C5'	3.00	0.40
1:A1:2278:G:C2'	1:A1:2279:C:OP2	2.69	0.40
1:A1:2278:G:C2'	1:A1:2280:C:H41	2.34	0.40
1:A1:2385:A:O4'	1:A1:3267:A:C6	2.75	0.40
1:A1:2839:A:OP2	50:A1:4223:HOH:O	2.22	0.40
1:A1:3103:A:H3'	1:A1:3104:G:H8	1.86	0.40
1:A1:3177:G:C8	1:A1:3177:G:OP1	2.75	0.40
1:A1:3236:C:H2'	1:A1:3236:C:O2	2.21	0.40
1:A1:3339:C:H2'	1:A1:3340:U:H5'	2.04	0.40
1:A1:437:A:H4'	1:A1:540:G:O2'	2.22	0.40
1:A1:624:G:C4	1:A1:625:C:C5	3.09	0.40
1:A1:632:G:C6	1:A1:633:C:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:683:G:H22	1:A1:1460:G:C5'	2.34	0.40
1:A1:729:A:H1'	1:A1:810:G:N2	2.37	0.40
1:A1:805:A:C5'	1:A1:806:G:OP2	2.69	0.40
2:AA:64:ARG:NH1	20:B2:60:C:C5	2.89	0.40
5:AE:114:ASP:O	5:AE:116:TYR:N	2.55	0.40
5:AE:173:TYR:CD2	6:AF:106:PHE:CD1	3.10	0.40
7:AG:38:THR:CG2	7:AG:93:LEU:HD13	2.51	0.40
8:AH:57:VAL:HG12	8:AH:58:TYR:N	2.36	0.40
9:AJ:177:LEU:O	9:AJ:178:GLN:HB2	2.21	0.40
9:AJ:77:ASN:OD1	9:AJ:78:ASP:N	2.55	0.40
12:AM:98:THR:O	12:AM:105:TYR:HD1	2.05	0.40
17:AT:55:LYS:H	17:AT:55:LYS:HG2	1.77	0.40
17:AT:59:LEU:HD12	17:AT:59:LEU:HA	1.70	0.40
19:AX:39:LEU:HD23	19:AX:39:LEU:HA	1.85	0.40
22:BA:103:LEU:HD12	22:BA:108:ILE:HD13	2.03	0.40
1:A1:2520:G:C2'	22:BA:35:PHE:CD1	3.00	0.40
1:A1:3036:U:OP1	23:BB:220:LYS:CD	2.70	0.40
1:A1:958:A:C2	24:BC:105:ARG:NH2	2.90	0.40
24:BC:149:ILE:CG2	24:BC:149:ILE:O	2.69	0.40
25:BD:94:LYS:HG3	25:BD:94:LYS:O	2.21	0.40
27:BF:20:PRO:C	27:BF:22:PHE:H	2.25	0.40
29:BH:47:PRO:CD	29:BH:141:LYS:HD3	2.51	0.40
34:BM:192:SER:OG	34:BM:194:LYS:HG3	2.21	0.40
34:BM:6:VAL:O	34:BM:6:VAL:CG1	2.67	0.40
1:A1:1360:C:OP1	35:BN:2:ALA:N	2.55	0.40
35:BN:63:LEU:CD2	35:BN:83:SER:HB3	2.51	0.40
36:BO:28:GLU:O	36:BO:31:GLU:HB3	2.21	0.40
37:BP:15:PHE:CE2	37:BP:52:MET:HE1	2.56	0.40
38:BQ:49:TYR:HD1	38:BQ:58:ARG:NH1	2.20	0.40
40:BS:31:SER:CB	40:BS:48:PRO:HA	2.52	0.40
42:BU:25:LEU:HB3	42:BU:55:ILE:HG12	2.03	0.40
42:BU:81:PRO:CG	42:BU:84:ILE:HD12	2.51	0.40
20:C2:57:A:C6	20:C2:58:U:C4	3.10	0.40
20:C2:94:U:H2'	20:C2:95:C:O4'	2.22	0.40
22:CA:216:ASN:HB3	1:D1:2956:G:N7	2.36	0.40
22:CA:41:TYR:CD1	22:CA:41:TYR:N	2.89	0.40
24:CC:173:VAL:O	24:CC:177:LYS:HG3	2.21	0.40
24:CC:230:ILE:CG2	24:CC:233:VAL:CG1	3.00	0.40
24:CC:270:PHE:HB3	24:CC:285:LEU:HD21	2.04	0.40
26:CE:5:LEU:HD13	26:CE:58:TRP:CH2	2.57	0.40
26:CE:80:ARG:O	26:CE:84:GLU:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:204:GLY:CA	29:CH:208:ARG:NH2	2.83	0.40
21:C3:89:G:N2	29:CH:56:GLU:OE2	2.54	0.40
30:CI:111:TYR:O	30:CI:116:LYS:HE2	2.22	0.40
30:CI:171:VAL:O	30:CI:172:LYS:C	2.58	0.40
31:CJ:140:VAL:H	9:DJ:102:SER:HB3	1.86	0.40
32:CK:128:LYS:C	32:CK:129:TYR:CD1	2.95	0.40
33:CL:147:ARG:O	33:CL:150:TRP:CD1	2.75	0.40
33:CL:36:ILE:HD11	33:CL:105:ARG:HB3	2.03	0.40
34:CM:62:ALA:O	34:CM:105:LEU:HD22	2.21	0.40
34:CM:228:PHE:O	34:CM:229:SER:C	2.59	0.40
38:CQ:24:LEU:HA	38:CQ:24:LEU:HD23	1.84	0.40
42:CU:53:LYS:O	42:CU:57:LYS:HG3	2.21	0.40
43:CV:227:ARG:O	43:CV:228:GLU:C	2.59	0.40
43:CV:82:PHE:HB3	43:CV:231:ILE:CD1	2.51	0.40
45:CX:79:ARG:NH1	1:D1:1448:G:C1'	2.85	0.40
1:D1:1038:G:C2	1:D1:1039:G:C4	3.09	0.40
1:D1:1168:C:C4	1:D1:1169:G:C5	3.09	0.40
1:D1:677:A:C2	1:D1:1469:G:C5	3.09	0.40
1:D1:146:U:O2'	1:D1:147:U:P	2.79	0.40
44:CW:50:ILE:O	1:D1:1486:A:H5'	2.21	0.40
1:D1:156:A:C6	18:DU:97:HIS:CE1	3.09	0.40
1:D1:2189:G:C2'	1:D1:2190:C:H5'	2.51	0.40
1:D1:2432:G:C6	1:D1:2433:A:C5	3.09	0.40
1:D1:243:G:H2'	1:D1:244:C:H6	1.86	0.40
1:D1:2567:U:H2'	1:D1:2568:G:C8	2.56	0.40
1:D1:2766:A:C3'	1:D1:2767:A:H5'	2.51	0.40
23:CB:101:ALA:O	1:D1:3136:A:H5'	2.21	0.40
1:D1:3146:G:C6	1:D1:3248:C:N4	2.90	0.40
1:D1:3275:A:H2'	1:D1:3276:C:OP2	2.19	0.40
1:D1:3294:A:H2'	1:D1:3295:G:H5'	2.02	0.40
1:D1:3308:A:C2	1:D1:3309:U:C2	3.09	0.40
1:D1:402:U:C3'	1:D1:403:G:H5'	2.52	0.40
1:D1:459:G:C5	1:D1:517:A:C6	3.09	0.40
1:D1:471:A:C2'	1:D1:472:C:O5'	2.69	0.40
1:D1:60:A:O5'	1:D1:60:A:H8	2.04	0.40
1:D1:627:U:O2	1:D1:630:G:C6	2.74	0.40
1:D1:680:A:H2'	1:D1:681:A:C8	2.57	0.40
1:D1:926:A:C5	1:D1:927:G:N7	2.90	0.40
1:D1:945:A:H61	2:DA:15:THR:HG21	1.85	0.40
1:D1:1866:A:C4'	3:DB:45:ARG:NH1	2.85	0.40
4:DC:77:THR:CG2	4:DC:78:LYS:N	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DF:80:ASP:C	6:DF:82:THR:N	2.71	0.40
7:DG:10:ILE:HG12	7:DG:13:LYS:HZ2	1.87	0.40
9:DJ:142:ILE:HD12	9:DJ:148:VAL:HG12	2.03	0.40
9:DJ:36:SER:O	9:DJ:37:VAL:C	2.58	0.40
12:DM:96:TYR:CD1	12:DM:110:PHE:HD1	2.40	0.40
12:DM:52:LEU:HD23	12:DM:52:LEU:HA	1.86	0.40
13:DN:84:ARG:HD3	13:DN:85:TYR:N	2.36	0.40
15:DP:13:LYS:HB3	15:DP:13:LYS:HE2	1.78	0.40
15:DP:32:TYR:HB2	15:DP:43:LYS:HB2	2.02	0.40
42:CU:122:LEU:CD1	18:DU:150:LEU:CD2	2.97	0.40
18:DU:73:PHE:HD2	18:DU:94:LYS:O	2.05	0.40
19:DX:4:LYS:CE	19:DX:12:ASP:OD1	2.70	0.40
20:E2:110:A:H5''	1:F1:1609:U:O2'	2.22	0.40
21:E3:51:G:C6	21:E3:52:U:C4	3.10	0.40
22:EA:210:HIS:CE1	22:EA:236:VAL:CG1	3.05	0.40
22:EA:245:GLY:HA3	1:F1:2237:A:H5''	2.03	0.40
23:EB:62:ARG:HH22	23:EB:346:GLY:HA3	1.86	0.40
24:EC:111:LYS:HB3	24:EC:113:TYR:CE1	2.56	0.40
24:EC:166:TYR:OH	24:EC:175:PHE:HD2	2.05	0.40
24:EC:245:GLN:O	24:EC:248:PRO:HD3	2.21	0.40
24:EC:81:ILE:HG13	1:F1:829:C:O2'	2.21	0.40
26:EE:19:THR:HB	26:EE:26:GLU:HB2	2.03	0.40
26:EE:38:PHE:CD1	26:EE:38:PHE:N	2.89	0.40
27:EF:243:LYS:O	27:EF:247:GLU:HG3	2.21	0.40
29:EH:74:LYS:O	29:EH:75:ASN:C	2.59	0.40
30:EI:107:ILE:CG1	30:EI:159:ARG:NH1	2.83	0.40
31:EJ:63:LEU:HD12	31:EJ:63:LEU:HA	1.77	0.40
32:EK:2:VAL:HG13	1:F1:818:U:OP1	2.21	0.40
33:EL:7:LEU:O	33:EL:10:LEU:HB2	2.21	0.40
34:EM:136:GLN:CB	34:EM:141:PRO:HD3	2.51	0.40
20:E2:86:G:C6	40:ES:111:ASP:OD2	2.74	0.40
44:EW:97:VAL:HG12	44:EW:98:ASP:N	2.37	0.40
45:EX:98:ILE:H	45:EX:123:ASN:CG	2.24	0.40
1:F1:1213:G:C6	1:F1:1214:C:C4	3.10	0.40
1:F1:1355:C:C2'	1:F1:1356:G:O5'	2.70	0.40
1:F1:1475:A:H2'	1:F1:1476:G:O4'	2.22	0.40
1:F1:1692:G:C6	1:F1:1693:U:C4	3.10	0.40
1:F1:1704:G:OP2	12:FM:92:ARG:NH2	2.54	0.40
1:F1:1954:A:H4'	1:F1:1955:U:OP1	2.20	0.40
1:F1:2121:A:H2'	1:F1:2122:A:O5'	2.22	0.40
1:F1:2605:C:C2'	1:F1:2606:U:H5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F1:26:C:O2'	1:F1:59:A:H1'	2.21	0.40
1:F1:2833:A:C5	1:F1:2834:U:C5	3.10	0.40
1:F1:2938:G:H2'	1:F1:2938:G:N3	2.36	0.40
1:F1:3185:G:C4	1:F1:3237:C:C4	3.09	0.40
1:F1:3308:A:C2	1:F1:3309:U:C2	3.09	0.40
1:F1:3341:C:H2'	1:F1:3342:C:C6	2.56	0.40
1:F1:499:U:H3'	1:F1:500:G:H8	1.83	0.40
1:F1:621:G:N7	1:F1:622:G:C6	2.89	0.40
1:F1:624:G:C4	1:F1:625:C:C4	3.10	0.40
1:F1:723:U:O2'	1:F1:724:C:OP1	2.33	0.40
1:F1:748:G:C5	1:F1:749:U:C5	3.09	0.40
32:EK:29:GLY:CA	1:F1:962:G:H5'	2.43	0.40
3:FB:38:ASN:ND2	3:FB:41:ARG:HG3	2.37	0.40
1:F1:3228:U:C2'	5:FE:146:LYS:HZ2	2.35	0.40
5:FE:187:HIS:CD2	8:FH:47:ASP:HB3	2.57	0.40
30:EI:193:LEU:HD21	6:FF:114:LEU:HB3	2.03	0.40
6:FF:29:ASN:OD1	6:FF:30:ILE:N	2.55	0.40
6:FF:80:ASP:O	6:FF:81:LEU:C	2.58	0.40
7:FG:31:ILE:HD11	7:FG:56:ILE:HG12	2.04	0.40
9:FJ:111:ASN:C	9:FJ:111:ASN:OD1	2.60	0.40
9:FJ:171:ASP:O	9:FJ:172:GLU:C	2.59	0.40
10:FK:80:PRO:HA	10:FK:83:ALA:HB3	2.04	0.40
1:F1:1712:U:C4	12:FM:80:TYR:CD1	3.10	0.40
14:FO:94:ILE:HD13	14:FO:107:ALA:CB	2.52	0.40
19:FX:150:ARG:O	19:FX:154:LEU:HG	2.21	0.40
21:G3:75:G:O2'	21:G3:76:U:P	2.80	0.40
22:GA:210:HIS:CE1	22:GA:236:VAL:CG1	3.04	0.40
22:GA:210:HIS:NE2	22:GA:236:VAL:HG11	2.36	0.40
24:GC:230:ILE:CG2	24:GC:233:VAL:HG13	2.52	0.40
24:GC:2:THR:CG2	24:GC:30:THR:HG23	2.51	0.40
24:GC:80:ARG:NH2	1:H1:2397:A:C6	2.90	0.40
24:GC:81:ILE:CG2	24:GC:82:PRO:O	2.69	0.40
24:GC:84:VAL:HG23	24:GC:94:GLN:O	2.21	0.40
27:GF:69:GLN:CG	27:GF:222:ARG:HH12	2.34	0.40
30:GI:111:TYR:N	30:GI:111:TYR:CD1	2.90	0.40
30:GI:75:PRO:CB	30:GI:137:LEU:HD23	2.50	0.40
32:GK:77:ILE:CG1	32:GK:114:GLY:HA2	2.51	0.40
32:GK:79:LYS:H	32:GK:79:LYS:HG2	1.60	0.40
33:GL:139:HIS:HD2	33:GL:141:ALA:HB3	1.84	0.40
33:GL:145:ASP:HA	33:GL:146:PRO:HD3	1.90	0.40
33:GL:148:ILE:O	33:GL:148:ILE:CG2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:GL:103:GLU:CD	33:GL:165:THR:HG1	2.24	0.40
34:GM:222:GLU:O	34:GM:226:LYS:HG3	2.22	0.40
34:GM:240:VAL:CG1	34:GM:245:LYS:HB2	2.49	0.40
36:GO:97:ARG:O	36:GO:101:VAL:HG23	2.22	0.40
37:GP:11:THR:O	37:GP:11:THR:CG2	2.68	0.40
20:G2:73:G:C5'	40:GS:117:LEU:HD11	2.51	0.40
44:GW:75:CYS:O	44:GW:90:THR:HG23	2.22	0.40
1:H1:1017:U:H6	1:H1:1017:U:H5'	1.86	0.40
1:H1:1052:A:H2'	1:H1:1052:A:N3	2.36	0.40
1:H1:1105:U:C2	1:H1:1111:G:C2	3.10	0.40
1:H1:1197:A:C8	1:H1:1198:G:C8	3.09	0.40
1:H1:1248:G:H8	1:H1:1248:G:O5'	2.04	0.40
1:H1:1604:C:H2'	1:H1:1605:G:O5'	2.22	0.40
1:H1:1724:U:C2'	1:H1:1725:A:H5'	2.51	0.40
1:H1:1725:A:H2'	1:H1:1726:C:O5'	2.21	0.40
1:H1:1736:G:N1	1:H1:1737:A:N1	2.69	0.40
1:H1:1740:U:C4'	1:H1:1741:U:OP1	2.70	0.40
1:H1:1839:A:O2'	1:H1:1840:U:P	2.79	0.40
1:H1:1843:U:O2'	1:H1:1844:U:H5'	2.22	0.40
1:H1:2324:A:C6	1:H1:2325:C:C4	3.09	0.40
1:H1:2380:U:O2	1:H1:2380:U:C2'	2.67	0.40
1:H1:2423:U:H2'	1:H1:2424:A:C8	2.56	0.40
42:GU:114:ASN:ND2	1:H1:254:G:O2'	2.55	0.40
1:H1:2610:G:C6	1:H1:2611:C:C4	3.10	0.40
1:H1:2632:A:C2'	1:H1:2634:G:OP2	2.69	0.40
1:H1:3175:A:H5'	1:H1:3176:A:OP2	2.20	0.40
1:H1:527:A:C3'	1:H1:528:C:H5''	2.50	0.40
1:H1:358:C:O2	1:H1:840:G:H4'	2.22	0.40
5:HE:114:ASP:O	5:HE:116:TYR:N	2.55	0.40
1:H1:439:A:H5''	5:HE:126:HIS:HB3	2.03	0.40
5:HE:56:GLY:C	5:HE:58:PHE:H	2.24	0.40
6:HF:39:ASP:HB3	6:HF:72:LEU:CD2	2.51	0.40
12:HM:74:SER:OG	12:HM:76:ARG:HB2	2.21	0.40
19:HX:143:LEU:HD13	19:HX:148:ILE:HG22	2.03	0.40

All (12) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:276:LYS:NZ	1:D1:259:U:O3'[2_546]	1.54	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:GM:117:THR:OG1	1:H1:192:C:C4'[2_445]	1.57	0.63
34:EM:214:LYS:NZ	1:F1:171:A:O4'[2_456]	1.76	0.44
20:B2:87:C:N4	40:CS:82:GLU:OE2[1_545]	1.84	0.36
1:A1:1840:U:O4	15:DP:74:LYS:N[1_545]	1.88	0.32
16:AQ:3:LYS:NZ	1:H1:1840:U:C4[2_545]	1.92	0.28
16:AQ:3:LYS:NZ	1:H1:1840:U:O4[2_545]	1.97	0.23
34:EM:214:LYS:NZ	1:F1:171:A:C1'[2_456]	2.00	0.20
34:GM:117:THR:CG2	1:H1:192:C:O2'[2_445]	2.02	0.18
34:EM:214:LYS:NZ	1:F1:171:A:N9[2_456]	2.08	0.12
27:EF:109:GLU:OE2	34:EM:236:GLU:OE1[2_446]	2.10	0.10
1:A1:1840:U:C5	15:DP:74:LYS:O[1_545]	2.11	0.09

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	AA	89/94 (95%)	85 (96%)	4 (4%)	0	100	100
2	DA	89/94 (95%)	85 (96%)	4 (4%)	0	100	100
2	FA	89/94 (95%)	85 (96%)	4 (4%)	0	100	100
2	HA	89/94 (95%)	85 (96%)	4 (4%)	0	100	100
3	AB	49/52 (94%)	46 (94%)	3 (6%)	0	100	100
3	DB	49/52 (94%)	46 (94%)	3 (6%)	0	100	100
3	FB	49/52 (94%)	46 (94%)	3 (6%)	0	100	100
3	HB	49/52 (94%)	46 (94%)	3 (6%)	0	100	100
4	AC	101/109 (93%)	99 (98%)	2 (2%)	0	100	100
4	DC	101/109 (93%)	99 (98%)	2 (2%)	0	100	100
4	FC	101/109 (93%)	99 (98%)	2 (2%)	0	100	100
4	HC	101/109 (93%)	99 (98%)	2 (2%)	0	100	100
5	AE	188/191 (98%)	178 (95%)	9 (5%)	1 (0%)	32	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	DE	188/191 (98%)	176 (94%)	11 (6%)	1 (0%)	32	73
5	FE	188/191 (98%)	178 (95%)	9 (5%)	1 (0%)	32	73
5	HE	188/191 (98%)	177 (94%)	10 (5%)	1 (0%)	32	73
6	AF	123/126 (98%)	115 (94%)	8 (6%)	0	100	100
6	DF	123/126 (98%)	116 (94%)	7 (6%)	0	100	100
6	FF	123/126 (98%)	115 (94%)	8 (6%)	0	100	100
6	HF	123/126 (98%)	114 (93%)	9 (7%)	0	100	100
7	AG	94/104 (90%)	90 (96%)	4 (4%)	0	100	100
7	DG	94/104 (90%)	90 (96%)	4 (4%)	0	100	100
7	FG	94/104 (90%)	90 (96%)	4 (4%)	0	100	100
7	HG	94/104 (90%)	90 (96%)	4 (4%)	0	100	100
8	AH	105/113 (93%)	100 (95%)	5 (5%)	0	100	100
8	DH	105/113 (93%)	100 (95%)	5 (5%)	0	100	100
8	FH	105/113 (93%)	100 (95%)	4 (4%)	1 (1%)	18	60
8	HH	105/113 (93%)	100 (95%)	5 (5%)	0	100	100
9	AJ	224/248 (90%)	211 (94%)	11 (5%)	2 (1%)	20	63
9	DJ	224/248 (90%)	211 (94%)	11 (5%)	2 (1%)	20	63
9	FJ	224/248 (90%)	212 (95%)	10 (4%)	2 (1%)	20	63
9	HJ	224/248 (90%)	213 (95%)	9 (4%)	2 (1%)	20	63
10	AK	50/129 (39%)	43 (86%)	7 (14%)	0	100	100
10	DK	50/129 (39%)	44 (88%)	6 (12%)	0	100	100
10	FK	50/129 (39%)	44 (88%)	6 (12%)	0	100	100
10	HK	50/129 (39%)	43 (86%)	7 (14%)	0	100	100
11	AL	106/123 (86%)	98 (92%)	8 (8%)	0	100	100
11	DL	106/123 (86%)	98 (92%)	8 (8%)	0	100	100
11	FL	106/123 (86%)	98 (92%)	8 (8%)	0	100	100
11	HL	106/123 (86%)	98 (92%)	8 (8%)	0	100	100
12	AM	98/118 (83%)	92 (94%)	5 (5%)	1 (1%)	18	60
12	DM	98/118 (83%)	94 (96%)	3 (3%)	1 (1%)	18	60
12	FM	98/118 (83%)	93 (95%)	4 (4%)	1 (1%)	18	60
12	HM	98/118 (83%)	92 (94%)	5 (5%)	1 (1%)	18	60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	AN	141/144 (98%)	133 (94%)	7 (5%)	1 (1%)	25	67
13	DN	141/144 (98%)	133 (94%)	7 (5%)	1 (1%)	25	67
13	FN	141/144 (98%)	133 (94%)	8 (6%)	0	100	100
13	HN	141/144 (98%)	133 (94%)	7 (5%)	1 (1%)	25	67
14	AO	132/134 (98%)	125 (95%)	7 (5%)	0	100	100
14	DO	132/134 (98%)	125 (95%)	7 (5%)	0	100	100
14	FO	132/134 (98%)	125 (95%)	7 (5%)	0	100	100
14	HO	132/134 (98%)	125 (95%)	7 (5%)	0	100	100
15	AP	62/89 (70%)	58 (94%)	4 (6%)	0	100	100
15	DP	62/89 (70%)	58 (94%)	4 (6%)	0	100	100
15	FP	62/89 (70%)	58 (94%)	4 (6%)	0	100	100
15	HP	62/89 (70%)	58 (94%)	4 (6%)	0	100	100
16	AQ	100/104 (96%)	89 (89%)	9 (9%)	2 (2%)	9	46
16	DQ	100/104 (96%)	89 (89%)	9 (9%)	2 (2%)	9	46
16	FQ	100/104 (96%)	88 (88%)	10 (10%)	2 (2%)	9	46
16	HQ	100/104 (96%)	89 (89%)	9 (9%)	2 (2%)	9	46
17	AT	63/66 (96%)	59 (94%)	3 (5%)	1 (2%)	11	50
17	DT	63/66 (96%)	60 (95%)	2 (3%)	1 (2%)	11	50
17	FT	63/66 (96%)	60 (95%)	2 (3%)	1 (2%)	11	50
17	HT	63/66 (96%)	60 (95%)	2 (3%)	1 (2%)	11	50
18	AU	201/206 (98%)	188 (94%)	12 (6%)	1 (0%)	32	73
18	DU	201/206 (98%)	187 (93%)	13 (6%)	1 (0%)	32	73
18	FU	201/206 (98%)	187 (93%)	13 (6%)	1 (0%)	32	73
18	HU	201/206 (98%)	189 (94%)	11 (6%)	1 (0%)	32	73
19	AX	186/189 (98%)	177 (95%)	8 (4%)	1 (0%)	32	73
19	DX	186/189 (98%)	178 (96%)	6 (3%)	2 (1%)	17	58
19	FX	186/189 (98%)	178 (96%)	6 (3%)	2 (1%)	17	58
19	HX	186/189 (98%)	177 (95%)	7 (4%)	2 (1%)	17	58
22	BA	255/264 (97%)	236 (92%)	19 (8%)	0	100	100
22	CA	255/264 (97%)	235 (92%)	20 (8%)	0	100	100
22	EA	255/264 (97%)	234 (92%)	21 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	GA	255/264 (97%)	237 (93%)	18 (7%)	0	100	100
23	BB	384/391 (98%)	371 (97%)	13 (3%)	0	100	100
23	CB	384/391 (98%)	371 (97%)	13 (3%)	0	100	100
23	EB	384/391 (98%)	371 (97%)	13 (3%)	0	100	100
23	GB	384/391 (98%)	370 (96%)	14 (4%)	0	100	100
24	BC	407/410 (99%)	383 (94%)	24 (6%)	0	100	100
24	CC	407/410 (99%)	387 (95%)	20 (5%)	0	100	100
24	EC	407/410 (99%)	384 (94%)	23 (6%)	0	100	100
24	GC	407/410 (99%)	386 (95%)	21 (5%)	0	100	100
25	BD	167/172 (97%)	156 (93%)	11 (7%)	0	100	100
25	CD	167/172 (97%)	156 (93%)	11 (7%)	0	100	100
25	ED	167/172 (97%)	156 (93%)	11 (7%)	0	100	100
25	GD	167/172 (97%)	156 (93%)	11 (7%)	0	100	100
26	BE	184/188 (98%)	171 (93%)	13 (7%)	0	100	100
26	CE	184/188 (98%)	171 (93%)	13 (7%)	0	100	100
26	EE	184/188 (98%)	171 (93%)	13 (7%)	0	100	100
26	GE	184/188 (98%)	171 (93%)	13 (7%)	0	100	100
27	BF	229/255 (90%)	219 (96%)	10 (4%)	0	100	100
27	CF	229/255 (90%)	219 (96%)	10 (4%)	0	100	100
27	EF	229/255 (90%)	219 (96%)	9 (4%)	1 (0%)	38	77
27	GF	229/255 (90%)	219 (96%)	10 (4%)	0	100	100
29	BH	197/215 (92%)	186 (94%)	11 (6%)	0	100	100
29	CH	197/215 (92%)	187 (95%)	10 (5%)	0	100	100
29	EH	197/215 (92%)	186 (94%)	11 (6%)	0	100	100
29	GH	197/215 (92%)	186 (94%)	11 (6%)	0	100	100
30	BI	196/198 (99%)	189 (96%)	7 (4%)	0	100	100
30	CI	196/198 (99%)	189 (96%)	7 (4%)	0	100	100
30	EI	196/198 (99%)	189 (96%)	7 (4%)	0	100	100
30	GI	196/198 (99%)	189 (96%)	7 (4%)	0	100	100
31	BJ	136/141 (96%)	132 (97%)	4 (3%)	0	100	100
31	CJ	136/141 (96%)	132 (97%)	4 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	EJ	136/141 (96%)	131 (96%)	5 (4%)	0	100	100
31	GJ	136/141 (96%)	132 (97%)	4 (3%)	0	100	100
32	BK	146/149 (98%)	136 (93%)	8 (6%)	2 (1%)	13	53
32	CK	146/149 (98%)	135 (92%)	8 (6%)	3 (2%)	8	45
32	EK	146/149 (98%)	137 (94%)	7 (5%)	2 (1%)	13	53
32	GK	146/149 (98%)	135 (92%)	8 (6%)	3 (2%)	8	45
33	BL	201/204 (98%)	191 (95%)	10 (5%)	0	100	100
33	CL	201/204 (98%)	191 (95%)	10 (5%)	0	100	100
33	EL	201/204 (98%)	191 (95%)	10 (5%)	0	100	100
33	GL	201/204 (98%)	193 (96%)	7 (4%)	1 (0%)	32	73
34	BM	296/301 (98%)	282 (95%)	13 (4%)	1 (0%)	44	80
34	CM	298/301 (99%)	282 (95%)	15 (5%)	1 (0%)	44	80
34	EM	298/301 (99%)	283 (95%)	14 (5%)	1 (0%)	44	80
34	GM	298/301 (99%)	285 (96%)	12 (4%)	1 (0%)	44	80
35	BN	178/181 (98%)	168 (94%)	10 (6%)	0	100	100
35	CN	178/181 (98%)	168 (94%)	10 (6%)	0	100	100
35	EN	178/181 (98%)	168 (94%)	10 (6%)	0	100	100
35	GN	178/181 (98%)	168 (94%)	10 (6%)	0	100	100
36	BO	182/185 (98%)	170 (93%)	11 (6%)	1 (0%)	32	73
36	EO	144/185 (78%)	137 (95%)	7 (5%)	0	100	100
36	GO	151/185 (82%)	143 (95%)	8 (5%)	0	100	100
37	BP	154/157 (98%)	148 (96%)	6 (4%)	0	100	100
37	CP	154/157 (98%)	147 (96%)	7 (4%)	0	100	100
37	EP	154/157 (98%)	148 (96%)	6 (4%)	0	100	100
37	GP	154/157 (98%)	147 (96%)	7 (4%)	0	100	100
38	BQ	155/183 (85%)	146 (94%)	9 (6%)	0	100	100
38	CQ	155/183 (85%)	147 (95%)	8 (5%)	0	100	100
38	EQ	155/183 (85%)	147 (95%)	8 (5%)	0	100	100
38	GQ	155/183 (85%)	147 (95%)	8 (5%)	0	100	100
39	BR	119/150 (79%)	115 (97%)	4 (3%)	0	100	100
39	CR	119/150 (79%)	116 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	ER	119/150 (79%)	115 (97%)	4 (3%)	0	100	100
39	GR	119/150 (79%)	114 (96%)	5 (4%)	0	100	100
40	BS	124/135 (92%)	119 (96%)	5 (4%)	0	100	100
40	CS	124/135 (92%)	119 (96%)	5 (4%)	0	100	100
40	ES	124/135 (92%)	119 (96%)	5 (4%)	0	100	100
40	GS	124/135 (92%)	118 (95%)	6 (5%)	0	100	100
41	BT	59/158 (37%)	57 (97%)	2 (3%)	0	100	100
41	CT	59/158 (37%)	56 (95%)	3 (5%)	0	100	100
41	ET	59/158 (37%)	57 (97%)	2 (3%)	0	100	100
41	GT	59/158 (37%)	57 (97%)	2 (3%)	0	100	100
42	BU	121/124 (98%)	112 (93%)	9 (7%)	0	100	100
42	CU	121/124 (98%)	111 (92%)	10 (8%)	0	100	100
42	EU	121/124 (98%)	113 (93%)	8 (7%)	0	100	100
42	GU	121/124 (98%)	112 (93%)	9 (7%)	0	100	100
43	BV	232/239 (97%)	216 (93%)	16 (7%)	0	100	100
43	CV	232/239 (97%)	216 (93%)	16 (7%)	0	100	100
43	EV	232/239 (97%)	216 (93%)	15 (6%)	1 (0%)	38	77
43	GV	232/239 (97%)	216 (93%)	15 (6%)	1 (0%)	38	77
44	BW	108/111 (97%)	102 (94%)	6 (6%)	0	100	100
44	CW	108/111 (97%)	102 (94%)	6 (6%)	0	100	100
44	EW	108/111 (97%)	101 (94%)	7 (6%)	0	100	100
44	GW	108/111 (97%)	102 (94%)	6 (6%)	0	100	100
45	BX	123/134 (92%)	119 (97%)	4 (3%)	0	100	100
45	CX	123/134 (92%)	117 (95%)	6 (5%)	0	100	100
45	EX	123/134 (92%)	118 (96%)	5 (4%)	0	100	100
45	GX	123/134 (92%)	117 (95%)	6 (5%)	0	100	100
46	BY	100/103 (97%)	91 (91%)	9 (9%)	0	100	100
46	CY	100/103 (97%)	90 (90%)	10 (10%)	0	100	100
46	EY	100/103 (97%)	90 (90%)	10 (10%)	0	100	100
46	GY	100/103 (97%)	90 (90%)	10 (10%)	0	100	100
47	CO	145/185 (78%)	138 (95%)	7 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	26160/28348 (92%)	24720 (94%)	1378 (5%)	62 (0%)	51	85

All (62) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
16	AQ	7	VAL
32	BK	24	LYS
32	CK	24	LYS
16	DQ	7	VAL
32	EK	24	LYS
16	FQ	7	VAL
32	GK	24	LYS
16	HQ	7	VAL
32	BK	15	VAL
36	BO	152	SER
32	CK	15	VAL
32	EK	15	VAL
32	GK	15	VAL
5	AE	86	PRO
5	DE	86	PRO
5	FE	86	PRO
5	HE	86	PRO
17	AT	10	LYS
17	DT	10	LYS
18	DU	135	LEU
16	FQ	13	PHE
17	FT	10	LYS
17	HT	10	LYS
9	AJ	13	ILE
16	AQ	13	PHE
18	AU	135	LEU
19	AX	81	LYS
32	CK	46	LEU
9	DJ	13	ILE
13	DN	30	GLU
16	DQ	13	PHE
19	DX	81	LYS
27	EF	115	LYS
19	FX	81	LYS
32	GK	46	LEU
9	HJ	13	ILE
13	HN	30	GLU

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Mol	Chain	Res	Type
16	HQ	13	PHE
18	HU	135	LEU
19	HX	81	LYS
13	AN	30	GLU
9	FJ	13	ILE
18	FU	135	LEU
33	GL	187	SER
43	GV	228	GLU
9	AJ	193	ILE
9	DJ	193	ILE
12	DM	53	GLY
9	FJ	193	ILE
12	FM	53	GLY
9	HJ	193	ILE
12	HM	53	GLY
12	AM	53	GLY
34	EM	270	PRO
34	GM	270	PRO
34	BM	270	PRO
34	CM	270	PRO
19	DX	30	ILE
8	FH	9	VAL
19	FX	30	ILE
19	HX	30	ILE
43	EV	188	VAL

5.3.2 Protein sidechains ⓘ

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	AA	69/72 (96%)	58 (84%)	11 (16%)	3	17
2	DA	69/72 (96%)	58 (84%)	11 (16%)	3	17
2	FA	69/72 (96%)	59 (86%)	10 (14%)	4	21
2	HA	69/72 (96%)	58 (84%)	11 (16%)	3	17
3	AB	48/49 (98%)	44 (92%)	4 (8%)	13	46

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	DB	48/49 (98%)	44 (92%)	4 (8%)	13	46
3	FB	48/49 (98%)	44 (92%)	4 (8%)	13	46
3	HB	48/49 (98%)	44 (92%)	4 (8%)	13	46
4	AC	95/101 (94%)	92 (97%)	3 (3%)	44	76
4	DC	95/101 (94%)	92 (97%)	3 (3%)	44	76
4	FC	95/101 (94%)	92 (97%)	3 (3%)	44	76
4	HC	95/101 (94%)	92 (97%)	3 (3%)	44	76
5	AE	162/163 (99%)	152 (94%)	10 (6%)	21	59
5	DE	162/163 (99%)	152 (94%)	10 (6%)	21	59
5	FE	162/163 (99%)	151 (93%)	11 (7%)	18	56
5	HE	162/163 (99%)	151 (93%)	11 (7%)	18	56
6	AF	111/112 (99%)	107 (96%)	4 (4%)	40	74
6	DF	111/112 (99%)	106 (96%)	5 (4%)	32	69
6	FF	111/112 (99%)	107 (96%)	4 (4%)	40	74
6	HF	111/112 (99%)	107 (96%)	4 (4%)	40	74
7	AG	80/88 (91%)	76 (95%)	4 (5%)	28	65
7	DG	80/88 (91%)	74 (92%)	6 (8%)	16	51
7	FG	80/88 (91%)	75 (94%)	5 (6%)	21	59
7	HG	80/88 (91%)	76 (95%)	4 (5%)	28	65
8	AH	87/92 (95%)	78 (90%)	9 (10%)	8	36
8	DH	87/92 (95%)	78 (90%)	9 (10%)	8	36
8	FH	87/92 (95%)	78 (90%)	9 (10%)	8	36
8	HH	87/92 (95%)	78 (90%)	9 (10%)	8	36
9	AJ	195/216 (90%)	177 (91%)	18 (9%)	11	41
9	DJ	195/216 (90%)	176 (90%)	19 (10%)	9	38
9	FJ	195/216 (90%)	177 (91%)	18 (9%)	11	41
9	HJ	195/216 (90%)	177 (91%)	18 (9%)	11	41
10	AK	46/113 (41%)	43 (94%)	3 (6%)	20	58
10	DK	46/113 (41%)	43 (94%)	3 (6%)	20	58
10	FK	46/113 (41%)	43 (94%)	3 (6%)	20	58
10	HK	46/113 (41%)	43 (94%)	3 (6%)	20	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	AL	92/107 (86%)	87 (95%)	5 (5%)	26	63
11	DL	92/107 (86%)	87 (95%)	5 (5%)	26	63
11	FL	92/107 (86%)	88 (96%)	4 (4%)	33	70
11	HL	92/107 (86%)	87 (95%)	5 (5%)	26	63
12	AM	93/110 (84%)	90 (97%)	3 (3%)	44	76
12	DM	93/110 (84%)	90 (97%)	3 (3%)	44	76
12	FM	93/110 (84%)	90 (97%)	3 (3%)	44	76
12	HM	93/110 (84%)	90 (97%)	3 (3%)	44	76
13	AN	130/131 (99%)	123 (95%)	7 (5%)	26	63
13	DN	130/131 (99%)	122 (94%)	8 (6%)	21	59
13	FN	130/131 (99%)	123 (95%)	7 (5%)	26	63
13	HN	130/131 (99%)	123 (95%)	7 (5%)	26	63
14	AO	108/108 (100%)	102 (94%)	6 (6%)	25	62
14	DO	108/108 (100%)	102 (94%)	6 (6%)	25	62
14	FO	108/108 (100%)	100 (93%)	8 (7%)	16	52
14	HO	108/108 (100%)	102 (94%)	6 (6%)	25	62
15	AP	60/77 (78%)	56 (93%)	4 (7%)	19	57
15	DP	60/77 (78%)	56 (93%)	4 (7%)	19	57
15	FP	60/77 (78%)	56 (93%)	4 (7%)	19	57
15	HP	60/77 (78%)	56 (93%)	4 (7%)	19	57
16	AQ	81/83 (98%)	75 (93%)	6 (7%)	16	52
16	DQ	81/83 (98%)	75 (93%)	6 (7%)	16	52
16	FQ	81/83 (98%)	75 (93%)	6 (7%)	16	52
16	HQ	81/83 (98%)	75 (93%)	6 (7%)	16	52
17	AT	61/62 (98%)	55 (90%)	6 (10%)	9	38
17	DT	61/62 (98%)	57 (93%)	4 (7%)	19	57
17	FT	61/62 (98%)	57 (93%)	4 (7%)	19	57
17	HT	61/62 (98%)	57 (93%)	4 (7%)	19	57
18	AU	169/171 (99%)	159 (94%)	10 (6%)	23	61
18	DU	169/171 (99%)	161 (95%)	8 (5%)	30	67
18	FU	169/171 (99%)	160 (95%)	9 (5%)	26	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	HU	169/171 (99%)	161 (95%)	8 (5%)	30	67
19	AX	167/168 (99%)	153 (92%)	14 (8%)	13	46
19	DX	167/168 (99%)	152 (91%)	15 (9%)	11	42
19	FX	167/168 (99%)	151 (90%)	16 (10%)	10	39
19	HX	167/168 (99%)	154 (92%)	13 (8%)	15	49
22	BA	196/198 (99%)	165 (84%)	31 (16%)	3	17
22	CA	196/198 (99%)	164 (84%)	32 (16%)	3	16
22	EA	196/198 (99%)	164 (84%)	32 (16%)	3	16
22	GA	196/198 (99%)	165 (84%)	31 (16%)	3	17
23	BB	330/334 (99%)	306 (93%)	24 (7%)	16	53
23	CB	330/334 (99%)	307 (93%)	23 (7%)	18	55
23	EB	330/334 (99%)	308 (93%)	22 (7%)	19	57
23	GB	330/334 (99%)	306 (93%)	24 (7%)	16	53
24	BC	325/326 (100%)	302 (93%)	23 (7%)	17	54
24	CC	325/326 (100%)	302 (93%)	23 (7%)	17	54
24	EC	325/326 (100%)	300 (92%)	25 (8%)	15	50
24	GC	325/326 (100%)	300 (92%)	25 (8%)	15	50
25	BD	146/149 (98%)	136 (93%)	10 (7%)	18	56
25	CD	146/149 (98%)	136 (93%)	10 (7%)	18	56
25	ED	146/149 (98%)	135 (92%)	11 (8%)	16	51
25	GD	146/149 (98%)	136 (93%)	10 (7%)	18	56
26	BE	163/165 (99%)	157 (96%)	6 (4%)	39	73
26	CE	163/165 (99%)	157 (96%)	6 (4%)	39	73
26	EE	163/165 (99%)	157 (96%)	6 (4%)	39	73
26	GE	163/165 (99%)	157 (96%)	6 (4%)	39	73
27	BF	201/222 (90%)	194 (96%)	7 (4%)	41	75
27	CF	201/222 (90%)	194 (96%)	7 (4%)	41	75
27	EF	201/222 (90%)	194 (96%)	7 (4%)	41	75
27	GF	201/222 (90%)	194 (96%)	7 (4%)	41	75
29	BH	169/180 (94%)	155 (92%)	14 (8%)	13	46
29	CH	169/180 (94%)	155 (92%)	14 (8%)	13	46

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
29	EH	169/180 (94%)	156 (92%)	13 (8%)	15	50
29	GH	169/180 (94%)	153 (90%)	16 (10%)	10	40
30	BI	166/166 (100%)	150 (90%)	16 (10%)	10	39
30	CI	166/166 (100%)	149 (90%)	17 (10%)	8	36
30	EI	166/166 (100%)	150 (90%)	16 (10%)	10	39
30	GI	166/166 (100%)	150 (90%)	16 (10%)	10	39
31	BJ	107/108 (99%)	98 (92%)	9 (8%)	13	46
31	CJ	107/108 (99%)	99 (92%)	8 (8%)	16	51
31	EJ	107/108 (99%)	99 (92%)	8 (8%)	16	51
31	GJ	107/108 (99%)	99 (92%)	8 (8%)	16	51
32	BK	120/121 (99%)	110 (92%)	10 (8%)	13	46
32	CK	120/121 (99%)	111 (92%)	9 (8%)	16	51
32	EK	120/121 (99%)	110 (92%)	10 (8%)	13	46
32	GK	120/121 (99%)	110 (92%)	10 (8%)	13	46
33	BL	174/175 (99%)	165 (95%)	9 (5%)	27	64
33	CL	174/175 (99%)	165 (95%)	9 (5%)	27	64
33	EL	174/175 (99%)	165 (95%)	9 (5%)	27	64
33	GL	174/175 (99%)	166 (95%)	8 (5%)	31	68
34	BM	252/254 (99%)	239 (95%)	13 (5%)	27	64
34	CM	253/254 (100%)	242 (96%)	11 (4%)	33	70
34	EM	253/254 (100%)	242 (96%)	11 (4%)	33	70
34	GM	253/254 (100%)	240 (95%)	13 (5%)	28	64
35	BN	159/160 (99%)	145 (91%)	14 (9%)	12	44
35	CN	159/160 (99%)	146 (92%)	13 (8%)	13	47
35	EN	159/160 (99%)	145 (91%)	14 (9%)	12	44
35	GN	159/160 (99%)	146 (92%)	13 (8%)	13	47
36	BO	158/159 (99%)	148 (94%)	10 (6%)	21	59
36	EO	126/159 (79%)	116 (92%)	10 (8%)	14	49
36	GO	127/159 (80%)	117 (92%)	10 (8%)	14	49
37	BP	134/135 (99%)	124 (92%)	10 (8%)	16	51
37	CP	134/135 (99%)	126 (94%)	8 (6%)	22	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
37	EP	134/135 (99%)	125 (93%)	9 (7%)	19	57
37	GP	134/135 (99%)	125 (93%)	9 (7%)	19	57
38	BQ	128/148 (86%)	115 (90%)	13 (10%)	8	36
38	CQ	128/148 (86%)	115 (90%)	13 (10%)	8	36
38	EQ	128/148 (86%)	115 (90%)	13 (10%)	8	36
38	GQ	128/148 (86%)	115 (90%)	13 (10%)	8	36
39	BR	108/132 (82%)	101 (94%)	7 (6%)	20	58
39	CR	108/132 (82%)	101 (94%)	7 (6%)	20	58
39	ER	108/132 (82%)	102 (94%)	6 (6%)	25	62
39	GR	108/132 (82%)	103 (95%)	5 (5%)	31	68
40	BS	113/120 (94%)	105 (93%)	8 (7%)	17	54
40	CS	113/120 (94%)	104 (92%)	9 (8%)	14	48
40	ES	113/120 (94%)	105 (93%)	8 (7%)	17	54
40	GS	113/120 (94%)	104 (92%)	9 (8%)	14	48
41	BT	52/130 (40%)	46 (88%)	6 (12%)	6	30
41	CT	52/130 (40%)	46 (88%)	6 (12%)	6	30
41	ET	52/130 (40%)	46 (88%)	6 (12%)	6	30
41	GT	52/130 (40%)	46 (88%)	6 (12%)	6	30
42	BU	105/106 (99%)	96 (91%)	9 (9%)	12	45
42	CU	105/106 (99%)	96 (91%)	9 (9%)	12	45
42	EU	105/106 (99%)	96 (91%)	9 (9%)	12	45
42	GU	105/106 (99%)	96 (91%)	9 (9%)	12	45
43	BV	197/202 (98%)	186 (94%)	11 (6%)	25	62
43	CV	197/202 (98%)	187 (95%)	10 (5%)	28	64
43	EV	197/202 (98%)	188 (95%)	9 (5%)	31	68
43	GV	197/202 (98%)	187 (95%)	10 (5%)	28	64
44	BW	100/101 (99%)	96 (96%)	4 (4%)	36	71
44	CW	100/101 (99%)	95 (95%)	5 (5%)	28	65
44	EW	100/101 (99%)	95 (95%)	5 (5%)	28	65
44	GW	100/101 (99%)	96 (96%)	4 (4%)	36	71
45	BX	104/111 (94%)	88 (85%)	16 (15%)	3	18

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	CX	104/111 (94%)	87 (84%)	17 (16%)	3	16
45	EX	104/111 (94%)	88 (85%)	16 (15%)	3	18
45	GX	104/111 (94%)	88 (85%)	16 (15%)	3	18
46	BY	79/80 (99%)	72 (91%)	7 (9%)	11	43
46	CY	79/80 (99%)	71 (90%)	8 (10%)	9	37
46	EY	79/80 (99%)	71 (90%)	8 (10%)	9	37
46	GY	79/80 (99%)	73 (92%)	6 (8%)	15	51
47	CO	126/127 (99%)	116 (92%)	10 (8%)	14	49
All	All	22468/23988 (94%)	20823 (93%)	1645 (7%)	16	53

All (1645) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AA	19	CYS
2	AA	24	LYS
2	AA	26	THR
2	AA	29	LYS
2	AA	34	CYS
2	AA	43	LYS
2	AA	44	MET
2	AA	46	ARG
2	AA	55	ARG
2	AA	62	THR
2	AA	73	ARG
3	AB	4	ASN
3	AB	32	ASP
3	AB	41	ARG
3	AB	45	ARG
4	AC	27	LYS
4	AC	58	LYS
4	AC	95	THR
5	AE	23	ASP
5	AE	28	PHE
5	AE	57	ARG
5	AE	59	ARG
5	AE	90	VAL
5	AE	95	THR
5	AE	97	SER
5	AE	107	VAL

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Mol	Chain	Res	Type
5	AE	115	ASP
5	AE	117	PHE
6	AF	8	GLN
6	AF	39	ASP
6	AF	53	VAL
6	AF	82	THR
7	AG	24	THR
7	AG	29	SER
7	AG	66	SER
7	AG	86	ARG
8	AH	13	ARG
8	AH	20	PHE
8	AH	21	THR
8	AH	30	GLN
8	AH	32	SER
8	AH	38	LYS
8	AH	44	THR
8	AH	47	ASP
8	AH	91	PHE
9	AJ	1	MET
9	AJ	5	CYS
9	AJ	36	SER
9	AJ	42	LEU
9	AJ	57	ARG
9	AJ	62	VAL
9	AJ	67	LYS
9	AJ	88	LEU
9	AJ	95	ARG
9	AJ	123	ARG
9	AJ	139	ARG
9	AJ	144	ASN
9	AJ	145	ASN
9	AJ	146	VAL
9	AJ	152	CYS
9	AJ	157	ARG
9	AJ	198	VAL
9	AJ	206	CYS
10	AK	85	LEU
10	AK	115	CYS
10	AK	122	ARG
11	AL	4	ARG
11	AL	12	SER

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Mol	Chain	Res	Type
11	AL	21	ARG
11	AL	61	PRO
11	AL	73	THR
12	AM	51	ASN
12	AM	77	TYR
12	AM	105	TYR
13	AN	4	PHE
13	AN	33	THR
13	AN	36	ARG
13	AN	49	SER
13	AN	77	LEU
13	AN	84	ARG
13	AN	143	ARG
14	AO	13	ASN
14	AO	19	ASN
14	AO	36	THR
14	AO	46	HIS
14	AO	63	ARG
14	AO	76	ILE
15	AP	4	GLU
15	AP	6	THR
15	AP	43	LYS
15	AP	55	THR
16	AQ	15	THR
16	AQ	16	THR
16	AQ	31	LYS
16	AQ	37	ARG
16	AQ	68	LYS
16	AQ	101	GLN
17	AT	3	LYS
17	AT	7	SER
17	AT	18	ARG
17	AT	23	LYS
17	AT	42	ASN
17	AT	55	LYS
18	AU	17	GLN
18	AU	22	THR
18	AU	46	PRO
18	AU	47	ARG
18	AU	74	THR
18	AU	98	ARG
18	AU	102	ARG

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Mol	Chain	Res	Type
18	AU	161	LYS
18	AU	166	VAL
18	AU	174	LYS
19	AX	18	VAL
19	AX	19	ARG
19	AX	24	SER
19	AX	41	MET
19	AX	42	ARG
19	AX	46	ARG
19	AX	85	THR
19	AX	87	LYS
19	AX	109	ARG
19	AX	124	MET
19	AX	132	PRO
19	AX	173	SER
19	AX	180	VAL
19	AX	189	PHE
22	BA	14	ASN
22	BA	19	SER
22	BA	29	GLN
22	BA	31	ARG
22	BA	32	VAL
22	BA	33	TYR
22	BA	42	ILE
22	BA	43	ARG
22	BA	45	CYS
22	BA	50	VAL
22	BA	93	LEU
22	BA	108	ILE
22	BA	128	SER
22	BA	145	ASP
22	BA	180	ILE
22	BA	186	GLN
22	BA	192	ARG
22	BA	194	ARG
22	BA	196	SER
22	BA	217	HIS
22	BA	220	ILE
22	BA	225	THR
22	BA	226	VAL
22	BA	227	SER
22	BA	231	SER

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Mol	Chain	Res	Type
22	BA	236	VAL
22	BA	238	LEU
22	BA	239	ARG
22	BA	243	ARG
22	BA	244	THR
22	BA	246	LEU
23	BB	4	ARG
23	BB	29	CYS
23	BB	55	HIS
23	BB	58	ARG
23	BB	60	VAL
23	BB	61	ASP
23	BB	62	ARG
23	BB	68	ASN
23	BB	76	VAL
23	BB	95	THR
23	BB	97	ARG
23	BB	162	THR
23	BB	204	ASP
23	BB	250	ILE
23	BB	257	ARG
23	BB	262	VAL
23	BB	276	THR
23	BB	278	LYS
23	BB	327	VAL
23	BB	332	ARG
23	BB	337	ARG
23	BB	339	SER
23	BB	367	ARG
23	BB	370	THR
24	BC	36	ASP
24	BC	74	THR
24	BC	81	ILE
24	BC	87	SER
24	BC	89	THR
24	BC	97	PHE
24	BC	99	ASN
24	BC	100	GLN
24	BC	143	PHE
24	BC	145	ARG
24	BC	157	TYR
24	BC	161	ASP

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Mol	Chain	Res	Type
24	BC	187	ARG
24	BC	209	ARG
24	BC	223	LEU
24	BC	240	ARG
24	BC	276	THR
24	BC	304	VAL
24	BC	306	SER
24	BC	328	ASN
24	BC	330	LEU
24	BC	377	ILE
24	BC	382	LYS
25	BD	10	ARG
25	BD	20	ASN
25	BD	26	SER
25	BD	48	SER
25	BD	49	ARG
25	BD	56	SER
25	BD	89	MET
25	BD	108	GLU
25	BD	114	MET
25	BD	146	SER
26	BE	35	LYS
26	BE	62	ARG
26	BE	70	SER
26	BE	113	LYS
26	BE	168	LYS
26	BE	171	ARG
27	BF	50	TYR
27	BF	53	LEU
27	BF	74	THR
27	BF	103	ARG
27	BF	149	ASP
27	BF	156	VAL
27	BF	197	ARG
29	BH	26	VAL
29	BH	32	ARG
29	BH	38	ARG
29	BH	49	VAL
29	BH	54	SER
29	BH	61	THR
29	BH	98	ARG
29	BH	115	MET

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Mol	Chain	Res	Type
29	BH	133	SER
29	BH	138	VAL
29	BH	147	TYR
29	BH	154	ARG
29	BH	168	SER
29	BH	195	SER
30	BI	24	LYS
30	BI	28	SER
30	BI	50	ARG
30	BI	54	SER
30	BI	60	TRP
30	BI	64	ASN
30	BI	76	SER
30	BI	84	ARG
30	BI	105	GLU
30	BI	116	LYS
30	BI	135	CYS
30	BI	136	LYS
30	BI	143	SER
30	BI	152	ILE
30	BI	159	ARG
30	BI	198	TYR
31	BJ	18	SER
31	BJ	23	VAL
31	BJ	47	LYS
31	BJ	50	LEU
31	BJ	61	MET
31	BJ	70	SER
31	BJ	92	ARG
31	BJ	116	SER
31	BJ	126	CYS
32	BK	12	ARG
32	BK	17	HIS
32	BK	46	LEU
32	BK	48	GLU
32	BK	58	LEU
32	BK	70	LEU
32	BK	78	ASP
32	BK	79	LYS
32	BK	129	TYR
32	BK	137	ARG
33	BL	42	SER

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Mol	Chain	Res	Type
33	BL	80	VAL
33	BL	89	ILE
33	BL	105	ARG
33	BL	152	CYS
33	BL	154	SER
33	BL	159	ARG
33	BL	165	THR
33	BL	199	LYS
34	BM	19	LYS
34	BM	23	ARG
34	BM	44	TYR
34	BM	61	ILE
34	BM	79	ASP
34	BM	107	ARG
34	BM	134	GLU
34	BM	140	LYS
34	BM	178	SER
34	BM	213	MET
34	BM	234	THR
34	BM	269	LYS
34	BM	295	PHE
35	BN	3	ILE
35	BN	4	ASP
35	BN	14	ARG
35	BN	20	THR
35	BN	23	THR
35	BN	52	ARG
35	BN	55	SER
35	BN	75	THR
35	BN	84	THR
35	BN	91	GLU
35	BN	93	LEU
35	BN	145	SER
35	BN	146	ARG
35	BN	167	VAL
36	BO	5	ARG
36	BO	9	ARG
36	BO	17	CYS
36	BO	57	ILE
36	BO	61	SER
36	BO	84	THR
36	BO	110	ARG

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Mol	Chain	Res	Type
36	BO	115	ILE
36	BO	127	SER
36	BO	137	VAL
37	BP	8	ARG
37	BP	9	ARG
37	BP	29	ARG
37	BP	45	ASP
37	BP	63	LYS
37	BP	79	ILE
37	BP	94	GLU
37	BP	128	THR
37	BP	130	ARG
37	BP	149	HIS
38	BQ	17	VAL
38	BQ	26	VAL
38	BQ	29	LYS
38	BQ	58	ARG
38	BQ	59	CYS
38	BQ	72	THR
38	BQ	82	GLN
38	BQ	89	SER
38	BQ	93	ILE
38	BQ	120	GLN
38	BQ	142	LEU
38	BQ	144	SER
38	BQ	150	ILE
39	BR	36	ARG
39	BR	69	SER
39	BR	81	MET
39	BR	90	MET
39	BR	97	ARG
39	BR	124	ILE
39	BR	150	ILE
40	BS	12	ARG
40	BS	45	ARG
40	BS	46	SER
40	BS	51	LYS
40	BS	59	ARG
40	BS	68	LYS
40	BS	107	LYS
40	BS	111	ASP
41	BT	27	ASP

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Mol	Chain	Res	Type
41	BT	39	LYS
41	BT	42	SER
41	BT	52	THR
41	BT	57	ARG
41	BT	60	LEU
42	BU	14	THR
42	BU	28	GLU
42	BU	41	THR
42	BU	43	ASN
42	BU	48	ILE
42	BU	83	ASP
42	BU	93	ARG
42	BU	109	GLN
42	BU	120	PHE
43	BV	15	ARG
43	BV	27	ARG
43	BV	63	LYS
43	BV	72	PHE
43	BV	98	ARG
43	BV	104	ARG
43	BV	121	LEU
43	BV	138	ARG
43	BV	161	THR
43	BV	223	ASP
43	BV	227	ARG
44	BW	16	HIS
44	BW	23	SER
44	BW	45	THR
44	BW	75	CYS
45	BX	32	SER
45	BX	33	SER
45	BX	35	ARG
45	BX	36	ARG
45	BX	40	ILE
45	BX	52	ARG
45	BX	57	ILE
45	BX	62	ASP
45	BX	75	LYS
45	BX	77	LEU
45	BX	79	ARG
45	BX	84	LEU
45	BX	86	ILE

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Mol	Chain	Res	Type
45	BX	89	MET
45	BX	113	ARG
45	BX	125	ASN
46	BY	4	ARG
46	BY	7	LYS
46	BY	16	THR
46	BY	21	SER
46	BY	60	CYS
46	BY	71	LEU
46	BY	73	THR
22	CA	14	ASN
22	CA	19	SER
22	CA	29	GLN
22	CA	31	ARG
22	CA	32	VAL
22	CA	33	TYR
22	CA	38	ARG
22	CA	42	ILE
22	CA	43	ARG
22	CA	45	CYS
22	CA	50	VAL
22	CA	93	LEU
22	CA	108	ILE
22	CA	128	SER
22	CA	145	ASP
22	CA	180	ILE
22	CA	186	GLN
22	CA	192	ARG
22	CA	194	ARG
22	CA	196	SER
22	CA	206	ASN
22	CA	217	HIS
22	CA	220	ILE
22	CA	225	THR
22	CA	226	VAL
22	CA	227	SER
22	CA	231	SER
22	CA	236	VAL
22	CA	238	LEU
22	CA	239	ARG
22	CA	243	ARG
22	CA	244	THR

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Mol	Chain	Res	Type
23	CB	4	ARG
23	CB	29	CYS
23	CB	37	PRO
23	CB	55	HIS
23	CB	58	ARG
23	CB	60	VAL
23	CB	61	ASP
23	CB	62	ARG
23	CB	68	ASN
23	CB	76	VAL
23	CB	95	THR
23	CB	97	ARG
23	CB	162	THR
23	CB	204	ASP
23	CB	250	ILE
23	CB	257	ARG
23	CB	262	VAL
23	CB	327	VAL
23	CB	332	ARG
23	CB	337	ARG
23	CB	339	SER
23	CB	367	ARG
23	CB	370	THR
24	CC	44	ASP
24	CC	74	THR
24	CC	81	ILE
24	CC	87	SER
24	CC	89	THR
24	CC	97	PHE
24	CC	99	ASN
24	CC	100	GLN
24	CC	143	PHE
24	CC	145	ARG
24	CC	157	TYR
24	CC	161	ASP
24	CC	187	ARG
24	CC	209	ARG
24	CC	223	LEU
24	CC	240	ARG
24	CC	276	THR
24	CC	304	VAL
24	CC	306	SER

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Mol	Chain	Res	Type
24	CC	328	ASN
24	CC	330	LEU
24	CC	377	ILE
24	CC	382	LYS
25	CD	10	ARG
25	CD	20	ASN
25	CD	26	SER
25	CD	48	SER
25	CD	49	ARG
25	CD	56	SER
25	CD	89	MET
25	CD	108	GLU
25	CD	114	MET
25	CD	146	SER
26	CE	35	LYS
26	CE	62	ARG
26	CE	70	SER
26	CE	113	LYS
26	CE	168	LYS
26	CE	171	ARG
27	CF	50	TYR
27	CF	53	LEU
27	CF	74	THR
27	CF	103	ARG
27	CF	149	ASP
27	CF	156	VAL
27	CF	197	ARG
29	CH	24	ARG
29	CH	26	VAL
29	CH	32	ARG
29	CH	49	VAL
29	CH	54	SER
29	CH	61	THR
29	CH	98	ARG
29	CH	115	MET
29	CH	133	SER
29	CH	138	VAL
29	CH	154	ARG
29	CH	168	SER
29	CH	195	SER
29	CH	200	ILE
30	CI	24	LYS

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Mol	Chain	Res	Type
30	CI	28	SER
30	CI	43	SER
30	CI	50	ARG
30	CI	54	SER
30	CI	60	TRP
30	CI	64	ASN
30	CI	76	SER
30	CI	84	ARG
30	CI	105	GLU
30	CI	116	LYS
30	CI	135	CYS
30	CI	136	LYS
30	CI	143	SER
30	CI	152	ILE
30	CI	159	ARG
30	CI	198	TYR
31	CJ	23	VAL
31	CJ	47	LYS
31	CJ	50	LEU
31	CJ	61	MET
31	CJ	70	SER
31	CJ	92	ARG
31	CJ	116	SER
31	CJ	126	CYS
32	CK	12	ARG
32	CK	17	HIS
32	CK	48	GLU
32	CK	58	LEU
32	CK	70	LEU
32	CK	78	ASP
32	CK	79	LYS
32	CK	129	TYR
32	CK	137	ARG
33	CL	42	SER
33	CL	80	VAL
33	CL	89	ILE
33	CL	105	ARG
33	CL	152	CYS
33	CL	154	SER
33	CL	159	ARG
33	CL	165	THR
33	CL	199	LYS

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Mol	Chain	Res	Type
34	CM	3	PHE
34	CM	19	LYS
34	CM	23	ARG
34	CM	61	ILE
34	CM	79	ASP
34	CM	107	ARG
34	CM	134	GLU
34	CM	178	SER
34	CM	185	ARG
34	CM	213	MET
34	CM	234	THR
35	CN	4	ASP
35	CN	14	ARG
35	CN	20	THR
35	CN	23	THR
35	CN	51	LYS
35	CN	52	ARG
35	CN	55	SER
35	CN	75	THR
35	CN	84	THR
35	CN	91	GLU
35	CN	145	SER
35	CN	146	ARG
35	CN	167	VAL
47	CO	5	ARG
47	CO	9	ARG
47	CO	17	CYS
47	CO	57	ILE
47	CO	61	SER
47	CO	84	THR
47	CO	110	ARG
47	CO	115	ILE
47	CO	127	SER
47	CO	137	VAL
37	CP	8	ARG
37	CP	9	ARG
37	CP	29	ARG
37	CP	45	ASP
37	CP	63	LYS
37	CP	94	GLU
37	CP	130	ARG
37	CP	149	HIS

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Mol	Chain	Res	Type
38	CQ	17	VAL
38	CQ	26	VAL
38	CQ	29	LYS
38	CQ	58	ARG
38	CQ	59	CYS
38	CQ	63	THR
38	CQ	72	THR
38	CQ	82	GLN
38	CQ	89	SER
38	CQ	120	GLN
38	CQ	142	LEU
38	CQ	144	SER
38	CQ	150	ILE
39	CR	36	ARG
39	CR	69	SER
39	CR	81	MET
39	CR	90	MET
39	CR	97	ARG
39	CR	124	ILE
39	CR	150	ILE
40	CS	12	ARG
40	CS	45	ARG
40	CS	46	SER
40	CS	50	ARG
40	CS	51	LYS
40	CS	59	ARG
40	CS	68	LYS
40	CS	107	LYS
40	CS	111	ASP
41	CT	27	ASP
41	CT	39	LYS
41	CT	42	SER
41	CT	52	THR
41	CT	57	ARG
41	CT	60	LEU
42	CU	14	THR
42	CU	28	GLU
42	CU	41	THR
42	CU	43	ASN
42	CU	48	ILE
42	CU	83	ASP
42	CU	93	ARG

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Mol	Chain	Res	Type
42	CU	109	GLN
42	CU	120	PHE
43	CV	15	ARG
43	CV	27	ARG
43	CV	63	LYS
43	CV	72	PHE
43	CV	98	ARG
43	CV	104	ARG
43	CV	121	LEU
43	CV	138	ARG
43	CV	161	THR
43	CV	227	ARG
44	CW	16	HIS
44	CW	23	SER
44	CW	43	MET
44	CW	45	THR
44	CW	75	CYS
45	CX	32	SER
45	CX	33	SER
45	CX	35	ARG
45	CX	36	ARG
45	CX	40	ILE
45	CX	43	ARG
45	CX	52	ARG
45	CX	57	ILE
45	CX	62	ASP
45	CX	75	LYS
45	CX	77	LEU
45	CX	79	ARG
45	CX	84	LEU
45	CX	86	ILE
45	CX	89	MET
45	CX	113	ARG
45	CX	125	ASN
46	CY	4	ARG
46	CY	7	LYS
46	CY	12	ARG
46	CY	16	THR
46	CY	21	SER
46	CY	60	CYS
46	CY	71	LEU
46	CY	73	THR

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Mol	Chain	Res	Type
2	DA	11	ARG
2	DA	24	LYS
2	DA	26	THR
2	DA	29	LYS
2	DA	34	CYS
2	DA	43	LYS
2	DA	44	MET
2	DA	46	ARG
2	DA	55	ARG
2	DA	62	THR
2	DA	73	ARG
3	DB	4	ASN
3	DB	32	ASP
3	DB	41	ARG
3	DB	45	ARG
4	DC	27	LYS
4	DC	58	LYS
4	DC	95	THR
5	DE	23	ASP
5	DE	28	PHE
5	DE	57	ARG
5	DE	59	ARG
5	DE	90	VAL
5	DE	95	THR
5	DE	97	SER
5	DE	107	VAL
5	DE	115	ASP
5	DE	117	PHE
6	DF	8	GLN
6	DF	39	ASP
6	DF	45	ARG
6	DF	53	VAL
6	DF	82	THR
7	DG	12	SER
7	DG	24	THR
7	DG	29	SER
7	DG	35	ARG
7	DG	66	SER
7	DG	86	ARG
8	DH	13	ARG
8	DH	20	PHE
8	DH	21	THR

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Mol	Chain	Res	Type
8	DH	30	GLN
8	DH	32	SER
8	DH	38	LYS
8	DH	44	THR
8	DH	47	ASP
8	DH	91	PHE
9	DJ	1	MET
9	DJ	5	CYS
9	DJ	36	SER
9	DJ	42	LEU
9	DJ	57	ARG
9	DJ	62	VAL
9	DJ	67	LYS
9	DJ	88	LEU
9	DJ	95	ARG
9	DJ	120	ASP
9	DJ	123	ARG
9	DJ	139	ARG
9	DJ	144	ASN
9	DJ	145	ASN
9	DJ	146	VAL
9	DJ	152	CYS
9	DJ	157	ARG
9	DJ	198	VAL
9	DJ	206	CYS
10	DK	85	LEU
10	DK	115	CYS
10	DK	122	ARG
11	DL	4	ARG
11	DL	12	SER
11	DL	21	ARG
11	DL	35	VAL
11	DL	73	THR
12	DM	51	ASN
12	DM	77	TYR
12	DM	105	TYR
13	DN	4	PHE
13	DN	33	THR
13	DN	36	ARG
13	DN	49	SER
13	DN	77	LEU
13	DN	84	ARG

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Mol	Chain	Res	Type
13	DN	108	SER
13	DN	143	ARG
14	DO	13	ASN
14	DO	19	ASN
14	DO	36	THR
14	DO	46	HIS
14	DO	63	ARG
14	DO	76	ILE
15	DP	4	GLU
15	DP	6	THR
15	DP	43	LYS
15	DP	55	THR
16	DQ	15	THR
16	DQ	16	THR
16	DQ	31	LYS
16	DQ	37	ARG
16	DQ	68	LYS
16	DQ	101	GLN
17	DT	7	SER
17	DT	18	ARG
17	DT	23	LYS
17	DT	55	LYS
18	DU	17	GLN
18	DU	22	THR
18	DU	47	ARG
18	DU	74	THR
18	DU	98	ARG
18	DU	102	ARG
18	DU	161	LYS
18	DU	174	LYS
19	DX	18	VAL
19	DX	19	ARG
19	DX	24	SER
19	DX	41	MET
19	DX	42	ARG
19	DX	46	ARG
19	DX	85	THR
19	DX	87	LYS
19	DX	95	TYR
19	DX	109	ARG
19	DX	124	MET
19	DX	132	PRO

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Mol	Chain	Res	Type
19	DX	173	SER
19	DX	180	VAL
19	DX	189	PHE
22	EA	14	ASN
22	EA	19	SER
22	EA	29	GLN
22	EA	31	ARG
22	EA	32	VAL
22	EA	33	TYR
22	EA	38	ARG
22	EA	42	ILE
22	EA	43	ARG
22	EA	45	CYS
22	EA	93	LEU
22	EA	108	ILE
22	EA	128	SER
22	EA	145	ASP
22	EA	180	ILE
22	EA	186	GLN
22	EA	192	ARG
22	EA	194	ARG
22	EA	196	SER
22	EA	206	ASN
22	EA	217	HIS
22	EA	220	ILE
22	EA	225	THR
22	EA	226	VAL
22	EA	227	SER
22	EA	231	SER
22	EA	236	VAL
22	EA	238	LEU
22	EA	239	ARG
22	EA	243	ARG
22	EA	244	THR
22	EA	246	LEU
23	EB	4	ARG
23	EB	29	CYS
23	EB	55	HIS
23	EB	58	ARG
23	EB	60	VAL
23	EB	61	ASP
23	EB	62	ARG

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Mol	Chain	Res	Type
23	EB	68	ASN
23	EB	76	VAL
23	EB	95	THR
23	EB	97	ARG
23	EB	120	LYS
23	EB	162	THR
23	EB	204	ASP
23	EB	250	ILE
23	EB	257	ARG
23	EB	262	VAL
23	EB	327	VAL
23	EB	332	ARG
23	EB	339	SER
23	EB	367	ARG
23	EB	370	THR
24	EC	36	ASP
24	EC	44	ASP
24	EC	74	THR
24	EC	81	ILE
24	EC	83	ARG
24	EC	87	SER
24	EC	97	PHE
24	EC	99	ASN
24	EC	100	GLN
24	EC	143	PHE
24	EC	145	ARG
24	EC	157	TYR
24	EC	161	ASP
24	EC	187	ARG
24	EC	209	ARG
24	EC	223	LEU
24	EC	240	ARG
24	EC	265	LYS
24	EC	276	THR
24	EC	304	VAL
24	EC	306	SER
24	EC	328	ASN
24	EC	330	LEU
24	EC	377	ILE
24	EC	382	LYS
25	ED	10	ARG
25	ED	20	ASN

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Mol	Chain	Res	Type
25	ED	26	SER
25	ED	37	LEU
25	ED	48	SER
25	ED	49	ARG
25	ED	56	SER
25	ED	89	MET
25	ED	108	GLU
25	ED	114	MET
25	ED	146	SER
26	EE	35	LYS
26	EE	62	ARG
26	EE	70	SER
26	EE	113	LYS
26	EE	168	LYS
26	EE	171	ARG
27	EF	50	TYR
27	EF	53	LEU
27	EF	74	THR
27	EF	103	ARG
27	EF	149	ASP
27	EF	156	VAL
27	EF	197	ARG
29	EH	26	VAL
29	EH	32	ARG
29	EH	38	ARG
29	EH	49	VAL
29	EH	54	SER
29	EH	61	THR
29	EH	98	ARG
29	EH	115	MET
29	EH	133	SER
29	EH	138	VAL
29	EH	154	ARG
29	EH	168	SER
29	EH	195	SER
30	EI	24	LYS
30	EI	28	SER
30	EI	50	ARG
30	EI	54	SER
30	EI	60	TRP
30	EI	64	ASN
30	EI	76	SER

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Mol	Chain	Res	Type
30	EI	84	ARG
30	EI	105	GLU
30	EI	116	LYS
30	EI	135	CYS
30	EI	136	LYS
30	EI	143	SER
30	EI	152	ILE
30	EI	159	ARG
30	EI	198	TYR
31	EJ	23	VAL
31	EJ	47	LYS
31	EJ	50	LEU
31	EJ	61	MET
31	EJ	70	SER
31	EJ	92	ARG
31	EJ	116	SER
31	EJ	126	CYS
32	EK	12	ARG
32	EK	17	HIS
32	EK	46	LEU
32	EK	48	GLU
32	EK	58	LEU
32	EK	70	LEU
32	EK	78	ASP
32	EK	79	LYS
32	EK	129	TYR
32	EK	137	ARG
33	EL	42	SER
33	EL	80	VAL
33	EL	89	ILE
33	EL	117	ASN
33	EL	152	CYS
33	EL	154	SER
33	EL	159	ARG
33	EL	165	THR
33	EL	199	LYS
34	EM	3	PHE
34	EM	19	LYS
34	EM	23	ARG
34	EM	61	ILE
34	EM	79	ASP
34	EM	107	ARG

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Mol	Chain	Res	Type
34	EM	134	GLU
34	EM	140	LYS
34	EM	178	SER
34	EM	213	MET
34	EM	234	THR
35	EN	4	ASP
35	EN	14	ARG
35	EN	20	THR
35	EN	23	THR
35	EN	51	LYS
35	EN	52	ARG
35	EN	55	SER
35	EN	75	THR
35	EN	84	THR
35	EN	91	GLU
35	EN	93	LEU
35	EN	145	SER
35	EN	146	ARG
35	EN	167	VAL
36	EO	5	ARG
36	EO	9	ARG
36	EO	17	CYS
36	EO	57	ILE
36	EO	61	SER
36	EO	84	THR
36	EO	110	ARG
36	EO	115	ILE
36	EO	127	SER
36	EO	137	VAL
37	EP	8	ARG
37	EP	9	ARG
37	EP	29	ARG
37	EP	45	ASP
37	EP	63	LYS
37	EP	79	ILE
37	EP	94	GLU
37	EP	130	ARG
37	EP	149	HIS
38	EQ	17	VAL
38	EQ	26	VAL
38	EQ	58	ARG
38	EQ	59	CYS

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Mol	Chain	Res	Type
38	EQ	63	THR
38	EQ	72	THR
38	EQ	82	GLN
38	EQ	89	SER
38	EQ	93	ILE
38	EQ	120	GLN
38	EQ	142	LEU
38	EQ	144	SER
38	EQ	150	ILE
39	ER	36	ARG
39	ER	69	SER
39	ER	81	MET
39	ER	90	MET
39	ER	124	ILE
39	ER	150	ILE
40	ES	12	ARG
40	ES	45	ARG
40	ES	46	SER
40	ES	51	LYS
40	ES	59	ARG
40	ES	68	LYS
40	ES	107	LYS
40	ES	111	ASP
41	ET	27	ASP
41	ET	39	LYS
41	ET	42	SER
41	ET	52	THR
41	ET	57	ARG
41	ET	60	LEU
42	EU	14	THR
42	EU	28	GLU
42	EU	41	THR
42	EU	43	ASN
42	EU	48	ILE
42	EU	83	ASP
42	EU	93	ARG
42	EU	109	GLN
42	EU	120	PHE
43	EV	15	ARG
43	EV	63	LYS
43	EV	98	ARG
43	EV	104	ARG

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Mol	Chain	Res	Type
43	EV	121	LEU
43	EV	138	ARG
43	EV	161	THR
43	EV	223	ASP
43	EV	227	ARG
44	EW	16	HIS
44	EW	23	SER
44	EW	45	THR
44	EW	69	ARG
44	EW	75	CYS
45	EX	32	SER
45	EX	33	SER
45	EX	35	ARG
45	EX	36	ARG
45	EX	40	ILE
45	EX	52	ARG
45	EX	57	ILE
45	EX	62	ASP
45	EX	75	LYS
45	EX	77	LEU
45	EX	79	ARG
45	EX	84	LEU
45	EX	86	ILE
45	EX	89	MET
45	EX	113	ARG
45	EX	125	ASN
46	EY	4	ARG
46	EY	7	LYS
46	EY	12	ARG
46	EY	16	THR
46	EY	21	SER
46	EY	60	CYS
46	EY	71	LEU
46	EY	73	THR
2	FA	24	LYS
2	FA	26	THR
2	FA	29	LYS
2	FA	34	CYS
2	FA	43	LYS
2	FA	44	MET
2	FA	46	ARG
2	FA	55	ARG

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Mol	Chain	Res	Type
2	FA	62	THR
2	FA	73	ARG
3	FB	4	ASN
3	FB	32	ASP
3	FB	41	ARG
3	FB	45	ARG
4	FC	27	LYS
4	FC	58	LYS
4	FC	95	THR
5	FE	23	ASP
5	FE	28	PHE
5	FE	57	ARG
5	FE	59	ARG
5	FE	90	VAL
5	FE	95	THR
5	FE	97	SER
5	FE	107	VAL
5	FE	115	ASP
5	FE	117	PHE
5	FE	186	PRO
6	FF	8	GLN
6	FF	39	ASP
6	FF	53	VAL
6	FF	82	THR
7	FG	24	THR
7	FG	29	SER
7	FG	35	ARG
7	FG	66	SER
7	FG	86	ARG
8	FH	13	ARG
8	FH	20	PHE
8	FH	21	THR
8	FH	30	GLN
8	FH	32	SER
8	FH	38	LYS
8	FH	44	THR
8	FH	47	ASP
8	FH	91	PHE
9	FJ	1	MET
9	FJ	5	CYS
9	FJ	36	SER
9	FJ	42	LEU

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Mol	Chain	Res	Type
9	FJ	57	ARG
9	FJ	62	VAL
9	FJ	67	LYS
9	FJ	88	LEU
9	FJ	95	ARG
9	FJ	123	ARG
9	FJ	139	ARG
9	FJ	144	ASN
9	FJ	145	ASN
9	FJ	146	VAL
9	FJ	152	CYS
9	FJ	157	ARG
9	FJ	198	VAL
9	FJ	206	CYS
10	FK	85	LEU
10	FK	115	CYS
10	FK	122	ARG
11	FL	4	ARG
11	FL	21	ARG
11	FL	35	VAL
11	FL	73	THR
12	FM	51	ASN
12	FM	77	TYR
12	FM	105	TYR
13	FN	4	PHE
13	FN	33	THR
13	FN	36	ARG
13	FN	49	SER
13	FN	77	LEU
13	FN	84	ARG
13	FN	143	ARG
14	FO	9	VAL
14	FO	13	ASN
14	FO	19	ASN
14	FO	36	THR
14	FO	46	HIS
14	FO	63	ARG
14	FO	68	HIS
14	FO	76	ILE
15	FP	4	GLU
15	FP	6	THR
15	FP	43	LYS

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Mol	Chain	Res	Type
15	FP	55	THR
16	FQ	15	THR
16	FQ	16	THR
16	FQ	31	LYS
16	FQ	37	ARG
16	FQ	68	LYS
16	FQ	101	GLN
17	FT	7	SER
17	FT	18	ARG
17	FT	23	LYS
17	FT	55	LYS
18	FU	17	GLN
18	FU	22	THR
18	FU	47	ARG
18	FU	74	THR
18	FU	98	ARG
18	FU	102	ARG
18	FU	161	LYS
18	FU	166	VAL
18	FU	174	LYS
19	FX	18	VAL
19	FX	19	ARG
19	FX	24	SER
19	FX	41	MET
19	FX	42	ARG
19	FX	46	ARG
19	FX	85	THR
19	FX	87	LYS
19	FX	95	TYR
19	FX	109	ARG
19	FX	124	MET
19	FX	132	PRO
19	FX	162	LYS
19	FX	173	SER
19	FX	180	VAL
19	FX	189	PHE
22	GA	6	ARG
22	GA	14	ASN
22	GA	19	SER
22	GA	29	GLN
22	GA	31	ARG
22	GA	32	VAL

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Mol	Chain	Res	Type
22	GA	33	TYR
22	GA	42	ILE
22	GA	43	ARG
22	GA	45	CYS
22	GA	93	LEU
22	GA	108	ILE
22	GA	128	SER
22	GA	145	ASP
22	GA	180	ILE
22	GA	186	GLN
22	GA	192	ARG
22	GA	194	ARG
22	GA	196	SER
22	GA	206	ASN
22	GA	217	HIS
22	GA	220	ILE
22	GA	225	THR
22	GA	226	VAL
22	GA	227	SER
22	GA	231	SER
22	GA	236	VAL
22	GA	238	LEU
22	GA	239	ARG
22	GA	243	ARG
22	GA	244	THR
23	GB	4	ARG
23	GB	29	CYS
23	GB	55	HIS
23	GB	58	ARG
23	GB	60	VAL
23	GB	61	ASP
23	GB	62	ARG
23	GB	68	ASN
23	GB	76	VAL
23	GB	95	THR
23	GB	97	ARG
23	GB	120	LYS
23	GB	162	THR
23	GB	204	ASP
23	GB	250	ILE
23	GB	257	ARG
23	GB	262	VAL

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Mol	Chain	Res	Type
23	GB	278	LYS
23	GB	327	VAL
23	GB	332	ARG
23	GB	337	ARG
23	GB	339	SER
23	GB	367	ARG
23	GB	370	THR
24	GC	36	ASP
24	GC	44	ASP
24	GC	74	THR
24	GC	81	ILE
24	GC	83	ARG
24	GC	87	SER
24	GC	97	PHE
24	GC	99	ASN
24	GC	100	GLN
24	GC	143	PHE
24	GC	145	ARG
24	GC	157	TYR
24	GC	161	ASP
24	GC	169	THR
24	GC	187	ARG
24	GC	209	ARG
24	GC	223	LEU
24	GC	240	ARG
24	GC	265	LYS
24	GC	304	VAL
24	GC	306	SER
24	GC	328	ASN
24	GC	330	LEU
24	GC	377	ILE
24	GC	382	LYS
25	GD	10	ARG
25	GD	20	ASN
25	GD	26	SER
25	GD	48	SER
25	GD	49	ARG
25	GD	56	SER
25	GD	89	MET
25	GD	108	GLU
25	GD	114	MET
25	GD	146	SER

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Mol	Chain	Res	Type
26	GE	35	LYS
26	GE	62	ARG
26	GE	70	SER
26	GE	113	LYS
26	GE	168	LYS
26	GE	171	ARG
27	GF	50	TYR
27	GF	53	LEU
27	GF	74	THR
27	GF	103	ARG
27	GF	149	ASP
27	GF	156	VAL
27	GF	197	ARG
29	GH	24	ARG
29	GH	26	VAL
29	GH	32	ARG
29	GH	49	VAL
29	GH	54	SER
29	GH	61	THR
29	GH	98	ARG
29	GH	115	MET
29	GH	133	SER
29	GH	138	VAL
29	GH	147	TYR
29	GH	154	ARG
29	GH	168	SER
29	GH	195	SER
29	GH	200	ILE
29	GH	208	ARG
30	GI	24	LYS
30	GI	28	SER
30	GI	50	ARG
30	GI	54	SER
30	GI	60	TRP
30	GI	64	ASN
30	GI	76	SER
30	GI	84	ARG
30	GI	105	GLU
30	GI	116	LYS
30	GI	135	CYS
30	GI	136	LYS
30	GI	143	SER

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Mol	Chain	Res	Type
30	GI	152	ILE
30	GI	159	ARG
30	GI	198	TYR
31	GJ	23	VAL
31	GJ	47	LYS
31	GJ	50	LEU
31	GJ	61	MET
31	GJ	70	SER
31	GJ	92	ARG
31	GJ	116	SER
31	GJ	126	CYS
32	GK	12	ARG
32	GK	17	HIS
32	GK	48	GLU
32	GK	58	LEU
32	GK	60	MET
32	GK	70	LEU
32	GK	78	ASP
32	GK	79	LYS
32	GK	129	TYR
32	GK	137	ARG
33	GL	42	SER
33	GL	80	VAL
33	GL	89	ILE
33	GL	105	ARG
33	GL	152	CYS
33	GL	154	SER
33	GL	159	ARG
33	GL	165	THR
34	GM	3	PHE
34	GM	19	LYS
34	GM	23	ARG
34	GM	44	TYR
34	GM	61	ILE
34	GM	79	ASP
34	GM	107	ARG
34	GM	134	GLU
34	GM	140	LYS
34	GM	178	SER
34	GM	185	ARG
34	GM	213	MET
34	GM	234	THR

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Mol	Chain	Res	Type
35	GN	4	ASP
35	GN	14	ARG
35	GN	20	THR
35	GN	23	THR
35	GN	52	ARG
35	GN	55	SER
35	GN	75	THR
35	GN	84	THR
35	GN	91	GLU
35	GN	93	LEU
35	GN	145	SER
35	GN	146	ARG
35	GN	167	VAL
36	GO	5	ARG
36	GO	9	ARG
36	GO	17	CYS
36	GO	57	ILE
36	GO	61	SER
36	GO	84	THR
36	GO	110	ARG
36	GO	115	ILE
36	GO	127	SER
36	GO	137	VAL
37	GP	8	ARG
37	GP	9	ARG
37	GP	29	ARG
37	GP	45	ASP
37	GP	63	LYS
37	GP	94	GLU
37	GP	128	THR
37	GP	130	ARG
37	GP	149	HIS
38	GQ	17	VAL
38	GQ	26	VAL
38	GQ	58	ARG
38	GQ	59	CYS
38	GQ	63	THR
38	GQ	72	THR
38	GQ	82	GLN
38	GQ	89	SER
38	GQ	93	ILE
38	GQ	120	GLN

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Mol	Chain	Res	Type
38	GQ	142	LEU
38	GQ	144	SER
38	GQ	150	ILE
39	GR	36	ARG
39	GR	81	MET
39	GR	90	MET
39	GR	124	ILE
39	GR	150	ILE
40	GS	12	ARG
40	GS	45	ARG
40	GS	46	SER
40	GS	50	ARG
40	GS	51	LYS
40	GS	59	ARG
40	GS	68	LYS
40	GS	107	LYS
40	GS	111	ASP
41	GT	27	ASP
41	GT	39	LYS
41	GT	42	SER
41	GT	52	THR
41	GT	57	ARG
41	GT	60	LEU
42	GU	14	THR
42	GU	28	GLU
42	GU	41	THR
42	GU	43	ASN
42	GU	48	ILE
42	GU	83	ASP
42	GU	93	ARG
42	GU	109	GLN
42	GU	120	PHE
43	GV	15	ARG
43	GV	27	ARG
43	GV	63	LYS
43	GV	98	ARG
43	GV	104	ARG
43	GV	121	LEU
43	GV	138	ARG
43	GV	161	THR
43	GV	223	ASP
43	GV	227	ARG

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Mol	Chain	Res	Type
44	GW	16	HIS
44	GW	23	SER
44	GW	45	THR
44	GW	75	CYS
45	GX	32	SER
45	GX	33	SER
45	GX	35	ARG
45	GX	36	ARG
45	GX	40	ILE
45	GX	52	ARG
45	GX	57	ILE
45	GX	62	ASP
45	GX	75	LYS
45	GX	77	LEU
45	GX	79	ARG
45	GX	84	LEU
45	GX	86	ILE
45	GX	89	MET
45	GX	113	ARG
45	GX	125	ASN
46	GY	4	ARG
46	GY	7	LYS
46	GY	16	THR
46	GY	60	CYS
46	GY	71	LEU
46	GY	73	THR
2	HA	24	LYS
2	HA	26	THR
2	HA	29	LYS
2	HA	34	CYS
2	HA	43	LYS
2	HA	44	MET
2	HA	46	ARG
2	HA	55	ARG
2	HA	62	THR
2	HA	68	MET
2	HA	73	ARG
3	HB	4	ASN
3	HB	32	ASP
3	HB	41	ARG
3	HB	45	ARG
4	HC	27	LYS

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Mol	Chain	Res	Type
4	HC	58	LYS
4	HC	95	THR
5	HE	23	ASP
5	HE	28	PHE
5	HE	57	ARG
5	HE	59	ARG
5	HE	90	VAL
5	HE	95	THR
5	HE	97	SER
5	HE	107	VAL
5	HE	115	ASP
5	HE	117	PHE
5	HE	183	ASN
6	HF	8	GLN
6	HF	39	ASP
6	HF	53	VAL
6	HF	82	THR
7	HG	24	THR
7	HG	29	SER
7	HG	66	SER
7	HG	86	ARG
8	HH	13	ARG
8	HH	20	PHE
8	HH	21	THR
8	HH	30	GLN
8	HH	32	SER
8	HH	38	LYS
8	HH	44	THR
8	HH	47	ASP
8	HH	91	PHE
9	HJ	1	MET
9	HJ	5	CYS
9	HJ	36	SER
9	HJ	42	LEU
9	HJ	57	ARG
9	HJ	62	VAL
9	HJ	67	LYS
9	HJ	88	LEU
9	HJ	95	ARG
9	HJ	123	ARG
9	HJ	139	ARG
9	HJ	144	ASN

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Mol	Chain	Res	Type
9	HJ	145	ASN
9	HJ	146	VAL
9	HJ	152	CYS
9	HJ	157	ARG
9	HJ	198	VAL
9	HJ	206	CYS
10	HK	85	LEU
10	HK	115	CYS
10	HK	122	ARG
11	HL	4	ARG
11	HL	12	SER
11	HL	21	ARG
11	HL	35	VAL
11	HL	73	THR
12	HM	51	ASN
12	HM	77	TYR
12	HM	105	TYR
13	HN	4	PHE
13	HN	33	THR
13	HN	36	ARG
13	HN	49	SER
13	HN	77	LEU
13	HN	84	ARG
13	HN	143	ARG
14	HO	13	ASN
14	HO	19	ASN
14	HO	36	THR
14	HO	46	HIS
14	HO	63	ARG
14	HO	76	ILE
15	HP	4	GLU
15	HP	6	THR
15	HP	43	LYS
15	HP	55	THR
16	HQ	15	THR
16	HQ	16	THR
16	HQ	31	LYS
16	HQ	37	ARG
16	HQ	68	LYS
16	HQ	101	GLN
17	HT	7	SER
17	HT	18	ARG

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Mol	Chain	Res	Type
17	HT	23	LYS
17	HT	55	LYS
18	HU	17	GLN
18	HU	22	THR
18	HU	47	ARG
18	HU	74	THR
18	HU	98	ARG
18	HU	102	ARG
18	HU	161	LYS
18	HU	174	LYS
19	HX	18	VAL
19	HX	19	ARG
19	HX	24	SER
19	HX	41	MET
19	HX	42	ARG
19	HX	46	ARG
19	HX	85	THR
19	HX	87	LYS
19	HX	109	ARG
19	HX	124	MET
19	HX	173	SER
19	HX	180	VAL
19	HX	189	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (750) such sidechains are listed below:

Mol	Chain	Res	Type
2	AA	12	HIS
2	AA	16	HIS
2	AA	28	HIS
2	AA	30	GLN
3	AB	4	ASN
5	AE	29	HIS
5	AE	92	GLN
5	AE	147	ASN
5	AE	153	GLN
5	AE	182	ASN
6	AF	8	GLN
6	AF	67	GLN
7	AG	36	ASN
7	AG	47	ASN
7	AG	68	HIS

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Mol	Chain	Res	Type
8	AH	28	HIS
8	AH	69	ASN
8	AH	81	HIS
8	AH	94	ASN
8	AH	98	GLN
8	AH	111	ASN
9	AJ	50	HIS
9	AJ	118	HIS
9	AJ	144	ASN
9	AJ	145	ASN
9	AJ	156	ASN
9	AJ	162	HIS
9	AJ	187	ASN
10	AK	109	ASN
11	AL	50	ASN
11	AL	54	ASN
11	AL	58	GLN
12	AM	14	ASN
12	AM	51	ASN
12	AM	55	ASN
12	AM	68	GLN
13	AN	79	HIS
14	AO	19	ASN
14	AO	46	HIS
14	AO	56	GLN
14	AO	113	ASN
14	AO	115	HIS
14	AO	122	GLN
16	AQ	23	GLN
16	AQ	25	HIS
17	AT	6	ASN
17	AT	17	HIS
17	AT	49	ASN
17	AT	58	ASN
18	AU	3	HIS
18	AU	5	ASN
18	AU	15	HIS
18	AU	16	GLN
18	AU	26	GLN
18	AU	61	GLN
18	AU	64	ASN
18	AU	101	ASN

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Mol	Chain	Res	Type
18	AU	137	ASN
18	AU	168	ASN
18	AU	187	ASN
19	AX	7	GLN
19	AX	15	GLN
19	AX	20	GLN
19	AX	40	GLN
19	AX	50	HIS
19	AX	127	ASN
19	AX	136	GLN
22	BA	14	ASN
22	BA	20	HIS
22	BA	206	ASN
22	BA	210	HIS
22	BA	216	ASN
22	BA	251	GLN
23	BB	24	HIS
23	BB	25	HIS
23	BB	55	HIS
23	BB	68	ASN
23	BB	121	ASN
23	BB	133	HIS
23	BB	163	ASN
23	BB	168	ASN
23	BB	171	GLN
23	BB	174	ASN
23	BB	175	HIS
23	BB	210	ASN
23	BB	235	HIS
23	BB	254	HIS
23	BB	271	HIS
23	BB	272	HIS
23	BB	277	ASN
23	BB	343	GLN
24	BC	6	GLN
24	BC	67	HIS
24	BC	99	ASN
24	BC	100	GLN
24	BC	117	HIS
24	BC	123	ASN
24	BC	171	GLN
24	BC	203	ASN

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Mol	Chain	Res	Type
24	BC	229	ASN
24	BC	242	ASN
24	BC	251	HIS
24	BC	292	ASN
24	BC	317	HIS
25	BD	43	GLN
25	BD	68	HIS
25	BD	95	ASN
25	BD	98	ASN
25	BD	152	GLN
26	BE	56	GLN
26	BE	154	GLN
27	BF	19	ASN
27	BF	36	GLN
27	BF	54	GLN
27	BF	62	GLN
27	BF	71	HIS
27	BF	72	GLN
27	BF	107	GLN
27	BF	138	ASN
27	BF	166	ASN
27	BF	216	ASN
27	BF	232	GLN
27	BF	236	HIS
29	BH	59	GLN
29	BH	75	ASN
29	BH	86	HIS
29	BH	144	HIS
29	BH	196	ASN
30	BI	13	HIS
30	BI	30	GLN
30	BI	64	ASN
30	BI	89	HIS
31	BJ	32	ASN
31	BJ	102	ASN
32	BK	14	HIS
32	BK	17	HIS
32	BK	19	HIS
32	BK	120	ASN
33	BL	90	ASN
33	BL	144	ASN
33	BL	179	HIS

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Mol	Chain	Res	Type
33	BL	191	ASN
34	BM	57	ASN
34	BM	200	HIS
34	BM	227	GLN
34	BM	251	HIS
35	BN	59	ASN
35	BN	79	GLN
36	BO	119	GLN
36	BO	134	ASN
37	BP	49	HIS
37	BP	77	HIS
37	BP	90	HIS
37	BP	112	ASN
37	BP	131	ASN
38	BQ	45	ASN
38	BQ	76	HIS
38	BQ	82	GLN
38	BQ	103	ASN
38	BQ	113	ASN
38	BQ	117	GLN
38	BQ	135	HIS
38	BQ	139	ASN
38	BQ	153	GLN
39	BR	64	HIS
39	BR	95	HIS
39	BR	145	ASN
40	BS	4	HIS
42	BU	114	ASN
43	BV	90	ASN
43	BV	91	GLN
43	BV	107	GLN
43	BV	109	HIS
43	BV	139	ASN
43	BV	216	HIS
43	BV	219	HIS
44	BW	4	GLN
44	BW	14	ASN
44	BW	16	HIS
44	BW	20	HIS
45	BX	42	ASN
45	BX	123	ASN
45	BX	125	ASN

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Mol	Chain	Res	Type
46	BY	34	HIS
46	BY	103	ASN
22	CA	14	ASN
22	CA	20	HIS
22	CA	206	ASN
22	CA	210	HIS
22	CA	216	ASN
22	CA	251	GLN
23	CB	24	HIS
23	CB	25	HIS
23	CB	55	HIS
23	CB	68	ASN
23	CB	124	ASN
23	CB	133	HIS
23	CB	163	ASN
23	CB	168	ASN
23	CB	171	GLN
23	CB	174	ASN
23	CB	175	HIS
23	CB	210	ASN
23	CB	235	HIS
23	CB	254	HIS
23	CB	271	HIS
23	CB	272	HIS
23	CB	277	ASN
24	CC	6	GLN
24	CC	67	HIS
24	CC	99	ASN
24	CC	100	GLN
24	CC	117	HIS
24	CC	123	ASN
24	CC	171	GLN
24	CC	229	ASN
24	CC	242	ASN
24	CC	251	HIS
24	CC	292	ASN
24	CC	317	HIS
25	CD	43	GLN
25	CD	95	ASN
25	CD	152	GLN
26	CE	56	GLN
26	CE	154	GLN

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Mol	Chain	Res	Type
27	CF	36	GLN
27	CF	54	GLN
27	CF	62	GLN
27	CF	71	HIS
27	CF	72	GLN
27	CF	107	GLN
27	CF	138	ASN
27	CF	166	ASN
27	CF	216	ASN
27	CF	232	GLN
27	CF	236	HIS
29	CH	59	GLN
29	CH	75	ASN
29	CH	144	HIS
30	CI	13	HIS
30	CI	30	GLN
30	CI	49	ASN
30	CI	64	ASN
30	CI	89	HIS
31	CJ	32	ASN
31	CJ	102	ASN
32	CK	14	HIS
32	CK	17	HIS
32	CK	19	HIS
32	CK	51	HIS
32	CK	120	ASN
33	CL	90	ASN
33	CL	144	ASN
33	CL	191	ASN
34	CM	57	ASN
34	CM	200	HIS
34	CM	227	GLN
34	CM	251	HIS
35	CN	59	ASN
35	CN	158	GLN
47	CO	58	HIS
47	CO	134	ASN
37	CP	24	HIS
37	CP	49	HIS
37	CP	77	HIS
37	CP	112	ASN
37	CP	131	ASN

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Mol	Chain	Res	Type
38	CQ	27	HIS
38	CQ	45	ASN
38	CQ	76	HIS
38	CQ	82	GLN
38	CQ	103	ASN
38	CQ	113	ASN
38	CQ	117	GLN
38	CQ	135	HIS
38	CQ	139	ASN
38	CQ	153	GLN
39	CR	64	HIS
39	CR	95	HIS
39	CR	145	ASN
40	CS	4	HIS
42	CU	114	ASN
43	CV	46	GLN
43	CV	90	ASN
43	CV	91	GLN
43	CV	107	GLN
43	CV	109	HIS
43	CV	139	ASN
43	CV	216	HIS
44	CW	4	GLN
44	CW	14	ASN
44	CW	16	HIS
44	CW	20	HIS
45	CX	42	ASN
45	CX	67	HIS
45	CX	123	ASN
45	CX	125	ASN
46	CY	34	HIS
46	CY	103	ASN
2	DA	12	HIS
2	DA	16	HIS
2	DA	28	HIS
2	DA	30	GLN
3	DB	4	ASN
5	DE	29	HIS
5	DE	92	GLN
5	DE	147	ASN
5	DE	153	GLN
5	DE	182	ASN

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Mol	Chain	Res	Type
6	DF	8	GLN
6	DF	67	GLN
7	DG	36	ASN
7	DG	47	ASN
7	DG	68	HIS
8	DH	28	HIS
8	DH	69	ASN
8	DH	81	HIS
8	DH	94	ASN
8	DH	98	GLN
8	DH	111	ASN
9	DJ	50	HIS
9	DJ	118	HIS
9	DJ	144	ASN
9	DJ	145	ASN
9	DJ	156	ASN
9	DJ	162	HIS
9	DJ	187	ASN
10	DK	109	ASN
11	DL	50	ASN
11	DL	54	ASN
11	DL	58	GLN
12	DM	14	ASN
12	DM	51	ASN
12	DM	55	ASN
12	DM	68	GLN
13	DN	15	GLN
13	DN	79	HIS
14	DO	19	ASN
14	DO	46	HIS
14	DO	56	GLN
14	DO	88	GLN
14	DO	113	ASN
14	DO	115	HIS
16	DQ	23	GLN
16	DQ	25	HIS
17	DT	6	ASN
17	DT	17	HIS
17	DT	49	ASN
17	DT	58	ASN
18	DU	3	HIS
18	DU	5	ASN

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Mol	Chain	Res	Type
18	DU	15	HIS
18	DU	16	GLN
18	DU	26	GLN
18	DU	61	GLN
18	DU	101	ASN
18	DU	137	ASN
18	DU	148	ASN
18	DU	168	ASN
18	DU	187	ASN
19	DX	7	GLN
19	DX	15	GLN
19	DX	20	GLN
19	DX	40	GLN
19	DX	50	HIS
19	DX	96	GLN
19	DX	127	ASN
19	DX	136	GLN
22	EA	14	ASN
22	EA	20	HIS
22	EA	51	HIS
22	EA	206	ASN
22	EA	210	HIS
22	EA	251	GLN
23	EB	24	HIS
23	EB	25	HIS
23	EB	55	HIS
23	EB	68	ASN
23	EB	124	ASN
23	EB	133	HIS
23	EB	163	ASN
23	EB	168	ASN
23	EB	171	GLN
23	EB	174	ASN
23	EB	175	HIS
23	EB	210	ASN
23	EB	235	HIS
23	EB	254	HIS
23	EB	271	HIS
23	EB	272	HIS
23	EB	277	ASN
23	EB	343	GLN
24	EC	6	GLN

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Mol	Chain	Res	Type
24	EC	39	HIS
24	EC	51	GLN
24	EC	67	HIS
24	EC	99	ASN
24	EC	100	GLN
24	EC	117	HIS
24	EC	123	ASN
24	EC	171	GLN
24	EC	203	ASN
24	EC	229	ASN
24	EC	242	ASN
24	EC	251	HIS
24	EC	292	ASN
24	EC	305	GLN
24	EC	317	HIS
25	ED	43	GLN
25	ED	68	HIS
25	ED	95	ASN
25	ED	98	ASN
25	ED	152	GLN
26	EE	56	GLN
27	EF	36	GLN
27	EF	54	GLN
27	EF	62	GLN
27	EF	71	HIS
27	EF	72	GLN
27	EF	107	GLN
27	EF	138	ASN
27	EF	166	ASN
27	EF	216	ASN
27	EF	232	GLN
27	EF	236	HIS
29	EH	59	GLN
29	EH	75	ASN
29	EH	86	HIS
29	EH	144	HIS
30	EI	13	HIS
30	EI	30	GLN
30	EI	49	ASN
30	EI	64	ASN
30	EI	89	HIS
31	EJ	32	ASN

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Mol	Chain	Res	Type
31	EJ	102	ASN
32	EK	14	HIS
32	EK	17	HIS
32	EK	19	HIS
32	EK	120	ASN
33	EL	90	ASN
33	EL	191	ASN
34	EM	57	ASN
34	EM	200	HIS
34	EM	227	GLN
34	EM	251	HIS
35	EN	59	ASN
36	EO	58	HIS
36	EO	134	ASN
37	EP	49	HIS
37	EP	77	HIS
37	EP	90	HIS
37	EP	112	ASN
37	EP	131	ASN
38	EQ	27	HIS
38	EQ	30	ASN
38	EQ	45	ASN
38	EQ	76	HIS
38	EQ	82	GLN
38	EQ	103	ASN
38	EQ	113	ASN
38	EQ	117	GLN
38	EQ	135	HIS
38	EQ	139	ASN
38	EQ	153	GLN
39	ER	64	HIS
39	ER	95	HIS
39	ER	145	ASN
40	ES	4	HIS
42	EU	114	ASN
43	EV	90	ASN
43	EV	91	GLN
43	EV	107	GLN
43	EV	109	HIS
43	EV	139	ASN
43	EV	216	HIS
43	EV	219	HIS

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Mol	Chain	Res	Type
43	EV	220	GLN
44	EW	4	GLN
44	EW	14	ASN
44	EW	16	HIS
44	EW	20	HIS
45	EX	42	ASN
45	EX	80	ASN
45	EX	123	ASN
45	EX	125	ASN
46	EY	103	ASN
2	FA	12	HIS
2	FA	16	HIS
2	FA	28	HIS
2	FA	30	GLN
3	FB	4	ASN
5	FE	29	HIS
5	FE	92	GLN
5	FE	147	ASN
5	FE	153	GLN
5	FE	182	ASN
6	FF	8	GLN
6	FF	67	GLN
7	FG	36	ASN
7	FG	47	ASN
7	FG	68	HIS
8	FH	28	HIS
8	FH	69	ASN
8	FH	81	HIS
8	FH	94	ASN
8	FH	98	GLN
8	FH	111	ASN
9	FJ	45	HIS
9	FJ	50	HIS
9	FJ	118	HIS
9	FJ	144	ASN
9	FJ	145	ASN
9	FJ	156	ASN
9	FJ	162	HIS
9	FJ	187	ASN
9	FJ	225	ASN
10	FK	109	ASN
11	FL	50	ASN

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Mol	Chain	Res	Type
11	FL	54	ASN
11	FL	58	GLN
12	FM	14	ASN
12	FM	51	ASN
12	FM	55	ASN
12	FM	68	GLN
13	FN	15	GLN
13	FN	79	HIS
14	FO	19	ASN
14	FO	44	HIS
14	FO	46	HIS
14	FO	56	GLN
14	FO	88	GLN
14	FO	113	ASN
14	FO	115	HIS
16	FQ	23	GLN
16	FQ	25	HIS
17	FT	6	ASN
17	FT	17	HIS
17	FT	49	ASN
17	FT	58	ASN
18	FU	3	HIS
18	FU	5	ASN
18	FU	15	HIS
18	FU	16	GLN
18	FU	61	GLN
18	FU	76	GLN
18	FU	101	ASN
18	FU	137	ASN
18	FU	148	ASN
18	FU	168	ASN
18	FU	187	ASN
19	FX	15	GLN
19	FX	20	GLN
19	FX	40	GLN
19	FX	50	HIS
19	FX	136	GLN
22	GA	14	ASN
22	GA	20	HIS
22	GA	51	HIS
22	GA	206	ASN
22	GA	210	HIS

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Mol	Chain	Res	Type
22	GA	251	GLN
23	GB	24	HIS
23	GB	25	HIS
23	GB	55	HIS
23	GB	68	ASN
23	GB	124	ASN
23	GB	133	HIS
23	GB	163	ASN
23	GB	168	ASN
23	GB	171	GLN
23	GB	174	ASN
23	GB	175	HIS
23	GB	210	ASN
23	GB	235	HIS
23	GB	254	HIS
23	GB	271	HIS
23	GB	272	HIS
23	GB	277	ASN
23	GB	343	GLN
24	GC	6	GLN
24	GC	51	GLN
24	GC	67	HIS
24	GC	99	ASN
24	GC	100	GLN
24	GC	117	HIS
24	GC	123	ASN
24	GC	171	GLN
24	GC	203	ASN
24	GC	229	ASN
24	GC	242	ASN
24	GC	251	HIS
24	GC	292	ASN
24	GC	305	GLN
24	GC	317	HIS
25	GD	43	GLN
25	GD	68	HIS
25	GD	95	ASN
25	GD	152	GLN
26	GE	56	GLN
27	GF	36	GLN
27	GF	54	GLN
27	GF	62	GLN

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Mol	Chain	Res	Type
27	GF	71	HIS
27	GF	72	GLN
27	GF	107	GLN
27	GF	138	ASN
27	GF	166	ASN
27	GF	216	ASN
27	GF	232	GLN
27	GF	236	HIS
29	GH	59	GLN
29	GH	75	ASN
29	GH	86	HIS
30	GI	13	HIS
30	GI	30	GLN
30	GI	49	ASN
30	GI	62	ASN
30	GI	64	ASN
30	GI	89	HIS
31	GJ	32	ASN
31	GJ	102	ASN
32	GK	14	HIS
32	GK	17	HIS
32	GK	19	HIS
32	GK	51	HIS
32	GK	120	ASN
33	GL	90	ASN
33	GL	144	ASN
33	GL	179	HIS
33	GL	191	ASN
34	GM	57	ASN
34	GM	200	HIS
34	GM	227	GLN
34	GM	251	HIS
35	GN	59	ASN
35	GN	79	GLN
35	GN	158	GLN
35	GN	162	HIS
36	GO	58	HIS
36	GO	134	ASN
37	GP	49	HIS
37	GP	68	ASN
37	GP	77	HIS
37	GP	112	ASN

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Mol	Chain	Res	Type
37	GP	131	ASN
38	GQ	27	HIS
38	GQ	30	ASN
38	GQ	45	ASN
38	GQ	76	HIS
38	GQ	82	GLN
38	GQ	103	ASN
38	GQ	113	ASN
38	GQ	117	GLN
38	GQ	135	HIS
38	GQ	139	ASN
38	GQ	153	GLN
39	GR	64	HIS
39	GR	95	HIS
39	GR	145	ASN
40	GS	4	HIS
42	GU	114	ASN
43	GV	46	GLN
43	GV	90	ASN
43	GV	91	GLN
43	GV	107	GLN
43	GV	109	HIS
43	GV	139	ASN
43	GV	216	HIS
43	GV	219	HIS
43	GV	220	GLN
43	GV	226	ASN
44	GW	4	GLN
44	GW	14	ASN
44	GW	16	HIS
44	GW	20	HIS
44	GW	65	ASN
45	GX	42	ASN
45	GX	80	ASN
45	GX	123	ASN
45	GX	125	ASN
46	GY	103	ASN
2	HA	12	HIS
2	HA	16	HIS
2	HA	28	HIS
2	HA	30	GLN
3	HB	4	ASN

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Mol	Chain	Res	Type
5	HE	29	HIS
5	HE	92	GLN
5	HE	147	ASN
5	HE	153	GLN
5	HE	182	ASN
6	HF	8	GLN
6	HF	67	GLN
7	HG	36	ASN
7	HG	47	ASN
7	HG	68	HIS
8	HH	28	HIS
8	HH	69	ASN
8	HH	81	HIS
8	HH	94	ASN
8	HH	98	GLN
8	HH	111	ASN
9	HJ	45	HIS
9	HJ	50	HIS
9	HJ	118	HIS
9	HJ	144	ASN
9	HJ	145	ASN
9	HJ	156	ASN
9	HJ	162	HIS
9	HJ	187	ASN
9	HJ	225	ASN
10	HK	109	ASN
10	HK	119	ASN
11	HL	50	ASN
11	HL	54	ASN
11	HL	58	GLN
12	HM	14	ASN
12	HM	51	ASN
12	HM	55	ASN
12	HM	68	GLN
13	HN	15	GLN
13	HN	79	HIS
14	HO	19	ASN
14	HO	44	HIS
14	HO	46	HIS
14	HO	56	GLN
14	HO	88	GLN
14	HO	113	ASN

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Mol	Chain	Res	Type
14	HO	115	HIS
16	HQ	23	GLN
17	HT	17	HIS
17	HT	49	ASN
17	HT	58	ASN
18	HU	3	HIS
18	HU	5	ASN
18	HU	15	HIS
18	HU	16	GLN
18	HU	61	GLN
18	HU	64	ASN
18	HU	101	ASN
18	HU	137	ASN
18	HU	148	ASN
18	HU	168	ASN
18	HU	187	ASN
19	HX	15	GLN
19	HX	20	GLN
19	HX	40	GLN
19	HX	50	HIS
19	HX	136	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A1	3114/3354 (92%)	1118 (35%)	0
1	D1	3114/3354 (92%)	1113 (35%)	0
1	F1	3114/3354 (92%)	1113 (35%)	0
1	H1	3114/3354 (92%)	1113 (35%)	0
20	B2	153/154 (99%)	58 (37%)	0
20	C2	153/154 (99%)	60 (39%)	0
20	E2	153/154 (99%)	60 (39%)	0
20	G2	153/154 (99%)	60 (39%)	0
21	B3	119/120 (99%)	38 (31%)	0
21	C3	119/120 (99%)	39 (32%)	0
21	E3	119/120 (99%)	38 (31%)	0
21	G3	119/120 (99%)	38 (31%)	0
All	All	13544/14512 (93%)	4848 (35%)	0

All (4848) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A1	9	G
1	A1	16	G
1	A1	17	C
1	A1	19	A
1	A1	20	G
1	A1	24	A
1	A1	27	C
1	A1	32	A
1	A1	36	U
1	A1	38	A
1	A1	41	A
1	A1	43	A
1	A1	47	G
1	A1	48	U
1	A1	57	G
1	A1	58	A
1	A1	63	A
1	A1	64	A
1	A1	66	C
1	A1	67	U
1	A1	69	A
1	A1	70	C
1	A1	71	U
1	A1	72	A
1	A1	74	G
1	A1	75	A
1	A1	81	C
1	A1	83	A
1	A1	84	G
1	A1	87	A
1	A1	89	G
1	A1	90	G
1	A1	92	G
1	A1	93	A
1	A1	95	U
1	A1	97	A
1	A1	107	A
1	A1	108	G
1	A1	112	A
1	A1	114	A
1	A1	115	G
1	A1	116	U
1	A1	118	A

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Mol	Chain	Res	Type
1	A1	119	A
1	A1	120	A
1	A1	121	A
1	A1	122	U
1	A1	127	A
1	A1	128	G
1	A1	130	G
1	A1	133	C
1	A1	134	A
1	A1	135	A
1	A1	136	C
1	A1	137	A
1	A1	138	C
1	A1	139	A
1	A1	143	G
1	A1	147	U
1	A1	148	G
1	A1	149	U
1	A1	152	U
1	A1	156	A
1	A1	157	A
1	A1	162	C
1	A1	166	C
1	A1	169	A
1	A1	174	A
1	A1	176	G
1	A1	177	C
1	A1	182	C
1	A1	188	A
1	A1	189	G
1	A1	190	U
1	A1	191	U
1	A1	193	C
1	A1	196	G
1	A1	201	A
1	A1	203	G
1	A1	205	C
1	A1	207	U
1	A1	211	A
1	A1	215	G
1	A1	217	U
1	A1	218	G

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Mol	Chain	Res	Type
1	A1	219	A
1	A1	220	C
1	A1	221	A
1	A1	223	C
1	A1	224	C
1	A1	227	G
1	A1	231	U
1	A1	232	C
1	A1	233	G
1	A1	240	A
1	A1	241	A
1	A1	242	G
1	A1	243	G
1	A1	250	U
1	A1	252	A
1	A1	254	G
1	A1	255	G
1	A1	258	A
1	A1	261	U
1	A1	262	C
1	A1	264	A
1	A1	265	A
1	A1	268	G
1	A1	271	G
1	A1	281	G
1	A1	282	G
1	A1	283	A
1	A1	284	U
1	A1	289	G
1	A1	292	C
1	A1	293	U
1	A1	294	A
1	A1	297	U
1	A1	299	G
1	A1	300	G
1	A1	304	U
1	A1	305	A
1	A1	307	A
1	A1	315	U
1	A1	328	A
1	A1	329	C
1	A1	332	G

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Mol	Chain	Res	Type
1	A1	333	G
1	A1	334	G
1	A1	335	A
1	A1	337	A
1	A1	338	C
1	A1	339	C
1	A1	340	G
1	A1	341	A
1	A1	351	A
1	A1	352	G
1	A1	361	A
1	A1	362	G
1	A1	363	G
1	A1	368	A
1	A1	369	U
1	A1	370	G
1	A1	373	A
1	A1	374	A
1	A1	375	G
1	A1	376	A
1	A1	377	A
1	A1	383	A
1	A1	385	A
1	A1	386	A
1	A1	389	G
1	A1	396	A
1	A1	397	A
1	A1	399	A
1	A1	400	C
1	A1	414	G
1	A1	416	A
1	A1	418	G
1	A1	419	A
1	A1	432	G
1	A1	433	C
1	A1	434	A
1	A1	435	A
1	A1	438	A
1	A1	439	A
1	A1	440	C
1	A1	442	G
1	A1	448	C

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Mol	Chain	Res	Type
1	A1	449	G
1	A1	450	C
1	A1	451	A
1	A1	453	A
1	A1	460	A
1	A1	461	A
1	A1	465	C
1	A1	466	U
1	A1	467	A
1	A1	469	U
1	A1	470	C
1	A1	471	A
1	A1	472	C
1	A1	486	C
1	A1	487	G
1	A1	489	A
1	A1	490	A
1	A1	492	A
1	A1	498	A
1	A1	499	U
1	A1	501	A
1	A1	502	G
1	A1	503	U
1	A1	505	A
1	A1	507	G
1	A1	516	C
1	A1	517	A
1	A1	518	G
1	A1	519	A
1	A1	521	C
1	A1	523	U
1	A1	525	C
1	A1	526	U
1	A1	527	A
1	A1	528	C
1	A1	532	G
1	A1	533	G
1	A1	539	A
1	A1	541	A
1	A1	543	A
1	A1	552	U
1	A1	556	A

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Mol	Chain	Res	Type
1	A1	562	G
1	A1	564	A
1	A1	565	G
1	A1	566	U
1	A1	567	C
1	A1	568	A
1	A1	572	G
1	A1	576	U
1	A1	578	G
1	A1	579	G
1	A1	580	G
1	A1	582	A
1	A1	584	C
1	A1	586	A
1	A1	587	U
1	A1	591	G
1	A1	592	A
1	A1	595	A
1	A1	599	G
1	A1	600	G
1	A1	611	A
1	A1	612	C
1	A1	614	G
1	A1	615	G
1	A1	618	U
1	A1	620	A
1	A1	622	G
1	A1	623	G
1	A1	625	C
1	A1	626	C
1	A1	627	U
1	A1	628	A
1	A1	629	A
1	A1	631	G
1	A1	634	G
1	A1	635	A
1	A1	636	U
1	A1	643	A
1	A1	644	A
1	A1	645	A
1	A1	646	A
1	A1	660	C

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Mol	Chain	Res	Type
1	A1	661	C
1	A1	662	C
1	A1	663	G
1	A1	666	U
1	A1	673	A
1	A1	684	A
1	A1	685	G
1	A1	686	U
1	A1	697	A
1	A1	701	A
1	A1	709	G
1	A1	711	U
1	A1	719	C
1	A1	720	C
1	A1	723	U
1	A1	724	C
1	A1	728	G
1	A1	729	A
1	A1	730	A
1	A1	733	G
1	A1	737	G
1	A1	740	A
1	A1	741	G
1	A1	742	U
1	A1	743	A
1	A1	745	A
1	A1	747	G
1	A1	751	C
1	A1	753	A
1	A1	757	C
1	A1	761	A
1	A1	767	C
1	A1	773	C
1	A1	775	C
1	A1	777	C
1	A1	788	C
1	A1	789	U
1	A1	790	C
1	A1	791	C
1	A1	792	G
1	A1	799	G
1	A1	800	G

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Mol	Chain	Res	Type
1	A1	801	U
1	A1	803	C
1	A1	805	A
1	A1	806	G
1	A1	807	G
1	A1	810	G
1	A1	811	A
1	A1	821	U
1	A1	825	G
1	A1	827	C
1	A1	831	A
1	A1	833	A
1	A1	840	G
1	A1	842	A
1	A1	847	G
1	A1	855	A
1	A1	861	A
1	A1	862	A
1	A1	863	G
1	A1	869	G
1	A1	870	G
1	A1	872	A
1	A1	873	A
1	A1	881	G
1	A1	883	A
1	A1	886	C
1	A1	894	G
1	A1	896	U
1	A1	898	C
1	A1	899	U
1	A1	904	U
1	A1	905	G
1	A1	908	A
1	A1	919	A
1	A1	921	A
1	A1	922	U
1	A1	930	U
1	A1	932	G
1	A1	933	G
1	A1	934	G
1	A1	935	G
1	A1	939	A

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Mol	Chain	Res	Type
1	A1	940	A
1	A1	941	G
1	A1	942	A
1	A1	944	U
1	A1	946	A
1	A1	948	C
1	A1	957	U
1	A1	958	A
1	A1	959	G
1	A1	961	A
1	A1	962	G
1	A1	969	C
1	A1	972	U
1	A1	973	C
1	A1	978	G
1	A1	983	U
1	A1	984	C
1	A1	985	U
1	A1	986	C
1	A1	987	A
1	A1	988	G
1	A1	989	G
1	A1	990	A
1	A1	992	A
1	A1	999	G
1	A1	1003	G
1	A1	1004	U
1	A1	1005	A
1	A1	1006	C
1	A1	1007	G
1	A1	1008	C
1	A1	1012	U
1	A1	1017	U
1	A1	1018	A
1	A1	1019	G
1	A1	1020	G
1	A1	1021	U
1	A1	1027	G
1	A1	1028	A
1	A1	1031	G
1	A1	1034	U
1	A1	1035	A

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Mol	Chain	Res	Type
1	A1	1036	G
1	A1	1039	G
1	A1	1040	A
1	A1	1041	C
1	A1	1042	U
1	A1	1048	U
1	A1	1052	A
1	A1	1054	G
1	A1	1058	C
1	A1	1060	C
1	A1	1061	G
1	A1	1063	C
1	A1	1066	A
1	A1	1067	U
1	A1	1072	A
1	A1	1073	A
1	A1	1074	A
1	A1	1075	C
1	A1	1083	U
1	A1	1085	G
1	A1	1087	A
1	A1	1090	A
1	A1	1091	G
1	A1	1092	C
1	A1	1095	C
1	A1	1096	G
1	A1	1097	G
1	A1	1098	A
1	A1	1099	G
1	A1	1101	U
1	A1	1102	U
1	A1	1103	A
1	A1	1104	C
1	A1	1108	A
1	A1	1109	A
1	A1	1110	U
1	A1	1111	G
1	A1	1115	U
1	A1	1116	C
1	A1	1122	A
1	A1	1123	A
1	A1	1124	G

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Mol	Chain	Res	Type
1	A1	1125	A
1	A1	1129	C
1	A1	1130	A
1	A1	1131	G
1	A1	1132	U
1	A1	1135	U
1	A1	1142	G
1	A1	1144	G
1	A1	1151	U
1	A1	1155	U
1	A1	1158	G
1	A1	1159	C
1	A1	1161	G
1	A1	1166	G
1	A1	1169	G
1	A1	1170	A
1	A1	1176	G
1	A1	1178	U
1	A1	1180	A
1	A1	1181	A
1	A1	1182	C
1	A1	1184	U
1	A1	1185	A
1	A1	1186	A
1	A1	1187	C
1	A1	1198	G
1	A1	1199	G
1	A1	1202	C
1	A1	1203	C
1	A1	1204	C
1	A1	1205	A
1	A1	1206	A
1	A1	1207	A
1	A1	1208	U
1	A1	1209	G
1	A1	1212	C
1	A1	1213	G
1	A1	1216	C
1	A1	1217	A
1	A1	1218	U
1	A1	1219	C
1	A1	1220	A

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Mol	Chain	Res	Type
1	A1	1224	A
1	A1	1226	C
1	A1	1227	A
1	A1	1228	C
1	A1	1233	G
1	A1	1234	G
1	A1	1235	U
1	A1	1236	G
1	A1	1243	C
1	A1	1244	A
1	A1	1245	U
1	A1	1246	A
1	A1	1248	G
1	A1	1249	G
1	A1	1250	A
1	A1	1255	A
1	A1	1257	G
1	A1	1309	G
1	A1	1313	A
1	A1	1314	A
1	A1	1316	G
1	A1	1319	C
1	A1	1334	G
1	A1	1335	A
1	A1	1336	U
1	A1	1339	C
1	A1	1340	G
1	A1	1343	G
1	A1	1344	A
1	A1	1351	U
1	A1	1353	G
1	A1	1356	G
1	A1	1357	A
1	A1	1358	U
1	A1	1361	U
1	A1	1363	A
1	A1	1371	G
1	A1	1374	C
1	A1	1375	A
1	A1	1376	A
1	A1	1377	A
1	A1	1378	U

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Mol	Chain	Res	Type
1	A1	1380	C
1	A1	1381	G
1	A1	1382	A
1	A1	1383	G
1	A1	1384	G
1	A1	1387	U
1	A1	1392	G
1	A1	1395	U
1	A1	1399	A
1	A1	1400	G
1	A1	1401	G
1	A1	1403	C
1	A1	1405	U
1	A1	1406	G
1	A1	1410	G
1	A1	1413	G
1	A1	1416	U
1	A1	1424	U
1	A1	1425	U
1	A1	1426	G
1	A1	1430	G
1	A1	1431	U
1	A1	1434	G
1	A1	1435	C
1	A1	1437	U
1	A1	1445	G
1	A1	1446	C
1	A1	1456	U
1	A1	1460	G
1	A1	1461	A
1	A1	1463	C
1	A1	1468	U
1	A1	1469	G
1	A1	1472	A
1	A1	1478	A
1	A1	1479	A
1	A1	1481	U
1	A1	1482	A
1	A1	1494	A
1	A1	1495	C
1	A1	1496	U
1	A1	1507	A

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Mol	Chain	Res	Type
1	A1	1508	A
1	A1	1509	G
1	A1	1521	U
1	A1	1528	G
1	A1	1533	G
1	A1	1534	C
1	A1	1537	U
1	A1	1538	U
1	A1	1539	G
1	A1	1540	U
1	A1	1545	G
1	A1	1547	G
1	A1	1548	U
1	A1	1549	U
1	A1	1551	C
1	A1	1552	U
1	A1	1562	G
1	A1	1575	U
1	A1	1578	U
1	A1	1581	C
1	A1	1582	A
1	A1	1583	A
1	A1	1584	U
1	A1	1585	A
1	A1	1587	A
1	A1	1588	A
1	A1	1589	G
1	A1	1595	A
1	A1	1596	U
1	A1	1597	U
1	A1	1599	G
1	A1	1600	U
1	A1	1605	G
1	A1	1606	U
1	A1	1608	G
1	A1	1609	U
1	A1	1613	A
1	A1	1614	A
1	A1	1618	A
1	A1	1621	G
1	A1	1625	U
1	A1	1629	U

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Mol	Chain	Res	Type
1	A1	1630	A
1	A1	1631	U
1	A1	1632	U
1	A1	1633	C
1	A1	1638	A
1	A1	1639	G
1	A1	1643	G
1	A1	1644	A
1	A1	1645	C
1	A1	1649	G
1	A1	1650	U
1	A1	1651	A
1	A1	1652	U
1	A1	1654	G
1	A1	1655	A
1	A1	1656	G
1	A1	1662	A
1	A1	1663	C
1	A1	1666	A
1	A1	1668	A
1	A1	1676	G
1	A1	1681	C
1	A1	1682	G
1	A1	1686	G
1	A1	1698	G
1	A1	1707	A
1	A1	1714	C
1	A1	1715	U
1	A1	1716	U
1	A1	1717	U
1	A1	1726	C
1	A1	1729	U
1	A1	1737	A
1	A1	1738	A
1	A1	1739	A
1	A1	1740	U
1	A1	1741	U
1	A1	1742	G
1	A1	1748	U
1	A1	1753	A
1	A1	1754	G
1	A1	1759	C

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Mol	Chain	Res	Type
1	A1	1760	G
1	A1	1766	A
1	A1	1767	U
1	A1	1768	G
1	A1	1775	A
1	A1	1776	G
1	A1	1777	A
1	A1	1783	U
1	A1	1793	A
1	A1	1798	U
1	A1	1805	C
1	A1	1806	G
1	A1	1807	C
1	A1	1819	C
1	A1	1820	U
1	A1	1821	U
1	A1	1823	A
1	A1	1834	G
1	A1	1839	A
1	A1	1840	U
1	A1	1841	A
1	A1	1845	U
1	A1	1846	C
1	A1	1852	A
1	A1	1861	C
1	A1	1863	A
1	A1	1865	A
1	A1	1866	A
1	A1	1869	G
1	A1	1870	C
1	A1	1873	C
1	A1	1874	A
1	A1	1882	A
1	A1	1885	G
1	A1	1886	U
1	A1	1890	C
1	A1	1895	U
1	A1	1902	C
1	A1	1903	A
1	A1	1904	U
1	A1	1905	A
1	A1	1908	A

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Mol	Chain	Res	Type
1	A1	1909	C
1	A1	1910	A
1	A1	1917	A
1	A1	1919	A
1	A1	1923	G
1	A1	1924	A
1	A1	1925	A
1	A1	1929	G
1	A1	1930	G
1	A1	1937	G
1	A1	1938	G
1	A1	1942	C
1	A1	1943	G
1	A1	1950	C
1	A1	1951	G
1	A1	1952	G
1	A1	1955	U
1	A1	1956	A
1	A1	1957	A
1	A1	1958	G
1	A1	2101	G
1	A1	2102	A
1	A1	2106	G
1	A1	2107	A
1	A1	2108	A
1	A1	2109	G
1	A1	2110	C
1	A1	2111	G
1	A1	2117	A
1	A1	2118	G
1	A1	2119	G
1	A1	2127	A
1	A1	2130	G
1	A1	2133	U
1	A1	2134	A
1	A1	2136	U
1	A1	2146	G
1	A1	2147	C
1	A1	2150	U
1	A1	2154	A
1	A1	2156	G
1	A1	2157	G

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Mol	Chain	Res	Type
1	A1	2159	C
1	A1	2162	A
1	A1	2165	A
1	A1	2178	A
1	A1	2183	A
1	A1	2189	G
1	A1	2190	C
1	A1	2191	C
1	A1	2196	G
1	A1	2199	C
1	A1	2200	U
1	A1	2202	A
1	A1	2216	G
1	A1	2217	C
1	A1	2218	A
1	A1	2220	U
1	A1	2223	A
1	A1	2239	A
1	A1	2240	C
1	A1	2241	G
1	A1	2244	G
1	A1	2249	U
1	A1	2251	A
1	A1	2252	C
1	A1	2254	A
1	A1	2255	U
1	A1	2265	A
1	A1	2268	G
1	A1	2271	G
1	A1	2273	C
1	A1	2275	A
1	A1	2276	A
1	A1	2277	U
1	A1	2278	G
1	A1	2279	C
1	A1	2280	C
1	A1	2281	U
1	A1	2283	G
1	A1	2286	A
1	A1	2292	U
1	A1	2293	U
1	A1	2298	A

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Mol	Chain	Res	Type
1	A1	2301	C
1	A1	2302	G
1	A1	2303	C
1	A1	2304	A
1	A1	2305	U
1	A1	2308	A
1	A1	2309	U
1	A1	2310	G
1	A1	2317	U
1	A1	2321	A
1	A1	2324	A
1	A1	2329	U
1	A1	2330	G
1	A1	2331	U
1	A1	2335	U
1	A1	2342	U
1	A1	2343	A
1	A1	2344	U
1	A1	2353	C
1	A1	2356	A
1	A1	2357	C
1	A1	2358	A
1	A1	2361	U
1	A1	2366	G
1	A1	2367	A
1	A1	2368	A
1	A1	2369	C
1	A1	2370	G
1	A1	2372	G
1	A1	2378	A
1	A1	2379	A
1	A1	2380	U
1	A1	2383	U
1	A1	2386	G
1	A1	2388	G
1	A1	2389	G
1	A1	2391	G
1	A1	2392	A
1	A1	2393	A
1	A1	2394	A
1	A1	2396	A
1	A1	2397	A

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Mol	Chain	Res	Type
1	A1	2398	G
1	A1	2399	A
1	A1	2400	C
1	A1	2406	U
1	A1	2407	G
1	A1	2410	C
1	A1	2412	U
1	A1	2413	G
1	A1	2414	A
1	A1	2416	U
1	A1	2417	C
1	A1	2421	U
1	A1	2430	G
1	A1	2509	U
1	A1	2510	A
1	A1	2515	G
1	A1	2517	G
1	A1	2518	A
1	A1	2519	A
1	A1	2520	G
1	A1	2521	A
1	A1	2524	A
1	A1	2532	G
1	A1	2541	U
1	A1	2542	U
1	A1	2543	C
1	A1	2545	A
1	A1	2546	A
1	A1	2548	G
1	A1	2549	U
1	A1	2550	U
1	A1	2551	A
1	A1	2552	A
1	A1	2554	G
1	A1	2560	U
1	A1	2562	U
1	A1	2563	U
1	A1	2566	C
1	A1	2569	A
1	A1	2570	U
1	A1	2574	U
1	A1	2575	G

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Mol	Chain	Res	Type
1	A1	2576	C
1	A1	2577	G
1	A1	2578	A
1	A1	2580	A
1	A1	2582	A
1	A1	2583	C
1	A1	2595	G
1	A1	2603	G
1	A1	2614	A
1	A1	2615	A
1	A1	2616	U
1	A1	2617	G
1	A1	2618	C
1	A1	2622	U
1	A1	2625	A
1	A1	2626	A
1	A1	2627	C
1	A1	2633	C
1	A1	2634	G
1	A1	2635	C
1	A1	2637	G
1	A1	2638	G
1	A1	2639	C
1	A1	2640	G
1	A1	2641	U
1	A1	2642	C
1	A1	2644	U
1	A1	2645	A
1	A1	2646	A
1	A1	2647	G
1	A1	2655	C
1	A1	2666	G
1	A1	2667	A
1	A1	2670	U
1	A1	2672	U
1	A1	2678	A
1	A1	2679	G
1	A1	2680	A
1	A1	2683	A
1	A1	2684	A
1	A1	2685	A
1	A1	2693	A

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Mol	Chain	Res	Type
1	A1	2702	U
1	A1	2703	G
1	A1	2704	A
1	A1	2705	U
1	A1	2706	U
1	A1	2707	U
1	A1	2708	U
1	A1	2717	G
1	A1	2718	U
1	A1	2721	G
1	A1	2726	C
1	A1	2727	A
1	A1	2728	A
1	A1	2729	A
1	A1	2735	A
1	A1	2741	U
1	A1	2742	G
1	A1	2743	G
1	A1	2744	C
1	A1	2749	C
1	A1	2751	A
1	A1	2761	U
1	A1	2762	U
1	A1	2765	C
1	A1	2766	A
1	A1	2767	A
1	A1	2768	G
1	A1	2772	U
1	A1	2774	A
1	A1	2775	G
1	A1	2779	G
1	A1	2784	G
1	A1	2787	A
1	A1	2788	G
1	A1	2789	A
1	A1	2790	A
1	A1	2791	A
1	A1	2798	C
1	A1	2802	G
1	A1	2804	G
1	A1	2805	A
1	A1	2806	U

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Mol	Chain	Res	Type
1	A1	2815	U
1	A1	2816	G
1	A1	2817	U
1	A1	2821	A
1	A1	2822	G
1	A1	2827	G
1	A1	2829	G
1	A1	2830	U
1	A1	2831	U
1	A1	2833	A
1	A1	2847	U
1	A1	2848	U
1	A1	2849	U
1	A1	2855	C
1	A1	2857	U
1	A1	2858	C
1	A1	2859	G
1	A1	2860	A
1	A1	2863	U
1	A1	2875	A
1	A1	2876	U
1	A1	2887	C
1	A1	2899	C
1	A1	2900	G
1	A1	2902	G
1	A1	2907	A
1	A1	2911	U
1	A1	2912	U
1	A1	2913	C
1	A1	2916	C
1	A1	2918	G
1	A1	2923	U
1	A1	2924	A
1	A1	2925	G
1	A1	2930	C
1	A1	2932	U
1	A1	2933	G
1	A1	2934	A
1	A1	2935	G
1	A1	2936	C
1	A1	2947	C
1	A1	2955	A

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Mol	Chain	Res	Type
1	A1	2956	G
1	A1	2958	C
1	A1	2959	A
1	A1	2960	G
1	A1	2961	G
1	A1	2962	U
1	A1	2965	G
1	A1	2967	U
1	A1	2971	C
1	A1	2972	C
1	A1	2978	G
1	A1	2985	C
1	A1	2986	G
1	A1	2995	A
1	A1	2996	C
1	A1	2999	U
1	A1	3000	A
1	A1	3001	A
1	A1	3008	U
1	A1	3011	G
1	A1	3012	U
1	A1	3019	G
1	A1	3021	A
1	A1	3028	A
1	A1	3036	U
1	A1	3041	G
1	A1	3044	A
1	A1	3045	A
1	A1	3046	A
1	A1	3047	U
1	A1	3048	A
1	A1	3063	G
1	A1	3066	A
1	A1	3068	U
1	A1	3072	G
1	A1	3080	A
1	A1	3081	C
1	A1	3087	G
1	A1	3088	U
1	A1	3104	G
1	A1	3105	G
1	A1	3106	C

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Mol	Chain	Res	Type
1	A1	3107	C
1	A1	3109	C
1	A1	3110	U
1	A1	3111	A
1	A1	3112	A
1	A1	3114	U
1	A1	3115	C
1	A1	3116	A
1	A1	3118	A
1	A1	3119	A
1	A1	3120	U
1	A1	3123	A
1	A1	3125	G
1	A1	3128	G
1	A1	3129	G
1	A1	3130	A
1	A1	3131	A
1	A1	3132	A
1	A1	3133	G
1	A1	3134	C
1	A1	3138	G
1	A1	3139	U
1	A1	3143	A
1	A1	3145	U
1	A1	3146	G
1	A1	3147	U
1	A1	3151	G
1	A1	3152	A
1	A1	3154	A
1	A1	3155	A
1	A1	3156	A
1	A1	3157	C
1	A1	3158	G
1	A1	3159	A
1	A1	3160	A
1	A1	3161	A
1	A1	3162	A
1	A1	3163	A
1	A1	3167	U
1	A1	3168	A
1	A1	3169	A
1	A1	3173	U

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Mol	Chain	Res	Type
1	A1	3174	U
1	A1	3175	A
1	A1	3176	A
1	A1	3177	G
1	A1	3178	U
1	A1	3179	U
1	A1	3183	A
1	A1	3184	A
1	A1	3185	G
1	A1	3186	G
1	A1	3188	A
1	A1	3191	G
1	A1	3192	C
1	A1	3193	G
1	A1	3197	A
1	A1	3201	G
1	A1	3202	C
1	A1	3205	A
1	A1	3206	A
1	A1	3207	A
1	A1	3208	A
1	A1	3215	C
1	A1	3217	U
1	A1	3219	A
1	A1	3224	C
1	A1	3226	A
1	A1	3229	C
1	A1	3230	G
1	A1	3231	U
1	A1	3232	A
1	A1	3234	U
1	A1	3235	U
1	A1	3236	C
1	A1	3237	C
1	A1	3238	A
1	A1	3241	U
1	A1	3242	U
1	A1	3247	U
1	A1	3251	C
1	A1	3252	G
1	A1	3264	U
1	A1	3265	A

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Mol	Chain	Res	Type
1	A1	3267	A
1	A1	3269	G
1	A1	3270	A
1	A1	3274	A
1	A1	3276	C
1	A1	3277	A
1	A1	3278	U
1	A1	3279	G
1	A1	3292	U
1	A1	3298	U
1	A1	3299	G
1	A1	3307	A
1	A1	3311	U
1	A1	3312	C
1	A1	3324	U
1	A1	3325	G
1	A1	3326	A
1	A1	3332	A
1	A1	3333	G
1	A1	3334	C
1	A1	3338	U
1	A1	3343	U
1	A1	3344	U
1	A1	3345	A
1	A1	3352	U
20	B2	2	G
20	B2	3	A
20	B2	4	A
20	B2	5	A
20	B2	6	A
20	B2	7	U
20	B2	8	U
20	B2	17	U
20	B2	26	A
20	B2	27	G
20	B2	28	G
20	B2	34	G
20	B2	35	U
20	B2	36	G
20	B2	38	C
20	B2	43	A
20	B2	44	A

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Mol	Chain	Res	Type
20	B2	45	G
20	B2	55	A
20	B2	62	A
20	B2	65	C
20	B2	66	G
20	B2	67	C
20	B2	73	G
20	B2	74	A
20	B2	75	A
20	B2	82	A
20	B2	84	C
20	B2	85	C
20	B2	86	G
20	B2	87	C
20	B2	88	G
20	B2	89	A
20	B2	91	U
20	B2	92	C
20	B2	96	A
20	B2	97	G
20	B2	100	C
20	B2	105	A
20	B2	106	A
20	B2	107	C
20	B2	108	G
20	B2	112	G
20	B2	113	U
20	B2	114	G
20	B2	117	G
20	B2	122	U
20	B2	127	A
20	B2	131	C
20	B2	134	C
20	B2	135	A
20	B2	137	G
20	B2	140	U
20	B2	141	G
20	B2	145	C
20	B2	146	A
20	B2	148	U
20	B2	149	G
21	B3	5	U

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Mol	Chain	Res	Type
21	B3	7	G
21	B3	9	C
21	B3	10	C
21	B3	13	A
21	B3	22	A
21	B3	25	A
21	B3	27	A
21	B3	38	U
21	B3	40	C
21	B3	41	G
21	B3	48	G
21	B3	49	A
21	B3	51	G
21	B3	53	U
21	B3	54	A
21	B3	55	A
21	B3	60	C
21	B3	62	U
21	B3	63	A
21	B3	64	A
21	B3	65	G
21	B3	82	G
21	B3	83	G
21	B3	89	G
21	B3	91	C
21	B3	97	G
21	B3	98	G
21	B3	100	A
21	B3	101	A
21	B3	105	C
21	B3	107	A
21	B3	110	G
21	B3	111	U
21	B3	112	C
21	B3	113	G
21	B3	118	C
21	B3	120	U
20	C2	2	G
20	C2	3	A
20	C2	4	A
20	C2	5	A
20	C2	6	A

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Mol	Chain	Res	Type
20	C2	7	U
20	C2	8	U
20	C2	17	U
20	C2	26	A
20	C2	27	G
20	C2	28	G
20	C2	34	G
20	C2	35	U
20	C2	36	G
20	C2	38	C
20	C2	43	A
20	C2	44	A
20	C2	45	G
20	C2	47	A
20	C2	55	A
20	C2	62	A
20	C2	65	C
20	C2	66	G
20	C2	67	C
20	C2	73	G
20	C2	74	A
20	C2	75	A
20	C2	82	A
20	C2	84	C
20	C2	85	C
20	C2	86	G
20	C2	87	C
20	C2	88	G
20	C2	89	A
20	C2	91	U
20	C2	92	C
20	C2	96	A
20	C2	97	G
20	C2	100	C
20	C2	105	A
20	C2	106	A
20	C2	107	C
20	C2	108	G
20	C2	112	G
20	C2	113	U
20	C2	114	G
20	C2	117	G

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Mol	Chain	Res	Type
20	C2	122	U
20	C2	127	A
20	C2	131	C
20	C2	134	C
20	C2	135	A
20	C2	137	G
20	C2	140	U
20	C2	141	G
20	C2	145	C
20	C2	146	A
20	C2	148	U
20	C2	149	G
20	C2	150	U
21	C3	5	U
21	C3	7	G
21	C3	9	C
21	C3	10	C
21	C3	13	A
21	C3	22	A
21	C3	25	A
21	C3	27	A
21	C3	38	U
21	C3	40	C
21	C3	41	G
21	C3	48	G
21	C3	49	A
21	C3	51	G
21	C3	53	U
21	C3	54	A
21	C3	55	A
21	C3	60	C
21	C3	62	U
21	C3	63	A
21	C3	64	A
21	C3	65	G
21	C3	72	U
21	C3	82	G
21	C3	83	G
21	C3	89	G
21	C3	91	C
21	C3	97	G
21	C3	98	G

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Mol	Chain	Res	Type
21	C3	100	A
21	C3	101	A
21	C3	105	C
21	C3	107	A
21	C3	110	G
21	C3	111	U
21	C3	112	C
21	C3	113	G
21	C3	118	C
21	C3	120	U
1	D1	9	G
1	D1	16	G
1	D1	17	C
1	D1	19	A
1	D1	20	G
1	D1	24	A
1	D1	27	C
1	D1	32	A
1	D1	36	U
1	D1	38	A
1	D1	41	A
1	D1	43	A
1	D1	47	G
1	D1	48	U
1	D1	57	G
1	D1	58	A
1	D1	63	A
1	D1	64	A
1	D1	66	C
1	D1	67	U
1	D1	69	A
1	D1	70	C
1	D1	71	U
1	D1	72	A
1	D1	74	G
1	D1	75	A
1	D1	81	C
1	D1	83	A
1	D1	84	G
1	D1	87	A
1	D1	89	G
1	D1	90	G

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Mol	Chain	Res	Type
1	D1	92	G
1	D1	93	A
1	D1	95	U
1	D1	96	G
1	D1	97	A
1	D1	107	A
1	D1	108	G
1	D1	112	A
1	D1	114	A
1	D1	115	G
1	D1	116	U
1	D1	118	A
1	D1	119	A
1	D1	120	A
1	D1	121	A
1	D1	122	U
1	D1	127	A
1	D1	128	G
1	D1	130	G
1	D1	133	C
1	D1	134	A
1	D1	135	A
1	D1	136	C
1	D1	137	A
1	D1	138	C
1	D1	139	A
1	D1	143	G
1	D1	147	U
1	D1	148	G
1	D1	149	U
1	D1	152	U
1	D1	156	A
1	D1	157	A
1	D1	162	C
1	D1	166	C
1	D1	169	A
1	D1	174	A
1	D1	176	G
1	D1	177	C
1	D1	182	C
1	D1	188	A
1	D1	189	G

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Mol	Chain	Res	Type
1	D1	190	U
1	D1	191	U
1	D1	193	C
1	D1	196	G
1	D1	201	A
1	D1	203	G
1	D1	205	C
1	D1	207	U
1	D1	211	A
1	D1	215	G
1	D1	217	U
1	D1	218	G
1	D1	219	A
1	D1	220	C
1	D1	221	A
1	D1	223	C
1	D1	224	C
1	D1	227	G
1	D1	231	U
1	D1	232	C
1	D1	233	G
1	D1	240	A
1	D1	241	A
1	D1	242	G
1	D1	243	G
1	D1	250	U
1	D1	252	A
1	D1	254	G
1	D1	255	G
1	D1	258	A
1	D1	261	U
1	D1	262	C
1	D1	264	A
1	D1	265	A
1	D1	268	G
1	D1	281	G
1	D1	282	G
1	D1	283	A
1	D1	284	U
1	D1	289	G
1	D1	292	C
1	D1	293	U

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Mol	Chain	Res	Type
1	D1	294	A
1	D1	297	U
1	D1	299	G
1	D1	300	G
1	D1	304	U
1	D1	305	A
1	D1	307	A
1	D1	315	U
1	D1	328	A
1	D1	329	C
1	D1	332	G
1	D1	333	G
1	D1	334	G
1	D1	335	A
1	D1	337	A
1	D1	338	C
1	D1	339	C
1	D1	340	G
1	D1	341	A
1	D1	351	A
1	D1	352	G
1	D1	361	A
1	D1	362	G
1	D1	363	G
1	D1	368	A
1	D1	369	U
1	D1	370	G
1	D1	373	A
1	D1	374	A
1	D1	375	G
1	D1	376	A
1	D1	377	A
1	D1	383	A
1	D1	385	A
1	D1	386	A
1	D1	389	G
1	D1	396	A
1	D1	397	A
1	D1	399	A
1	D1	400	C
1	D1	414	G
1	D1	416	A

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Mol	Chain	Res	Type
1	D1	418	G
1	D1	419	A
1	D1	432	G
1	D1	433	C
1	D1	434	A
1	D1	435	A
1	D1	438	A
1	D1	439	A
1	D1	440	C
1	D1	442	G
1	D1	448	C
1	D1	449	G
1	D1	450	C
1	D1	451	A
1	D1	453	A
1	D1	460	A
1	D1	461	A
1	D1	465	C
1	D1	466	U
1	D1	467	A
1	D1	469	U
1	D1	470	C
1	D1	471	A
1	D1	472	C
1	D1	479	G
1	D1	486	C
1	D1	487	G
1	D1	489	A
1	D1	490	A
1	D1	492	A
1	D1	498	A
1	D1	499	U
1	D1	501	A
1	D1	502	G
1	D1	503	U
1	D1	505	A
1	D1	507	G
1	D1	516	C
1	D1	517	A
1	D1	518	G
1	D1	519	A
1	D1	521	C

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Mol	Chain	Res	Type
1	D1	523	U
1	D1	525	C
1	D1	526	U
1	D1	527	A
1	D1	528	C
1	D1	532	G
1	D1	533	G
1	D1	539	A
1	D1	541	A
1	D1	543	A
1	D1	552	U
1	D1	553	C
1	D1	556	A
1	D1	562	G
1	D1	564	A
1	D1	565	G
1	D1	566	U
1	D1	567	C
1	D1	568	A
1	D1	572	G
1	D1	576	U
1	D1	578	G
1	D1	579	G
1	D1	580	G
1	D1	582	A
1	D1	584	C
1	D1	586	A
1	D1	587	U
1	D1	591	G
1	D1	592	A
1	D1	595	A
1	D1	599	G
1	D1	600	G
1	D1	611	A
1	D1	612	C
1	D1	614	G
1	D1	615	G
1	D1	618	U
1	D1	620	A
1	D1	622	G
1	D1	623	G
1	D1	625	C

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Mol	Chain	Res	Type
1	D1	626	C
1	D1	627	U
1	D1	628	A
1	D1	629	A
1	D1	631	G
1	D1	634	G
1	D1	635	A
1	D1	636	U
1	D1	643	A
1	D1	644	A
1	D1	645	A
1	D1	646	A
1	D1	660	C
1	D1	661	C
1	D1	662	C
1	D1	663	G
1	D1	666	U
1	D1	673	A
1	D1	684	A
1	D1	685	G
1	D1	686	U
1	D1	697	A
1	D1	701	A
1	D1	709	G
1	D1	711	U
1	D1	719	C
1	D1	720	C
1	D1	723	U
1	D1	724	C
1	D1	728	G
1	D1	729	A
1	D1	730	A
1	D1	733	G
1	D1	737	G
1	D1	740	A
1	D1	741	G
1	D1	742	U
1	D1	743	A
1	D1	745	A
1	D1	747	G
1	D1	751	C
1	D1	753	A

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Mol	Chain	Res	Type
1	D1	757	C
1	D1	761	A
1	D1	767	C
1	D1	773	C
1	D1	775	C
1	D1	777	C
1	D1	786	G
1	D1	788	C
1	D1	789	U
1	D1	790	C
1	D1	791	C
1	D1	792	G
1	D1	799	G
1	D1	800	G
1	D1	801	U
1	D1	803	C
1	D1	805	A
1	D1	806	G
1	D1	807	G
1	D1	810	G
1	D1	811	A
1	D1	821	U
1	D1	825	G
1	D1	827	C
1	D1	831	A
1	D1	833	A
1	D1	834	G
1	D1	840	G
1	D1	842	A
1	D1	847	G
1	D1	855	A
1	D1	866	A
1	D1	870	G
1	D1	874	C
1	D1	881	G
1	D1	883	A
1	D1	886	C
1	D1	894	G
1	D1	896	U
1	D1	898	C
1	D1	899	U
1	D1	904	U

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Mol	Chain	Res	Type
1	D1	905	G
1	D1	908	A
1	D1	919	A
1	D1	921	A
1	D1	930	U
1	D1	932	G
1	D1	933	G
1	D1	934	G
1	D1	935	G
1	D1	939	A
1	D1	940	A
1	D1	941	G
1	D1	942	A
1	D1	944	U
1	D1	946	A
1	D1	948	C
1	D1	957	U
1	D1	958	A
1	D1	959	G
1	D1	961	A
1	D1	962	G
1	D1	969	C
1	D1	972	U
1	D1	973	C
1	D1	978	G
1	D1	983	U
1	D1	984	C
1	D1	985	U
1	D1	986	C
1	D1	987	A
1	D1	988	G
1	D1	990	A
1	D1	992	A
1	D1	999	G
1	D1	1003	G
1	D1	1004	U
1	D1	1005	A
1	D1	1006	C
1	D1	1007	G
1	D1	1008	C
1	D1	1012	U
1	D1	1017	U

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Mol	Chain	Res	Type
1	D1	1018	A
1	D1	1019	G
1	D1	1020	G
1	D1	1025	G
1	D1	1027	G
1	D1	1028	A
1	D1	1034	U
1	D1	1040	A
1	D1	1042	U
1	D1	1044	G
1	D1	1047	G
1	D1	1048	U
1	D1	1049	U
1	D1	1052	A
1	D1	1053	A
1	D1	1054	G
1	D1	1055	A
1	D1	1058	C
1	D1	1060	C
1	D1	1061	G
1	D1	1064	C
1	D1	1067	U
1	D1	1072	A
1	D1	1073	A
1	D1	1074	A
1	D1	1075	C
1	D1	1083	U
1	D1	1085	G
1	D1	1087	A
1	D1	1090	A
1	D1	1091	G
1	D1	1092	C
1	D1	1095	C
1	D1	1096	G
1	D1	1097	G
1	D1	1098	A
1	D1	1099	G
1	D1	1101	U
1	D1	1102	U
1	D1	1103	A
1	D1	1104	C
1	D1	1108	A

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Mol	Chain	Res	Type
1	D1	1109	A
1	D1	1110	U
1	D1	1111	G
1	D1	1115	U
1	D1	1116	C
1	D1	1122	A
1	D1	1123	A
1	D1	1124	G
1	D1	1125	A
1	D1	1129	C
1	D1	1130	A
1	D1	1131	G
1	D1	1132	U
1	D1	1135	U
1	D1	1142	G
1	D1	1144	G
1	D1	1151	U
1	D1	1155	U
1	D1	1158	G
1	D1	1159	C
1	D1	1161	G
1	D1	1166	G
1	D1	1169	G
1	D1	1170	A
1	D1	1176	G
1	D1	1178	U
1	D1	1180	A
1	D1	1181	A
1	D1	1182	C
1	D1	1184	U
1	D1	1185	A
1	D1	1186	A
1	D1	1187	C
1	D1	1198	G
1	D1	1199	G
1	D1	1203	C
1	D1	1204	C
1	D1	1205	A
1	D1	1206	A
1	D1	1207	A
1	D1	1208	U
1	D1	1209	G

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Mol	Chain	Res	Type
1	D1	1212	C
1	D1	1213	G
1	D1	1216	C
1	D1	1217	A
1	D1	1218	U
1	D1	1219	C
1	D1	1220	A
1	D1	1224	A
1	D1	1226	C
1	D1	1227	A
1	D1	1228	C
1	D1	1233	G
1	D1	1234	G
1	D1	1235	U
1	D1	1236	G
1	D1	1243	C
1	D1	1244	A
1	D1	1245	U
1	D1	1246	A
1	D1	1248	G
1	D1	1249	G
1	D1	1250	A
1	D1	1255	A
1	D1	1257	G
1	D1	1309	G
1	D1	1313	A
1	D1	1314	A
1	D1	1316	G
1	D1	1319	C
1	D1	1334	G
1	D1	1335	A
1	D1	1336	U
1	D1	1339	C
1	D1	1340	G
1	D1	1343	G
1	D1	1344	A
1	D1	1351	U
1	D1	1353	G
1	D1	1357	A
1	D1	1358	U
1	D1	1361	U
1	D1	1363	A

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Mol	Chain	Res	Type
1	D1	1371	G
1	D1	1374	C
1	D1	1375	A
1	D1	1376	A
1	D1	1377	A
1	D1	1378	U
1	D1	1380	C
1	D1	1381	G
1	D1	1382	A
1	D1	1383	G
1	D1	1384	G
1	D1	1387	U
1	D1	1392	G
1	D1	1395	U
1	D1	1399	A
1	D1	1400	G
1	D1	1401	G
1	D1	1403	C
1	D1	1405	U
1	D1	1406	G
1	D1	1410	G
1	D1	1413	G
1	D1	1416	U
1	D1	1424	U
1	D1	1425	U
1	D1	1426	G
1	D1	1430	G
1	D1	1431	U
1	D1	1434	G
1	D1	1435	C
1	D1	1437	U
1	D1	1445	G
1	D1	1446	C
1	D1	1456	U
1	D1	1460	G
1	D1	1461	A
1	D1	1463	C
1	D1	1468	U
1	D1	1469	G
1	D1	1472	A
1	D1	1478	A
1	D1	1479	A

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Mol	Chain	Res	Type
1	D1	1481	U
1	D1	1482	A
1	D1	1494	A
1	D1	1495	C
1	D1	1496	U
1	D1	1507	A
1	D1	1508	A
1	D1	1509	G
1	D1	1521	U
1	D1	1528	G
1	D1	1533	G
1	D1	1534	C
1	D1	1537	U
1	D1	1538	U
1	D1	1540	U
1	D1	1545	G
1	D1	1547	G
1	D1	1548	U
1	D1	1549	U
1	D1	1551	C
1	D1	1552	U
1	D1	1562	G
1	D1	1575	U
1	D1	1578	U
1	D1	1581	C
1	D1	1582	A
1	D1	1583	A
1	D1	1584	U
1	D1	1585	A
1	D1	1587	A
1	D1	1588	A
1	D1	1589	G
1	D1	1595	A
1	D1	1596	U
1	D1	1597	U
1	D1	1599	G
1	D1	1600	U
1	D1	1605	G
1	D1	1606	U
1	D1	1608	G
1	D1	1609	U
1	D1	1613	A

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Mol	Chain	Res	Type
1	D1	1614	A
1	D1	1618	A
1	D1	1621	G
1	D1	1625	U
1	D1	1629	U
1	D1	1630	A
1	D1	1631	U
1	D1	1632	U
1	D1	1633	C
1	D1	1638	A
1	D1	1639	G
1	D1	1643	G
1	D1	1644	A
1	D1	1645	C
1	D1	1649	G
1	D1	1650	U
1	D1	1651	A
1	D1	1652	U
1	D1	1654	G
1	D1	1655	A
1	D1	1656	G
1	D1	1662	A
1	D1	1663	C
1	D1	1666	A
1	D1	1668	A
1	D1	1676	G
1	D1	1681	C
1	D1	1682	G
1	D1	1686	G
1	D1	1698	G
1	D1	1714	C
1	D1	1715	U
1	D1	1716	U
1	D1	1717	U
1	D1	1726	C
1	D1	1729	U
1	D1	1737	A
1	D1	1738	A
1	D1	1739	A
1	D1	1740	U
1	D1	1741	U
1	D1	1742	G

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Mol	Chain	Res	Type
1	D1	1748	U
1	D1	1753	A
1	D1	1754	G
1	D1	1759	C
1	D1	1760	G
1	D1	1766	A
1	D1	1767	U
1	D1	1768	G
1	D1	1775	A
1	D1	1776	G
1	D1	1777	A
1	D1	1783	U
1	D1	1793	A
1	D1	1798	U
1	D1	1805	C
1	D1	1806	G
1	D1	1807	C
1	D1	1819	C
1	D1	1820	U
1	D1	1821	U
1	D1	1823	A
1	D1	1834	G
1	D1	1839	A
1	D1	1840	U
1	D1	1841	A
1	D1	1845	U
1	D1	1846	C
1	D1	1852	A
1	D1	1861	C
1	D1	1863	A
1	D1	1865	A
1	D1	1866	A
1	D1	1869	G
1	D1	1870	C
1	D1	1873	C
1	D1	1874	A
1	D1	1882	A
1	D1	1885	G
1	D1	1886	U
1	D1	1890	C
1	D1	1895	U
1	D1	1902	C

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Mol	Chain	Res	Type
1	D1	1903	A
1	D1	1904	U
1	D1	1905	A
1	D1	1908	A
1	D1	1910	A
1	D1	1913	G
1	D1	1917	A
1	D1	1919	A
1	D1	1923	G
1	D1	1924	A
1	D1	1925	A
1	D1	1929	G
1	D1	1930	G
1	D1	1937	G
1	D1	1938	G
1	D1	1942	C
1	D1	1943	G
1	D1	1950	C
1	D1	1951	G
1	D1	1952	G
1	D1	1955	U
1	D1	1956	A
1	D1	1957	A
1	D1	1958	G
1	D1	2101	G
1	D1	2102	A
1	D1	2106	G
1	D1	2107	A
1	D1	2108	A
1	D1	2109	G
1	D1	2110	C
1	D1	2111	G
1	D1	2117	A
1	D1	2118	G
1	D1	2119	G
1	D1	2127	A
1	D1	2130	G
1	D1	2133	U
1	D1	2134	A
1	D1	2136	U
1	D1	2146	G
1	D1	2147	C

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Mol	Chain	Res	Type
1	D1	2150	U
1	D1	2154	A
1	D1	2156	G
1	D1	2157	G
1	D1	2159	C
1	D1	2162	A
1	D1	2165	A
1	D1	2178	A
1	D1	2182	G
1	D1	2183	A
1	D1	2189	G
1	D1	2190	C
1	D1	2196	G
1	D1	2199	C
1	D1	2200	U
1	D1	2202	A
1	D1	2216	G
1	D1	2217	C
1	D1	2218	A
1	D1	2220	U
1	D1	2223	A
1	D1	2239	A
1	D1	2240	C
1	D1	2241	G
1	D1	2244	G
1	D1	2249	U
1	D1	2251	A
1	D1	2252	C
1	D1	2253	U
1	D1	2254	A
1	D1	2255	U
1	D1	2256	G
1	D1	2257	A
1	D1	2265	A
1	D1	2266	A
1	D1	2268	G
1	D1	2271	G
1	D1	2273	C
1	D1	2275	A
1	D1	2276	A
1	D1	2277	U
1	D1	2278	G

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Mol	Chain	Res	Type
1	D1	2279	C
1	D1	2280	C
1	D1	2281	U
1	D1	2283	G
1	D1	2286	A
1	D1	2292	U
1	D1	2293	U
1	D1	2298	A
1	D1	2301	C
1	D1	2302	G
1	D1	2303	C
1	D1	2304	A
1	D1	2305	U
1	D1	2308	A
1	D1	2309	U
1	D1	2310	G
1	D1	2317	U
1	D1	2318	G
1	D1	2321	A
1	D1	2324	A
1	D1	2329	U
1	D1	2330	G
1	D1	2331	U
1	D1	2335	U
1	D1	2342	U
1	D1	2343	A
1	D1	2344	U
1	D1	2353	C
1	D1	2356	A
1	D1	2357	C
1	D1	2358	A
1	D1	2361	U
1	D1	2366	G
1	D1	2367	A
1	D1	2368	A
1	D1	2369	C
1	D1	2370	G
1	D1	2372	G
1	D1	2378	A
1	D1	2379	A
1	D1	2380	U
1	D1	2383	U

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Mol	Chain	Res	Type
1	D1	2386	G
1	D1	2388	G
1	D1	2391	G
1	D1	2392	A
1	D1	2393	A
1	D1	2394	A
1	D1	2396	A
1	D1	2397	A
1	D1	2398	G
1	D1	2399	A
1	D1	2400	C
1	D1	2406	U
1	D1	2407	G
1	D1	2410	C
1	D1	2412	U
1	D1	2413	G
1	D1	2414	A
1	D1	2416	U
1	D1	2417	C
1	D1	2421	U
1	D1	2430	G
1	D1	2509	U
1	D1	2510	A
1	D1	2515	G
1	D1	2517	G
1	D1	2518	A
1	D1	2519	A
1	D1	2520	G
1	D1	2521	A
1	D1	2524	A
1	D1	2532	G
1	D1	2541	U
1	D1	2542	U
1	D1	2543	C
1	D1	2545	A
1	D1	2546	A
1	D1	2548	G
1	D1	2549	U
1	D1	2550	U
1	D1	2551	A
1	D1	2552	A
1	D1	2554	G

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Mol	Chain	Res	Type
1	D1	2560	U
1	D1	2562	U
1	D1	2563	U
1	D1	2566	C
1	D1	2569	A
1	D1	2570	U
1	D1	2574	U
1	D1	2575	G
1	D1	2576	C
1	D1	2577	G
1	D1	2578	A
1	D1	2580	A
1	D1	2582	A
1	D1	2583	C
1	D1	2595	G
1	D1	2603	G
1	D1	2614	A
1	D1	2615	A
1	D1	2616	U
1	D1	2617	G
1	D1	2618	C
1	D1	2622	U
1	D1	2625	A
1	D1	2626	A
1	D1	2627	C
1	D1	2633	C
1	D1	2634	G
1	D1	2635	C
1	D1	2637	G
1	D1	2638	G
1	D1	2639	C
1	D1	2640	G
1	D1	2641	U
1	D1	2642	C
1	D1	2644	U
1	D1	2645	A
1	D1	2646	A
1	D1	2647	G
1	D1	2655	C
1	D1	2666	G
1	D1	2667	A
1	D1	2670	U

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Mol	Chain	Res	Type
1	D1	2672	U
1	D1	2678	A
1	D1	2679	G
1	D1	2680	A
1	D1	2683	A
1	D1	2684	A
1	D1	2685	A
1	D1	2693	A
1	D1	2702	U
1	D1	2703	G
1	D1	2704	A
1	D1	2705	U
1	D1	2706	U
1	D1	2707	U
1	D1	2708	U
1	D1	2717	G
1	D1	2718	U
1	D1	2721	G
1	D1	2726	C
1	D1	2727	A
1	D1	2728	A
1	D1	2729	A
1	D1	2735	A
1	D1	2741	U
1	D1	2742	G
1	D1	2743	G
1	D1	2744	C
1	D1	2749	C
1	D1	2751	A
1	D1	2761	U
1	D1	2762	U
1	D1	2765	C
1	D1	2766	A
1	D1	2767	A
1	D1	2768	G
1	D1	2772	U
1	D1	2774	A
1	D1	2775	G
1	D1	2779	G
1	D1	2784	G
1	D1	2787	A
1	D1	2788	G

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Mol	Chain	Res	Type
1	D1	2789	A
1	D1	2790	A
1	D1	2791	A
1	D1	2798	C
1	D1	2802	G
1	D1	2804	G
1	D1	2805	A
1	D1	2806	U
1	D1	2815	U
1	D1	2816	G
1	D1	2817	U
1	D1	2821	A
1	D1	2822	G
1	D1	2827	G
1	D1	2829	G
1	D1	2830	U
1	D1	2831	U
1	D1	2833	A
1	D1	2835	A
1	D1	2847	U
1	D1	2848	U
1	D1	2849	U
1	D1	2855	C
1	D1	2857	U
1	D1	2858	C
1	D1	2859	G
1	D1	2860	A
1	D1	2863	U
1	D1	2875	A
1	D1	2876	U
1	D1	2887	C
1	D1	2899	C
1	D1	2900	G
1	D1	2902	G
1	D1	2907	A
1	D1	2911	U
1	D1	2912	U
1	D1	2913	C
1	D1	2916	C
1	D1	2923	U
1	D1	2924	A
1	D1	2925	G

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Mol	Chain	Res	Type
1	D1	2930	C
1	D1	2932	U
1	D1	2933	G
1	D1	2934	A
1	D1	2935	G
1	D1	2936	C
1	D1	2947	C
1	D1	2955	A
1	D1	2956	G
1	D1	2958	C
1	D1	2959	A
1	D1	2960	G
1	D1	2961	G
1	D1	2962	U
1	D1	2965	G
1	D1	2967	U
1	D1	2971	C
1	D1	2972	C
1	D1	2978	G
1	D1	2985	C
1	D1	2986	G
1	D1	2995	A
1	D1	2996	C
1	D1	2999	U
1	D1	3000	A
1	D1	3001	A
1	D1	3008	U
1	D1	3011	G
1	D1	3012	U
1	D1	3019	G
1	D1	3021	A
1	D1	3028	A
1	D1	3036	U
1	D1	3041	G
1	D1	3044	A
1	D1	3045	A
1	D1	3046	A
1	D1	3047	U
1	D1	3048	A
1	D1	3063	G
1	D1	3066	A
1	D1	3068	U

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Mol	Chain	Res	Type
1	D1	3072	G
1	D1	3080	A
1	D1	3081	C
1	D1	3087	G
1	D1	3088	U
1	D1	3104	G
1	D1	3105	G
1	D1	3106	C
1	D1	3107	C
1	D1	3109	C
1	D1	3110	U
1	D1	3111	A
1	D1	3112	A
1	D1	3114	U
1	D1	3115	C
1	D1	3116	A
1	D1	3118	A
1	D1	3119	A
1	D1	3120	U
1	D1	3123	A
1	D1	3125	G
1	D1	3128	G
1	D1	3129	G
1	D1	3130	A
1	D1	3131	A
1	D1	3132	A
1	D1	3133	G
1	D1	3134	C
1	D1	3138	G
1	D1	3139	U
1	D1	3143	A
1	D1	3145	U
1	D1	3146	G
1	D1	3147	U
1	D1	3151	G
1	D1	3152	A
1	D1	3154	A
1	D1	3155	A
1	D1	3156	A
1	D1	3157	C
1	D1	3158	G
1	D1	3159	A

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Mol	Chain	Res	Type
1	D1	3160	A
1	D1	3161	A
1	D1	3163	A
1	D1	3167	U
1	D1	3168	A
1	D1	3169	A
1	D1	3173	U
1	D1	3174	U
1	D1	3175	A
1	D1	3176	A
1	D1	3177	G
1	D1	3178	U
1	D1	3179	U
1	D1	3183	A
1	D1	3184	A
1	D1	3185	G
1	D1	3186	G
1	D1	3188	A
1	D1	3191	G
1	D1	3192	C
1	D1	3193	G
1	D1	3197	A
1	D1	3201	G
1	D1	3202	C
1	D1	3205	A
1	D1	3206	A
1	D1	3207	A
1	D1	3208	A
1	D1	3215	C
1	D1	3217	U
1	D1	3219	A
1	D1	3224	C
1	D1	3226	A
1	D1	3229	C
1	D1	3230	G
1	D1	3231	U
1	D1	3232	A
1	D1	3234	U
1	D1	3235	U
1	D1	3236	C
1	D1	3237	C
1	D1	3238	A

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Mol	Chain	Res	Type
1	D1	3241	U
1	D1	3242	U
1	D1	3247	U
1	D1	3251	C
1	D1	3252	G
1	D1	3264	U
1	D1	3265	A
1	D1	3267	A
1	D1	3270	A
1	D1	3274	A
1	D1	3276	C
1	D1	3277	A
1	D1	3278	U
1	D1	3279	G
1	D1	3292	U
1	D1	3298	U
1	D1	3299	G
1	D1	3307	A
1	D1	3311	U
1	D1	3312	C
1	D1	3324	U
1	D1	3325	G
1	D1	3326	A
1	D1	3332	A
1	D1	3333	G
1	D1	3334	C
1	D1	3338	U
1	D1	3343	U
1	D1	3344	U
1	D1	3345	A
1	D1	3352	U
20	E2	2	G
20	E2	3	A
20	E2	4	A
20	E2	5	A
20	E2	6	A
20	E2	7	U
20	E2	8	U
20	E2	17	U
20	E2	26	A
20	E2	27	G
20	E2	28	G

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Mol	Chain	Res	Type
20	E2	34	G
20	E2	35	U
20	E2	36	G
20	E2	38	C
20	E2	43	A
20	E2	44	A
20	E2	45	G
20	E2	47	A
20	E2	55	A
20	E2	62	A
20	E2	65	C
20	E2	66	G
20	E2	67	C
20	E2	73	G
20	E2	74	A
20	E2	75	A
20	E2	82	A
20	E2	84	C
20	E2	85	C
20	E2	86	G
20	E2	87	C
20	E2	88	G
20	E2	89	A
20	E2	91	U
20	E2	92	C
20	E2	96	A
20	E2	97	G
20	E2	100	C
20	E2	105	A
20	E2	106	A
20	E2	107	C
20	E2	108	G
20	E2	112	G
20	E2	113	U
20	E2	114	G
20	E2	117	G
20	E2	122	U
20	E2	127	A
20	E2	131	C
20	E2	134	C
20	E2	135	A
20	E2	137	G

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Mol	Chain	Res	Type
20	E2	140	U
20	E2	141	G
20	E2	145	C
20	E2	146	A
20	E2	148	U
20	E2	149	G
20	E2	150	U
21	E3	5	U
21	E3	7	G
21	E3	9	C
21	E3	10	C
21	E3	13	A
21	E3	22	A
21	E3	25	A
21	E3	27	A
21	E3	38	U
21	E3	40	C
21	E3	41	G
21	E3	48	G
21	E3	49	A
21	E3	51	G
21	E3	53	U
21	E3	54	A
21	E3	55	A
21	E3	60	C
21	E3	62	U
21	E3	63	A
21	E3	64	A
21	E3	65	G
21	E3	82	G
21	E3	83	G
21	E3	89	G
21	E3	91	C
21	E3	97	G
21	E3	98	G
21	E3	100	A
21	E3	101	A
21	E3	105	C
21	E3	107	A
21	E3	110	G
21	E3	111	U
21	E3	112	C

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Mol	Chain	Res	Type
21	E3	113	G
21	E3	118	C
21	E3	120	U
1	F1	9	G
1	F1	16	G
1	F1	17	C
1	F1	19	A
1	F1	20	G
1	F1	24	A
1	F1	27	C
1	F1	32	A
1	F1	36	U
1	F1	38	A
1	F1	41	A
1	F1	43	A
1	F1	47	G
1	F1	48	U
1	F1	57	G
1	F1	58	A
1	F1	63	A
1	F1	64	A
1	F1	66	C
1	F1	67	U
1	F1	69	A
1	F1	70	C
1	F1	71	U
1	F1	72	A
1	F1	74	G
1	F1	75	A
1	F1	81	C
1	F1	83	A
1	F1	84	G
1	F1	87	A
1	F1	89	G
1	F1	90	G
1	F1	92	G
1	F1	93	A
1	F1	95	U
1	F1	97	A
1	F1	107	A
1	F1	108	G
1	F1	112	A

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Mol	Chain	Res	Type
1	F1	114	A
1	F1	115	G
1	F1	116	U
1	F1	118	A
1	F1	119	A
1	F1	120	A
1	F1	121	A
1	F1	122	U
1	F1	127	A
1	F1	128	G
1	F1	130	G
1	F1	133	C
1	F1	134	A
1	F1	135	A
1	F1	136	C
1	F1	137	A
1	F1	138	C
1	F1	139	A
1	F1	143	G
1	F1	147	U
1	F1	148	G
1	F1	149	U
1	F1	152	U
1	F1	156	A
1	F1	157	A
1	F1	162	C
1	F1	166	C
1	F1	169	A
1	F1	174	A
1	F1	176	G
1	F1	177	C
1	F1	182	C
1	F1	188	A
1	F1	189	G
1	F1	190	U
1	F1	191	U
1	F1	193	C
1	F1	196	G
1	F1	201	A
1	F1	203	G
1	F1	205	C
1	F1	207	U

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Mol	Chain	Res	Type
1	F1	211	A
1	F1	214	G
1	F1	215	G
1	F1	217	U
1	F1	218	G
1	F1	219	A
1	F1	220	C
1	F1	221	A
1	F1	223	C
1	F1	224	C
1	F1	227	G
1	F1	231	U
1	F1	232	C
1	F1	233	G
1	F1	240	A
1	F1	241	A
1	F1	242	G
1	F1	243	G
1	F1	250	U
1	F1	252	A
1	F1	254	G
1	F1	255	G
1	F1	258	A
1	F1	261	U
1	F1	262	C
1	F1	264	A
1	F1	265	A
1	F1	268	G
1	F1	281	G
1	F1	282	G
1	F1	283	A
1	F1	284	U
1	F1	289	G
1	F1	292	C
1	F1	293	U
1	F1	294	A
1	F1	297	U
1	F1	299	G
1	F1	300	G
1	F1	304	U
1	F1	305	A
1	F1	307	A

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Mol	Chain	Res	Type
1	F1	315	U
1	F1	328	A
1	F1	329	C
1	F1	332	G
1	F1	333	G
1	F1	334	G
1	F1	335	A
1	F1	337	A
1	F1	338	C
1	F1	339	C
1	F1	340	G
1	F1	341	A
1	F1	351	A
1	F1	352	G
1	F1	361	A
1	F1	362	G
1	F1	363	G
1	F1	368	A
1	F1	369	U
1	F1	370	G
1	F1	373	A
1	F1	374	A
1	F1	375	G
1	F1	376	A
1	F1	377	A
1	F1	383	A
1	F1	385	A
1	F1	386	A
1	F1	389	G
1	F1	396	A
1	F1	397	A
1	F1	399	A
1	F1	400	C
1	F1	414	G
1	F1	416	A
1	F1	418	G
1	F1	419	A
1	F1	432	G
1	F1	433	C
1	F1	434	A
1	F1	435	A
1	F1	438	A

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Mol	Chain	Res	Type
1	F1	439	A
1	F1	440	C
1	F1	442	G
1	F1	448	C
1	F1	449	G
1	F1	450	C
1	F1	451	A
1	F1	453	A
1	F1	460	A
1	F1	461	A
1	F1	465	C
1	F1	466	U
1	F1	467	A
1	F1	469	U
1	F1	470	C
1	F1	471	A
1	F1	472	C
1	F1	486	C
1	F1	487	G
1	F1	489	A
1	F1	490	A
1	F1	492	A
1	F1	498	A
1	F1	499	U
1	F1	501	A
1	F1	502	G
1	F1	503	U
1	F1	505	A
1	F1	507	G
1	F1	516	C
1	F1	517	A
1	F1	518	G
1	F1	519	A
1	F1	521	C
1	F1	523	U
1	F1	525	C
1	F1	526	U
1	F1	527	A
1	F1	528	C
1	F1	532	G
1	F1	533	G
1	F1	539	A

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Mol	Chain	Res	Type
1	F1	541	A
1	F1	543	A
1	F1	552	U
1	F1	553	C
1	F1	556	A
1	F1	562	G
1	F1	564	A
1	F1	565	G
1	F1	566	U
1	F1	567	C
1	F1	568	A
1	F1	572	G
1	F1	576	U
1	F1	578	G
1	F1	579	G
1	F1	580	G
1	F1	582	A
1	F1	584	C
1	F1	586	A
1	F1	587	U
1	F1	591	G
1	F1	592	A
1	F1	595	A
1	F1	599	G
1	F1	600	G
1	F1	611	A
1	F1	612	C
1	F1	614	G
1	F1	615	G
1	F1	618	U
1	F1	620	A
1	F1	622	G
1	F1	623	G
1	F1	625	C
1	F1	626	C
1	F1	627	U
1	F1	628	A
1	F1	629	A
1	F1	631	G
1	F1	634	G
1	F1	635	A
1	F1	636	U

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Mol	Chain	Res	Type
1	F1	643	A
1	F1	644	A
1	F1	645	A
1	F1	646	A
1	F1	660	C
1	F1	661	C
1	F1	662	C
1	F1	666	U
1	F1	673	A
1	F1	684	A
1	F1	685	G
1	F1	686	U
1	F1	697	A
1	F1	701	A
1	F1	709	G
1	F1	711	U
1	F1	719	C
1	F1	720	C
1	F1	723	U
1	F1	724	C
1	F1	728	G
1	F1	729	A
1	F1	730	A
1	F1	733	G
1	F1	737	G
1	F1	740	A
1	F1	741	G
1	F1	742	U
1	F1	743	A
1	F1	745	A
1	F1	747	G
1	F1	751	C
1	F1	753	A
1	F1	757	C
1	F1	761	A
1	F1	767	C
1	F1	773	C
1	F1	775	C
1	F1	777	C
1	F1	786	G
1	F1	788	C
1	F1	789	U

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Mol	Chain	Res	Type
1	F1	790	C
1	F1	791	C
1	F1	792	G
1	F1	799	G
1	F1	800	G
1	F1	801	U
1	F1	803	C
1	F1	805	A
1	F1	806	G
1	F1	807	G
1	F1	810	G
1	F1	811	A
1	F1	821	U
1	F1	825	G
1	F1	827	C
1	F1	831	A
1	F1	833	A
1	F1	834	G
1	F1	840	G
1	F1	842	A
1	F1	847	G
1	F1	855	A
1	F1	866	A
1	F1	870	G
1	F1	874	C
1	F1	881	G
1	F1	883	A
1	F1	886	C
1	F1	894	G
1	F1	896	U
1	F1	898	C
1	F1	899	U
1	F1	904	U
1	F1	905	G
1	F1	908	A
1	F1	919	A
1	F1	921	A
1	F1	930	U
1	F1	932	G
1	F1	933	G
1	F1	934	G
1	F1	935	G

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Mol	Chain	Res	Type
1	F1	939	A
1	F1	940	A
1	F1	941	G
1	F1	942	A
1	F1	944	U
1	F1	946	A
1	F1	948	C
1	F1	957	U
1	F1	958	A
1	F1	959	G
1	F1	961	A
1	F1	962	G
1	F1	969	C
1	F1	972	U
1	F1	973	C
1	F1	978	G
1	F1	983	U
1	F1	984	C
1	F1	985	U
1	F1	986	C
1	F1	987	A
1	F1	988	G
1	F1	989	G
1	F1	990	A
1	F1	992	A
1	F1	999	G
1	F1	1003	G
1	F1	1004	U
1	F1	1005	A
1	F1	1006	C
1	F1	1007	G
1	F1	1008	C
1	F1	1012	U
1	F1	1017	U
1	F1	1018	A
1	F1	1019	G
1	F1	1020	G
1	F1	1026	C
1	F1	1027	G
1	F1	1028	A
1	F1	1034	U
1	F1	1035	A

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Mol	Chain	Res	Type
1	F1	1036	G
1	F1	1037	A
1	F1	1038	G
1	F1	1039	G
1	F1	1040	A
1	F1	1042	U
1	F1	1048	U
1	F1	1052	A
1	F1	1054	G
1	F1	1058	C
1	F1	1060	C
1	F1	1061	G
1	F1	1064	C
1	F1	1067	U
1	F1	1072	A
1	F1	1073	A
1	F1	1074	A
1	F1	1075	C
1	F1	1083	U
1	F1	1085	G
1	F1	1087	A
1	F1	1090	A
1	F1	1091	G
1	F1	1092	C
1	F1	1095	C
1	F1	1096	G
1	F1	1097	G
1	F1	1098	A
1	F1	1099	G
1	F1	1101	U
1	F1	1102	U
1	F1	1103	A
1	F1	1104	C
1	F1	1108	A
1	F1	1109	A
1	F1	1110	U
1	F1	1111	G
1	F1	1115	U
1	F1	1116	C
1	F1	1118	C
1	F1	1122	A
1	F1	1123	A

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Mol	Chain	Res	Type
1	F1	1124	G
1	F1	1125	A
1	F1	1129	C
1	F1	1130	A
1	F1	1131	G
1	F1	1132	U
1	F1	1135	U
1	F1	1142	G
1	F1	1144	G
1	F1	1151	U
1	F1	1155	U
1	F1	1158	G
1	F1	1159	C
1	F1	1161	G
1	F1	1166	G
1	F1	1169	G
1	F1	1170	A
1	F1	1176	G
1	F1	1178	U
1	F1	1180	A
1	F1	1181	A
1	F1	1182	C
1	F1	1184	U
1	F1	1185	A
1	F1	1186	A
1	F1	1187	C
1	F1	1198	G
1	F1	1199	G
1	F1	1202	C
1	F1	1203	C
1	F1	1204	C
1	F1	1205	A
1	F1	1206	A
1	F1	1207	A
1	F1	1208	U
1	F1	1209	G
1	F1	1212	C
1	F1	1213	G
1	F1	1216	C
1	F1	1217	A
1	F1	1218	U
1	F1	1219	C

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Mol	Chain	Res	Type
1	F1	1220	A
1	F1	1224	A
1	F1	1226	C
1	F1	1227	A
1	F1	1228	C
1	F1	1233	G
1	F1	1234	G
1	F1	1235	U
1	F1	1236	G
1	F1	1243	C
1	F1	1244	A
1	F1	1245	U
1	F1	1246	A
1	F1	1248	G
1	F1	1249	G
1	F1	1250	A
1	F1	1255	A
1	F1	1257	G
1	F1	1309	G
1	F1	1313	A
1	F1	1314	A
1	F1	1316	G
1	F1	1319	C
1	F1	1334	G
1	F1	1335	A
1	F1	1336	U
1	F1	1339	C
1	F1	1340	G
1	F1	1343	G
1	F1	1344	A
1	F1	1353	G
1	F1	1356	G
1	F1	1357	A
1	F1	1358	U
1	F1	1361	U
1	F1	1363	A
1	F1	1371	G
1	F1	1374	C
1	F1	1375	A
1	F1	1376	A
1	F1	1377	A
1	F1	1378	U

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Mol	Chain	Res	Type
1	F1	1380	C
1	F1	1381	G
1	F1	1382	A
1	F1	1383	G
1	F1	1384	G
1	F1	1387	U
1	F1	1392	G
1	F1	1395	U
1	F1	1399	A
1	F1	1400	G
1	F1	1401	G
1	F1	1403	C
1	F1	1405	U
1	F1	1406	G
1	F1	1410	G
1	F1	1413	G
1	F1	1416	U
1	F1	1424	U
1	F1	1425	U
1	F1	1426	G
1	F1	1430	G
1	F1	1431	U
1	F1	1434	G
1	F1	1435	C
1	F1	1437	U
1	F1	1445	G
1	F1	1446	C
1	F1	1456	U
1	F1	1460	G
1	F1	1461	A
1	F1	1463	C
1	F1	1468	U
1	F1	1469	G
1	F1	1472	A
1	F1	1478	A
1	F1	1479	A
1	F1	1481	U
1	F1	1482	A
1	F1	1493	A
1	F1	1495	C
1	F1	1496	U
1	F1	1507	A

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Mol	Chain	Res	Type
1	F1	1508	A
1	F1	1509	G
1	F1	1510	U
1	F1	1521	U
1	F1	1522	C
1	F1	1528	G
1	F1	1533	G
1	F1	1534	C
1	F1	1537	U
1	F1	1538	U
1	F1	1539	G
1	F1	1540	U
1	F1	1545	G
1	F1	1547	G
1	F1	1548	U
1	F1	1549	U
1	F1	1551	C
1	F1	1552	U
1	F1	1562	G
1	F1	1575	U
1	F1	1578	U
1	F1	1580	G
1	F1	1581	C
1	F1	1582	A
1	F1	1583	A
1	F1	1584	U
1	F1	1585	A
1	F1	1587	A
1	F1	1588	A
1	F1	1589	G
1	F1	1596	U
1	F1	1597	U
1	F1	1599	G
1	F1	1600	U
1	F1	1605	G
1	F1	1606	U
1	F1	1608	G
1	F1	1609	U
1	F1	1613	A
1	F1	1614	A
1	F1	1618	A
1	F1	1621	G

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Mol	Chain	Res	Type
1	F1	1625	U
1	F1	1629	U
1	F1	1630	A
1	F1	1631	U
1	F1	1632	U
1	F1	1633	C
1	F1	1638	A
1	F1	1639	G
1	F1	1643	G
1	F1	1644	A
1	F1	1645	C
1	F1	1649	G
1	F1	1650	U
1	F1	1651	A
1	F1	1652	U
1	F1	1654	G
1	F1	1655	A
1	F1	1656	G
1	F1	1662	A
1	F1	1663	C
1	F1	1666	A
1	F1	1668	A
1	F1	1676	G
1	F1	1681	C
1	F1	1682	G
1	F1	1686	G
1	F1	1698	G
1	F1	1707	A
1	F1	1714	C
1	F1	1715	U
1	F1	1716	U
1	F1	1717	U
1	F1	1726	C
1	F1	1729	U
1	F1	1737	A
1	F1	1738	A
1	F1	1739	A
1	F1	1740	U
1	F1	1741	U
1	F1	1742	G
1	F1	1748	U
1	F1	1753	A

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Mol	Chain	Res	Type
1	F1	1754	G
1	F1	1759	C
1	F1	1760	G
1	F1	1766	A
1	F1	1767	U
1	F1	1768	G
1	F1	1775	A
1	F1	1776	G
1	F1	1777	A
1	F1	1783	U
1	F1	1793	A
1	F1	1805	C
1	F1	1806	G
1	F1	1807	C
1	F1	1819	C
1	F1	1820	U
1	F1	1821	U
1	F1	1823	A
1	F1	1832	G
1	F1	1834	G
1	F1	1839	A
1	F1	1840	U
1	F1	1841	A
1	F1	1845	U
1	F1	1846	C
1	F1	1852	A
1	F1	1861	C
1	F1	1863	A
1	F1	1865	A
1	F1	1866	A
1	F1	1869	G
1	F1	1870	C
1	F1	1873	C
1	F1	1874	A
1	F1	1882	A
1	F1	1885	G
1	F1	1890	C
1	F1	1895	U
1	F1	1902	C
1	F1	1903	A
1	F1	1904	U
1	F1	1905	A

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Mol	Chain	Res	Type
1	F1	1908	A
1	F1	1910	A
1	F1	1913	G
1	F1	1917	A
1	F1	1919	A
1	F1	1923	G
1	F1	1924	A
1	F1	1925	A
1	F1	1929	G
1	F1	1930	G
1	F1	1937	G
1	F1	1938	G
1	F1	1942	C
1	F1	1943	G
1	F1	1950	C
1	F1	1951	G
1	F1	1952	G
1	F1	1955	U
1	F1	1956	A
1	F1	1957	A
1	F1	1958	G
1	F1	2101	G
1	F1	2102	A
1	F1	2106	G
1	F1	2107	A
1	F1	2108	A
1	F1	2109	G
1	F1	2110	C
1	F1	2111	G
1	F1	2117	A
1	F1	2118	G
1	F1	2119	G
1	F1	2127	A
1	F1	2130	G
1	F1	2133	U
1	F1	2134	A
1	F1	2136	U
1	F1	2146	G
1	F1	2147	C
1	F1	2150	U
1	F1	2154	A
1	F1	2156	G

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Mol	Chain	Res	Type
1	F1	2157	G
1	F1	2159	C
1	F1	2162	A
1	F1	2165	A
1	F1	2178	A
1	F1	2182	G
1	F1	2183	A
1	F1	2189	G
1	F1	2190	C
1	F1	2196	G
1	F1	2199	C
1	F1	2200	U
1	F1	2202	A
1	F1	2216	G
1	F1	2217	C
1	F1	2218	A
1	F1	2220	U
1	F1	2223	A
1	F1	2239	A
1	F1	2241	G
1	F1	2243	C
1	F1	2249	U
1	F1	2251	A
1	F1	2254	A
1	F1	2255	U
1	F1	2256	G
1	F1	2257	A
1	F1	2258	C
1	F1	2265	A
1	F1	2268	G
1	F1	2271	G
1	F1	2273	C
1	F1	2275	A
1	F1	2276	A
1	F1	2277	U
1	F1	2278	G
1	F1	2279	C
1	F1	2280	C
1	F1	2281	U
1	F1	2283	G
1	F1	2286	A
1	F1	2292	U

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Mol	Chain	Res	Type
1	F1	2293	U
1	F1	2298	A
1	F1	2301	C
1	F1	2302	G
1	F1	2303	C
1	F1	2304	A
1	F1	2305	U
1	F1	2308	A
1	F1	2309	U
1	F1	2310	G
1	F1	2317	U
1	F1	2318	G
1	F1	2321	A
1	F1	2324	A
1	F1	2329	U
1	F1	2330	G
1	F1	2331	U
1	F1	2335	U
1	F1	2342	U
1	F1	2343	A
1	F1	2344	U
1	F1	2353	C
1	F1	2356	A
1	F1	2357	C
1	F1	2358	A
1	F1	2361	U
1	F1	2366	G
1	F1	2367	A
1	F1	2368	A
1	F1	2369	C
1	F1	2370	G
1	F1	2372	G
1	F1	2378	A
1	F1	2379	A
1	F1	2380	U
1	F1	2383	U
1	F1	2386	G
1	F1	2388	G
1	F1	2389	G
1	F1	2391	G
1	F1	2392	A
1	F1	2393	A

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Mol	Chain	Res	Type
1	F1	2394	A
1	F1	2396	A
1	F1	2397	A
1	F1	2398	G
1	F1	2399	A
1	F1	2400	C
1	F1	2406	U
1	F1	2407	G
1	F1	2410	C
1	F1	2412	U
1	F1	2413	G
1	F1	2414	A
1	F1	2416	U
1	F1	2417	C
1	F1	2430	G
1	F1	2440	A
1	F1	2509	U
1	F1	2510	A
1	F1	2515	G
1	F1	2517	G
1	F1	2518	A
1	F1	2519	A
1	F1	2521	A
1	F1	2524	A
1	F1	2532	G
1	F1	2541	U
1	F1	2542	U
1	F1	2543	C
1	F1	2545	A
1	F1	2546	A
1	F1	2548	G
1	F1	2549	U
1	F1	2550	U
1	F1	2551	A
1	F1	2552	A
1	F1	2554	G
1	F1	2560	U
1	F1	2562	U
1	F1	2563	U
1	F1	2566	C
1	F1	2569	A
1	F1	2570	U

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Mol	Chain	Res	Type
1	F1	2574	U
1	F1	2575	G
1	F1	2576	C
1	F1	2577	G
1	F1	2578	A
1	F1	2580	A
1	F1	2582	A
1	F1	2583	C
1	F1	2595	G
1	F1	2603	G
1	F1	2614	A
1	F1	2615	A
1	F1	2616	U
1	F1	2617	G
1	F1	2618	C
1	F1	2622	U
1	F1	2625	A
1	F1	2626	A
1	F1	2627	C
1	F1	2634	G
1	F1	2635	C
1	F1	2637	G
1	F1	2638	G
1	F1	2639	C
1	F1	2640	G
1	F1	2641	U
1	F1	2642	C
1	F1	2644	U
1	F1	2645	A
1	F1	2646	A
1	F1	2647	G
1	F1	2655	C
1	F1	2666	G
1	F1	2667	A
1	F1	2670	U
1	F1	2672	U
1	F1	2678	A
1	F1	2679	G
1	F1	2680	A
1	F1	2683	A
1	F1	2684	A
1	F1	2685	A

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Mol	Chain	Res	Type
1	F1	2693	A
1	F1	2702	U
1	F1	2703	G
1	F1	2704	A
1	F1	2705	U
1	F1	2706	U
1	F1	2707	U
1	F1	2708	U
1	F1	2717	G
1	F1	2718	U
1	F1	2721	G
1	F1	2726	C
1	F1	2727	A
1	F1	2728	A
1	F1	2729	A
1	F1	2735	A
1	F1	2741	U
1	F1	2742	G
1	F1	2743	G
1	F1	2744	C
1	F1	2749	C
1	F1	2751	A
1	F1	2761	U
1	F1	2762	U
1	F1	2765	C
1	F1	2766	A
1	F1	2767	A
1	F1	2768	G
1	F1	2772	U
1	F1	2774	A
1	F1	2775	G
1	F1	2779	G
1	F1	2784	G
1	F1	2787	A
1	F1	2788	G
1	F1	2789	A
1	F1	2790	A
1	F1	2791	A
1	F1	2798	C
1	F1	2802	G
1	F1	2804	G
1	F1	2805	A

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Mol	Chain	Res	Type
1	F1	2815	U
1	F1	2816	G
1	F1	2817	U
1	F1	2822	G
1	F1	2827	G
1	F1	2829	G
1	F1	2830	U
1	F1	2831	U
1	F1	2833	A
1	F1	2847	U
1	F1	2848	U
1	F1	2849	U
1	F1	2855	C
1	F1	2857	U
1	F1	2858	C
1	F1	2859	G
1	F1	2860	A
1	F1	2863	U
1	F1	2875	A
1	F1	2876	U
1	F1	2887	C
1	F1	2899	C
1	F1	2900	G
1	F1	2902	G
1	F1	2906	G
1	F1	2907	A
1	F1	2911	U
1	F1	2912	U
1	F1	2913	C
1	F1	2916	C
1	F1	2918	G
1	F1	2923	U
1	F1	2924	A
1	F1	2925	G
1	F1	2930	C
1	F1	2932	U
1	F1	2933	G
1	F1	2934	A
1	F1	2935	G
1	F1	2936	C
1	F1	2947	C
1	F1	2955	A

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Mol	Chain	Res	Type
1	F1	2956	G
1	F1	2958	C
1	F1	2959	A
1	F1	2960	G
1	F1	2961	G
1	F1	2962	U
1	F1	2965	G
1	F1	2967	U
1	F1	2971	C
1	F1	2972	C
1	F1	2978	G
1	F1	2985	C
1	F1	2986	G
1	F1	2995	A
1	F1	2996	C
1	F1	2999	U
1	F1	3000	A
1	F1	3001	A
1	F1	3008	U
1	F1	3011	G
1	F1	3012	U
1	F1	3019	G
1	F1	3021	A
1	F1	3028	A
1	F1	3036	U
1	F1	3041	G
1	F1	3044	A
1	F1	3045	A
1	F1	3046	A
1	F1	3047	U
1	F1	3048	A
1	F1	3063	G
1	F1	3066	A
1	F1	3068	U
1	F1	3072	G
1	F1	3080	A
1	F1	3081	C
1	F1	3087	G
1	F1	3088	U
1	F1	3104	G
1	F1	3105	G
1	F1	3106	C

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Mol	Chain	Res	Type
1	F1	3107	C
1	F1	3109	C
1	F1	3110	U
1	F1	3111	A
1	F1	3112	A
1	F1	3114	U
1	F1	3115	C
1	F1	3116	A
1	F1	3118	A
1	F1	3119	A
1	F1	3120	U
1	F1	3123	A
1	F1	3125	G
1	F1	3128	G
1	F1	3129	G
1	F1	3130	A
1	F1	3131	A
1	F1	3132	A
1	F1	3133	G
1	F1	3134	C
1	F1	3138	G
1	F1	3139	U
1	F1	3143	A
1	F1	3145	U
1	F1	3146	G
1	F1	3147	U
1	F1	3151	G
1	F1	3152	A
1	F1	3154	A
1	F1	3155	A
1	F1	3156	A
1	F1	3157	C
1	F1	3158	G
1	F1	3159	A
1	F1	3160	A
1	F1	3161	A
1	F1	3162	A
1	F1	3163	A
1	F1	3167	U
1	F1	3168	A
1	F1	3169	A
1	F1	3173	U

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Mol	Chain	Res	Type
1	F1	3174	U
1	F1	3175	A
1	F1	3176	A
1	F1	3177	G
1	F1	3178	U
1	F1	3179	U
1	F1	3183	A
1	F1	3184	A
1	F1	3185	G
1	F1	3186	G
1	F1	3188	A
1	F1	3191	G
1	F1	3192	C
1	F1	3193	G
1	F1	3197	A
1	F1	3201	G
1	F1	3202	C
1	F1	3205	A
1	F1	3206	A
1	F1	3207	A
1	F1	3208	A
1	F1	3215	C
1	F1	3217	U
1	F1	3219	A
1	F1	3224	C
1	F1	3226	A
1	F1	3229	C
1	F1	3230	G
1	F1	3231	U
1	F1	3232	A
1	F1	3234	U
1	F1	3235	U
1	F1	3236	C
1	F1	3237	C
1	F1	3238	A
1	F1	3241	U
1	F1	3242	U
1	F1	3247	U
1	F1	3251	C
1	F1	3252	G
1	F1	3264	U
1	F1	3265	A

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Mol	Chain	Res	Type
1	F1	3267	A
1	F1	3270	A
1	F1	3274	A
1	F1	3276	C
1	F1	3277	A
1	F1	3278	U
1	F1	3279	G
1	F1	3292	U
1	F1	3298	U
1	F1	3299	G
1	F1	3307	A
1	F1	3311	U
1	F1	3312	C
1	F1	3324	U
1	F1	3325	G
1	F1	3326	A
1	F1	3332	A
1	F1	3333	G
1	F1	3334	C
1	F1	3338	U
1	F1	3343	U
1	F1	3344	U
1	F1	3345	A
1	F1	3352	U
20	G2	2	G
20	G2	3	A
20	G2	4	A
20	G2	5	A
20	G2	6	A
20	G2	7	U
20	G2	8	U
20	G2	17	U
20	G2	26	A
20	G2	27	G
20	G2	28	G
20	G2	34	G
20	G2	35	U
20	G2	36	G
20	G2	38	C
20	G2	43	A
20	G2	44	A
20	G2	45	G

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Mol	Chain	Res	Type
20	G2	47	A
20	G2	55	A
20	G2	62	A
20	G2	65	C
20	G2	66	G
20	G2	67	C
20	G2	73	G
20	G2	74	A
20	G2	75	A
20	G2	82	A
20	G2	84	C
20	G2	85	C
20	G2	86	G
20	G2	87	C
20	G2	88	G
20	G2	89	A
20	G2	91	U
20	G2	92	C
20	G2	96	A
20	G2	97	G
20	G2	100	C
20	G2	105	A
20	G2	106	A
20	G2	107	C
20	G2	108	G
20	G2	112	G
20	G2	113	U
20	G2	114	G
20	G2	117	G
20	G2	122	U
20	G2	127	A
20	G2	131	C
20	G2	134	C
20	G2	135	A
20	G2	137	G
20	G2	140	U
20	G2	141	G
20	G2	145	C
20	G2	146	A
20	G2	148	U
20	G2	149	G
20	G2	150	U

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Mol	Chain	Res	Type
21	G3	5	U
21	G3	7	G
21	G3	9	C
21	G3	10	C
21	G3	13	A
21	G3	22	A
21	G3	25	A
21	G3	27	A
21	G3	38	U
21	G3	40	C
21	G3	41	G
21	G3	48	G
21	G3	49	A
21	G3	51	G
21	G3	53	U
21	G3	54	A
21	G3	55	A
21	G3	60	C
21	G3	62	U
21	G3	63	A
21	G3	64	A
21	G3	65	G
21	G3	82	G
21	G3	83	G
21	G3	89	G
21	G3	91	C
21	G3	97	G
21	G3	98	G
21	G3	100	A
21	G3	101	A
21	G3	105	C
21	G3	107	A
21	G3	110	G
21	G3	111	U
21	G3	112	C
21	G3	113	G
21	G3	118	C
21	G3	120	U
1	H1	9	G
1	H1	16	G
1	H1	17	C
1	H1	19	A

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Mol	Chain	Res	Type
1	H1	20	G
1	H1	24	A
1	H1	27	C
1	H1	32	A
1	H1	36	U
1	H1	38	A
1	H1	41	A
1	H1	43	A
1	H1	47	G
1	H1	48	U
1	H1	57	G
1	H1	58	A
1	H1	63	A
1	H1	64	A
1	H1	66	C
1	H1	67	U
1	H1	69	A
1	H1	70	C
1	H1	71	U
1	H1	72	A
1	H1	74	G
1	H1	75	A
1	H1	81	C
1	H1	83	A
1	H1	84	G
1	H1	87	A
1	H1	89	G
1	H1	90	G
1	H1	92	G
1	H1	93	A
1	H1	95	U
1	H1	97	A
1	H1	107	A
1	H1	108	G
1	H1	112	A
1	H1	114	A
1	H1	115	G
1	H1	116	U
1	H1	118	A
1	H1	119	A
1	H1	120	A
1	H1	121	A

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Mol	Chain	Res	Type
1	H1	122	U
1	H1	127	A
1	H1	128	G
1	H1	130	G
1	H1	133	C
1	H1	134	A
1	H1	135	A
1	H1	136	C
1	H1	137	A
1	H1	138	C
1	H1	139	A
1	H1	143	G
1	H1	147	U
1	H1	148	G
1	H1	152	U
1	H1	156	A
1	H1	157	A
1	H1	162	C
1	H1	166	C
1	H1	169	A
1	H1	174	A
1	H1	176	G
1	H1	177	C
1	H1	182	C
1	H1	188	A
1	H1	189	G
1	H1	190	U
1	H1	191	U
1	H1	193	C
1	H1	196	G
1	H1	201	A
1	H1	203	G
1	H1	205	C
1	H1	207	U
1	H1	211	A
1	H1	215	G
1	H1	217	U
1	H1	218	G
1	H1	219	A
1	H1	220	C
1	H1	221	A
1	H1	223	C

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Mol	Chain	Res	Type
1	H1	224	C
1	H1	227	G
1	H1	231	U
1	H1	232	C
1	H1	233	G
1	H1	240	A
1	H1	241	A
1	H1	242	G
1	H1	243	G
1	H1	250	U
1	H1	252	A
1	H1	254	G
1	H1	255	G
1	H1	258	A
1	H1	261	U
1	H1	262	C
1	H1	264	A
1	H1	265	A
1	H1	268	G
1	H1	271	G
1	H1	281	G
1	H1	282	G
1	H1	283	A
1	H1	284	U
1	H1	289	G
1	H1	292	C
1	H1	293	U
1	H1	294	A
1	H1	297	U
1	H1	299	G
1	H1	300	G
1	H1	304	U
1	H1	305	A
1	H1	307	A
1	H1	315	U
1	H1	328	A
1	H1	329	C
1	H1	332	G
1	H1	333	G
1	H1	334	G
1	H1	335	A
1	H1	336	G

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Mol	Chain	Res	Type
1	H1	337	A
1	H1	338	C
1	H1	339	C
1	H1	340	G
1	H1	341	A
1	H1	351	A
1	H1	352	G
1	H1	361	A
1	H1	362	G
1	H1	363	G
1	H1	368	A
1	H1	369	U
1	H1	370	G
1	H1	373	A
1	H1	374	A
1	H1	375	G
1	H1	376	A
1	H1	377	A
1	H1	383	A
1	H1	385	A
1	H1	386	A
1	H1	389	G
1	H1	396	A
1	H1	397	A
1	H1	399	A
1	H1	400	C
1	H1	412	G
1	H1	414	G
1	H1	416	A
1	H1	418	G
1	H1	419	A
1	H1	432	G
1	H1	433	C
1	H1	434	A
1	H1	435	A
1	H1	438	A
1	H1	439	A
1	H1	440	C
1	H1	442	G
1	H1	448	C
1	H1	449	G
1	H1	450	C

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Mol	Chain	Res	Type
1	H1	451	A
1	H1	453	A
1	H1	460	A
1	H1	461	A
1	H1	465	C
1	H1	466	U
1	H1	467	A
1	H1	469	U
1	H1	470	C
1	H1	471	A
1	H1	472	C
1	H1	486	C
1	H1	487	G
1	H1	489	A
1	H1	490	A
1	H1	492	A
1	H1	498	A
1	H1	499	U
1	H1	501	A
1	H1	502	G
1	H1	503	U
1	H1	505	A
1	H1	507	G
1	H1	516	C
1	H1	517	A
1	H1	518	G
1	H1	519	A
1	H1	521	C
1	H1	523	U
1	H1	525	C
1	H1	526	U
1	H1	527	A
1	H1	528	C
1	H1	532	G
1	H1	533	G
1	H1	539	A
1	H1	541	A
1	H1	543	A
1	H1	552	U
1	H1	553	C
1	H1	556	A
1	H1	562	G

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Mol	Chain	Res	Type
1	H1	564	A
1	H1	565	G
1	H1	566	U
1	H1	567	C
1	H1	568	A
1	H1	572	G
1	H1	576	U
1	H1	578	G
1	H1	579	G
1	H1	580	G
1	H1	582	A
1	H1	584	C
1	H1	586	A
1	H1	587	U
1	H1	591	G
1	H1	592	A
1	H1	595	A
1	H1	599	G
1	H1	600	G
1	H1	611	A
1	H1	612	C
1	H1	614	G
1	H1	615	G
1	H1	618	U
1	H1	620	A
1	H1	622	G
1	H1	623	G
1	H1	625	C
1	H1	626	C
1	H1	627	U
1	H1	628	A
1	H1	629	A
1	H1	631	G
1	H1	634	G
1	H1	635	A
1	H1	636	U
1	H1	643	A
1	H1	644	A
1	H1	645	A
1	H1	646	A
1	H1	660	C
1	H1	661	C

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Mol	Chain	Res	Type
1	H1	662	C
1	H1	663	G
1	H1	666	U
1	H1	673	A
1	H1	684	A
1	H1	685	G
1	H1	686	U
1	H1	697	A
1	H1	701	A
1	H1	709	G
1	H1	711	U
1	H1	719	C
1	H1	720	C
1	H1	723	U
1	H1	724	C
1	H1	728	G
1	H1	729	A
1	H1	730	A
1	H1	733	G
1	H1	737	G
1	H1	740	A
1	H1	741	G
1	H1	742	U
1	H1	743	A
1	H1	745	A
1	H1	747	G
1	H1	751	C
1	H1	753	A
1	H1	757	C
1	H1	761	A
1	H1	767	C
1	H1	773	C
1	H1	775	C
1	H1	777	C
1	H1	786	G
1	H1	788	C
1	H1	789	U
1	H1	790	C
1	H1	791	C
1	H1	792	G
1	H1	799	G
1	H1	800	G

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Mol	Chain	Res	Type
1	H1	801	U
1	H1	803	C
1	H1	805	A
1	H1	806	G
1	H1	807	G
1	H1	810	G
1	H1	811	A
1	H1	821	U
1	H1	825	G
1	H1	827	C
1	H1	831	A
1	H1	833	A
1	H1	834	G
1	H1	840	G
1	H1	842	A
1	H1	847	G
1	H1	855	A
1	H1	866	A
1	H1	870	G
1	H1	874	C
1	H1	881	G
1	H1	883	A
1	H1	886	C
1	H1	894	G
1	H1	896	U
1	H1	898	C
1	H1	899	U
1	H1	904	U
1	H1	905	G
1	H1	908	A
1	H1	919	A
1	H1	921	A
1	H1	930	U
1	H1	932	G
1	H1	933	G
1	H1	934	G
1	H1	935	G
1	H1	939	A
1	H1	940	A
1	H1	941	G
1	H1	942	A
1	H1	944	U

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Mol	Chain	Res	Type
1	H1	946	A
1	H1	948	C
1	H1	957	U
1	H1	958	A
1	H1	959	G
1	H1	961	A
1	H1	962	G
1	H1	969	C
1	H1	972	U
1	H1	973	C
1	H1	978	G
1	H1	983	U
1	H1	984	C
1	H1	985	U
1	H1	986	C
1	H1	987	A
1	H1	988	G
1	H1	990	A
1	H1	992	A
1	H1	999	G
1	H1	1003	G
1	H1	1004	U
1	H1	1005	A
1	H1	1006	C
1	H1	1007	G
1	H1	1008	C
1	H1	1012	U
1	H1	1017	U
1	H1	1018	A
1	H1	1019	G
1	H1	1020	G
1	H1	1025	G
1	H1	1027	G
1	H1	1028	A
1	H1	1034	U
1	H1	1035	A
1	H1	1040	A
1	H1	1042	U
1	H1	1044	G
1	H1	1047	G
1	H1	1048	U
1	H1	1049	U

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Mol	Chain	Res	Type
1	H1	1052	A
1	H1	1053	A
1	H1	1054	G
1	H1	1055	A
1	H1	1058	C
1	H1	1060	C
1	H1	1061	G
1	H1	1064	C
1	H1	1067	U
1	H1	1072	A
1	H1	1073	A
1	H1	1074	A
1	H1	1075	C
1	H1	1083	U
1	H1	1085	G
1	H1	1087	A
1	H1	1090	A
1	H1	1091	G
1	H1	1092	C
1	H1	1095	C
1	H1	1096	G
1	H1	1097	G
1	H1	1098	A
1	H1	1099	G
1	H1	1101	U
1	H1	1102	U
1	H1	1103	A
1	H1	1104	C
1	H1	1108	A
1	H1	1109	A
1	H1	1110	U
1	H1	1111	G
1	H1	1115	U
1	H1	1116	C
1	H1	1118	C
1	H1	1122	A
1	H1	1123	A
1	H1	1124	G
1	H1	1125	A
1	H1	1129	C
1	H1	1130	A
1	H1	1131	G

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Mol	Chain	Res	Type
1	H1	1132	U
1	H1	1135	U
1	H1	1142	G
1	H1	1143	G
1	H1	1144	G
1	H1	1151	U
1	H1	1155	U
1	H1	1158	G
1	H1	1159	C
1	H1	1161	G
1	H1	1166	G
1	H1	1169	G
1	H1	1170	A
1	H1	1176	G
1	H1	1178	U
1	H1	1180	A
1	H1	1181	A
1	H1	1182	C
1	H1	1184	U
1	H1	1185	A
1	H1	1186	A
1	H1	1187	C
1	H1	1198	G
1	H1	1199	G
1	H1	1203	C
1	H1	1204	C
1	H1	1205	A
1	H1	1206	A
1	H1	1207	A
1	H1	1208	U
1	H1	1209	G
1	H1	1212	C
1	H1	1213	G
1	H1	1216	C
1	H1	1217	A
1	H1	1218	U
1	H1	1219	C
1	H1	1220	A
1	H1	1224	A
1	H1	1226	C
1	H1	1227	A
1	H1	1228	C

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Mol	Chain	Res	Type
1	H1	1233	G
1	H1	1234	G
1	H1	1235	U
1	H1	1236	G
1	H1	1243	C
1	H1	1244	A
1	H1	1245	U
1	H1	1246	A
1	H1	1248	G
1	H1	1249	G
1	H1	1250	A
1	H1	1255	A
1	H1	1257	G
1	H1	1309	G
1	H1	1313	A
1	H1	1314	A
1	H1	1316	G
1	H1	1319	C
1	H1	1334	G
1	H1	1335	A
1	H1	1336	U
1	H1	1339	C
1	H1	1340	G
1	H1	1343	G
1	H1	1344	A
1	H1	1353	G
1	H1	1357	A
1	H1	1358	U
1	H1	1359	A
1	H1	1361	U
1	H1	1363	A
1	H1	1371	G
1	H1	1374	C
1	H1	1375	A
1	H1	1376	A
1	H1	1377	A
1	H1	1378	U
1	H1	1380	C
1	H1	1381	G
1	H1	1382	A
1	H1	1383	G
1	H1	1384	G

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Mol	Chain	Res	Type
1	H1	1387	U
1	H1	1392	G
1	H1	1395	U
1	H1	1399	A
1	H1	1400	G
1	H1	1401	G
1	H1	1403	C
1	H1	1405	U
1	H1	1406	G
1	H1	1410	G
1	H1	1413	G
1	H1	1416	U
1	H1	1424	U
1	H1	1425	U
1	H1	1426	G
1	H1	1430	G
1	H1	1431	U
1	H1	1434	G
1	H1	1435	C
1	H1	1437	U
1	H1	1445	G
1	H1	1446	C
1	H1	1456	U
1	H1	1460	G
1	H1	1461	A
1	H1	1463	C
1	H1	1468	U
1	H1	1469	G
1	H1	1472	A
1	H1	1478	A
1	H1	1479	A
1	H1	1481	U
1	H1	1482	A
1	H1	1494	A
1	H1	1495	C
1	H1	1496	U
1	H1	1507	A
1	H1	1508	A
1	H1	1509	G
1	H1	1521	U
1	H1	1528	G
1	H1	1533	G

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Mol	Chain	Res	Type
1	H1	1534	C
1	H1	1537	U
1	H1	1538	U
1	H1	1539	G
1	H1	1540	U
1	H1	1547	G
1	H1	1548	U
1	H1	1549	U
1	H1	1551	C
1	H1	1552	U
1	H1	1562	G
1	H1	1575	U
1	H1	1578	U
1	H1	1581	C
1	H1	1582	A
1	H1	1583	A
1	H1	1584	U
1	H1	1585	A
1	H1	1587	A
1	H1	1588	A
1	H1	1589	G
1	H1	1595	A
1	H1	1596	U
1	H1	1597	U
1	H1	1599	G
1	H1	1600	U
1	H1	1605	G
1	H1	1606	U
1	H1	1608	G
1	H1	1609	U
1	H1	1613	A
1	H1	1614	A
1	H1	1618	A
1	H1	1621	G
1	H1	1625	U
1	H1	1629	U
1	H1	1630	A
1	H1	1631	U
1	H1	1632	U
1	H1	1638	A
1	H1	1639	G
1	H1	1643	G

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Mol	Chain	Res	Type
1	H1	1644	A
1	H1	1645	C
1	H1	1649	G
1	H1	1650	U
1	H1	1651	A
1	H1	1652	U
1	H1	1654	G
1	H1	1655	A
1	H1	1656	G
1	H1	1662	A
1	H1	1663	C
1	H1	1666	A
1	H1	1668	A
1	H1	1676	G
1	H1	1681	C
1	H1	1682	G
1	H1	1686	G
1	H1	1698	G
1	H1	1714	C
1	H1	1715	U
1	H1	1716	U
1	H1	1717	U
1	H1	1726	C
1	H1	1729	U
1	H1	1737	A
1	H1	1738	A
1	H1	1739	A
1	H1	1740	U
1	H1	1741	U
1	H1	1742	G
1	H1	1748	U
1	H1	1753	A
1	H1	1754	G
1	H1	1759	C
1	H1	1760	G
1	H1	1766	A
1	H1	1767	U
1	H1	1768	G
1	H1	1775	A
1	H1	1776	G
1	H1	1777	A
1	H1	1783	U

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Mol	Chain	Res	Type
1	H1	1793	A
1	H1	1798	U
1	H1	1805	C
1	H1	1806	G
1	H1	1807	C
1	H1	1819	C
1	H1	1820	U
1	H1	1821	U
1	H1	1823	A
1	H1	1832	G
1	H1	1834	G
1	H1	1839	A
1	H1	1840	U
1	H1	1841	A
1	H1	1845	U
1	H1	1846	C
1	H1	1852	A
1	H1	1863	A
1	H1	1865	A
1	H1	1866	A
1	H1	1869	G
1	H1	1870	C
1	H1	1873	C
1	H1	1874	A
1	H1	1882	A
1	H1	1885	G
1	H1	1886	U
1	H1	1890	C
1	H1	1895	U
1	H1	1902	C
1	H1	1903	A
1	H1	1904	U
1	H1	1905	A
1	H1	1908	A
1	H1	1909	C
1	H1	1910	A
1	H1	1917	A
1	H1	1919	A
1	H1	1923	G
1	H1	1924	A
1	H1	1925	A
1	H1	1929	G

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Mol	Chain	Res	Type
1	H1	1930	G
1	H1	1937	G
1	H1	1938	G
1	H1	1942	C
1	H1	1943	G
1	H1	1950	C
1	H1	1951	G
1	H1	1952	G
1	H1	1955	U
1	H1	1956	A
1	H1	1957	A
1	H1	1958	G
1	H1	2101	G
1	H1	2102	A
1	H1	2106	G
1	H1	2107	A
1	H1	2108	A
1	H1	2109	G
1	H1	2110	C
1	H1	2111	G
1	H1	2117	A
1	H1	2118	G
1	H1	2119	G
1	H1	2127	A
1	H1	2130	G
1	H1	2133	U
1	H1	2134	A
1	H1	2136	U
1	H1	2146	G
1	H1	2147	C
1	H1	2150	U
1	H1	2154	A
1	H1	2156	G
1	H1	2157	G
1	H1	2159	C
1	H1	2165	A
1	H1	2178	A
1	H1	2182	G
1	H1	2183	A
1	H1	2189	G
1	H1	2190	C
1	H1	2196	G

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Mol	Chain	Res	Type
1	H1	2199	C
1	H1	2200	U
1	H1	2202	A
1	H1	2216	G
1	H1	2217	C
1	H1	2218	A
1	H1	2220	U
1	H1	2223	A
1	H1	2239	A
1	H1	2243	C
1	H1	2244	G
1	H1	2245	G
1	H1	2246	G
1	H1	2247	A
1	H1	2248	G
1	H1	2249	U
1	H1	2251	A
1	H1	2256	G
1	H1	2258	C
1	H1	2264	U
1	H1	2265	A
1	H1	2268	G
1	H1	2271	G
1	H1	2273	C
1	H1	2275	A
1	H1	2276	A
1	H1	2277	U
1	H1	2278	G
1	H1	2279	C
1	H1	2280	C
1	H1	2281	U
1	H1	2283	G
1	H1	2286	A
1	H1	2292	U
1	H1	2293	U
1	H1	2298	A
1	H1	2301	C
1	H1	2302	G
1	H1	2303	C
1	H1	2304	A
1	H1	2305	U
1	H1	2308	A

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Mol	Chain	Res	Type
1	H1	2309	U
1	H1	2310	G
1	H1	2317	U
1	H1	2318	G
1	H1	2321	A
1	H1	2324	A
1	H1	2329	U
1	H1	2330	G
1	H1	2331	U
1	H1	2335	U
1	H1	2342	U
1	H1	2343	A
1	H1	2344	U
1	H1	2356	A
1	H1	2357	C
1	H1	2358	A
1	H1	2361	U
1	H1	2366	G
1	H1	2367	A
1	H1	2368	A
1	H1	2369	C
1	H1	2370	G
1	H1	2372	G
1	H1	2378	A
1	H1	2379	A
1	H1	2380	U
1	H1	2383	U
1	H1	2386	G
1	H1	2388	G
1	H1	2391	G
1	H1	2392	A
1	H1	2393	A
1	H1	2394	A
1	H1	2396	A
1	H1	2397	A
1	H1	2398	G
1	H1	2399	A
1	H1	2400	C
1	H1	2406	U
1	H1	2407	G
1	H1	2410	C
1	H1	2412	U

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Mol	Chain	Res	Type
1	H1	2413	G
1	H1	2414	A
1	H1	2416	U
1	H1	2417	C
1	H1	2421	U
1	H1	2430	G
1	H1	2509	U
1	H1	2510	A
1	H1	2515	G
1	H1	2517	G
1	H1	2518	A
1	H1	2519	A
1	H1	2521	A
1	H1	2524	A
1	H1	2532	G
1	H1	2541	U
1	H1	2542	U
1	H1	2543	C
1	H1	2545	A
1	H1	2546	A
1	H1	2548	G
1	H1	2549	U
1	H1	2550	U
1	H1	2551	A
1	H1	2552	A
1	H1	2554	G
1	H1	2560	U
1	H1	2562	U
1	H1	2563	U
1	H1	2566	C
1	H1	2569	A
1	H1	2570	U
1	H1	2574	U
1	H1	2575	G
1	H1	2576	C
1	H1	2577	G
1	H1	2578	A
1	H1	2580	A
1	H1	2582	A
1	H1	2583	C
1	H1	2595	G
1	H1	2603	G

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Mol	Chain	Res	Type
1	H1	2614	A
1	H1	2615	A
1	H1	2616	U
1	H1	2617	G
1	H1	2618	C
1	H1	2622	U
1	H1	2625	A
1	H1	2626	A
1	H1	2627	C
1	H1	2633	C
1	H1	2634	G
1	H1	2635	C
1	H1	2637	G
1	H1	2638	G
1	H1	2639	C
1	H1	2640	G
1	H1	2641	U
1	H1	2642	C
1	H1	2644	U
1	H1	2645	A
1	H1	2646	A
1	H1	2647	G
1	H1	2655	C
1	H1	2666	G
1	H1	2667	A
1	H1	2670	U
1	H1	2672	U
1	H1	2678	A
1	H1	2679	G
1	H1	2680	A
1	H1	2683	A
1	H1	2684	A
1	H1	2685	A
1	H1	2693	A
1	H1	2702	U
1	H1	2703	G
1	H1	2704	A
1	H1	2705	U
1	H1	2706	U
1	H1	2707	U
1	H1	2708	U
1	H1	2717	G

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Mol	Chain	Res	Type
1	H1	2718	U
1	H1	2721	G
1	H1	2726	C
1	H1	2727	A
1	H1	2728	A
1	H1	2729	A
1	H1	2735	A
1	H1	2741	U
1	H1	2742	G
1	H1	2743	G
1	H1	2744	C
1	H1	2749	C
1	H1	2751	A
1	H1	2761	U
1	H1	2762	U
1	H1	2765	C
1	H1	2766	A
1	H1	2767	A
1	H1	2768	G
1	H1	2772	U
1	H1	2774	A
1	H1	2775	G
1	H1	2779	G
1	H1	2784	G
1	H1	2787	A
1	H1	2788	G
1	H1	2789	A
1	H1	2790	A
1	H1	2791	A
1	H1	2798	C
1	H1	2802	G
1	H1	2804	G
1	H1	2805	A
1	H1	2806	U
1	H1	2815	U
1	H1	2816	G
1	H1	2817	U
1	H1	2821	A
1	H1	2822	G
1	H1	2827	G
1	H1	2829	G
1	H1	2830	U

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Mol	Chain	Res	Type
1	H1	2831	U
1	H1	2833	A
1	H1	2847	U
1	H1	2848	U
1	H1	2849	U
1	H1	2855	C
1	H1	2857	U
1	H1	2858	C
1	H1	2859	G
1	H1	2860	A
1	H1	2863	U
1	H1	2875	A
1	H1	2876	U
1	H1	2887	C
1	H1	2898	A
1	H1	2899	C
1	H1	2900	G
1	H1	2902	G
1	H1	2907	A
1	H1	2911	U
1	H1	2912	U
1	H1	2913	C
1	H1	2916	C
1	H1	2923	U
1	H1	2924	A
1	H1	2925	G
1	H1	2930	C
1	H1	2932	U
1	H1	2933	G
1	H1	2934	A
1	H1	2935	G
1	H1	2936	C
1	H1	2947	C
1	H1	2955	A
1	H1	2956	G
1	H1	2958	C
1	H1	2959	A
1	H1	2960	G
1	H1	2961	G
1	H1	2962	U
1	H1	2965	G
1	H1	2967	U

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Mol	Chain	Res	Type
1	H1	2971	C
1	H1	2972	C
1	H1	2978	G
1	H1	2985	C
1	H1	2986	G
1	H1	2995	A
1	H1	2996	C
1	H1	2999	U
1	H1	3000	A
1	H1	3001	A
1	H1	3008	U
1	H1	3011	G
1	H1	3012	U
1	H1	3019	G
1	H1	3021	A
1	H1	3023	C
1	H1	3028	A
1	H1	3036	U
1	H1	3041	G
1	H1	3044	A
1	H1	3045	A
1	H1	3046	A
1	H1	3047	U
1	H1	3048	A
1	H1	3063	G
1	H1	3066	A
1	H1	3068	U
1	H1	3072	G
1	H1	3080	A
1	H1	3081	C
1	H1	3087	G
1	H1	3088	U
1	H1	3093	U
1	H1	3104	G
1	H1	3105	G
1	H1	3106	C
1	H1	3107	C
1	H1	3109	C
1	H1	3110	U
1	H1	3111	A
1	H1	3112	A
1	H1	3115	C

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Mol	Chain	Res	Type
1	H1	3116	A
1	H1	3118	A
1	H1	3119	A
1	H1	3120	U
1	H1	3123	A
1	H1	3125	G
1	H1	3128	G
1	H1	3129	G
1	H1	3130	A
1	H1	3131	A
1	H1	3132	A
1	H1	3133	G
1	H1	3134	C
1	H1	3137	U
1	H1	3138	G
1	H1	3139	U
1	H1	3143	A
1	H1	3145	U
1	H1	3146	G
1	H1	3147	U
1	H1	3151	G
1	H1	3152	A
1	H1	3154	A
1	H1	3155	A
1	H1	3156	A
1	H1	3157	C
1	H1	3158	G
1	H1	3159	A
1	H1	3160	A
1	H1	3161	A
1	H1	3163	A
1	H1	3167	U
1	H1	3168	A
1	H1	3169	A
1	H1	3173	U
1	H1	3174	U
1	H1	3175	A
1	H1	3176	A
1	H1	3177	G
1	H1	3178	U
1	H1	3179	U
1	H1	3183	A

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Mol	Chain	Res	Type
1	H1	3184	A
1	H1	3185	G
1	H1	3186	G
1	H1	3188	A
1	H1	3191	G
1	H1	3192	C
1	H1	3193	G
1	H1	3197	A
1	H1	3201	G
1	H1	3202	C
1	H1	3205	A
1	H1	3206	A
1	H1	3207	A
1	H1	3208	A
1	H1	3215	C
1	H1	3217	U
1	H1	3219	A
1	H1	3224	C
1	H1	3226	A
1	H1	3229	C
1	H1	3230	G
1	H1	3231	U
1	H1	3232	A
1	H1	3234	U
1	H1	3235	U
1	H1	3236	C
1	H1	3237	C
1	H1	3238	A
1	H1	3241	U
1	H1	3242	U
1	H1	3247	U
1	H1	3251	C
1	H1	3252	G
1	H1	3264	U
1	H1	3265	A
1	H1	3267	A
1	H1	3270	A
1	H1	3274	A
1	H1	3276	C
1	H1	3277	A
1	H1	3278	U
1	H1	3279	G

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Mol	Chain	Res	Type
1	H1	3292	U
1	H1	3298	U
1	H1	3299	G
1	H1	3307	A
1	H1	3311	U
1	H1	3312	C
1	H1	3324	U
1	H1	3325	G
1	H1	3326	A
1	H1	3332	A
1	H1	3333	G
1	H1	3334	C
1	H1	3338	U
1	H1	3343	U
1	H1	3344	U
1	H1	3345	A
1	H1	3352	U

There are no RNA pucker outliers to report.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 885 ligands modelled in this entry, 885 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
1	F1	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	F1	2239:A	O3'	2240:C	P	1.91

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	A1	3119/3354 (92%)	0.12	89 (2%) 52 43	42, 91, 187, 390	0
1	D1	3119/3354 (92%)	0.05	34 (1%) 80 73	40, 79, 164, 330	0
1	F1	3119/3354 (92%)	0.18	62 (1%) 65 57	51, 94, 176, 357	0
1	H1	3119/3354 (92%)	0.49	136 (4%) 35 28	54, 121, 213, 367	0
2	AA	91/94 (96%)	-0.16	2 (2%) 62 53	29, 65, 120, 243	0
2	DA	91/94 (96%)	-0.09	0 100 100	34, 66, 123, 226	0
2	FA	91/94 (96%)	0.20	2 (2%) 62 53	47, 83, 132, 204	0
2	HA	91/94 (96%)	0.87	12 (13%) 4 5	74, 119, 186, 243	0
3	AB	51/52 (98%)	-0.20	1 (1%) 65 57	44, 63, 110, 148	0
3	DB	51/52 (98%)	-0.13	1 (1%) 65 57	49, 69, 111, 146	0
3	FB	51/52 (98%)	0.09	0 100 100	59, 86, 118, 167	0
3	HB	51/52 (98%)	0.79	8 (15%) 2 3	90, 114, 144, 197	0
4	AC	103/109 (94%)	0.37	3 (2%) 52 43	73, 117, 154, 228	0
4	DC	103/109 (94%)	-0.01	0 100 100	46, 84, 135, 194	0
4	FC	103/109 (94%)	0.01	1 (0%) 82 75	58, 96, 156, 192	0
4	HC	103/109 (94%)	0.32	3 (2%) 52 43	81, 130, 176, 199	0
5	AE	190/191 (99%)	0.19	12 (6%) 21 17	69, 122, 171, 214	0
5	DE	190/191 (99%)	0.08	1 (0%) 90 87	74, 124, 169, 226	0
5	FE	190/191 (99%)	0.20	8 (4%) 37 30	60, 123, 176, 227	0
5	HE	190/191 (99%)	0.34	14 (7%) 15 14	76, 141, 194, 227	0
6	AF	125/126 (99%)	0.02	5 (4%) 39 32	71, 111, 156, 213	0
6	DF	125/126 (99%)	-0.22	2 (1%) 72 64	70, 106, 157, 190	0
6	FF	125/126 (99%)	0.01	6 (4%) 31 25	63, 109, 166, 245	0
6	HF	125/126 (99%)	0.02	0 100 100	74, 113, 163, 224	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
7	AG	96/104 (92%)	0.08	1 (1%) 82 75	62, 103, 188, 218	0
7	DG	96/104 (92%)	0.06	4 (4%) 37 30	57, 114, 179, 222	0
7	FG	96/104 (92%)	0.18	2 (2%) 64 56	81, 112, 176, 199	0
7	HG	96/104 (92%)	0.21	1 (1%) 82 75	94, 134, 183, 218	0
8	AH	107/113 (94%)	-0.11	0 100 100	61, 91, 127, 159	0
8	DH	107/113 (94%)	-0.12	0 100 100	54, 89, 127, 138	0
8	FH	107/113 (94%)	-0.04	0 100 100	57, 89, 122, 164	0
8	HH	107/113 (94%)	0.14	0 100 100	68, 109, 141, 181	0
9	AJ	226/248 (91%)	-0.40	0 100 100	52, 90, 138, 190	0
9	DJ	226/248 (91%)	-0.36	0 100 100	51, 89, 136, 206	0
9	FJ	226/248 (91%)	-0.41	1 (0%) 92 89	38, 82, 130, 183	0
9	HJ	226/248 (91%)	-0.49	0 100 100	40, 78, 123, 155	0
10	AK	52/129 (40%)	0.12	2 (3%) 41 34	73, 101, 146, 182	0
10	DK	52/129 (40%)	-0.32	1 (1%) 67 59	53, 79, 134, 151	0
10	FK	52/129 (40%)	-0.40	0 100 100	56, 81, 139, 189	0
10	HK	52/129 (40%)	-0.26	0 100 100	61, 77, 118, 158	0
11	AL	108/123 (87%)	-0.12	1 (0%) 84 77	38, 73, 130, 165	0
11	DL	108/123 (87%)	-0.10	1 (0%) 84 77	47, 85, 144, 217	0
11	FL	108/123 (87%)	0.13	2 (1%) 67 59	66, 98, 135, 174	0
11	HL	108/123 (87%)	0.52	5 (4%) 33 27	90, 117, 156, 183	0
12	AM	100/118 (84%)	0.20	2 (2%) 65 57	72, 121, 155, 185	0
12	DM	100/118 (84%)	0.16	4 (4%) 39 32	73, 126, 179, 199	0
12	FM	100/118 (84%)	0.29	2 (2%) 65 57	93, 144, 196, 208	0
12	HM	100/118 (84%)	0.06	2 (2%) 65 57	98, 151, 195, 214	0
13	AN	143/144 (99%)	-0.20	1 (0%) 87 82	59, 97, 163, 189	0
13	DN	143/144 (99%)	-0.06	1 (0%) 87 82	73, 121, 179, 214	0
13	FN	143/144 (99%)	-0.02	1 (0%) 87 82	72, 122, 175, 208	0
13	HN	143/144 (99%)	0.30	3 (2%) 64 56	92, 148, 189, 217	0
14	AO	134/134 (100%)	-0.20	1 (0%) 87 82	66, 116, 162, 202	0
14	DO	134/134 (100%)	-0.11	1 (0%) 87 82	52, 99, 151, 209	0
14	FO	134/134 (100%)	0.03	2 (1%) 74 66	65, 118, 167, 219	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
14	HO	134/134 (100%)	0.48	11 (8%) 12 12	96, 143, 197, 227	0
15	AP	66/89 (74%)	0.39	3 (4%) 34 27	55, 128, 209, 241	0
15	DP	66/89 (74%)	0.32	5 (7%) 15 13	73, 116, 176, 245	0
15	FP	66/89 (74%)	0.56	4 (6%) 22 18	99, 143, 202, 214	0
15	HP	66/89 (74%)	1.03	8 (12%) 5 6	99, 149, 219, 247	0
16	AQ	102/104 (98%)	0.09	3 (2%) 52 43	72, 122, 172, 208	0
16	DQ	102/104 (98%)	-0.02	3 (2%) 52 43	63, 105, 151, 186	0
16	FQ	102/104 (98%)	0.01	2 (1%) 65 57	72, 114, 166, 190	0
16	HQ	102/104 (98%)	0.57	6 (5%) 23 19	110, 154, 195, 203	0
17	AT	65/66 (98%)	0.37	4 (6%) 21 17	76, 121, 156, 193	0
17	DT	65/66 (98%)	0.11	1 (1%) 74 66	51, 87, 122, 211	0
17	FT	65/66 (98%)	0.26	1 (1%) 74 66	51, 107, 144, 201	0
17	HT	65/66 (98%)	0.77	4 (6%) 21 17	69, 136, 171, 222	0
18	AU	203/206 (98%)	0.09	4 (1%) 65 57	74, 122, 179, 233	0
18	DU	203/206 (98%)	-0.14	0 100 100	48, 98, 158, 198	0
18	FU	203/206 (98%)	-0.07	1 (0%) 90 87	67, 116, 174, 203	0
18	HU	203/206 (98%)	0.54	19 (9%) 9 9	102, 155, 206, 240	0
19	AX	188/189 (99%)	-0.20	1 (0%) 90 87	72, 105, 145, 201	0
19	DX	188/189 (99%)	-0.29	0 100 100	54, 89, 128, 170	0
19	FX	188/189 (99%)	-0.09	1 (0%) 90 87	62, 98, 141, 179	0
19	HX	188/189 (99%)	-0.03	0 100 100	74, 106, 135, 193	0
20	B2	154/154 (100%)	-0.11	2 (1%) 77 69	61, 80, 118, 192	0
20	C2	154/154 (100%)	-0.03	0 100 100	54, 80, 120, 186	0
20	E2	154/154 (100%)	0.15	3 (1%) 67 59	74, 105, 142, 189	0
20	G2	154/154 (100%)	0.73	13 (8%) 12 12	98, 146, 182, 210	0
21	B3	120/120 (100%)	0.45	4 (3%) 47 39	90, 150, 184, 217	0
21	C3	120/120 (100%)	-0.10	0 100 100	64, 98, 116, 161	0
21	E3	120/120 (100%)	0.03	0 100 100	72, 120, 147, 172	0
21	G3	120/120 (100%)	0.45	4 (3%) 47 39	95, 138, 175, 235	0
22	BA	257/264 (97%)	-0.02	9 (3%) 44 37	30, 70, 134, 233	0
22	CA	257/264 (97%)	-0.18	10 (3%) 40 33	31, 75, 139, 238	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
22	EA	257/264 (97%)	-0.16	10 (3%) 40 33	40, 79, 136, 217	0
22	GA	257/264 (97%)	0.22	13 (5%) 29 23	60, 106, 157, 242	0
23	BB	386/391 (98%)	-0.32	5 (1%) 77 69	33, 69, 120, 227	0
23	CB	386/391 (98%)	-0.44	2 (0%) 90 87	34, 75, 123, 222	0
23	EB	386/391 (98%)	-0.36	4 (1%) 82 75	38, 75, 123, 230	0
23	GB	386/391 (98%)	-0.35	4 (1%) 82 75	51, 82, 132, 217	0
24	BC	409/410 (99%)	-0.01	12 (2%) 52 43	37, 107, 173, 241	0
24	CC	409/410 (99%)	-0.20	2 (0%) 90 87	40, 91, 151, 206	0
24	EC	409/410 (99%)	-0.07	5 (1%) 79 71	54, 107, 162, 237	0
24	GC	409/410 (99%)	0.34	17 (4%) 37 30	77, 143, 195, 252	0
25	BD	169/172 (98%)	0.96	23 (13%) 3 4	116, 159, 200, 225	0
25	CD	169/172 (98%)	0.12	4 (2%) 59 50	70, 110, 151, 188	0
25	ED	169/172 (98%)	0.49	8 (4%) 32 26	89, 133, 179, 209	0
25	GD	169/172 (98%)	0.66	19 (11%) 6 7	96, 139, 182, 216	0
26	BE	186/188 (98%)	-0.08	0 100 100	65, 109, 150, 194	0
26	CE	186/188 (98%)	-0.19	0 100 100	59, 94, 131, 171	0
26	EE	186/188 (98%)	-0.08	1 (0%) 90 87	60, 94, 139, 195	0
26	GE	186/188 (98%)	-0.12	0 100 100	53, 91, 135, 220	0
27	BF	231/255 (90%)	0.18	7 (3%) 51 42	70, 122, 176, 252	0
27	CF	231/255 (90%)	-0.15	3 (1%) 77 69	71, 115, 175, 233	0
27	EF	231/255 (90%)	0.00	6 (2%) 56 47	76, 120, 187, 241	0
27	GF	231/255 (90%)	0.60	17 (7%) 15 14	112, 166, 210, 233	0
28	BG	0/123	-	-	-	-
28	CG	0/123	-	-	-	-
28	EG	0/123	-	-	-	-
28	GG	0/123	-	-	-	-
29	BH	201/215 (93%)	0.18	5 (2%) 58 48	79, 133, 181, 221	0
29	CH	201/215 (93%)	-0.24	1 (0%) 90 87	42, 93, 139, 153	0
29	EH	201/215 (93%)	-0.15	2 (0%) 82 75	50, 105, 158, 202	0
29	GH	201/215 (93%)	0.08	2 (0%) 82 75	71, 118, 171, 203	0
30	BI	198/198 (100%)	-0.21	2 (1%) 82 75	51, 85, 152, 185	0
30	CI	198/198 (100%)	-0.36	0 100 100	48, 78, 149, 208	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
30	EI	198/198 (100%)	-0.26	2 (1%) 82 75	47, 79, 152, 174	0
30	GI	198/198 (100%)	-0.20	2 (1%) 82 75	53, 91, 151, 195	0
31	BJ	138/141 (97%)	-0.43	0 100 100	42, 68, 112, 160	0
31	CJ	138/141 (97%)	-0.47	0 100 100	40, 65, 108, 150	0
31	EJ	138/141 (97%)	-0.44	3 (2%) 62 53	40, 65, 108, 202	0
31	GJ	138/141 (97%)	-0.41	1 (0%) 87 82	30, 60, 98, 186	0
32	BK	148/149 (99%)	0.01	4 (2%) 55 46	50, 105, 158, 221	0
32	CK	148/149 (99%)	-0.27	0 100 100	36, 74, 124, 184	0
32	EK	148/149 (99%)	-0.10	0 100 100	50, 95, 140, 228	0
32	GK	148/149 (99%)	0.53	11 (7%) 15 14	78, 129, 181, 208	0
33	BL	203/204 (99%)	-0.26	1 (0%) 90 87	57, 83, 120, 153	0
33	CL	203/204 (99%)	-0.36	0 100 100	37, 74, 106, 180	0
33	EL	203/204 (99%)	-0.10	0 100 100	51, 89, 121, 160	0
33	GL	203/204 (99%)	0.39	7 (3%) 46 38	89, 133, 165, 205	0
34	BM	298/301 (99%)	0.35	10 (3%) 46 38	87, 152, 201, 240	0
34	CM	300/301 (99%)	-0.12	3 (1%) 82 75	61, 110, 166, 208	0
34	EM	300/301 (99%)	0.23	17 (5%) 24 20	76, 127, 183, 233	0
34	GM	300/301 (99%)	0.69	28 (9%) 9 9	98, 157, 204, 233	0
35	BN	180/181 (99%)	0.04	1 (0%) 89 84	68, 110, 150, 224	0
35	CN	180/181 (99%)	-0.33	0 100 100	47, 82, 125, 185	0
35	EN	180/181 (99%)	-0.10	1 (0%) 89 84	63, 101, 142, 187	0
35	GN	180/181 (99%)	0.28	5 (2%) 53 45	94, 139, 188, 248	0
36	BO	184/185 (99%)	0.27	14 (7%) 15 13	29, 78, 184, 207	0
36	EO	146/185 (78%)	0.19	4 (2%) 55 46	57, 95, 128, 194	0
36	GO	153/185 (82%)	0.39	8 (5%) 28 23	67, 109, 153, 262	0
37	BP	156/157 (99%)	0.16	0 100 100	70, 116, 169, 203	0
37	CP	156/157 (99%)	-0.27	0 100 100	42, 79, 136, 152	0
37	EP	156/157 (99%)	-0.09	2 (1%) 77 69	56, 100, 148, 183	0
37	GP	156/157 (99%)	0.46	6 (3%) 41 34	69, 122, 163, 222	0
38	BQ	157/183 (85%)	-0.34	0 100 100	31, 68, 121, 173	0
38	CQ	157/183 (85%)	-0.32	1 (0%) 89 84	26, 70, 124, 158	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
38	EQ	157/183 (85%)	-0.19	1 (0%) 89 84	48, 86, 141, 177	0
38	GQ	157/183 (85%)	0.16	2 (1%) 77 69	60, 106, 157, 200	0
39	BR	121/150 (80%)	-0.20	1 (0%) 86 79	42, 78, 129, 185	0
39	CR	121/150 (80%)	0.05	1 (0%) 86 79	54, 88, 129, 172	0
39	ER	121/150 (80%)	0.18	5 (4%) 38 31	65, 112, 146, 172	0
39	GR	121/150 (80%)	0.45	10 (8%) 12 12	97, 138, 175, 191	0
40	BS	126/135 (93%)	-0.17	0 100 100	62, 98, 133, 177	0
40	CS	126/135 (93%)	0.02	4 (3%) 48 40	46, 89, 127, 152	0
40	ES	126/135 (93%)	0.17	5 (3%) 39 32	74, 112, 151, 184	0
40	GS	126/135 (93%)	0.58	9 (7%) 17 14	101, 143, 186, 218	0
41	BT	61/158 (38%)	-0.38	0 100 100	39, 73, 127, 158	0
41	CT	61/158 (38%)	-0.31	0 100 100	37, 73, 105, 137	0
41	ET	61/158 (38%)	-0.35	0 100 100	45, 78, 113, 147	0
41	GT	61/158 (38%)	-0.20	0 100 100	42, 76, 115, 138	0
42	BU	123/124 (99%)	-0.12	1 (0%) 86 79	59, 101, 139, 204	0
42	CU	123/124 (99%)	-0.21	1 (0%) 86 79	49, 92, 143, 163	0
42	EU	123/124 (99%)	-0.06	2 (1%) 72 64	79, 114, 157, 220	0
42	GU	123/124 (99%)	0.80	19 (15%) 2 3	113, 157, 193, 233	0
43	BV	234/239 (97%)	-0.32	0 100 100	61, 107, 160, 213	0
43	CV	234/239 (97%)	-0.43	0 100 100	47, 87, 145, 213	0
43	EV	234/239 (97%)	-0.36	1 (0%) 92 89	53, 102, 159, 232	0
43	GV	234/239 (97%)	-0.15	1 (0%) 92 89	75, 121, 173, 239	0
44	BW	110/111 (99%)	-0.21	2 (1%) 69 60	36, 64, 155, 204	0
44	CW	110/111 (99%)	-0.19	0 100 100	43, 76, 138, 178	0
44	EW	110/111 (99%)	-0.00	1 (0%) 84 77	56, 88, 170, 227	0
44	GW	110/111 (99%)	0.09	1 (0%) 84 77	63, 102, 183, 216	0
45	BX	125/134 (93%)	-0.01	2 (1%) 72 64	53, 89, 128, 202	0
45	CX	125/134 (93%)	-0.27	1 (0%) 86 79	40, 78, 116, 196	0
45	EX	125/134 (93%)	-0.13	2 (1%) 72 64	49, 88, 129, 233	0
45	GX	125/134 (93%)	0.35	4 (3%) 48 40	73, 117, 162, 215	0
46	BY	102/103 (99%)	-0.11	4 (3%) 40 33	40, 74, 164, 222	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
46	CY	102/103 (99%)	-0.21	3 (2%)	52	43	41, 83, 173, 196	0
46	EY	102/103 (99%)	-0.08	3 (2%)	52	43	45, 84, 156, 193	0
46	GY	102/103 (99%)	0.05	4 (3%)	40	33	53, 102, 189, 222	0
47	CO	146/185 (78%)	-0.07	0	100	100	45, 79, 115, 148	0
All	All	40083/43352 (92%)	0.07	964 (2%)	59	50	26, 101, 177, 390	0

All (964) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	HA	92	ALA	14.9
1	H1	1597	U	11.1
1	A1	2500	C	11.1
1	A1	1597	U	10.4
23	BB	387	GLU	10.0
36	BO	185	VAL	9.9
1	A1	2498	G	9.7
1	A1	1043	C	9.4
1	A1	2499	U	9.3
2	FA	92	ALA	9.2
1	A1	2440	A	9.0
1	A1	2502	U	8.5
45	BX	127	LYS	8.3
22	BA	257	MET	8.1
1	H1	1598	C	8.0
1	F1	3311	U	8.0
1	A1	2501	A	7.6
5	FE	38	ALA	7.6
1	F1	2438	G	7.3
23	EB	387	GLU	7.2
1	H1	1596	U	7.2
1	D1	1597	U	7.1
2	HA	91	ALA	7.0
1	A1	2436	U	6.9
1	A1	2251	A	6.9
22	GA	256	ALA	6.9
1	H1	2252	C	6.7
1	A1	2252	C	6.6
22	BA	256	ALA	6.6
25	BD	170	ASN	6.5
1	F1	2437	G	6.4
1	A1	2437	G	6.3

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Mol	Chain	Res	Type	RSRZ
27	GF	192	ALA	6.3
36	BO	184	ASP	6.3
22	BA	258	LYS	6.3
1	A1	1054	G	6.2
1	D1	3310	U	6.1
22	GA	252	LYS	6.1
1	F1	2439	C	6.0
25	BD	5	LYS	6.0
1	A1	1044	G	6.0
22	CA	257	MET	5.9
1	D1	2254	A	5.9
1	F1	1597	U	5.7
1	F1	3310	U	5.7
22	BA	249	GLY	5.7
22	GA	255	MET	5.7
27	BF	19	ASN	5.7
1	H1	2254	A	5.7
36	GO	153	ASP	5.6
22	BA	252	LYS	5.6
22	BA	251	GLN	5.5
1	A1	1306	C	5.5
1	A1	1053	A	5.5
1	H1	2256	G	5.5
1	H1	1794	G	5.4
22	BA	250	GLY	5.4
1	A1	2503	U	5.4
2	HA	89	VAL	5.3
17	HT	66	GLU	5.3
24	BC	409	ASP	5.3
32	BK	98	LYS	5.3
5	FE	39	THR	5.3
34	GM	76	CYS	5.2
1	A1	1055	A	5.2
23	BB	384	LYS	5.2
5	FE	37	THR	5.2
23	BB	386	VAL	5.1
34	BM	90	THR	5.1
1	A1	1598	C	5.1
2	AA	92	ALA	5.1
1	D1	2256	G	5.1
24	BC	410	GLU	5.1
45	GX	127	LYS	4.9

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Mol	Chain	Res	Type	RSRZ
25	BD	171	VAL	4.9
13	FN	2	ALA	4.8
24	BC	406	LYS	4.8
34	BM	91	GLY	4.8
1	D1	3311	U	4.8
1	A1	1307	C	4.8
25	GD	66	ALA	4.7
1	A1	2438	G	4.7
1	F1	1095	C	4.7
1	H1	2253	U	4.7
1	A1	1041	C	4.7
22	GA	251	GLN	4.7
44	EW	2	VAL	4.6
1	H1	2255	U	4.6
12	DM	12	LYS	4.6
1	F1	3312	C	4.6
22	BA	253	GLU	4.6
40	GS	32	ALA	4.6
24	BC	405	ILE	4.6
38	GQ	158	LYS	4.6
44	BW	2	VAL	4.5
1	H1	470	C	4.5
34	EM	2	GLY	4.5
1	F1	1598	C	4.5
25	BD	172	TYR	4.5
1	A1	2250	A	4.5
1	A1	2435	A	4.5
3	HB	28	ARG	4.5
1	A1	2439	C	4.4
33	GL	2	GLY	4.4
32	GK	127	ALA	4.4
22	EA	251	GLN	4.4
22	EA	257	MET	4.4
22	CA	255	MET	4.4
20	B2	1	A	4.3
46	EY	103	ASN	4.3
1	A1	2254	A	4.3
1	A1	1256	G	4.3
5	AE	2	ALA	4.3
14	HO	52	GLY	4.3
27	EF	19	ASN	4.2
34	EM	187	SER	4.2

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Mol	Chain	Res	Type	RSRZ
1	A1	3145	U	4.2
30	BI	198	TYR	4.2
17	DT	66	GLU	4.2
22	EA	255	MET	4.2
1	H1	157	A	4.2
25	BD	120	THR	4.2
22	GA	249	GLY	4.2
1	D1	2255	U	4.1
27	GF	119	THR	4.1
1	H1	1642	G	4.1
45	BX	126	ALA	4.1
7	DG	102	LYS	4.1
22	CA	258	LYS	4.1
1	A1	1042	U	4.1
1	F1	1050	C	4.1
16	HQ	68	LYS	4.1
22	EA	258	LYS	4.1
22	CA	254	LYS	4.1
5	AE	8	LYS	4.0
22	GA	257	MET	4.0
33	GL	58	GLY	4.0
23	EB	386	VAL	4.0
1	D1	1306	C	4.0
22	CA	256	ALA	4.0
25	BD	91	LEU	4.0
17	FT	66	GLU	4.0
5	HE	9	ASN	4.0
1	A1	1045	G	4.0
1	F1	3309	U	4.0
34	CM	272	ARG	4.0
39	GR	30	LYS	4.0
1	A1	261	U	4.0
1	A1	2253	U	4.0
1	F1	3298	U	3.9
22	EA	253	GLU	3.9
42	GU	2	ASP	3.9
24	GC	351	SER	3.9
11	HL	64	TYR	3.9
25	BD	119	SER	3.9
46	GY	103	ASN	3.9
1	A1	1040	A	3.9
1	A1	1840	U	3.9

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Mol	Chain	Res	Type	RSRZ
33	GL	144	ASN	3.9
34	EM	194	LYS	3.9
3	HB	36	ARG	3.9
15	HP	74	LYS	3.8
5	FE	123	ARG	3.8
15	FP	38	ARG	3.8
37	GP	108	ARG	3.8
36	GO	2	VAL	3.8
5	HE	13	SER	3.8
16	DQ	102	ARG	3.8
34	GM	264	THR	3.7
1	H1	1306	C	3.7
22	CA	253	GLU	3.7
23	GB	386	VAL	3.7
1	A1	1027	G	3.7
1	A1	2959	A	3.7
22	EA	250	GLY	3.7
34	EM	189	GLU	3.7
45	EX	127	LYS	3.7
1	H1	1383	G	3.7
1	H1	2257	A	3.7
22	GA	254	LYS	3.7
34	CM	273	ASP	3.7
6	AF	124	LYS	3.6
1	D1	1598	C	3.6
22	GA	253	GLU	3.6
27	BF	102	GLN	3.6
1	H1	484	U	3.6
45	GX	126	ALA	3.6
1	H1	3310	U	3.6
1	H1	1307	C	3.6
25	ED	4	LYS	3.6
22	BA	255	MET	3.6
22	GA	157	LYS	3.6
36	GO	145	SER	3.6
42	GU	88	LYS	3.5
1	D1	3148	G	3.5
23	GB	387	GLU	3.5
39	GR	43	LEU	3.5
1	H1	2264	U	3.5
39	BR	30	LYS	3.5
1	H1	1257	G	3.5

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Mol	Chain	Res	Type	RSRZ
27	GF	30	ARG	3.5
24	EC	351	SER	3.5
1	H1	1256	G	3.5
32	BK	95	ASP	3.5
36	GO	49	LEU	3.4
6	AF	122	SER	3.4
27	GF	143	LEU	3.4
38	CQ	158	LYS	3.4
1	H1	1595	A	3.4
1	H1	2263	U	3.4
34	GM	273	ASP	3.4
46	BY	102	LYS	3.4
1	F1	1596	U	3.4
34	BM	188	ASP	3.4
25	BD	4	LYS	3.4
1	A1	3310	U	3.4
25	GD	5	LYS	3.4
34	GM	138	GLU	3.4
46	GY	101	LYS	3.4
31	GJ	4	ALA	3.4
29	BH	2	GLY	3.4
18	HU	146	ALA	3.4
1	H1	236	G	3.4
1	H1	1599	G	3.4
25	GD	60	LYS	3.4
42	BU	2	ASP	3.4
16	FQ	102	ARG	3.4
36	GO	154	LYS	3.3
1	D1	2250	A	3.3
39	ER	30	LYS	3.3
1	H1	1795	C	3.3
7	DG	103	THR	3.3
1	F1	2440	A	3.3
1	H1	504	A	3.3
1	F1	1	C	3.3
5	AE	3	ARG	3.3
27	GF	19	ASN	3.3
18	HU	138	ASP	3.3
2	HA	90	LYS	3.3
42	GU	58	TYR	3.3
24	GC	313	THR	3.3
1	A1	1805	C	3.3

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Mol	Chain	Res	Type	RSRZ
3	HB	37	TYR	3.3
7	DG	92	ILE	3.3
21	G3	102	G	3.3
34	GM	139	LYS	3.3
27	GF	118	GLU	3.3
46	BY	101	LYS	3.3
1	A1	1248	G	3.3
38	GQ	146	CYS	3.3
27	GF	191	VAL	3.3
32	GK	118	LEU	3.2
42	GU	12	THR	3.2
21	B3	120	U	3.2
1	A1	1246	A	3.2
40	CS	127	THR	3.2
33	GL	199	LYS	3.2
2	HA	81	SER	3.2
12	DM	21	CYS	3.2
16	AQ	68	LYS	3.2
45	EX	126	ALA	3.2
36	BO	159	GLN	3.2
10	AK	116	GLY	3.2
1	H1	284	U	3.2
32	BK	99	VAL	3.2
24	GC	211	GLY	3.2
1	A1	1308	U	3.2
1	D1	1256	G	3.2
36	BO	152	SER	3.2
46	BY	103	ASN	3.2
1	D1	1040	A	3.1
1	D1	1596	U	3.1
1	F1	1062	A	3.1
42	GU	10	LEU	3.1
18	HU	58	LYS	3.1
1	H1	1853	G	3.1
1	A1	1974	U	3.1
1	H1	3298	U	3.1
16	HQ	87	ALA	3.1
21	G3	101	A	3.1
1	H1	525	C	3.1
39	ER	31	THR	3.1
1	H1	3145	U	3.1
42	GU	86	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
34	EM	273	ASP	3.1
1	A1	1057	U	3.1
24	EC	317	HIS	3.1
1	H1	3132	A	3.1
3	DB	36	ARG	3.1
14	HO	60	THR	3.1
20	E2	1	A	3.1
39	ER	43	LEU	3.1
1	D1	1041	C	3.1
1	F1	1306	C	3.1
1	H1	1254	C	3.1
44	GW	2	VAL	3.1
1	H1	145	A	3.1
1	H1	2729	A	3.1
20	G2	127	A	3.1
35	GN	55	SER	3.1
16	DQ	103	LYS	3.1
40	GS	44	VAL	3.1
1	D1	1759	C	3.1
29	BH	210	GLU	3.1
1	D1	2437	G	3.1
40	ES	126	LYS	3.0
1	F1	1051	C	3.0
42	EU	43	ASN	3.0
31	EJ	4	ALA	3.0
42	GU	124	ALA	3.0
24	BC	408	GLY	3.0
24	BC	397	ASP	3.0
25	ED	133	ARG	3.0
5	AE	35	LYS	3.0
23	BB	385	LYS	3.0
22	GA	159	ILE	3.0
24	BC	407	GLU	3.0
14	HO	83	VAL	3.0
1	F1	1805	C	3.0
1	H1	469	U	3.0
34	GM	177	GLU	3.0
36	BO	158	GLN	3.0
6	AF	123	ALA	3.0
39	GR	41	LYS	3.0
25	GD	6	GLU	3.0
1	A1	1056	A	3.0

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Mol	Chain	Res	Type	RSRZ
44	BW	111	GLU	3.0
1	H1	2761	U	3.0
12	HM	12	LYS	3.0
34	EM	221	ASN	3.0
1	F1	1045	G	3.0
36	BO	153	ASP	3.0
18	HU	145	ALA	3.0
1	H1	2552	A	3.0
5	AE	9	ASN	3.0
1	F1	284	U	3.0
29	CH	113	SER	2.9
22	EA	252	LYS	2.9
34	EM	185	ARG	2.9
1	H1	871	A	2.9
39	GR	138	SER	2.9
27	BF	245	VAL	2.9
15	HP	7	ASP	2.9
5	HE	10	ARG	2.9
42	GU	47	ARG	2.9
32	GK	85	SER	2.9
5	HE	124	LYS	2.9
7	FG	92	ILE	2.9
2	FA	91	ALA	2.9
40	CS	122	ALA	2.9
24	GC	121	ASN	2.9
22	EA	256	ALA	2.9
31	EJ	6	GLY	2.9
1	H1	2251	A	2.9
32	BK	100	PRO	2.9
34	BM	221	ASN	2.9
25	GD	47	PHE	2.9
18	AU	164	LYS	2.9
18	HU	35	HIS	2.9
40	ES	127	THR	2.9
1	D1	3312	C	2.9
16	AQ	20	LYS	2.9
27	EF	112	LYS	2.9
1	H1	1844	U	2.9
4	AC	79	ARG	2.9
1	F1	1109	A	2.9
2	HA	70	THR	2.9
1	F1	2761	U	2.9

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Mol	Chain	Res	Type	RSRZ
1	H1	2250	A	2.9
1	H1	2759	A	2.9
7	AG	103	THR	2.9
5	FE	36	ALA	2.8
1	A1	1596	U	2.8
1	H1	3311	U	2.8
11	AL	109	SER	2.8
34	GM	271	LYS	2.8
25	BD	124	GLY	2.8
1	D1	1307	C	2.8
1	H1	2730	C	2.8
34	BM	189	GLU	2.8
2	HA	88	LYS	2.8
37	GP	128	THR	2.8
1	F1	261	U	2.8
34	GM	79	ASP	2.8
42	EU	2	ASP	2.8
25	GD	45	PRO	2.8
1	H1	17	C	2.8
36	GO	146	LYS	2.8
6	AF	85	TYR	2.8
24	BC	346	LYS	2.8
1	H1	465	C	2.8
22	CA	249	GLY	2.8
24	EC	350	ALA	2.8
27	GF	46	ARG	2.8
29	EH	213	ARG	2.8
1	F1	2256	G	2.8
39	GR	31	THR	2.8
14	HO	93	VAL	2.8
18	HU	187	ASN	2.8
1	F1	1049	U	2.8
34	GM	28	THR	2.8
20	G2	125	A	2.8
1	F1	1257	G	2.8
18	HU	133	LYS	2.8
1	A1	3311	U	2.8
1	H1	2778	A	2.8
5	HE	123	ARG	2.8
24	CC	349	GLU	2.8
36	EO	49	LEU	2.8
1	D1	284	U	2.8

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Mol	Chain	Res	Type	RSRZ
3	HB	29	TYR	2.8
1	D1	2257	A	2.8
5	FE	35	LYS	2.7
25	ED	149	GLY	2.7
4	AC	34	HIS	2.7
5	AE	29	HIS	2.7
33	GL	139	HIS	2.7
15	FP	44	LEU	2.7
5	FE	3	ARG	2.7
13	AN	34	LYS	2.7
34	GM	257	ASN	2.7
45	CX	127	LYS	2.7
1	A1	1257	G	2.7
42	CU	2	ASP	2.7
1	F1	1056	A	2.7
25	CD	25	GLU	2.7
5	HE	3	ARG	2.7
1	A1	1247	C	2.7
1	A1	2256	G	2.7
1	A1	3312	C	2.7
1	F1	1063	C	2.7
1	H1	873	A	2.7
18	HU	59	GLN	2.7
18	HU	128	GLN	2.7
1	A1	2249	U	2.7
1	A1	433	C	2.7
20	G2	66	G	2.7
29	EH	113	SER	2.7
37	GP	112	ASN	2.7
16	FQ	103	LYS	2.7
40	GS	125	LEU	2.7
32	GK	145	CYS	2.7
36	BO	181	ALA	2.7
21	B3	25	A	2.7
25	BD	47	PHE	2.7
6	FF	85	TYR	2.7
40	GS	127	THR	2.7
30	EI	177	ARG	2.7
1	H1	1308	U	2.7
20	G2	55	A	2.7
40	GS	78	ALA	2.7
23	EB	385	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
42	GU	87	LYS	2.7
34	GM	78	ALA	2.7
15	AP	28	LYS	2.7
1	H1	110	U	2.7
1	H1	261	U	2.7
1	H1	737	G	2.7
18	HU	175	LYS	2.7
34	EM	195	TYR	2.6
36	BO	163	ARG	2.6
2	HA	87	PRO	2.6
6	FF	124	LYS	2.6
15	HP	75	ILE	2.6
24	BC	342	GLU	2.6
34	GM	170	GLY	2.6
1	D1	2536	A	2.6
40	GS	110	LEU	2.6
37	EP	114	GLN	2.6
1	A1	3309	U	2.6
1	F1	3145	U	2.6
36	BO	149	LYS	2.6
39	GR	32	TYR	2.6
1	H1	1040	A	2.6
21	G3	22	A	2.6
1	H1	518	G	2.6
24	GC	217	GLY	2.6
16	HQ	19	GLU	2.6
20	E2	3	A	2.6
17	HT	43	ARG	2.6
34	GM	185	ARG	2.6
34	GM	277	PHE	2.6
1	H1	1422	U	2.6
14	HO	134	ASN	2.6
24	GC	401	GLN	2.6
34	GM	219	GLN	2.6
29	BH	113	SER	2.6
40	ES	43	ASN	2.6
19	FX	104	MET	2.6
1	A1	791	C	2.6
3	HB	2	GLY	2.6
5	HE	6	ALA	2.6
10	DK	129	GLU	2.6
1	A1	260	U	2.6

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Mol	Chain	Res	Type	RSRZ
46	CY	99	LEU	2.6
1	H1	792	G	2.6
17	AT	66	GLU	2.6
25	BD	90	GLU	2.6
34	EM	192	SER	2.6
1	H1	1793	A	2.6
1	H1	2536	A	2.6
23	GB	384	LYS	2.6
15	HP	71	THR	2.6
7	HG	53	LYS	2.6
18	HU	134	GLY	2.6
22	EA	254	LYS	2.6
23	EB	384	LYS	2.6
16	HQ	102	ARG	2.6
1	H1	2518	A	2.6
27	GF	47	TRP	2.6
1	F1	2436	U	2.6
5	HE	121	LYS	2.6
14	DO	53	GLY	2.6
1	F1	1043	C	2.6
1	F1	2899	C	2.6
1	H1	1095	C	2.6
1	D1	3145	U	2.6
1	F1	515	A	2.6
1	F1	1054	G	2.6
32	GK	119	PRO	2.6
34	EM	188	ASP	2.6
39	GR	42	THR	2.6
6	DF	121	THR	2.5
18	HU	139	THR	2.5
23	BB	383	THR	2.5
27	GF	31	VAL	2.5
1	H1	741	G	2.5
25	CD	48	SER	2.5
25	GD	26	SER	2.5
1	A1	171	A	2.5
1	A1	1254	C	2.5
1	H1	475	C	2.5
1	H1	1852	A	2.5
34	GM	127	GLY	2.5
42	GU	63	ASN	2.5
34	GM	16	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
1	H1	153	C	2.5
1	A1	1253	G	2.5
1	H1	800	G	2.5
5	HE	8	LYS	2.5
11	HL	71	ALA	2.5
22	GA	250	GLY	2.5
34	EM	274	HIS	2.5
1	H1	1101	U	2.5
23	CB	387	GLU	2.5
34	GM	189	GLU	2.5
26	EE	28	LYS	2.5
1	H1	486	C	2.5
1	H1	2760	C	2.5
30	GI	173	GLN	2.5
24	GC	346	LYS	2.5
1	F1	2255	U	2.5
11	DL	58	GLN	2.5
1	F1	3219	A	2.5
1	F1	3308	A	2.5
12	DM	111	ASN	2.5
27	GF	193	LEU	2.5
1	A1	2255	U	2.5
40	GS	109	LYS	2.5
4	HC	34	HIS	2.5
14	HO	91	ALA	2.5
40	CS	125	LEU	2.5
1	A1	1255	A	2.5
1	H1	2399	A	2.5
36	EO	146	LYS	2.5
1	H1	1840	U	2.5
17	HT	32	THR	2.5
15	HP	53	PHE	2.5
25	GD	132	GLU	2.5
1	F1	1595	A	2.5
1	H1	1	C	2.5
21	B3	119	C	2.5
36	BO	161	ALA	2.5
1	A1	2200	U	2.5
4	AC	16	ASN	2.5
10	AK	129	GLU	2.5
24	GC	14	GLU	2.5
35	GN	175	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
39	ER	42	THR	2.5
43	GV	6	PRO	2.5
25	BD	122	ILE	2.5
25	ED	5	LYS	2.5
38	EQ	158	LYS	2.5
46	CY	101	LYS	2.5
1	F1	1256	G	2.4
18	AU	203	GLU	2.4
18	HU	142	THR	2.4
27	BF	246	GLN	2.4
1	H1	1729	U	2.4
3	HB	35	ILE	2.4
1	D1	1257	G	2.4
1	F1	791	C	2.4
1	H1	2535	A	2.4
20	G2	1	A	2.4
20	G2	53	C	2.4
27	GF	21	LEU	2.4
27	BF	249	GLN	2.4
18	HU	144	SER	2.4
14	FO	55	LYS	2.4
42	GU	102	GLU	2.4
5	AE	6	ALA	2.4
27	BF	106	ALA	2.4
1	H1	2560	U	2.4
5	HE	19	TYR	2.4
1	A1	1062	A	2.4
25	GD	154	ILE	2.4
1	H1	1643	G	2.4
24	GC	193	ALA	2.4
29	BH	162	ARG	2.4
32	GK	94	GLU	2.4
34	BM	118	VAL	2.4
1	F1	2253	U	2.4
1	A1	2434	A	2.4
1	H1	405	A	2.4
6	AF	125	SER	2.4
15	DP	38	ARG	2.4
15	HP	31	VAL	2.4
29	GH	28	ASP	2.4
2	HA	68	MET	2.4
1	F1	1383	G	2.4

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Mol	Chain	Res	Type	RSRZ
1	H1	158	G	2.4
11	HL	58	GLN	2.4
20	G2	25	U	2.4
25	GD	153	MET	2.4
19	AX	10	LYS	2.4
25	GD	32	LYS	2.4
1	H1	154	U	2.4
34	GM	18	THR	2.4
27	CF	19	ASN	2.4
24	EC	410	GLU	2.4
1	A1	3194	G	2.4
15	DP	74	LYS	2.4
17	HT	48	LYS	2.4
4	FC	10	THR	2.4
1	D1	1122	A	2.4
1	H1	433	C	2.4
1	H1	872	A	2.4
3	HB	25	ASN	2.4
34	GM	272	ARG	2.4
1	F1	1044	G	2.4
34	BM	283	THR	2.4
34	GM	19	LYS	2.4
36	BO	160	GLU	2.3
40	GS	61	LYS	2.4
1	D1	1223	U	2.3
1	D1	3309	U	2.3
32	GK	20	GLY	2.3
13	HN	34	LYS	2.3
17	AT	60	GLU	2.3
32	GK	81	TRP	2.3
1	F1	1223	U	2.3
21	G3	120	U	2.3
22	GA	127	PHE	2.3
25	CD	4	LYS	2.3
5	HE	11	GLY	2.3
25	BD	32	LYS	2.3
1	H1	2738	G	2.3
1	H1	2534	A	2.3
1	A1	284	U	2.3
1	A1	3150	U	2.3
25	BD	31	THR	2.3
30	BI	195	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
46	EY	102	LYS	2.3
25	BD	104	PHE	2.3
5	DE	9	ASN	2.3
14	HO	58	ILE	2.3
24	GC	355	ARG	2.3
25	BD	11	GLU	2.3
5	AE	4	GLY	2.3
46	BY	99	LEU	2.3
1	A1	1109	A	2.3
1	A1	2433	A	2.3
1	F1	1040	A	2.3
1	F1	1122	A	2.3
1	H1	268	G	2.3
20	G2	42	G	2.3
1	H1	2249	U	2.3
1	H1	2776	C	2.3
11	HL	40	ASN	2.3
20	G2	24	C	2.3
27	CF	195	GLU	2.3
5	HE	14	LYS	2.3
35	GN	13	LYS	2.3
36	BO	164	ALA	2.3
11	HL	72	LYS	2.3
1	H1	511	U	2.3
18	FU	59	GLN	2.3
46	GY	98	ALA	2.3
16	HQ	36	LYS	2.3
34	GM	275	LYS	2.3
25	GD	7	ASN	2.3
25	GD	48	SER	2.3
3	HB	23	LEU	2.3
45	GX	9	LYS	2.3
18	HU	38	ARG	2.3
23	CB	384	LYS	2.3
15	DP	71	THR	2.3
1	H1	2503	U	2.3
20	E2	144	U	2.3
25	BD	15	ALA	2.3
1	H1	2519	A	2.3
42	GU	32	LEU	2.3
34	GM	82	GLU	2.3
34	EM	186	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
25	ED	59	ILE	2.3
6	FF	118	LEU	2.3
36	GO	152	SER	2.3
1	H1	1796	U	2.3
20	G2	23	U	2.3
39	CR	31	THR	2.3
1	H1	510	A	2.3
13	HN	37	LYS	2.3
16	HQ	63	LYS	2.3
34	GM	274	HIS	2.3
25	BD	159	CYS	2.3
9	FJ	91	ASN	2.3
1	A1	1049	U	2.3
1	A1	2761	U	2.3
1	H1	499	U	2.3
15	HP	57	ASP	2.3
25	ED	52	TYR	2.3
27	EF	249	GLN	2.3
1	H1	444	A	2.3
25	BD	169	GLY	2.3
25	ED	122	ILE	2.3
25	GD	4	LYS	2.3
1	F1	2155	C	2.3
36	BO	155	LEU	2.3
1	H1	762	G	2.2
1	H1	1648	G	2.2
24	BC	364	LYS	2.2
27	EF	113	ASP	2.2
1	F1	539	A	2.2
42	GU	101	ARG	2.2
1	A1	1095	C	2.2
1	D1	162	C	2.2
4	HC	68	LEU	2.2
5	AE	36	ALA	2.2
40	CS	124	SER	2.2
1	H1	474	G	2.2
43	EV	25	GLU	2.2
34	EM	190	GLY	2.2
40	ES	122	ALA	2.2
1	H1	1114	C	2.2
1	H1	1594	C	2.2
18	HU	193	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	H1	2777	U	2.2
14	FO	52	GLY	2.2
24	BC	393	GLN	2.2
24	GC	409	ASP	2.2
1	H1	2742	G	2.2
1	A1	2536	A	2.2
14	HO	89	ARG	2.2
32	GK	55	TYR	2.2
42	GU	11	ARG	2.2
1	H1	3309	U	2.2
15	DP	76	GLU	2.2
11	FL	108	ILE	2.2
42	GU	61	ILE	2.2
1	A1	1	C	2.2
1	H1	1093	C	2.2
18	AU	187	ASN	2.2
18	HU	188	GLN	2.2
27	CF	249	GLN	2.2
34	GM	186	ALA	2.2
24	EC	349	GLU	2.2
32	GK	149	ALA	2.2
1	H1	280	G	2.2
1	F1	1784	C	2.2
6	FF	122	SER	2.2
37	EP	126	VAL	2.2
14	HO	99	GLN	2.2
16	AQ	69	ASP	2.2
6	DF	122	SER	2.2
25	GD	67	VAL	2.2
20	G2	143	U	2.2
1	A1	1528	G	2.2
1	F1	1061	G	2.2
1	H1	299	G	2.2
13	DN	122	TYR	2.2
1	A1	1006	C	2.2
1	H1	1041	C	2.2
3	AB	25	ASN	2.2
6	FF	125	SER	2.2
15	DP	73	SER	2.2
15	FP	28	LYS	2.2
42	GU	9	LYS	2.2
42	GU	123	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
24	GC	226	ALA	2.2
25	ED	66	ALA	2.2
34	EM	272	ARG	2.2
5	HE	2	ALA	2.2
45	GX	61	SER	2.2
1	F1	2252	C	2.2
27	EF	116	GLN	2.2
12	FM	12	LYS	2.2
17	AT	44	ARG	2.2
36	GO	22	LEU	2.2
25	GD	59	ILE	2.2
1	H1	217	U	2.2
1	H1	1974	U	2.2
18	HU	141	ASP	2.2
36	BO	157	SER	2.2
1	A1	2399	A	2.2
1	A1	3149	A	2.2
1	H1	318	A	2.2
1	H1	539	A	2.2
7	FG	41	LEU	2.2
27	GF	117	VAL	2.2
1	A1	1047	G	2.2
1	A1	1759	C	2.2
1	D1	2533	C	2.2
1	H1	799	G	2.2
42	GU	108	THR	2.2
25	BD	123	PHE	2.2
1	H1	1728	A	2.1
12	AM	14	ASN	2.1
25	GD	49	ARG	2.1
1	D1	502	G	2.1
1	F1	481	C	2.1
18	HU	45	PHE	2.1
27	GF	116	GLN	2.1
30	GI	195	GLN	2.1
33	GL	146	PRO	2.1
15	AP	38	ARG	2.1
24	GC	354	LYS	2.1
31	EJ	5	ARG	2.1
34	EM	216	LEU	2.1
2	HA	79	PHE	2.1
15	AP	55	THR	2.1

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Mol	Chain	Res	Type	RSRZ
15	HP	42	PHE	2.1
1	D1	2534	A	2.1
35	EN	120	LYS	2.1
46	EY	2	ALA	2.1
17	AT	45	ARG	2.1
1	H1	141	C	2.1
1	H1	724	C	2.1
1	H1	1828	C	2.1
1	H1	2765	C	2.1
12	FM	17	PHE	2.1
21	B3	56	G	2.1
32	GK	86	ASP	2.1
42	GU	60	THR	2.1
34	GM	149	GLY	2.1
36	EO	51	MET	2.1
27	GF	22	PHE	2.1
1	F1	1055	A	2.1
1	F1	2519	A	2.1
1	H1	219	A	2.1
16	DQ	101	GLN	2.1
1	A1	781	C	2.1
1	H1	200	C	2.1
1	A1	2432	G	2.1
1	H1	403	G	2.1
37	GP	123	GLY	2.1
46	GY	96	ALA	2.1
1	F1	2251	A	2.1
1	H1	2959	A	2.1
1	F1	1042	U	2.1
1	H1	503	U	2.1
1	H1	3312	C	2.1
22	GA	258	LYS	2.1
27	GF	126	LYS	2.1
6	FF	58	PHE	2.1
2	HA	82	GLY	2.1
23	GB	385	LYS	2.1
24	GC	318	GLU	2.1
1	H1	1255	A	2.1
18	AU	202	ALA	2.1
1	A1	2431	U	2.1
34	BM	212	TYR	2.1
14	AO	134	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
25	GD	64	LYS	2.1
24	CC	345	LYS	2.1
34	BM	271	LYS	2.1
1	F1	1793	A	2.1
4	HC	103	ASN	2.1
5	AE	120	GLU	2.1
1	H1	207	U	2.1
1	A1	2215	C	2.1
1	F1	1251	C	2.1
25	CD	26	SER	2.1
35	BN	140	LEU	2.1
39	ER	149	LEU	2.1
1	A1	1003	G	2.1
1	D1	500	G	2.1
1	F1	2502	U	2.1
1	H1	1826	A	2.1
20	G2	96	A	2.1
12	DM	72	PRO	2.1
22	EA	248	ARG	2.1
27	BF	98	ALA	2.1
34	CM	271	LYS	2.1
34	GM	112	GLN	2.1
24	BC	349	GLU	2.1
27	GF	45	VAL	2.1
1	F1	3171	A	2.1
1	H1	383	A	2.1
1	H1	485	A	2.1
1	H1	1103	A	2.1
2	AA	86	ALA	2.1
2	HA	86	ALA	2.1
40	GS	47	MET	2.1
1	A1	1050	C	2.1
1	H1	99	C	2.1
1	H1	184	C	2.1
1	H1	2556	C	2.1
14	HO	90	VAL	2.1
34	GM	184	VAL	2.1
24	GC	26	PRO	2.1
39	GR	40	PRO	2.1
12	AM	71	ILE	2.1
34	BM	219	GLN	2.1
20	G2	22	A	2.0

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Mol	Chain	Res	Type	RSRZ
22	CA	250	GLY	2.1
1	A1	500	G	2.0
1	F1	3193	G	2.0
7	DG	99	ASP	2.0
37	GP	120	ASN	2.0
14	HO	96	GLY	2.0
39	GR	39	ARG	2.0
24	GC	349	GLU	2.0
25	BD	121	GLY	2.0
33	BL	15	GLN	2.0
1	A1	1804	G	2.0
1	D1	2532	G	2.0
1	H1	1119	G	2.0
24	GC	15	ALA	2.0
1	A1	1058	C	2.0
33	GL	137	PRO	2.0
40	ES	85	SER	2.0
29	GH	190	LEU	2.0
30	EI	186	LEU	2.0
1	H1	104	U	2.0
25	BD	107	GLN	2.0
27	EF	109	GLU	2.0
25	BD	51	ARG	2.0
1	A1	1052	A	2.0
29	BH	199	VAL	2.0
1	D1	521	C	2.0
1	H1	179	C	2.0
1	D1	3298	U	2.0
22	CA	252	LYS	2.0
34	EM	193	SER	2.0
37	GP	129	LYS	2.0
5	FE	133	GLU	2.0
15	FP	57	ASP	2.0
20	B2	3	A	2.0
25	GD	133	ARG	2.0
34	EM	85	ARG	2.0
35	GN	176	ARG	2.0
1	H1	232	C	2.0
1	H1	1649	G	2.0
22	CA	251	GLN	2.0
36	EO	7	GLN	2.0
11	FL	35	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
13	HN	55	LYS	2.0
39	GR	134	LEU	2.0
46	CY	102	LYS	2.0
5	AE	28	PHE	2.0
5	AE	123	ARG	2.0
5	HE	120	GLU	2.0
12	HM	46	GLY	2.0
35	GN	141	ARG	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
48	MG	F1	3566	1/1	0.68	1.27	45.32	146,146,146,146	0
48	MG	F1	3506	1/1	0.82	0.32	24.43	114,114,114,114	0
48	MG	G3	204	1/1	0.83	0.36	10.48	143,143,143,143	0
48	MG	D1	3516	1/1	0.80	0.36	10.12	82,82,82,82	0
48	MG	H1	3409	1/1	0.54	0.56	9.76	193,193,193,193	0
48	MG	A1	3579	1/1	0.76	0.52	8.98	94,94,94,94	0
48	MG	F1	3493	1/1	0.67	0.50	8.45	145,145,145,145	0
48	MG	D1	3481	1/1	0.90	0.40	8.44	114,114,114,114	0
48	MG	D1	3484	1/1	0.83	0.32	7.02	96,96,96,96	0
48	MG	A1	3412	1/1	0.84	0.33	6.68	117,117,117,117	0
48	MG	D1	3412	1/1	0.93	0.35	6.60	95,95,95,95	0
48	MG	D1	3511	1/1	0.90	0.24	5.60	118,118,118,118	0
48	MG	D1	3603	1/1	0.72	0.44	5.05	125,125,125,125	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	D1	3497	1/1	0.67	0.53	4.97	151,151,151,151	0
48	MG	F1	3538	1/1	0.87	0.36	4.39	113,113,113,113	0
48	MG	F1	3479	1/1	0.93	0.29	4.04	81,81,81,81	0
48	MG	D1	3607	1/1	0.84	0.29	3.97	89,89,89,89	0
48	MG	GO	201	1/1	0.84	0.44	3.78	141,141,141,141	0
48	MG	D1	3589	1/1	0.94	0.26	3.42	107,107,107,107	0
48	MG	F1	3483	1/1	0.79	0.32	3.26	129,129,129,129	0
48	MG	H1	3529	1/1	0.03	0.33	3.19	214,214,214,214	0
48	MG	A1	3500	1/1	0.89	0.30	3.10	89,89,89,89	0
48	MG	DJ	301	1/1	0.77	0.45	2.98	150,150,150,150	0
48	MG	D1	3517	1/1	0.92	0.30	2.87	127,127,127,127	0
48	MG	D1	3504	1/1	0.86	0.27	2.82	98,98,98,98	0
48	MG	H1	3519	1/1	0.21	0.31	2.62	151,151,151,151	0
48	MG	H1	3469	1/1	0.94	0.34	2.54	119,119,119,119	0
48	MG	G2	202	1/1	0.91	0.35	2.24	122,122,122,122	0
48	MG	H1	3408	1/1	0.75	0.30	1.94	111,111,111,111	0
48	MG	F1	3537	1/1	0.90	0.21	1.75	136,136,136,136	0
48	MG	A1	3490	1/1	0.92	0.21	1.70	105,105,105,105	0
48	MG	F1	3453	1/1	0.83	0.23	1.66	131,131,131,131	0
48	MG	F1	3482	1/1	0.83	0.21	1.63	130,130,130,130	0
48	MG	A1	3578	1/1	0.62	0.18	1.60	117,117,117,117	0
48	MG	F1	3551	1/1	0.93	0.24	1.47	91,91,91,91	0
48	MG	A1	3491	1/1	0.74	0.24	1.40	125,125,125,125	0
48	MG	A1	3496	1/1	0.91	0.24	1.20	137,137,137,137	0
48	MG	H1	3510	1/1	0.88	0.24	1.12	120,120,120,120	0
48	MG	A1	3487	1/1	0.95	0.23	1.12	121,121,121,121	0
48	MG	H1	3431	1/1	0.92	0.25	0.94	94,94,94,94	0
48	MG	D1	3471	1/1	0.99	0.20	0.71	40,40,40,40	0
48	MG	A1	3410	1/1	0.98	0.21	0.68	62,62,62,62	0
48	MG	D1	3610	1/1	0.92	0.22	0.61	66,66,66,66	0
48	MG	E3	205	1/1	0.76	0.17	0.46	127,127,127,127	0
48	MG	F1	3561	1/1	0.30	0.24	0.18	167,167,167,167	0
48	MG	HT	101	1/1	0.81	0.35	0.17	174,174,174,174	0
48	MG	A1	3501	1/1	0.92	0.22	0.08	102,102,102,102	0
48	MG	GQ	201	1/1	0.86	0.29	-0.05	102,102,102,102	0
48	MG	D1	3510	1/1	0.95	0.19	-0.11	81,81,81,81	0
48	MG	D1	3466	1/1	0.96	0.22	-0.29	132,132,132,132	0
48	MG	A1	3445	1/1	0.95	0.18	-0.31	88,88,88,88	0
48	MG	BJ	201	1/1	0.94	0.17	-0.58	66,66,66,66	0
48	MG	A1	3413	1/1	0.99	0.18	-0.74	136,136,136,136	0
48	MG	H1	3488	1/1	0.90	0.19	-0.76	108,108,108,108	0
48	MG	A1	3446	1/1	0.97	0.19	-0.81	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	F1	3492	1/1	0.87	0.20	-0.82	78,78,78,78	0
49	ZN	DL	201	1/1	0.98	0.17	-0.82	86,86,86,86	0
48	MG	A1	3488	1/1	0.93	0.17	-0.86	91,91,91,91	0
49	ZN	DA	103	1/1	0.99	0.14	-0.86	69,69,69,69	0
48	MG	A1	3549	1/1	0.93	0.13	-0.87	54,54,54,54	0
48	MG	F1	3445	1/1	0.96	0.16	-0.92	78,78,78,78	0
48	MG	D1	3505	1/1	0.88	0.16	-0.96	84,84,84,84	0
49	ZN	EY	201	1/1	0.98	0.10	-0.98	77,77,77,77	0
48	MG	C3	202	1/1	0.80	0.15	-1.03	135,135,135,135	0
49	ZN	HA	101	1/1	0.98	0.14	-1.07	112,112,112,112	0
48	MG	F1	3534	1/1	0.90	0.08	-1.13	79,79,79,79	0
49	ZN	AA	101	1/1	0.98	0.14	-1.16	64,64,64,64	0
48	MG	H1	3509	1/1	0.83	0.18	-1.17	143,143,143,143	0
48	MG	H1	3419	1/1	0.93	0.17	-1.19	62,62,62,62	0
48	MG	F1	3472	1/1	0.90	0.15	-1.20	111,111,111,111	0
48	MG	H1	3434	1/1	0.81	0.18	-1.25	93,93,93,93	0
48	MG	D1	3569	1/1	0.98	0.09	-1.26	48,48,48,48	0
48	MG	A1	3443	1/1	0.90	0.14	-1.26	90,90,90,90	0
49	ZN	DK	202	1/1	0.99	0.11	-1.35	68,68,68,68	0
48	MG	A1	3558	1/1	0.94	0.10	-1.35	91,91,91,91	0
48	MG	H1	3497	1/1	0.99	0.13	-1.36	50,50,50,50	0
48	MG	FT	101	1/1	0.79	0.11	-1.37	124,124,124,124	0
48	MG	D1	3581	1/1	0.92	0.08	-1.38	68,68,68,68	0
48	MG	A1	3524	1/1	0.98	0.12	-1.38	63,63,63,63	0
48	MG	D1	3587	1/1	0.97	0.14	-1.39	93,93,93,93	0
48	MG	F1	3501	1/1	0.81	0.16	-1.40	116,116,116,116	0
48	MG	H1	3507	1/1	0.95	0.07	-1.40	64,64,64,64	0
49	ZN	DC	201	1/1	0.98	0.07	-1.44	89,89,89,89	0
48	MG	H1	3476	1/1	0.95	0.08	-1.47	52,52,52,52	0
48	MG	H1	3486	1/1	0.80	0.15	-1.50	105,105,105,105	0
48	MG	D1	3496	1/1	0.89	0.16	-1.52	78,78,78,78	0
48	MG	F1	3514	1/1	0.95	0.13	-1.54	70,70,70,70	0
49	ZN	FA	103	1/1	0.99	0.12	-1.57	80,80,80,80	0
49	ZN	FK	202	1/1	0.99	0.12	-1.57	74,74,74,74	0
48	MG	A1	3564	1/1	0.93	0.07	-1.58	141,141,141,141	0
48	MG	EQ	201	1/1	0.96	0.18	-1.64	88,88,88,88	0
48	MG	A1	3497	1/1	0.87	0.12	-1.64	116,116,116,116	0
49	ZN	FL	201	1/1	0.96	0.09	-1.69	86,86,86,86	0
48	MG	F1	3513	1/1	0.90	0.17	-1.72	79,79,79,79	0
49	ZN	CY	202	1/1	0.99	0.08	-1.73	70,70,70,70	0
48	MG	C3	206	1/1	0.96	0.15	-1.73	120,120,120,120	0
48	MG	F1	3437	1/1	0.94	0.17	-1.76	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	CL	301	1/1	0.90	0.15	-1.77	109,109,109,109	0
48	MG	E2	203	1/1	0.94	0.07	-1.80	77,77,77,77	0
48	MG	F1	3476	1/1	0.96	0.16	-1.80	99,99,99,99	0
48	MG	D1	3573	1/1	0.91	0.14	-1.82	126,126,126,126	0
49	ZN	AK	201	1/1	0.98	0.10	-1.84	89,89,89,89	0
48	MG	F1	3427	1/1	0.97	0.16	-1.85	51,51,51,51	0
48	MG	CJ	201	1/1	0.96	0.14	-1.85	64,64,64,64	0
48	MG	A1	3452	1/1	0.97	0.11	-1.88	90,90,90,90	0
49	ZN	HC	201	1/1	0.90	0.04	-1.88	168,168,168,168	0
48	MG	D1	3546	1/1	0.97	0.10	-1.88	49,49,49,49	0
49	ZN	AL	201	1/1	0.99	0.09	-1.91	70,70,70,70	0
48	MG	D1	3544	1/1	0.96	0.09	-1.91	50,50,50,50	0
48	MG	A1	3411	1/1	0.95	0.17	-1.91	83,83,83,83	0
48	MG	A1	3553	1/1	0.84	0.16	-1.92	108,108,108,108	0
48	MG	A1	3421	1/1	0.98	0.06	-1.92	71,71,71,71	0
48	MG	B2	204	1/1	0.92	0.08	-1.92	85,85,85,85	0
48	MG	G3	201	1/1	0.88	0.12	-1.95	119,119,119,119	0
48	MG	EL	301	1/1	0.92	0.12	-1.95	119,119,119,119	0
48	MG	F1	3543	1/1	0.92	0.09	-2.01	71,71,71,71	0
48	MG	H1	3514	1/1	0.96	0.07	-2.02	66,66,66,66	0
48	MG	F1	3552	1/1	0.95	0.15	-2.03	139,139,139,139	0
49	ZN	GY	201	1/1	0.98	0.10	-2.04	116,116,116,116	0
48	MG	EJ	201	1/1	0.94	0.12	-2.04	69,69,69,69	0
48	MG	D1	3494	1/1	0.93	0.13	-2.04	78,78,78,78	0
48	MG	D1	3605	1/1	0.65	0.13	-2.09	108,108,108,108	0
48	MG	D1	3452	1/1	0.92	0.15	-2.11	106,106,106,106	0
48	MG	A1	3484	1/1	0.95	0.13	-2.12	108,108,108,108	0
48	MG	A1	3554	1/1	0.88	0.14	-2.14	76,76,76,76	0
49	ZN	BY	201	1/1	0.98	0.09	-2.17	59,59,59,59	0
48	MG	D1	3438	1/1	0.96	0.09	-2.18	39,39,39,39	0
48	MG	A1	3432	1/1	0.98	0.07	-2.18	45,45,45,45	0
49	ZN	FC	201	1/1	0.98	0.04	-2.21	108,108,108,108	0
48	MG	H1	3430	1/1	0.90	0.20	-2.23	82,82,82,82	0
48	MG	A1	3505	1/1	0.94	0.12	-2.23	137,137,137,137	0
48	MG	D1	3423	1/1	0.94	0.16	-2.25	67,67,67,67	0
48	MG	H1	3464	1/1	0.88	0.15	-2.25	108,108,108,108	0
48	MG	H1	3523	1/1	0.90	0.12	-2.32	167,167,167,167	0
48	MG	H1	3478	1/1	0.78	0.11	-2.32	114,114,114,114	0
48	MG	A1	3444	1/1	0.83	0.13	-2.39	126,126,126,126	0
48	MG	D1	3574	1/1	0.83	0.12	-2.46	80,80,80,80	0
48	MG	H1	3407	1/1	0.88	0.20	-2.48	105,105,105,105	0
49	ZN	HL	201	1/1	0.98	0.08	-2.48	118,118,118,118	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	A1	3600	1/1	0.90	0.11	-2.50	111,111,111,111	0
48	MG	D1	3503	1/1	0.97	0.15	-2.53	82,82,82,82	0
48	MG	D1	3535	1/1	0.90	0.17	-2.53	86,86,86,86	0
48	MG	H1	3403	1/1	0.92	0.14	-2.58	111,111,111,111	0
48	MG	A1	3447	1/1	0.91	0.13	-2.61	58,58,58,58	0
48	MG	BQ	202	1/1	0.97	0.07	-2.73	53,53,53,53	0
48	MG	D1	3457	1/1	0.95	0.12	-2.76	34,34,34,34	0
48	MG	F1	3438	1/1	0.99	0.14	-2.80	58,58,58,58	0
48	MG	H1	3448	1/1	0.82	0.15	-2.81	98,98,98,98	0
48	MG	H1	3463	1/1	0.95	0.11	-2.85	78,78,78,78	0
48	MG	H1	3455	1/1	0.91	0.14	-2.92	113,113,113,113	0
48	MG	A1	3483	1/1	0.72	0.14	-2.95	83,83,83,83	0
48	MG	D1	3486	1/1	0.97	0.13	-2.97	47,47,47,47	0
48	MG	D1	3456	1/1	0.97	0.11	-3.00	70,70,70,70	0
48	MG	D1	3469	1/1	0.98	0.10	-3.01	64,64,64,64	0
48	MG	H1	3470	1/1	0.63	0.16	-3.04	140,140,140,140	0
48	MG	D1	3554	1/1	0.99	0.12	-3.04	59,59,59,59	0
48	MG	H1	3439	1/1	0.97	0.13	-3.08	75,75,75,75	0
48	MG	A1	3477	1/1	0.95	0.13	-3.09	62,62,62,62	0
49	ZN	AC	201	1/1	0.96	0.08	-3.13	143,143,143,143	0
48	MG	F1	3499	1/1	0.98	0.04	-3.15	57,57,57,57	0
48	MG	F1	3452	1/1	0.95	0.10	-3.15	50,50,50,50	0
48	MG	F1	3480	1/1	0.94	0.12	-3.16	59,59,59,59	0
48	MG	D1	3464	1/1	0.97	0.08	-3.16	44,44,44,44	0
48	MG	D1	3560	1/1	0.97	0.11	-3.20	64,64,64,64	0
48	MG	F1	3454	1/1	0.98	0.15	-3.26	56,56,56,56	0
48	MG	A1	3460	1/1	0.99	0.13	-3.27	61,61,61,61	0
48	MG	F1	3410	1/1	0.94	0.17	-3.28	42,42,42,42	0
48	MG	CQ	202	1/1	0.97	0.06	-3.35	62,62,62,62	0
48	MG	A1	3456	1/1	0.97	0.12	-3.38	49,49,49,49	0
49	ZN	HK	201	1/1	0.99	0.11	-3.42	70,70,70,70	0
48	MG	GJ	201	1/1	0.95	0.13	-3.52	69,69,69,69	0
48	MG	H1	3437	1/1	0.97	0.11	-3.53	93,93,93,93	0
48	MG	D1	3473	1/1	0.96	0.11	-3.58	63,63,63,63	0
48	MG	H1	3451	1/1	0.93	0.12	-3.58	78,78,78,78	0
48	MG	A1	3537	1/1	0.96	0.12	-3.59	54,54,54,54	0
48	MG	H1	3444	1/1	0.97	0.06	-3.59	65,65,65,65	0
48	MG	D1	3545	1/1	0.91	0.15	-3.62	88,88,88,88	0
48	MG	D1	3403	1/1	0.92	0.08	-3.67	89,89,89,89	0
48	MG	H1	3445	1/1	0.96	0.14	-3.68	68,68,68,68	0
48	MG	F1	3481	1/1	0.95	0.13	-3.69	45,45,45,45	0
48	MG	A1	3442	1/1	0.96	0.10	-3.69	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	F1	3584	1/1	0.95	0.16	-3.75	97,97,97,97	0
48	MG	A1	3489	1/1	0.99	0.07	-3.81	33,33,33,33	0
48	MG	A1	3526	1/1	0.97	0.10	-3.82	48,48,48,48	0
48	MG	D1	3455	1/1	0.94	0.09	-3.85	80,80,80,80	0
48	MG	H1	3461	1/1	0.93	0.15	-3.86	134,134,134,134	0
48	MG	F1	3409	1/1	0.96	0.16	-3.90	60,60,60,60	0
48	MG	H1	3427	1/1	0.94	0.14	-3.99	83,83,83,83	0
48	MG	H1	3454	1/1	0.94	0.12	-3.99	111,111,111,111	0
48	MG	D1	3453	1/1	0.97	0.11	-4.00	54,54,54,54	0
48	MG	H1	3428	1/1	0.94	0.12	-4.02	77,77,77,77	0
48	MG	F1	3460	1/1	0.98	0.14	-4.02	36,36,36,36	0
48	MG	C2	203	1/1	0.97	0.06	-4.10	63,63,63,63	0
48	MG	F1	3450	1/1	0.98	0.09	-4.12	59,59,59,59	0
48	MG	D1	3501	1/1	0.97	0.13	-4.34	51,51,51,51	0
48	MG	F1	3459	1/1	0.97	0.07	-4.44	79,79,79,79	0
48	MG	D1	3410	1/1	0.99	0.12	-4.46	39,39,39,39	0
48	MG	A1	3463	1/1	0.96	0.10	-4.72	59,59,59,59	0
48	MG	F1	3439	1/1	0.90	0.09	-4.83	62,62,62,62	0
48	MG	F1	3402	1/1	0.92	0.09	-4.87	83,83,83,83	0
48	MG	F1	3404	1/1	0.97	0.11	-5.16	75,75,75,75	0
48	MG	D1	3454	1/1	0.93	0.14	-5.19	64,64,64,64	0
48	MG	D1	3411	1/1	0.98	0.11	-5.39	44,44,44,44	0
48	MG	A1	3458	1/1	0.97	0.10	-5.39	59,59,59,59	0
48	MG	D1	3558	1/1	0.94	0.07	-5.55	56,56,56,56	0
48	MG	F1	3436	1/1	0.93	0.10	-6.06	70,70,70,70	0
48	MG	A1	3465	1/1	0.96	0.08	-6.21	54,54,54,54	0
48	MG	D1	3405	1/1	0.98	0.10	-6.21	59,59,59,59	0
48	MG	H1	3440	1/1	0.94	0.08	-6.43	73,73,73,73	0
48	MG	A1	3405	1/1	0.94	0.08	-6.62	65,65,65,65	0
48	MG	A1	3534	1/1	0.99	0.13	-6.91	62,62,62,62	0
48	MG	A1	3473	1/1	0.99	0.08	-7.28	55,55,55,55	0
48	MG	D1	3480	1/1	0.98	0.09	-8.02	32,32,32,32	0
48	MG	D1	3502	1/1	0.99	0.07	-8.15	38,38,38,38	0
48	MG	F1	3523	1/1	0.98	0.09	-8.49	55,55,55,55	0
48	MG	F1	3467	1/1	0.99	0.10	-8.90	57,57,57,57	0
48	MG	D1	3472	1/1	0.90	0.10	-9.60	82,82,82,82	0
48	MG	D1	3428	1/1	0.98	0.06	-10.16	106,106,106,106	0
48	MG	D1	3458	1/1	0.93	0.06	-10.27	51,51,51,51	0
48	MG	F1	3435	1/1	0.99	0.11	-10.56	44,44,44,44	0
48	MG	D1	3479	1/1	0.97	0.04	-10.75	50,50,50,50	0
48	MG	A1	3466	1/1	0.97	0.12	-10.97	40,40,40,40	0
48	MG	H1	3429	1/1	0.91	0.14	-13.56	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	H1	3528	1/1	0.83	0.22	-	119,119,119,119	0
48	MG	A1	3494	1/1	0.94	0.07	-	98,98,98,98	0
48	MG	BQ	201	1/1	0.66	0.21	-	122,122,122,122	0
48	MG	FA	102	1/1	0.93	0.10	-	84,84,84,84	0
48	MG	F1	3579	1/1	0.90	0.12	-	166,166,166,166	0
48	MG	F1	3431	1/1	0.89	0.17	-	103,103,103,103	0
48	MG	F1	3475	1/1	0.90	0.16	-	93,93,93,93	0
48	MG	H1	3543	1/1	0.52	0.46	-	183,183,183,183	0
48	MG	A1	3572	1/1	0.91	0.23	-	121,121,121,121	0
48	MG	F1	3416	1/1	0.95	0.45	-	116,116,116,116	0
48	MG	EN	201	1/1	0.67	0.17	-	111,111,111,111	0
48	MG	D1	3433	1/1	0.83	0.14	-	149,149,149,149	0
48	MG	H1	3467	1/1	0.92	0.11	-	95,95,95,95	0
48	MG	AA	102	1/1	0.94	0.08	-	98,98,98,98	0
48	MG	A1	3529	1/1	0.90	0.11	-	96,96,96,96	0
48	MG	H1	3496	1/1	0.89	0.44	-	141,141,141,141	0
48	MG	H1	3456	1/1	0.91	0.76	-	145,145,145,145	0
48	MG	F1	3553	1/1	0.90	0.09	-	68,68,68,68	0
48	MG	A1	3408	1/1	0.76	0.27	-	122,122,122,122	0
48	MG	F1	3516	1/1	0.88	0.29	-	121,121,121,121	0
48	MG	F1	3408	1/1	0.86	0.14	-	82,82,82,82	0
48	MG	A1	3470	1/1	0.89	0.32	-	164,164,164,164	0
48	MG	F1	3464	1/1	0.84	0.23	-	120,120,120,120	0
48	MG	H1	3474	1/1	0.92	0.09	-	123,123,123,123	0
48	MG	F1	3415	1/1	0.35	0.32	-	118,118,118,118	0
48	MG	A1	3423	1/1	0.89	0.21	-	115,115,115,115	0
48	MG	F1	3417	1/1	0.94	0.17	-	110,110,110,110	0
48	MG	H1	3487	1/1	0.85	0.19	-	122,122,122,122	0
48	MG	F1	3522	1/1	0.58	0.18	-	111,111,111,111	0
48	MG	H1	3492	1/1	0.78	0.13	-	96,96,96,96	0
48	MG	GN	201	1/1	0.66	0.51	-	212,212,212,212	0
48	MG	A1	3520	1/1	0.95	0.16	-	70,70,70,70	0
48	MG	H1	3503	1/1	0.81	0.26	-	91,91,91,91	0
48	MG	A1	3424	1/1	0.88	0.37	-	150,150,150,150	0
48	MG	D1	3621	1/1	0.87	0.15	-	110,110,110,110	0
48	MG	A1	3580	1/1	0.68	0.21	-	130,130,130,130	0
48	MG	GL	301	1/1	0.95	0.11	-	113,113,113,113	0
48	MG	F1	3502	1/1	0.89	0.26	-	108,108,108,108	0
48	MG	H1	3471	1/1	0.94	0.22	-	124,124,124,124	0
48	MG	G2	203	1/1	0.96	0.10	-	112,112,112,112	0
48	MG	F1	3526	1/1	0.96	0.14	-	72,72,72,72	0
48	MG	A1	3535	1/1	0.95	0.09	-	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	F1	3536	1/1	0.94	0.20	-	67,67,67,67	0
48	MG	F1	3508	1/1	0.96	0.24	-	127,127,127,127	0
48	MG	D1	3406	1/1	0.91	0.14	-	67,67,67,67	0
48	MG	D1	3562	1/1	0.92	0.22	-	93,93,93,93	0
48	MG	A1	3568	1/1	0.34	0.36	-	173,173,173,173	0
48	MG	H1	3542	1/1	0.69	0.37	-	137,137,137,137	0
48	MG	F1	3510	1/1	0.97	0.10	-	95,95,95,95	0
48	MG	F1	3447	1/1	0.82	0.30	-	156,156,156,156	0
48	MG	F1	3573	1/1	0.83	0.08	-	84,84,84,84	0
48	MG	D1	3575	1/1	0.87	0.13	-	124,124,124,124	0
48	MG	F1	3474	1/1	0.97	0.13	-	64,64,64,64	0
48	MG	F1	3446	1/1	0.89	0.20	-	130,130,130,130	0
48	MG	A1	3420	1/1	0.75	0.30	-	155,155,155,155	0
48	MG	CL	302	1/1	0.97	0.10	-	68,68,68,68	0
48	MG	A1	3592	1/1	0.68	0.30	-	134,134,134,134	0
48	MG	D1	3592	1/1	0.63	0.97	-	159,159,159,159	0
48	MG	A1	3481	1/1	0.94	0.16	-	88,88,88,88	0
48	MG	D1	3420	1/1	0.97	0.08	-	105,105,105,105	0
48	MG	C2	205	1/1	0.84	0.18	-	127,127,127,127	0
48	MG	E2	201	1/1	0.83	0.34	-	156,156,156,156	0
48	MG	B2	206	1/1	0.88	0.45	-	139,139,139,139	0
48	MG	H1	3401	1/1	0.65	0.12	-	146,146,146,146	0
48	MG	D1	3584	1/1	0.94	0.13	-	101,101,101,101	0
48	MG	D1	3518	1/1	0.96	0.21	-	92,92,92,92	0
48	MG	D1	3523	1/1	0.89	0.11	-	105,105,105,105	0
48	MG	H1	3499	1/1	0.89	0.11	-	75,75,75,75	0
48	MG	D1	3555	1/1	0.95	0.39	-	119,119,119,119	0
48	MG	H1	3449	1/1	0.89	0.62	-	118,118,118,118	0
48	MG	A1	3545	1/1	0.95	0.30	-	71,71,71,71	0
48	MG	F1	3458	1/1	0.93	0.09	-	95,95,95,95	0
48	MG	F1	3582	1/1	0.95	0.20	-	77,77,77,77	0
48	MG	D1	3414	1/1	0.93	0.15	-	96,96,96,96	0
48	MG	A1	3571	1/1	0.85	0.24	-	100,100,100,100	0
48	MG	D1	3527	1/1	0.93	0.28	-	106,106,106,106	0
48	MG	G2	205	1/1	0.64	0.18	-	146,146,146,146	0
48	MG	D1	3602	1/1	0.88	0.19	-	118,118,118,118	0
48	MG	F1	3565	1/1	0.80	0.86	-	168,168,168,168	0
48	MG	F1	3540	1/1	0.53	0.21	-	111,111,111,111	0
48	MG	D1	3594	1/1	0.82	0.23	-	106,106,106,106	0
48	MG	H1	3450	1/1	0.53	0.73	-	156,156,156,156	0
48	MG	D1	3631	1/1	0.85	0.08	-	78,78,78,78	0
48	MG	F1	3546	1/1	0.98	0.07	-	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	A1	3541	1/1	0.93	0.35	-	86,86,86,86	0
48	MG	D1	3426	1/1	0.85	0.38	-	143,143,143,143	0
48	MG	D1	3461	1/1	0.96	0.10	-	86,86,86,86	0
48	MG	A1	3561	1/1	0.98	0.14	-	60,60,60,60	0
48	MG	H1	3446	1/1	0.77	0.34	-	120,120,120,120	0
48	MG	A1	3504	1/1	0.94	0.49	-	138,138,138,138	0
48	MG	D1	3522	1/1	0.86	0.64	-	162,162,162,162	0
48	MG	F1	3559	1/1	0.89	0.10	-	133,133,133,133	0
48	MG	A1	3406	1/1	0.95	0.10	-	75,75,75,75	0
48	MG	A1	3453	1/1	0.83	0.72	-	184,184,184,184	0
48	MG	F1	3557	1/1	0.94	0.15	-	84,84,84,84	0
48	MG	GA	301	1/1	0.75	0.24	-	142,142,142,142	0
48	MG	AK	202	1/1	0.92	0.72	-	179,179,179,179	0
48	MG	D1	3608	1/1	0.53	0.23	-	115,115,115,115	0
48	MG	D1	3431	1/1	0.94	0.19	-	95,95,95,95	0
48	MG	A1	3499	1/1	0.82	0.16	-	117,117,117,117	0
48	MG	D1	3415	1/1	0.95	0.11	-	117,117,117,117	0
48	MG	GW	201	1/1	0.91	0.22	-	114,114,114,114	0
48	MG	F1	3463	1/1	0.86	0.19	-	100,100,100,100	0
48	MG	A1	3543	1/1	0.98	0.08	-	96,96,96,96	0
48	MG	H1	3426	1/1	0.85	0.15	-	105,105,105,105	0
48	MG	H1	3410	1/1	0.73	0.44	-	192,192,192,192	0
48	MG	D1	3564	1/1	0.94	0.21	-	92,92,92,92	0
48	MG	H1	3538	1/1	0.59	0.28	-	140,140,140,140	0
48	MG	D1	3616	1/1	0.62	0.20	-	150,150,150,150	0
48	MG	H1	3511	1/1	0.66	0.27	-	140,140,140,140	0
48	MG	D1	3507	1/1	0.91	0.10	-	75,75,75,75	0
48	MG	H1	3505	1/1	0.92	0.11	-	95,95,95,95	0
48	MG	F1	3484	1/1	0.89	0.17	-	78,78,78,78	0
48	MG	F1	3517	1/1	0.92	0.11	-	62,62,62,62	0
48	MG	F1	3574	1/1	0.71	0.70	-	161,161,161,161	0
48	MG	H1	3412	1/1	0.59	0.89	-	173,173,173,173	0
48	MG	F1	3412	1/1	0.95	0.11	-	60,60,60,60	0
48	MG	F1	3520	1/1	0.91	0.19	-	85,85,85,85	0
48	MG	A1	3409	1/1	0.84	0.14	-	87,87,87,87	0
48	MG	H1	3489	1/1	0.10	0.45	-	206,206,206,206	0
48	MG	A1	3540	1/1	0.97	0.15	-	66,66,66,66	0
48	MG	F1	3442	1/1	0.92	0.27	-	109,109,109,109	0
48	MG	D1	3538	1/1	0.90	0.10	-	119,119,119,119	0
48	MG	BP	200	1/1	0.88	0.10	-	123,123,123,123	0
48	MG	A1	3563	1/1	0.89	0.13	-	100,100,100,100	0
48	MG	F1	3432	1/1	0.97	0.08	-	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
48	MG	B3	201	1/1	0.59	0.28	-	129,129,129,129	0
48	MG	A1	3512	1/1	0.88	0.10	-	90,90,90,90	0
48	MG	D1	3492	1/1	0.94	0.34	-	125,125,125,125	0
48	MG	F1	3485	1/1	0.88	0.16	-	117,117,117,117	0
48	MG	D1	3536	1/1	0.97	0.10	-	73,73,73,73	0
48	MG	A1	3449	1/1	0.75	0.23	-	115,115,115,115	0
48	MG	D1	3463	1/1	-0.16	1.03	-	176,176,176,176	0
48	MG	H1	3443	1/1	0.82	0.42	-	157,157,157,157	0
48	MG	EW	202	1/1	0.75	0.21	-	121,121,121,121	0
48	MG	D1	3601	1/1	0.94	0.22	-	124,124,124,124	0
48	MG	D1	3531	1/1	0.93	0.08	-	87,87,87,87	0
48	MG	A1	3434	1/1	0.95	0.16	-	74,74,74,74	0
48	MG	D1	3488	1/1	0.95	0.18	-	97,97,97,97	0
48	MG	A1	3575	1/1	0.90	0.62	-	143,143,143,143	0
48	MG	F1	3515	1/1	0.39	0.41	-	143,143,143,143	0
48	MG	AA	103	1/1	0.94	0.08	-	56,56,56,56	0
48	MG	D1	3498	1/1	0.88	0.47	-	99,99,99,99	0
48	MG	H1	3477	1/1	0.68	0.30	-	103,103,103,103	0
48	MG	D1	3440	1/1	0.89	0.12	-	99,99,99,99	0
48	MG	D1	3597	1/1	0.69	0.83	-	158,158,158,158	0
48	MG	D1	3534	1/1	0.85	0.20	-	98,98,98,98	0
48	MG	D1	3528	1/1	0.39	0.26	-	123,123,123,123	0
48	MG	D1	3459	1/1	0.96	0.07	-	63,63,63,63	0
48	MG	F1	3539	1/1	0.46	1.12	-	187,187,187,187	0
48	MG	C3	205	1/1	0.76	1.45	-	175,175,175,175	0
48	MG	A1	3498	1/1	0.91	0.11	-	116,116,116,116	0
48	MG	F1	3519	1/1	0.77	0.16	-	65,65,65,65	0
48	MG	H1	3548	1/1	0.40	0.38	-	188,188,188,188	0
48	MG	D1	3475	1/1	0.87	0.51	-	120,120,120,120	0
48	MG	H1	3541	1/1	0.46	0.35	-	154,154,154,154	0
48	MG	H1	3555	1/1	0.89	0.15	-	123,123,123,123	0
48	MG	F1	3576	1/1	0.77	0.45	-	142,142,142,142	0
48	MG	F1	3449	1/1	0.97	0.11	-	90,90,90,90	0
48	MG	F1	3581	1/1	0.90	0.38	-	144,144,144,144	0
48	MG	D1	3430	1/1	0.98	0.08	-	59,59,59,59	0
48	MG	F1	3569	1/1	0.86	0.40	-	130,130,130,130	0
48	MG	H1	3432	1/1	0.91	0.09	-	91,91,91,91	0
48	MG	A1	3503	1/1	0.77	0.16	-	95,95,95,95	0
48	MG	F1	3542	1/1	0.86	0.13	-	107,107,107,107	0
48	MG	D1	3495	1/1	0.96	0.07	-	88,88,88,88	0
48	MG	F1	3505	1/1	0.98	0.09	-	83,83,83,83	0
48	MG	A1	3469	1/1	0.94	0.17	-	113,113,113,113	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	H1	3524	1/1	0.74	0.57	-	139,139,139,139	0
48	MG	D1	3588	1/1	0.77	0.18	-	156,156,156,156	0
48	MG	C2	206	1/1	0.81	0.31	-	123,123,123,123	0
48	MG	H1	3525	1/1	0.42	0.39	-	157,157,157,157	0
48	MG	D1	3404	1/1	0.96	0.11	-	55,55,55,55	0
48	MG	H1	3411	1/1	0.82	0.32	-	120,120,120,120	0
48	MG	F1	3558	1/1	0.84	0.17	-	144,144,144,144	0
48	MG	D1	3450	1/1	0.95	0.07	-	49,49,49,49	0
48	MG	D1	3460	1/1	0.96	0.09	-	85,85,85,85	0
48	MG	A1	3577	1/1	0.77	0.15	-	104,104,104,104	0
48	MG	A1	3415	1/1	0.88	0.20	-	120,120,120,120	0
48	MG	A1	3570	1/1	0.93	0.08	-	70,70,70,70	0
48	MG	D1	3487	1/1	0.93	0.09	-	65,65,65,65	0
48	MG	H1	3465	1/1	0.84	0.42	-	143,143,143,143	0
48	MG	F1	3470	1/1	0.92	0.09	-	49,49,49,49	0
48	MG	D1	3557	1/1	0.82	0.13	-	116,116,116,116	0
48	MG	D1	3524	1/1	0.95	0.06	-	69,69,69,69	0
48	MG	D1	3566	1/1	0.95	0.14	-	80,80,80,80	0
48	MG	CY	201	1/1	0.92	0.20	-	99,99,99,99	0
48	MG	A1	3510	1/1	0.90	0.21	-	109,109,109,109	0
48	MG	D1	3628	1/1	0.90	0.07	-	107,107,107,107	0
48	MG	A1	3528	1/1	0.85	0.37	-	120,120,120,120	0
48	MG	D1	3499	1/1	0.85	0.14	-	118,118,118,118	0
48	MG	F1	3555	1/1	0.70	0.27	-	168,168,168,168	0
48	MG	A1	3457	1/1	0.97	0.35	-	94,94,94,94	0
48	MG	H1	3404	1/1	0.89	0.11	-	132,132,132,132	0
48	MG	D1	3416	1/1	0.91	0.24	-	110,110,110,110	0
48	MG	D1	3409	1/1	0.91	0.13	-	57,57,57,57	0
48	MG	EW	201	1/1	-0.02	0.33	-	172,172,172,172	0
48	MG	E3	204	1/1	0.36	1.60	-	199,199,199,199	0
48	MG	F1	3504	1/1	0.95	0.13	-	84,84,84,84	0
48	MG	D1	3580	1/1	0.85	0.11	-	95,95,95,95	0
48	MG	A1	3599	1/1	0.93	0.12	-	103,103,103,103	0
48	MG	H1	3516	1/1	0.66	0.28	-	129,129,129,129	0
48	MG	B3	202	1/1	0.80	0.15	-	113,113,113,113	0
48	MG	D1	3425	1/1	0.83	0.59	-	123,123,123,123	0
48	MG	A1	3517	1/1	0.97	0.08	-	74,74,74,74	0
48	MG	A1	3521	1/1	0.92	0.12	-	105,105,105,105	0
48	MG	A1	3492	1/1	0.89	0.28	-	127,127,127,127	0
48	MG	F1	3568	1/1	0.91	0.13	-	98,98,98,98	0
48	MG	G3	202	1/1	0.20	0.61	-	136,136,136,136	0
48	MG	D1	3493	1/1	0.96	0.33	-	128,128,128,128	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	G3	203	1/1	0.92	0.13	-	86,86,86,86	0
48	MG	A1	3515	1/1	0.66	0.25	-	111,111,111,111	0
48	MG	H1	3485	1/1	0.88	0.12	-	104,104,104,104	0
48	MG	A1	3594	1/1	0.85	0.28	-	150,150,150,150	0
48	MG	A1	3495	1/1	0.97	0.06	-	70,70,70,70	0
48	MG	H1	3468	1/1	0.89	0.23	-	121,121,121,121	0
48	MG	H1	3453	1/1	0.96	0.11	-	66,66,66,66	0
48	MG	H1	3544	1/1	0.44	0.98	-	146,146,146,146	0
48	MG	D1	3513	1/1	0.85	0.16	-	89,89,89,89	0
48	MG	F1	3503	1/1	0.78	0.17	-	129,129,129,129	0
48	MG	H1	3502	1/1	0.96	0.07	-	82,82,82,82	0
48	MG	D1	3561	1/1	0.86	0.19	-	57,57,57,57	0
48	MG	F1	3548	1/1	0.81	0.12	-	106,106,106,106	0
48	MG	H1	3554	1/1	0.62	0.68	-	128,128,128,128	0
48	MG	A1	3448	1/1	0.94	0.14	-	78,78,78,78	0
48	MG	A1	3557	1/1	0.96	0.20	-	104,104,104,104	0
48	MG	H1	3422	1/1	0.83	0.45	-	151,151,151,151	0
48	MG	D1	3618	1/1	0.87	0.09	-	95,95,95,95	0
48	MG	H1	3405	1/1	0.93	0.25	-	101,101,101,101	0
48	MG	D1	3448	1/1	0.79	0.22	-	125,125,125,125	0
48	MG	A1	3480	1/1	0.95	0.32	-	120,120,120,120	0
48	MG	BN	201	1/1	0.84	0.22	-	147,147,147,147	0
48	MG	A1	3531	1/1	0.87	0.28	-	128,128,128,128	0
48	MG	F1	3424	1/1	0.84	0.31	-	114,114,114,114	0
48	MG	FK	201	1/1	0.91	0.50	-	168,168,168,168	0
48	MG	F1	3495	1/1	0.86	0.12	-	83,83,83,83	0
48	MG	F1	3507	1/1	0.94	0.17	-	87,87,87,87	0
48	MG	D1	3476	1/1	0.91	0.08	-	43,43,43,43	0
48	MG	F1	3440	1/1	0.90	0.11	-	82,82,82,82	0
48	MG	H1	3539	1/1	0.76	0.34	-	128,128,128,128	0
48	MG	H1	3540	1/1	0.63	0.20	-	136,136,136,136	0
48	MG	B2	208	1/1	0.84	0.42	-	138,138,138,138	0
48	MG	D1	3596	1/1	0.73	0.66	-	165,165,165,165	0
48	MG	D1	3627	1/1	0.81	0.08	-	119,119,119,119	0
48	MG	D1	3413	1/1	0.94	0.09	-	51,51,51,51	0
48	MG	F1	3406	1/1	0.93	0.08	-	83,83,83,83	0
48	MG	D1	3586	1/1	0.80	0.16	-	109,109,109,109	0
48	MG	A1	3417	1/1	0.66	0.28	-	150,150,150,150	0
48	MG	A1	3476	1/1	0.98	0.06	-	59,59,59,59	0
48	MG	A1	3576	1/1	0.76	0.40	-	122,122,122,122	0
48	MG	D1	3490	1/1	0.97	0.16	-	92,92,92,92	0
48	MG	A1	3478	1/1	0.95	0.08	-	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	H1	3459	1/1	0.87	0.10	-	97,97,97,97	0
48	MG	D1	3568	1/1	0.91	0.17	-	105,105,105,105	0
48	MG	A1	3582	1/1	0.75	0.19	-	110,110,110,110	0
48	MG	F1	3497	1/1	0.91	0.12	-	93,93,93,93	0
48	MG	BW	201	1/1	0.97	0.09	-	67,67,67,67	0
48	MG	D1	3604	1/1	0.81	0.44	-	141,141,141,141	0
48	MG	A1	3523	1/1	0.96	0.12	-	91,91,91,91	0
48	MG	D1	3489	1/1	0.98	0.07	-	44,44,44,44	0
48	MG	A1	3428	1/1	0.53	0.60	-	159,159,159,159	0
48	MG	B2	201	1/1	0.73	0.20	-	119,119,119,119	0
48	MG	H1	3547	1/1	0.44	0.32	-	175,175,175,175	0
48	MG	FA	101	1/1	0.91	0.11	-	97,97,97,97	0
48	MG	F1	3423	1/1	0.87	0.08	-	56,56,56,56	0
48	MG	D1	3441	1/1	0.91	0.15	-	75,75,75,75	0
48	MG	D1	3446	1/1	0.66	0.83	-	176,176,176,176	0
48	MG	A1	3595	1/1	0.73	1.09	-	151,151,151,151	0
48	MG	F1	3478	1/1	0.94	0.12	-	73,73,73,73	0
48	MG	A1	3555	1/1	0.79	0.58	-	128,128,128,128	0
48	MG	A1	3436	1/1	0.66	0.23	-	110,110,110,110	0
48	MG	F1	3511	1/1	0.77	0.71	-	154,154,154,154	0
48	MG	H1	3537	1/1	0.76	0.18	-	152,152,152,152	0
48	MG	D1	3419	1/1	0.95	0.10	-	92,92,92,92	0
48	MG	F1	3403	1/1	0.85	0.11	-	96,96,96,96	0
48	MG	H1	3458	1/1	0.98	0.06	-	90,90,90,90	0
48	MG	F1	3554	1/1	0.76	0.18	-	131,131,131,131	0
48	MG	A1	3461	1/1	0.82	0.14	-	67,67,67,67	0
48	MG	A1	3433	1/1	0.79	0.10	-	84,84,84,84	0
48	MG	A1	3513	1/1	0.84	0.33	-	133,133,133,133	0
48	MG	D1	3462	1/1	0.97	0.19	-	116,116,116,116	0
48	MG	D1	3515	1/1	0.86	0.15	-	106,106,106,106	0
48	MG	H1	3522	1/1	0.93	0.16	-	107,107,107,107	0
48	MG	H1	3500	1/1	0.95	0.17	-	82,82,82,82	0
48	MG	C3	207	1/1	0.69	0.62	-	160,160,160,160	0
48	MG	F1	3444	1/1	0.92	0.42	-	155,155,155,155	0
48	MG	F1	3457	1/1	0.90	0.27	-	91,91,91,91	0
48	MG	F1	3580	1/1	0.75	0.21	-	147,147,147,147	0
48	MG	F1	3545	1/1	0.85	0.21	-	137,137,137,137	0
48	MG	A1	3514	1/1	0.96	0.14	-	59,59,59,59	0
48	MG	E2	207	1/1	0.90	0.41	-	147,147,147,147	0
48	MG	CW	201	1/1	0.87	0.30	-	90,90,90,90	0
48	MG	A1	3567	1/1	0.76	0.31	-	144,144,144,144	0
48	MG	F1	3535	1/1	0.90	0.11	-	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	H1	3433	1/1	0.81	0.19	-	132,132,132,132	0
48	MG	A1	3574	1/1	0.87	0.15	-	119,119,119,119	0
48	MG	H1	3501	1/1	0.89	0.30	-	110,110,110,110	0
48	MG	D1	3482	1/1	0.85	0.15	-	106,106,106,106	0
48	MG	D1	3449	1/1	0.95	0.09	-	68,68,68,68	0
48	MG	F1	3433	1/1	0.84	0.64	-	95,95,95,95	0
48	MG	D1	3483	1/1	0.96	0.09	-	88,88,88,88	0
48	MG	D1	3477	1/1	0.95	0.09	-	60,60,60,60	0
48	MG	D1	3600	1/1	0.73	0.40	-	123,123,123,123	0
48	MG	D1	3508	1/1	0.94	0.05	-	86,86,86,86	0
48	MG	A1	3467	1/1	0.91	0.19	-	106,106,106,106	0
48	MG	H1	3518	1/1	0.90	0.14	-	110,110,110,110	0
48	MG	A1	3454	1/1	0.73	0.18	-	101,101,101,101	0
48	MG	F1	3489	1/1	0.72	0.10	-	85,85,85,85	0
48	MG	D1	3424	1/1	0.74	0.43	-	150,150,150,150	0
48	MG	F1	3429	1/1	0.91	0.17	-	73,73,73,73	0
48	MG	F1	3448	1/1	0.79	0.16	-	126,126,126,126	0
48	MG	H1	3416	1/1	0.91	0.66	-	113,113,113,113	0
48	MG	H1	3490	1/1	0.84	0.55	-	122,122,122,122	0
48	MG	D1	3532	1/1	0.87	0.14	-	119,119,119,119	0
48	MG	F1	3407	1/1	0.92	0.10	-	111,111,111,111	0
48	MG	H1	3483	1/1	0.94	0.14	-	108,108,108,108	0
48	MG	A1	3598	1/1	0.97	0.21	-	111,111,111,111	0
48	MG	D1	3590	1/1	0.95	0.20	-	89,89,89,89	0
48	MG	H1	3553	1/1	0.81	0.39	-	146,146,146,146	0
48	MG	A1	3525	1/1	0.98	0.08	-	51,51,51,51	0
48	MG	D1	3563	1/1	0.87	0.12	-	93,93,93,93	0
48	MG	D1	3478	1/1	0.94	0.12	-	81,81,81,81	0
48	MG	A1	3565	1/1	0.83	0.13	-	132,132,132,132	0
48	MG	H1	3533	1/1	0.63	1.06	-	153,153,153,153	0
48	MG	A1	3559	1/1	0.93	0.06	-	89,89,89,89	0
48	MG	D1	3565	1/1	0.82	0.33	-	114,114,114,114	0
48	MG	A1	3502	1/1	0.99	0.10	-	80,80,80,80	0
48	MG	A1	3583	1/1	0.64	0.44	-	112,112,112,112	0
48	MG	E3	202	1/1	0.91	0.20	-	122,122,122,122	0
48	MG	H1	3495	1/1	0.93	0.06	-	65,65,65,65	0
48	MG	D1	3614	1/1	0.84	0.19	-	129,129,129,129	0
48	MG	H1	3447	1/1	0.92	0.25	-	110,110,110,110	0
48	MG	A1	3569	1/1	0.85	0.09	-	91,91,91,91	0
48	MG	H1	3536	1/1	0.60	0.86	-	168,168,168,168	0
48	MG	G2	206	1/1	0.67	0.90	-	174,174,174,174	0
48	MG	A1	3441	1/1	0.93	0.50	-	127,127,127,127	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	F1	3529	1/1	0.86	0.71	-	140,140,140,140	0
48	MG	F1	3530	1/1	0.94	0.15	-	107,107,107,107	0
48	MG	D1	3576	1/1	0.72	0.54	-	150,150,150,150	0
48	MG	D1	3623	1/1	0.87	0.26	-	151,151,151,151	0
48	MG	D1	3442	1/1	0.79	0.35	-	126,126,126,126	0
48	MG	H1	3420	1/1	0.69	0.26	-	113,113,113,113	0
48	MG	E2	202	1/1	0.69	0.18	-	89,89,89,89	0
48	MG	A1	3482	1/1	0.95	0.06	-	62,62,62,62	0
48	MG	E2	204	1/1	0.97	0.06	-	75,75,75,75	0
48	MG	H1	3414	1/1	0.60	0.54	-	169,169,169,169	0
48	MG	A1	3532	1/1	0.89	0.07	-	74,74,74,74	0
48	MG	D1	3556	1/1	0.98	0.07	-	76,76,76,76	0
48	MG	EN	202	1/1	0.84	1.13	-	238,238,238,238	0
48	MG	F1	3564	1/1	0.76	0.38	-	143,143,143,143	0
48	MG	A1	3429	1/1	0.92	0.11	-	122,122,122,122	0
48	MG	A1	3522	1/1	0.63	1.27	-	146,146,146,146	0
48	MG	A1	3506	1/1	0.95	0.12	-	77,77,77,77	0
48	MG	F1	3521	1/1	0.96	0.09	-	65,65,65,65	0
48	MG	A1	3468	1/1	0.92	0.18	-	109,109,109,109	0
48	MG	D1	3533	1/1	0.99	0.07	-	41,41,41,41	0
48	MG	D1	3474	1/1	0.95	0.10	-	58,58,58,58	0
48	MG	BL	301	1/1	0.93	0.09	-	71,71,71,71	0
48	MG	A1	3590	1/1	0.89	0.26	-	142,142,142,142	0
48	MG	F1	3494	1/1	0.93	0.12	-	97,97,97,97	0
48	MG	H1	3484	1/1	0.86	0.24	-	166,166,166,166	0
48	MG	A1	3414	1/1	0.76	0.19	-	142,142,142,142	0
48	MG	H1	3493	1/1	0.97	0.12	-	79,79,79,79	0
48	MG	F1	3533	1/1	0.94	0.17	-	101,101,101,101	0
48	MG	H1	3479	1/1	0.53	0.43	-	132,132,132,132	0
48	MG	F1	3487	1/1	0.96	0.09	-	60,60,60,60	0
48	MG	H1	3491	1/1	0.95	0.13	-	111,111,111,111	0
48	MG	F1	3413	1/1	0.85	0.38	-	110,110,110,110	0
48	MG	D1	3447	1/1	0.91	0.23	-	101,101,101,101	0
48	MG	F1	3456	1/1	0.89	0.07	-	62,62,62,62	0
48	MG	H1	3531	1/1	0.70	0.60	-	157,157,157,157	0
48	MG	A1	3596	1/1	0.90	0.30	-	163,163,163,163	0
48	MG	E3	201	1/1	0.95	0.09	-	90,90,90,90	0
48	MG	F1	3418	1/1	0.94	0.12	-	126,126,126,126	0
48	MG	A1	3464	1/1	0.92	0.06	-	64,64,64,64	0
48	MG	A1	3407	1/1	0.94	0.11	-	83,83,83,83	0
48	MG	A1	3587	1/1	0.75	1.10	-	182,182,182,182	0
48	MG	F1	3428	1/1	0.82	0.30	-	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	D1	3583	1/1	0.75	0.32	-	139,139,139,139	0
48	MG	D1	3408	1/1	0.95	0.30	-	106,106,106,106	0
48	MG	D1	3577	1/1	0.89	0.22	-	121,121,121,121	0
48	MG	F1	3560	1/1	0.75	0.47	-	169,169,169,169	0
48	MG	A1	3586	1/1	0.81	0.72	-	177,177,177,177	0
48	MG	A1	3439	1/1	0.92	0.08	-	106,106,106,106	0
48	MG	H1	3418	1/1	0.74	0.21	-	141,141,141,141	0
48	MG	D1	3552	1/1	0.92	0.06	-	55,55,55,55	0
48	MG	D1	3585	1/1	0.93	0.08	-	108,108,108,108	0
48	MG	F1	3401	1/1	0.87	0.35	-	101,101,101,101	0
48	MG	C2	204	1/1	0.97	0.07	-	75,75,75,75	0
48	MG	A1	3573	1/1	0.54	0.47	-	186,186,186,186	0
48	MG	F1	3575	1/1	0.44	0.25	-	130,130,130,130	0
48	MG	D1	3525	1/1	0.87	0.33	-	113,113,113,113	0
48	MG	D1	3470	1/1	0.58	0.38	-	134,134,134,134	0
48	MG	H1	3438	1/1	0.83	0.29	-	120,120,120,120	0
48	MG	G3	205	1/1	0.64	0.94	-	171,171,171,171	0
48	MG	H1	3551	1/1	0.12	3.29	-	202,202,202,202	0
48	MG	D1	3591	1/1	0.95	0.10	-	55,55,55,55	0
48	MG	D1	3526	1/1	0.96	0.05	-	54,54,54,54	0
48	MG	A1	3548	1/1	0.92	0.16	-	124,124,124,124	0
48	MG	A1	3539	1/1	0.96	0.08	-	46,46,46,46	0
48	MG	D1	3571	1/1	0.77	0.43	-	130,130,130,130	0
48	MG	H1	3527	1/1	0.93	0.14	-	99,99,99,99	0
48	MG	D1	3539	1/1	0.97	0.14	-	57,57,57,57	0
48	MG	D1	3436	1/1	0.96	0.16	-	78,78,78,78	0
48	MG	D1	3444	1/1	0.86	0.22	-	139,139,139,139	0
48	MG	F1	3578	1/1	0.60	0.79	-	161,161,161,161	0
48	MG	H1	3520	1/1	0.93	0.17	-	114,114,114,114	0
48	MG	H1	3526	1/1	0.74	0.23	-	94,94,94,94	0
48	MG	A1	3450	1/1	0.85	0.20	-	133,133,133,133	0
48	MG	H1	3462	1/1	0.84	0.36	-	131,131,131,131	0
48	MG	A1	3508	1/1	0.95	0.12	-	89,89,89,89	0
48	MG	G2	201	1/1	0.85	0.14	-	141,141,141,141	0
48	MG	A1	3585	1/1	0.47	0.45	-	152,152,152,152	0
48	MG	A1	3593	1/1	0.66	0.72	-	158,158,158,158	0
48	MG	F1	3421	1/1	0.59	0.35	-	174,174,174,174	0
48	MG	H1	3512	1/1	0.86	0.31	-	121,121,121,121	0
48	MG	D1	3439	1/1	0.87	0.38	-	146,146,146,146	0
48	MG	A1	3516	1/1	0.88	0.23	-	88,88,88,88	0
48	MG	A1	3560	1/1	0.93	0.45	-	138,138,138,138	0
48	MG	F1	3549	1/1	0.83	0.20	-	125,125,125,125	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	A1	3588	1/1	0.62	0.26	-	144,144,144,144	0
48	MG	F1	3532	1/1	0.87	0.19	-	87,87,87,87	0
48	MG	F1	3430	1/1	0.61	0.15	-	128,128,128,128	0
48	MG	D1	3530	1/1	0.84	0.16	-	94,94,94,94	0
48	MG	H1	3425	1/1	0.88	0.31	-	108,108,108,108	0
48	MG	C2	202	1/1	0.91	0.23	-	112,112,112,112	0
48	MG	D1	3630	1/1	0.97	0.14	-	71,71,71,71	0
48	MG	A1	3552	1/1	0.86	0.11	-	97,97,97,97	0
48	MG	A1	3544	1/1	0.95	0.48	-	135,135,135,135	0
48	MG	D1	3613	1/1	0.83	0.23	-	120,120,120,120	0
48	MG	D1	3521	1/1	0.65	0.28	-	129,129,129,129	0
48	MG	D1	3622	1/1	0.86	0.30	-	133,133,133,133	0
48	MG	H1	3515	1/1	0.97	0.09	-	73,73,73,73	0
48	MG	A1	3455	1/1	0.87	0.13	-	111,111,111,111	0
48	MG	F1	3567	1/1	0.82	0.42	-	128,128,128,128	0
48	MG	D1	3578	1/1	0.96	0.07	-	88,88,88,88	0
48	MG	F1	3490	1/1	0.55	0.22	-	139,139,139,139	0
48	MG	F1	3556	1/1	0.88	0.08	-	90,90,90,90	0
48	MG	D1	3506	1/1	0.91	0.30	-	132,132,132,132	0
48	MG	D1	3548	1/1	0.68	0.95	-	183,183,183,183	0
48	MG	C3	201	1/1	0.94	0.34	-	123,123,123,123	0
48	MG	D1	3465	1/1	0.96	0.09	-	65,65,65,65	0
48	MG	F1	3443	1/1	0.94	0.05	-	104,104,104,104	0
48	MG	D1	3572	1/1	0.92	0.23	-	69,69,69,69	0
48	MG	A1	3419	1/1	0.80	0.14	-	100,100,100,100	0
48	MG	F1	3527	1/1	0.87	0.30	-	105,105,105,105	0
48	MG	H1	3481	1/1	0.44	0.29	-	134,134,134,134	0
48	MG	A1	3486	1/1	0.94	0.15	-	93,93,93,93	0
48	MG	A1	3485	1/1	0.95	0.15	-	137,137,137,137	0
48	MG	F1	3500	1/1	0.88	0.16	-	105,105,105,105	0
48	MG	A1	3597	1/1	0.97	0.38	-	133,133,133,133	0
48	MG	D1	3553	1/1	0.94	0.07	-	90,90,90,90	0
48	MG	H1	3508	1/1	0.92	0.16	-	80,80,80,80	0
48	MG	A1	3438	1/1	0.88	0.23	-	148,148,148,148	0
48	MG	F1	3524	1/1	0.95	0.14	-	56,56,56,56	0
48	MG	F1	3473	1/1	0.87	0.42	-	156,156,156,156	0
48	MG	D1	3579	1/1	0.72	0.10	-	97,97,97,97	0
48	MG	H1	3480	1/1	0.92	0.14	-	81,81,81,81	0
48	MG	D1	3549	1/1	0.90	0.13	-	99,99,99,99	0
48	MG	H1	3413	1/1	0.78	0.21	-	117,117,117,117	0
48	MG	F1	3550	1/1	0.79	0.21	-	154,154,154,154	0
48	MG	H1	3517	1/1	0.93	0.16	-	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	D1	3624	1/1	0.57	0.61	-	162,162,162,162	0
48	MG	F1	3528	1/1	0.98	0.06	-	75,75,75,75	0
48	MG	D1	3435	1/1	0.83	0.14	-	108,108,108,108	0
48	MG	D1	3520	1/1	0.93	0.11	-	93,93,93,93	0
48	MG	F1	3471	1/1	0.94	0.17	-	90,90,90,90	0
48	MG	D1	3615	1/1	0.83	0.24	-	132,132,132,132	0
48	MG	A1	3542	1/1	0.88	0.22	-	96,96,96,96	0
48	MG	H1	3494	1/1	0.96	0.14	-	56,56,56,56	0
48	MG	F1	3419	1/1	0.56	0.11	-	124,124,124,124	0
48	MG	F1	3518	1/1	0.96	0.13	-	77,77,77,77	0
48	MG	H1	3498	1/1	0.96	0.07	-	60,60,60,60	0
48	MG	D1	3626	1/1	0.81	0.20	-	137,137,137,137	0
48	MG	H1	3550	1/1	0.68	0.44	-	152,152,152,152	0
48	MG	F1	3434	1/1	0.87	0.13	-	83,83,83,83	0
48	MG	A1	3427	1/1	0.61	0.26	-	152,152,152,152	0
48	MG	D1	3540	1/1	0.83	0.20	-	139,139,139,139	0
48	MG	D1	3529	1/1	0.96	0.10	-	80,80,80,80	0
48	MG	F1	3562	1/1	0.91	0.41	-	140,140,140,140	0
48	MG	D1	3451	1/1	0.92	0.42	-	115,115,115,115	0
48	MG	F1	3512	1/1	0.96	0.11	-	94,94,94,94	0
48	MG	A1	3562	1/1	0.93	0.20	-	91,91,91,91	0
48	MG	CQ	201	1/1	0.86	0.18	-	127,127,127,127	0
48	MG	D1	3593	1/1	0.76	0.36	-	180,180,180,180	0
48	MG	F1	3498	1/1	0.82	0.22	-	141,141,141,141	0
48	MG	D1	3443	1/1	0.92	0.48	-	112,112,112,112	0
48	MG	D1	3402	1/1	0.95	0.08	-	52,52,52,52	0
48	MG	B2	202	1/1	0.78	0.12	-	103,103,103,103	0
48	MG	C3	203	1/1	0.90	0.08	-	69,69,69,69	0
48	MG	F1	3462	1/1	0.74	0.15	-	118,118,118,118	0
48	MG	A1	3547	1/1	0.76	0.16	-	81,81,81,81	0
48	MG	G2	204	1/1	-0.14	0.93	-	181,181,181,181	0
48	MG	GP	201	1/1	0.78	0.46	-	109,109,109,109	0
48	MG	H1	3406	1/1	0.41	0.16	-	143,143,143,143	0
48	MG	H1	3452	1/1	0.88	0.10	-	108,108,108,108	0
48	MG	D1	3500	1/1	0.96	0.09	-	44,44,44,44	0
48	MG	F1	3425	1/1	0.82	0.33	-	115,115,115,115	0
48	MG	A1	3475	1/1	0.93	0.22	-	80,80,80,80	0
48	MG	A1	3440	1/1	0.98	0.04	-	78,78,78,78	0
48	MG	A1	3566	1/1	0.87	0.11	-	75,75,75,75	0
48	MG	H1	3504	1/1	0.88	0.11	-	111,111,111,111	0
48	MG	A1	3584	1/1	0.86	0.23	-	125,125,125,125	0
48	MG	A1	3527	1/1	0.28	0.30	-	119,119,119,119	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	F1	3571	1/1	0.91	0.29	-	132,132,132,132	0
48	MG	B3	203	1/1	0.68	0.23	-	160,160,160,160	0
48	MG	B2	205	1/1	0.94	0.09	-	81,81,81,81	0
48	MG	D1	3547	1/1	0.71	0.27	-	109,109,109,109	0
48	MG	F1	3455	1/1	0.93	0.09	-	65,65,65,65	0
48	MG	A1	3509	1/1	0.92	0.12	-	128,128,128,128	0
48	MG	A1	3474	1/1	0.87	0.13	-	88,88,88,88	0
48	MG	D1	3401	1/1	0.53	0.25	-	109,109,109,109	0
48	MG	D1	3598	1/1	0.60	0.24	-	159,159,159,159	0
48	MG	A1	3591	1/1	0.80	0.27	-	121,121,121,121	0
48	MG	A1	3589	1/1	0.81	0.12	-	113,113,113,113	0
48	MG	H1	3402	1/1	0.66	0.23	-	118,118,118,118	0
48	MG	A1	3416	1/1	0.74	0.22	-	140,140,140,140	0
48	MG	H1	3535	1/1	0.64	0.98	-	150,150,150,150	0
48	MG	H1	3442	1/1	0.90	0.09	-	79,79,79,79	0
48	MG	D1	3606	1/1	0.56	1.18	-	157,157,157,157	0
48	MG	A1	3556	1/1	0.59	0.18	-	124,124,124,124	0
48	MG	A1	3451	1/1	0.71	0.16	-	146,146,146,146	0
48	MG	D1	3432	1/1	0.92	0.17	-	118,118,118,118	0
48	MG	A1	3422	1/1	0.44	0.58	-	144,144,144,144	0
48	MG	F1	3572	1/1	0.79	0.36	-	155,155,155,155	0
48	MG	D1	3543	1/1	0.91	0.27	-	127,127,127,127	0
48	MG	F1	3583	1/1	0.69	0.18	-	104,104,104,104	0
48	MG	A1	3435	1/1	0.71	0.54	-	151,151,151,151	0
48	MG	D1	3468	1/1	0.89	0.13	-	75,75,75,75	0
48	MG	F1	3509	1/1	0.65	0.34	-	144,144,144,144	0
48	MG	H1	3473	1/1	0.78	0.19	-	123,123,123,123	0
48	MG	D1	3620	1/1	0.88	0.15	-	106,106,106,106	0
48	MG	A1	3471	1/1	0.90	0.31	-	88,88,88,88	0
48	MG	C2	201	1/1	0.89	0.15	-	121,121,121,121	0
48	MG	D1	3611	1/1	0.41	0.63	-	205,205,205,205	0
48	MG	A1	3533	1/1	0.94	0.22	-	73,73,73,73	0
48	MG	E3	206	1/1	0.74	0.34	-	132,132,132,132	0
48	MG	A1	3459	1/1	0.95	0.20	-	90,90,90,90	0
48	MG	D1	3582	1/1	0.84	0.19	-	93,93,93,93	0
48	MG	F1	3531	1/1	0.94	0.09	-	95,95,95,95	0
48	MG	A1	3493	1/1	0.93	0.21	-	113,113,113,113	0
48	MG	A1	3426	1/1	0.97	0.09	-	73,73,73,73	0
48	MG	D1	3491	1/1	0.92	0.15	-	97,97,97,97	0
48	MG	H1	3421	1/1	0.98	0.13	-	97,97,97,97	0
48	MG	D1	3512	1/1	0.91	0.14	-	101,101,101,101	0
48	MG	A1	3401	1/1	0.72	0.12	-	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	A1	3550	1/1	0.95	0.04	-	69,69,69,69	0
48	MG	D1	3519	1/1	0.96	0.08	-	72,72,72,72	0
48	MG	D1	3429	1/1	0.74	0.23	-	113,113,113,113	0
48	MG	H1	3415	1/1	0.66	0.13	-	133,133,133,133	0
48	MG	F1	3570	1/1	0.67	0.27	-	113,113,113,113	0
48	MG	H1	3482	1/1	0.83	0.62	-	162,162,162,162	0
48	MG	D1	3437	1/1	0.50	0.32	-	148,148,148,148	0
48	MG	H1	3441	1/1	0.84	0.15	-	102,102,102,102	0
48	MG	F1	3441	1/1	0.97	0.19	-	111,111,111,111	0
48	MG	F1	3488	1/1	0.73	0.38	-	110,110,110,110	0
48	MG	F1	3420	1/1	0.93	0.09	-	88,88,88,88	0
48	MG	F1	3544	1/1	0.86	0.13	-	97,97,97,97	0
48	MG	CD	201	1/1	0.81	0.16	-	93,93,93,93	0
48	MG	F1	3477	1/1	0.86	0.68	-	146,146,146,146	0
48	MG	A1	3479	1/1	0.89	0.22	-	120,120,120,120	0
48	MG	DA	101	1/1	0.94	0.07	-	82,82,82,82	0
48	MG	D1	3632	1/1	0.97	0.12	-	83,83,83,83	0
48	MG	A1	3430	1/1	0.58	0.50	-	146,146,146,146	0
48	MG	D1	3567	1/1	0.95	0.26	-	60,60,60,60	0
48	MG	D1	3551	1/1	0.76	0.18	-	142,142,142,142	0
48	MG	D1	3609	1/1	0.83	0.67	-	120,120,120,120	0
48	MG	D1	3407	1/1	0.91	0.09	-	70,70,70,70	0
48	MG	H1	3424	1/1	0.92	0.08	-	96,96,96,96	0
48	MG	D1	3421	1/1	0.86	0.22	-	126,126,126,126	0
48	MG	F1	3563	1/1	0.73	0.18	-	124,124,124,124	0
48	MG	A1	3431	1/1	0.78	0.12	-	90,90,90,90	0
48	MG	H1	3457	1/1	0.90	0.56	-	147,147,147,147	0
48	MG	A1	3536	1/1	0.88	0.14	-	104,104,104,104	0
48	MG	D1	3427	1/1	0.79	0.26	-	153,153,153,153	0
48	MG	A1	3551	1/1	0.80	0.34	-	123,123,123,123	0
48	MG	EL	302	1/1	0.90	0.09	-	68,68,68,68	0
48	MG	DK	201	1/1	0.95	0.29	-	101,101,101,101	0
48	MG	A1	3546	1/1	0.96	0.23	-	51,51,51,51	0
48	MG	H1	3549	1/1	0.80	0.47	-	124,124,124,124	0
48	MG	B2	203	1/1	0.96	0.06	-	81,81,81,81	0
48	MG	A1	3425	1/1	0.81	0.16	-	107,107,107,107	0
48	MG	A1	3472	1/1	0.80	0.63	-	149,149,149,149	0
48	MG	A1	3511	1/1	0.92	0.08	-	90,90,90,90	0
48	MG	C3	204	1/1	0.93	0.11	-	85,85,85,85	0
48	MG	D1	3417	1/1	0.80	0.20	-	132,132,132,132	0
48	MG	D1	3485	1/1	0.83	0.17	-	120,120,120,120	0
48	MG	F1	3465	1/1	0.96	0.26	-	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	F1	3547	1/1	0.96	0.09	-	112,112,112,112	0
48	MG	A1	3581	1/1	0.92	0.31	-	126,126,126,126	0
48	MG	H1	3472	1/1	0.88	0.32	-	104,104,104,104	0
48	MG	H1	3546	1/1	0.85	0.27	-	120,120,120,120	0
48	MG	B2	207	1/1	0.66	0.38	-	149,149,149,149	0
48	MG	DQ	201	1/1	0.86	0.32	-	118,118,118,118	0
48	MG	D1	3619	1/1	0.96	0.07	-	101,101,101,101	0
48	MG	A1	3404	1/1	0.88	0.12	-	94,94,94,94	0
48	MG	F1	3541	1/1	0.90	0.23	-	112,112,112,112	0
48	MG	H1	3552	1/1	0.83	0.18	-	131,131,131,131	0
48	MG	CN	201	1/1	0.95	0.29	-	175,175,175,175	0
48	MG	D1	3537	1/1	0.92	0.28	-	121,121,121,121	0
48	MG	A1	3507	1/1	0.70	0.20	-	129,129,129,129	0
48	MG	F1	3468	1/1	0.77	0.16	-	103,103,103,103	0
48	MG	D1	3550	1/1	0.71	0.59	-	136,136,136,136	0
48	MG	F1	3469	1/1	0.66	0.16	-	112,112,112,112	0
48	MG	H1	3513	1/1	0.93	0.11	-	87,87,87,87	0
48	MG	H1	3435	1/1	0.90	0.17	-	116,116,116,116	0
48	MG	F1	3405	1/1	0.93	0.13	-	79,79,79,79	0
48	MG	D1	3514	1/1	0.78	0.20	-	128,128,128,128	0
48	MG	A1	3519	1/1	0.91	0.10	-	113,113,113,113	0
48	MG	DA	102	1/1	0.87	0.20	-	115,115,115,115	0
48	MG	F1	3422	1/1	0.81	0.29	-	149,149,149,149	0
48	MG	D1	3422	1/1	0.87	0.22	-	150,150,150,150	0
48	MG	F1	3525	1/1	0.97	0.09	-	73,73,73,73	0
48	MG	A1	3402	1/1	0.62	0.31	-	143,143,143,143	0
48	MG	F1	3491	1/1	0.87	0.18	-	96,96,96,96	0
48	MG	A1	3403	1/1	0.91	0.13	-	96,96,96,96	0
48	MG	A1	3538	1/1	0.97	0.08	-	49,49,49,49	0
48	MG	D1	3599	1/1	0.88	0.28	-	126,126,126,126	0
48	MG	D1	3509	1/1	0.97	0.09	-	41,41,41,41	0
48	MG	A1	3418	1/1	0.95	0.10	-	117,117,117,117	0
48	MG	A1	3462	1/1	0.96	0.10	-	46,46,46,46	0
48	MG	E3	203	1/1	0.84	0.17	-	104,104,104,104	0
48	MG	H1	3545	1/1	0.87	0.19	-	156,156,156,156	0
48	MG	F1	3451	1/1	0.76	0.49	-	122,122,122,122	0
48	MG	D1	3542	1/1	0.85	0.13	-	71,71,71,71	0
48	MG	GP	202	1/1	0.79	0.24	-	137,137,137,137	0
48	MG	D1	3570	1/1	0.97	0.20	-	54,54,54,54	0
48	MG	H1	3534	1/1	0.16	1.53	-	221,221,221,221	0
48	MG	F1	3414	1/1	0.65	0.20	-	123,123,123,123	0
48	MG	D1	3541	1/1	0.73	0.34	-	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
48	MG	D1	3559	1/1	0.97	0.08	-	55,55,55,55	0
48	MG	H1	3423	1/1	0.95	0.11	-	98,98,98,98	0
48	MG	E2	205	1/1	0.52	0.60	-	140,140,140,140	0
48	MG	H1	3530	1/1	0.82	0.34	-	154,154,154,154	0
48	MG	H1	3436	1/1	0.82	0.42	-	146,146,146,146	0
48	MG	F1	3496	1/1	0.61	0.24	-	122,122,122,122	0
48	MG	A1	3518	1/1	0.92	0.24	-	109,109,109,109	0
48	MG	F1	3466	1/1	0.91	0.34	-	140,140,140,140	0
48	MG	H1	3532	1/1	0.68	0.39	-	162,162,162,162	0
48	MG	D1	3418	1/1	0.72	0.16	-	114,114,114,114	0
48	MG	D1	3467	1/1	0.72	0.18	-	123,123,123,123	0
48	MG	H1	3460	1/1	0.95	0.13	-	69,69,69,69	0
48	MG	H1	3521	1/1	0.74	0.29	-	123,123,123,123	0
48	MG	D1	3595	1/1	0.87	0.23	-	94,94,94,94	0
48	MG	F1	3461	1/1	0.83	0.49	-	106,106,106,106	0
48	MG	H1	3417	1/1	0.84	0.11	-	114,114,114,114	0
48	MG	F1	3411	1/1	0.09	0.64	-	142,142,142,142	0
48	MG	F1	3426	1/1	0.97	0.24	-	110,110,110,110	0
48	MG	A1	3437	1/1	0.75	0.48	-	141,141,141,141	0
48	MG	H1	3506	1/1	0.97	0.12	-	75,75,75,75	0
48	MG	F1	3577	1/1	0.68	0.26	-	152,152,152,152	0
48	MG	A1	3530	1/1	0.78	0.48	-	149,149,149,149	0
48	MG	F1	3486	1/1	0.96	0.11	-	90,90,90,90	0
48	MG	D1	3612	1/1	0.94	0.23	-	123,123,123,123	0
48	MG	D1	3445	1/1	0.87	0.19	-	126,126,126,126	0
48	MG	H1	3466	1/1	0.95	0.08	-	107,107,107,107	0
48	MG	D1	3625	1/1	0.75	0.40	-	164,164,164,164	0
48	MG	H1	3475	1/1	0.94	0.10	-	70,70,70,70	0
48	MG	E2	206	1/1	0.51	0.32	-	151,151,151,151	0
48	MG	D1	3629	1/1	0.95	0.10	-	121,121,121,121	0
48	MG	D1	3617	1/1	0.94	0.35	-	113,113,113,113	0
48	MG	D1	3434	1/1	0.75	0.63	-	144,144,144,144	0

6.5 Other polymers [i](#)

There are no such residues in this entry.