



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 04:54 PM UTC

PDB ID : 4V5F / pdb_00004v5f
Title : The structure of the ribosome with elongation factor G trapped in the post-translocational state
Authors : Gao, Y.-G.; Selmer, M.; Dunham, C.M.; Weixlbaumer, A.; Kelley, A.C.; Ramakrishnan, V.
Deposited on : 2009-09-01
Resolution : 3.60 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

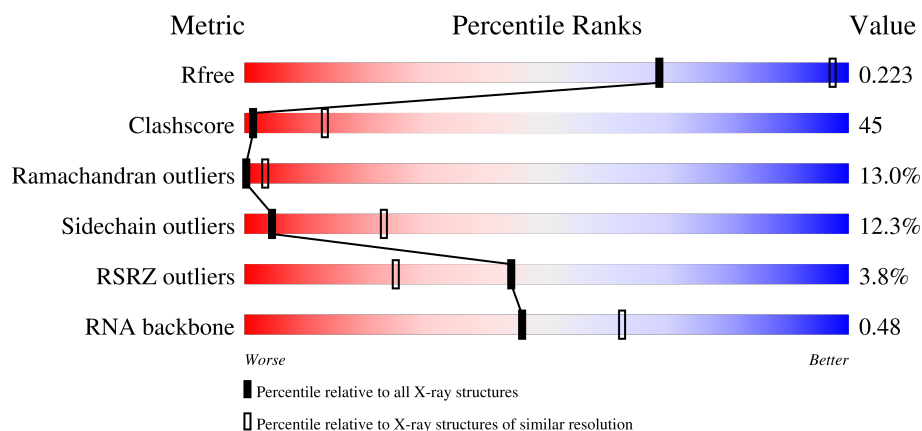
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.60 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}	180053	1747 (3.70-3.50)
Clashscore	190562	1827 (3.70-3.50)
Ramachandran outliers	187476	1773 (3.70-3.50)
Sidechain outliers	187428	1772 (3.70-3.50)
RSRZ outliers	180081	1745 (3.70-3.50)
RNA backbone	3983	1014 (4.14-3.06)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	4% 28% 55% 13% ..
1	CA	1522	3% 27% 57% 13% ..
2	AB	256	2% 20% 50% 19% 8%

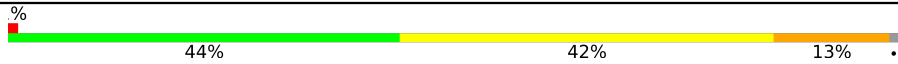
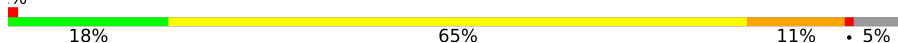
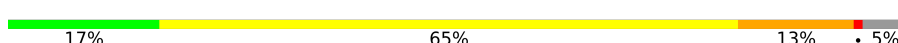
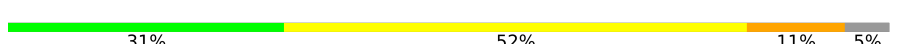
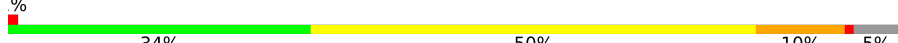
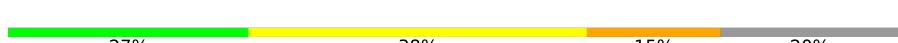
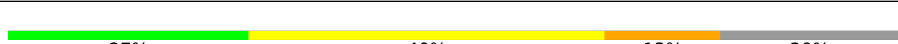
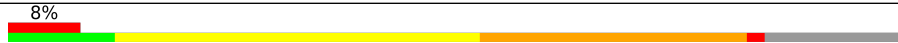
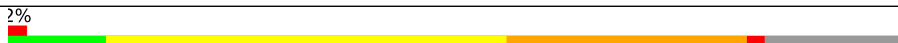
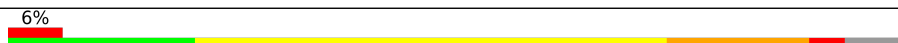
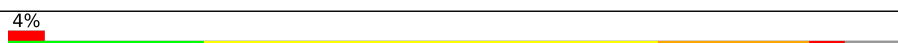
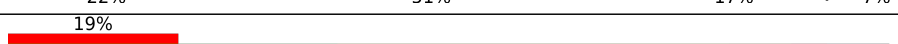
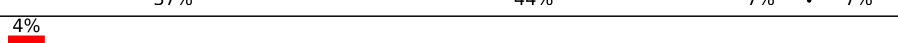
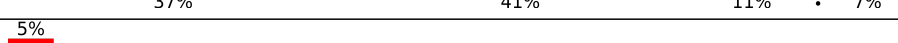
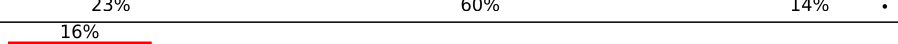
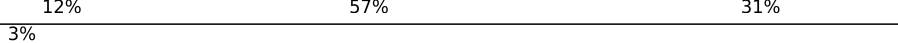
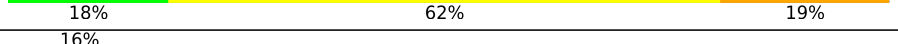
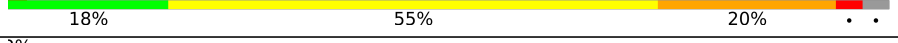
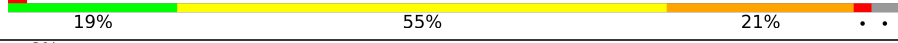
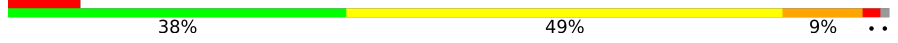
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Mol	Chain	Length	Quality of chain
2	CB	256	
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	

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Mol	Chain	Length	Quality of chain
15	AO	89	
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	77	
22	AW	77	
22	CV	77	
22	CW	77	
23	AX	25	
23	CX	25	
24	AY	691	
24	CY	691	
25	B0	85	
25	D0	85	
26	B1	98	

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Mol	Chain	Length	Quality of chain
26	D1	98	
27	B2	72	
27	D2	72	
28	B3	60	
28	D3	60	
29	B4	71	
29	D4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2915	
35	DA	2915	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	

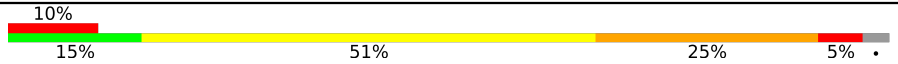
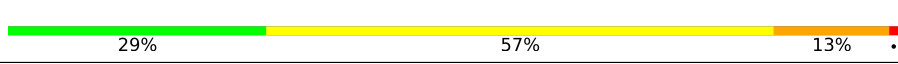
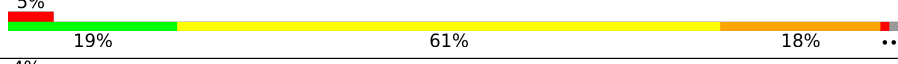
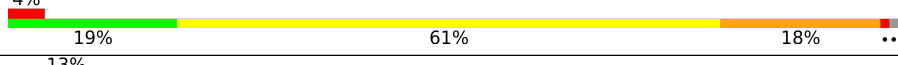
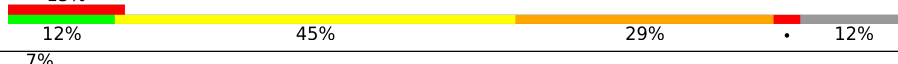
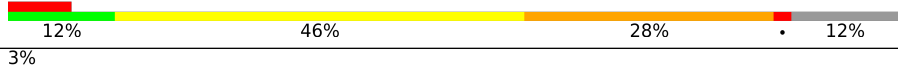
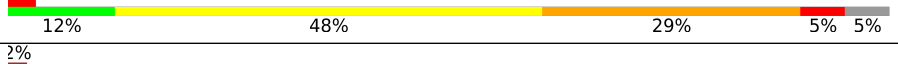
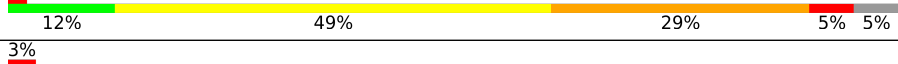
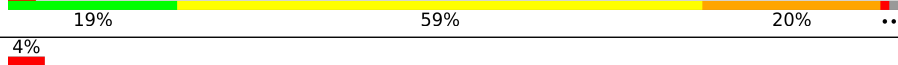
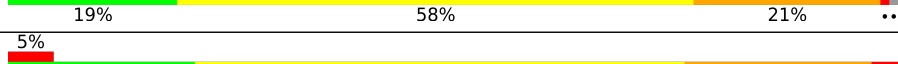
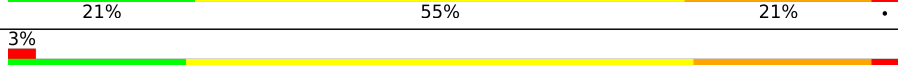
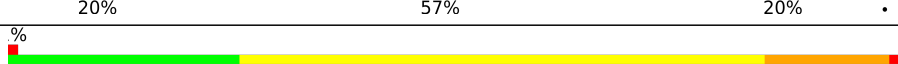
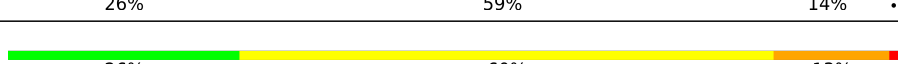
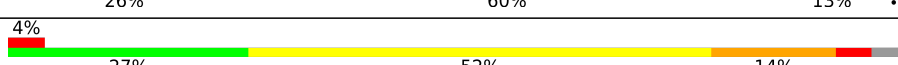
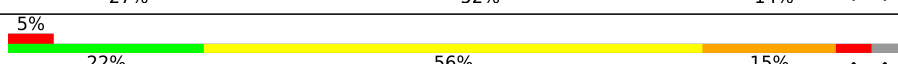
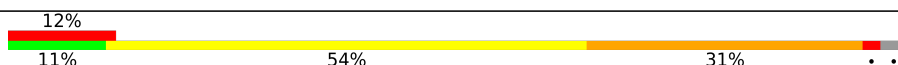
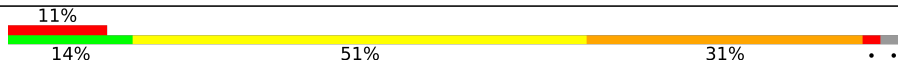
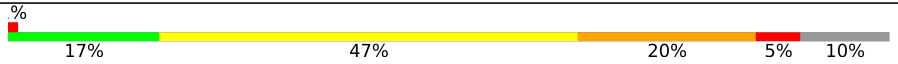
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Mol	Chain	Length	Quality of chain
39	BE	206	
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BJ	173	
43	DJ	173	
44	BK	147	
44	DK	147	
45	BL	125	
45	BM	125	
45	Bl	125	
45	Bm	125	
45	DL	125	
45	DM	125	
45	Dl	125	
45	Dm	125	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	

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Mol	Chain	Length	Quality of chain
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
61	FUA	CY	702	-	-	X	-

2 Entry composition

There are 62 unique types of molecules in this entry. The entry contains 311552 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O		0	0	0
			1010	639	197	174				
9	CI	127	Total	C	N	O		0	0	0
			1010	639	197	174				

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 22 is a RNA chain called E-SITE TRNA FMET OR P-SITE TRNA FMET (UN-MODIFIED BASES EXCEPT FOR THYMINE 54).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	AW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	CV	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	CW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	11	Total	C	N	O	P	0	0	0
			230	105	41	74	10			
23	CX	11	Total	C	N	O	P	0	0	0
			230	105	41	74	10			

- Molecule 24 is a protein called ELONGATION FACTOR G.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	667	Total	C	N	O	S	0	0	1
			5215	3316	893	988	18			
24	CY	667	Total	C	N	O	S	0	0	1
			5215	3316	893	988	18			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			
25	D0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			
29	D4	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
34	D9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BC	228	Total	C	N	O	S	0	0	0
			1742	1101	319	319	3			
37	DC	228	Total	C	N	O	S	0	0	0
			1742	1101	319	319	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BD	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			
38	DD	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	167	Total	C	N	O	S	0	0	1
			1269	803	238	227	1			
42	DH	167	Total	C	N	O	S	0	0	1
			1269	803	238	227	1			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BJ	170	Total	C	N	O	S	0	0	0
			851	510	170	171				
43	DJ	170	Total	C	N	O	S	0	0	0
			851	510	170	171				

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BK	140	Total	C	N	O	S	0	0	1
			1026	653	182	186	5			
44	DK	140	Total	C	N	O	S	0	0	1
			1026	653	182	186	5			

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BL	102	Total	C	N	O	S	0	0	1
			506	303	102	101				
45	BM	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Bl	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Bm	30	Total	C	N	O	S	0	0	1
			146	87	30	29				
45	DL	102	Total	C	N	O	S	0	0	1
			506	303	102	101				
45	DM	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Dl	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Dm	30	Total	C	N	O	S	0	0	1
			146	87	30	29				

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BY	107	Total	C	N	O	S	0	0	1
			811	520	155	131	5			
57	DY	107	Total	C	N	O	S	0	0	1
			811	520	155	131	5			

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

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

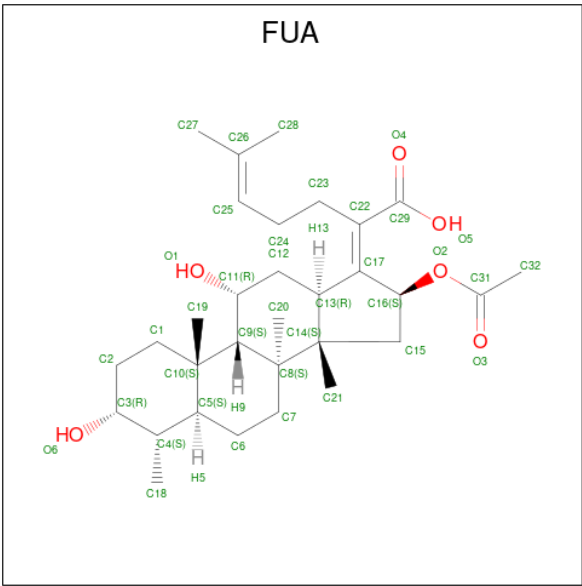
- Molecule 59 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	AD	1	Total	Zn	0	0
			1	1		
59	AN	1	Total	Zn	0	0
			1	1		
59	B4	1	Total	Zn	0	0
			1	1		
59	B9	1	Total	Zn	0	0
			1	1		
59	CD	1	Total	Zn	0	0
			1	1		
59	CN	1	Total	Zn	0	0
			1	1		
59	D4	1	Total	Zn	0	0
			1	1		
59	D9	1	Total	Zn	0	0
			1	1		

- Molecule 60 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

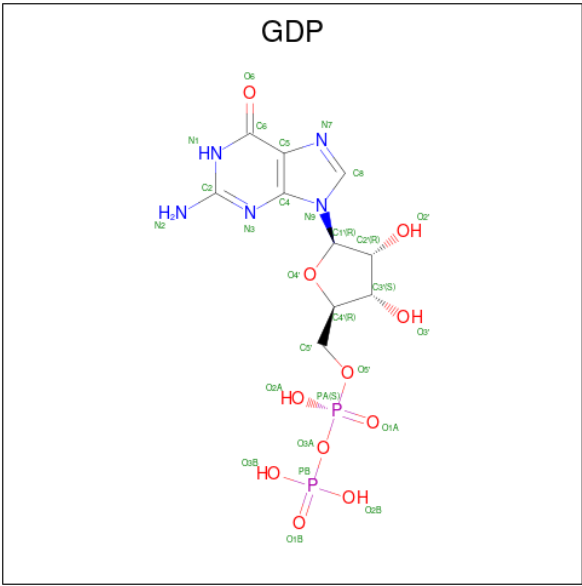
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AY	1	Total	Mg	0	0
			1	1		
60	CY	1	Total	Mg	0	0
			1	1		

- Molecule 61 is FUSIDIC ACID (CCD ID: FUA) (formula: C₃₁H₄₈O₆).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
61	AY	1	Total	C	O	0	0
			37	31	6		
61	CY	1	Total	C	O	0	0
			37	31	6		

- Molecule 62 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
62	AY	1	Total	C	N	O	P	0	0
			28	10	5	11	2		

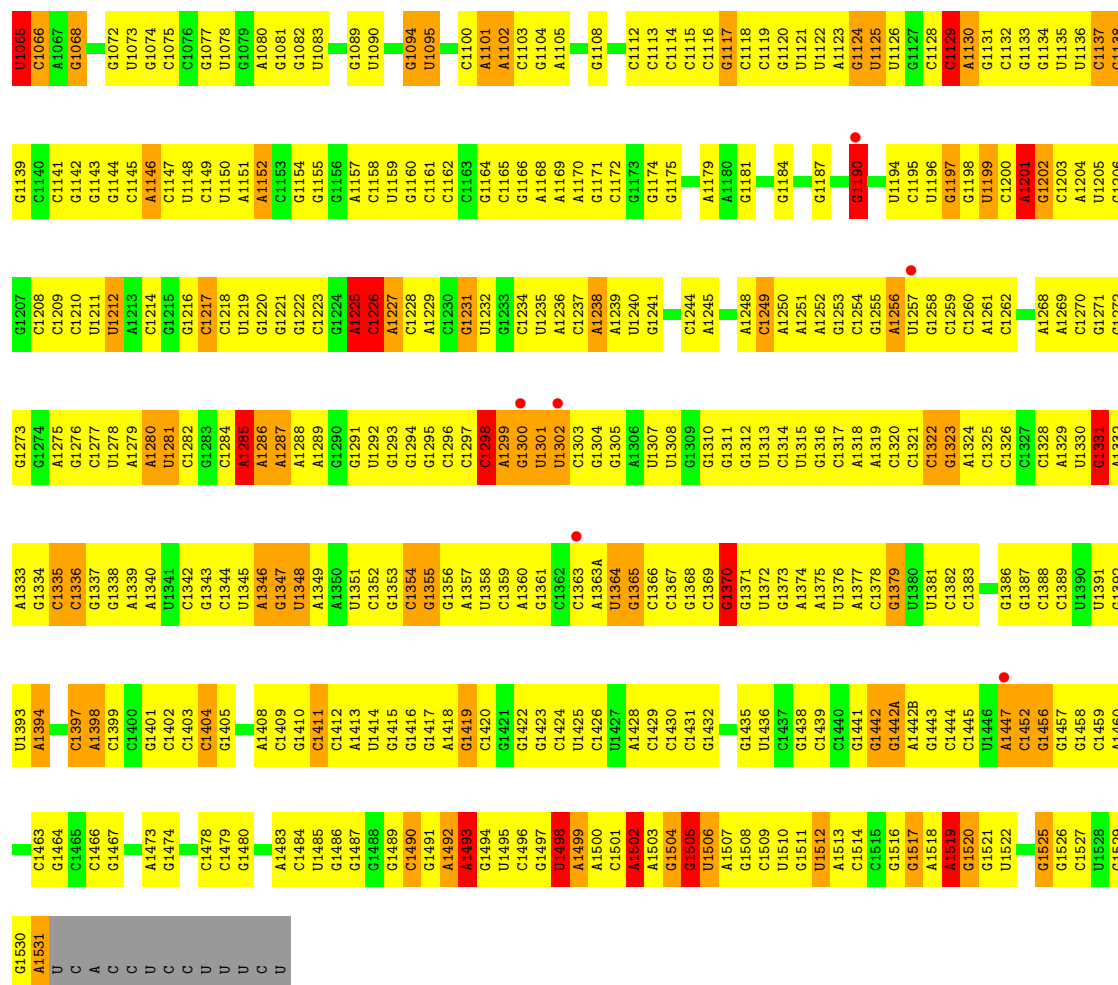
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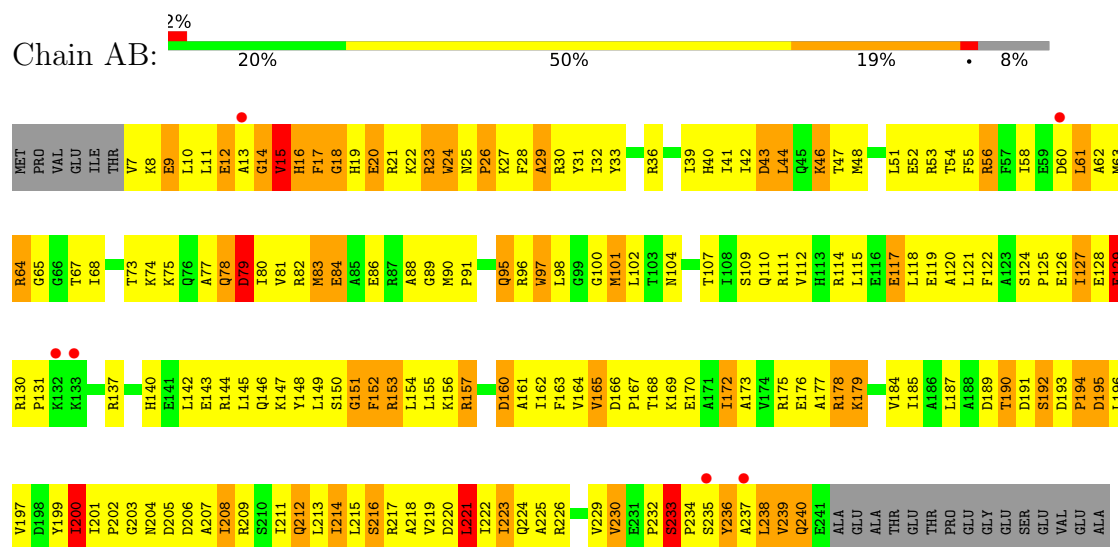
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
62	CY	1	Total	C	N	O	P	0	0
			28	10	5	11	2		



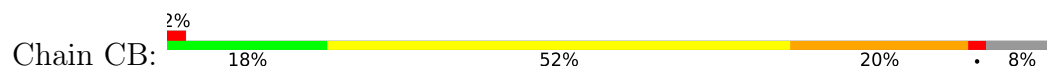


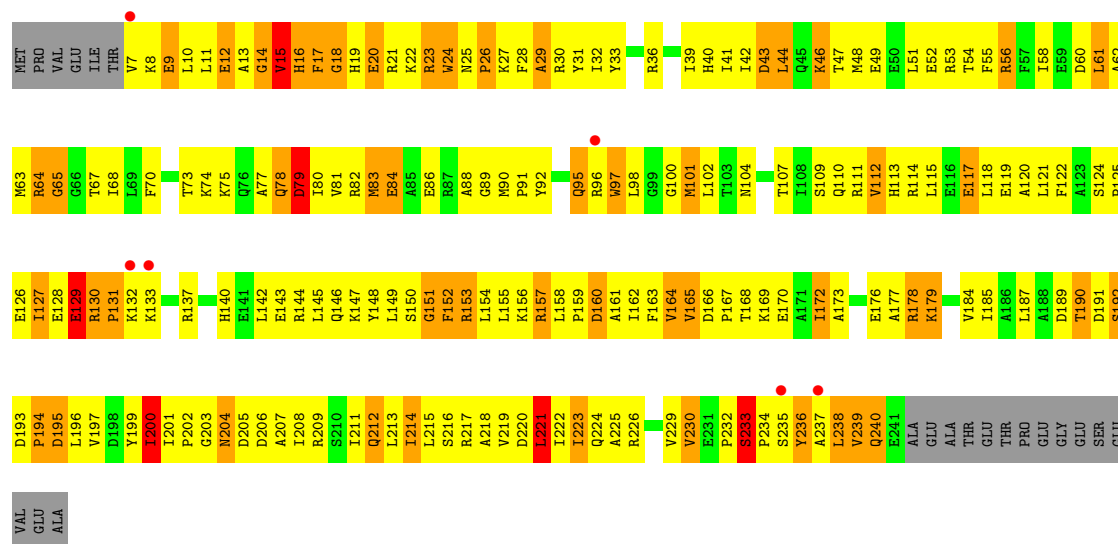


- Molecule 2: 30S RIBOSOMAL PROTEIN S2

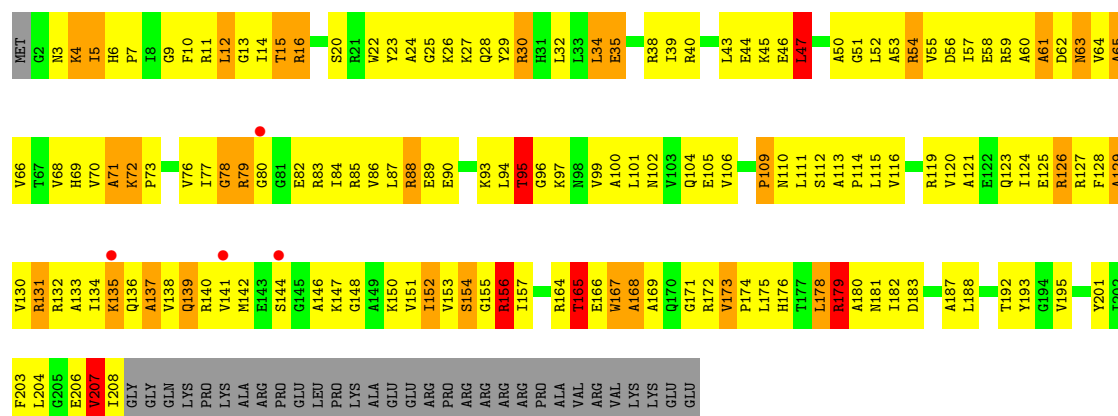


- Molecule 2: 30S RIBOSOMAL PROTEIN S2

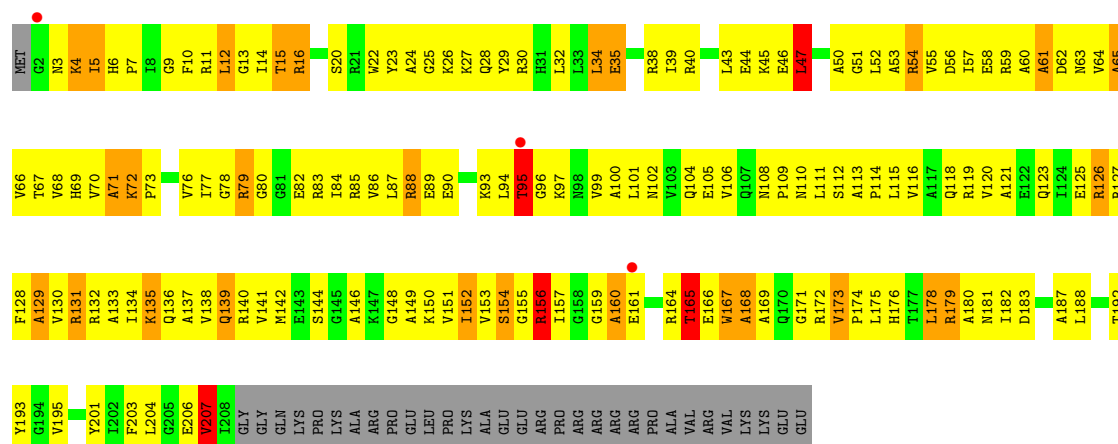




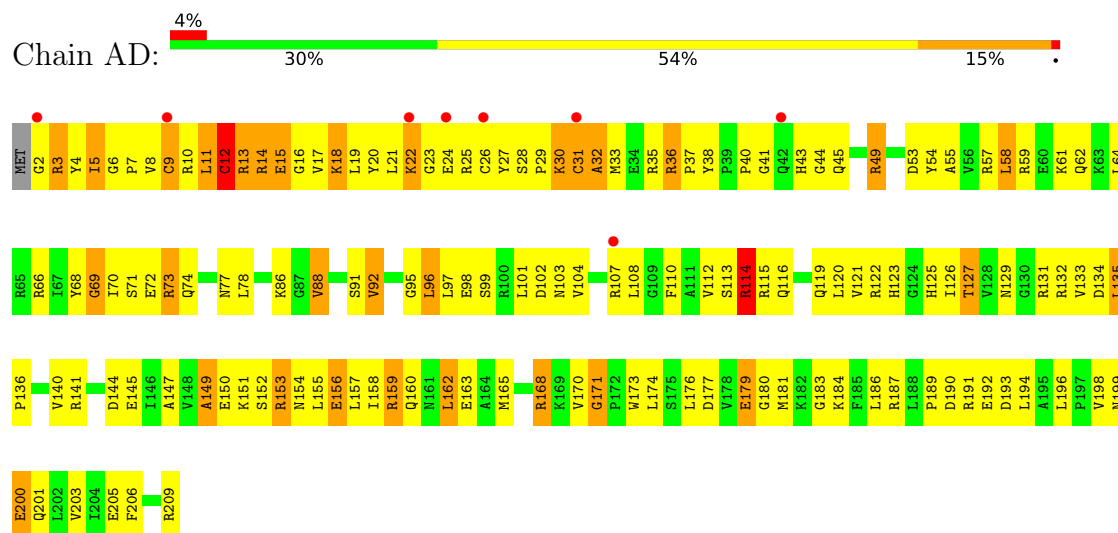
• Molecule 3: 30S RIBOSOMAL PROTEIN S3



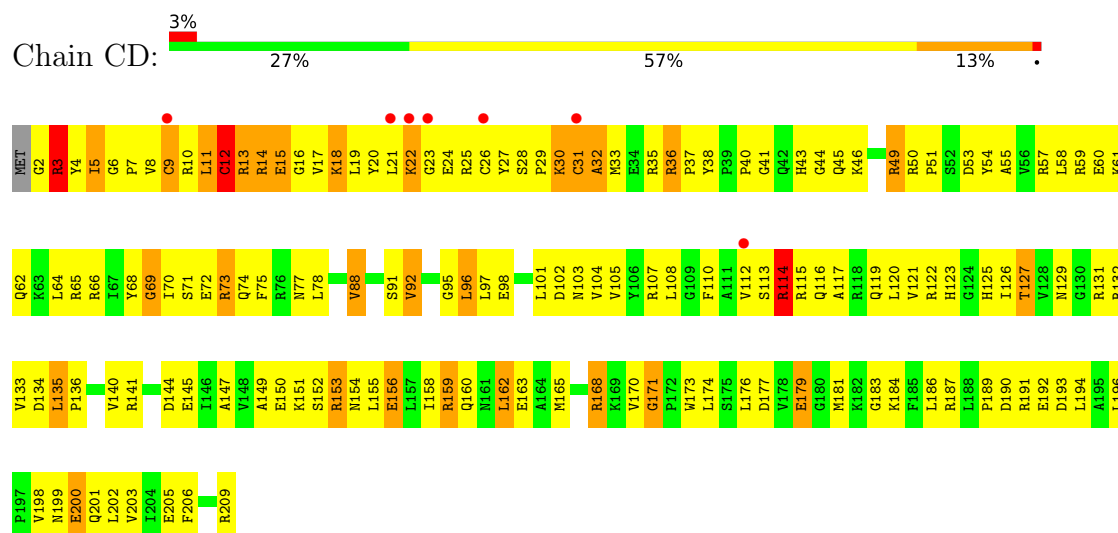
• Molecule 3: 30S RIBOSOMAL PROTEIN S3



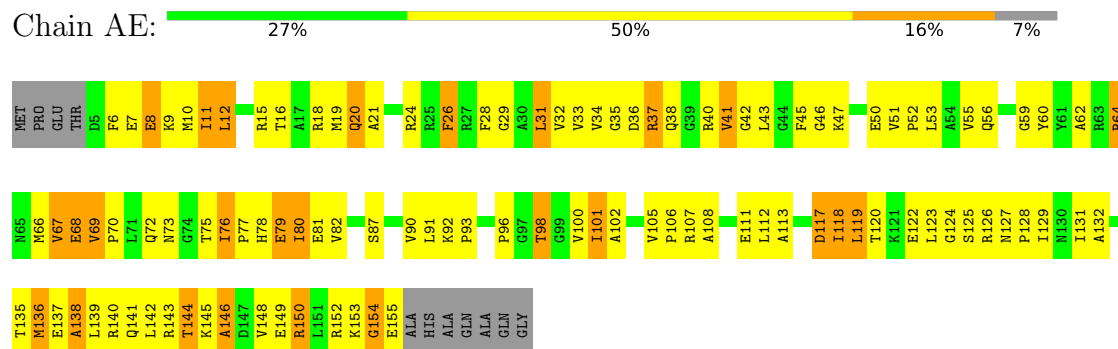
• Molecule 4: 30S RIBOSOMAL PROTEIN S4



• Molecule 4: 30S RIBOSOMAL PROTEIN S4

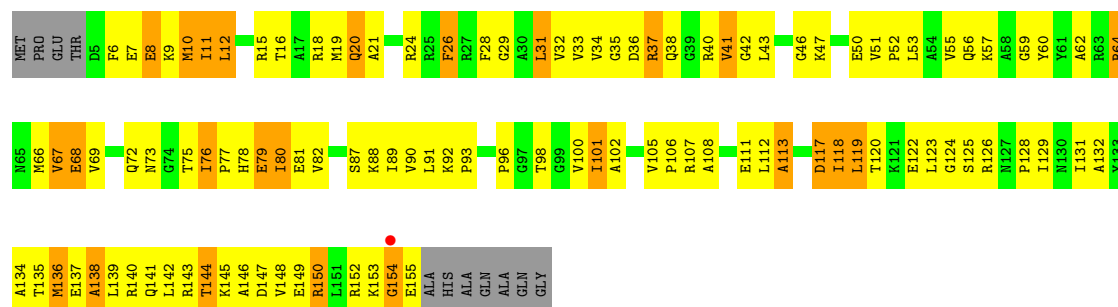


• Molecule 5: 30S RIBOSOMAL PROTEIN S5

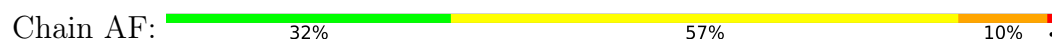


• Molecule 5: 30S RIBOSOMAL PROTEIN S5

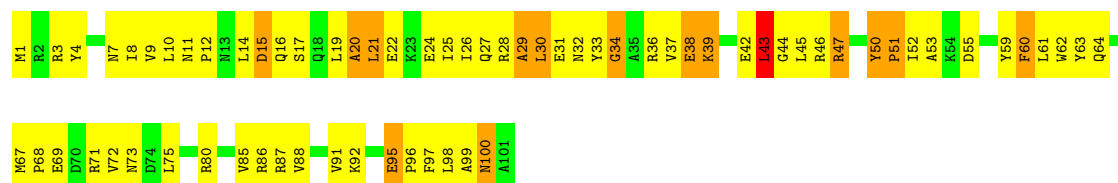




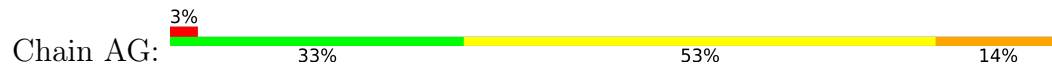
• Molecule 6: 30S RIBOSOMAL PROTEIN S6



• Molecule 6: 30S RIBOSOMAL PROTEIN S6

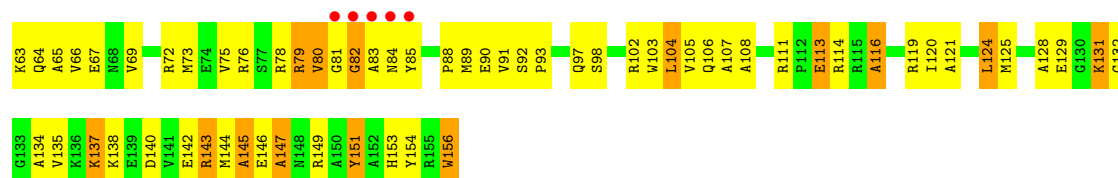


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

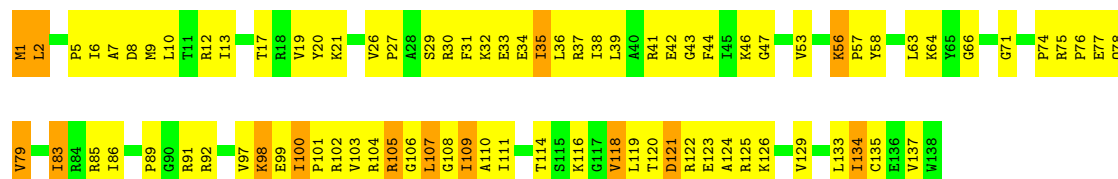


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

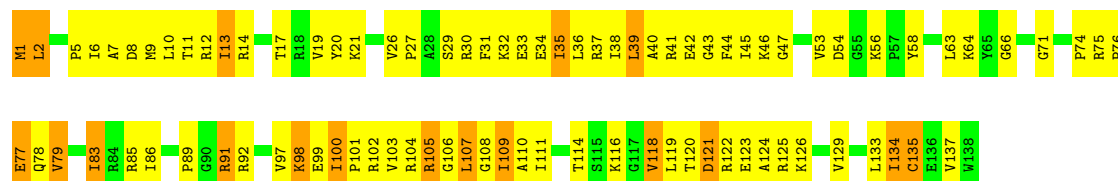




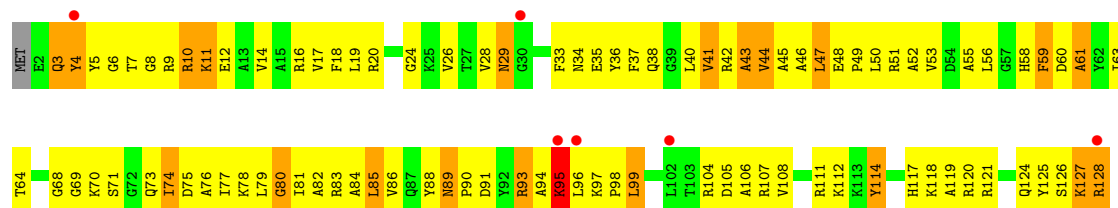
• Molecule 8: 30S RIBOSOMAL PROTEIN S8



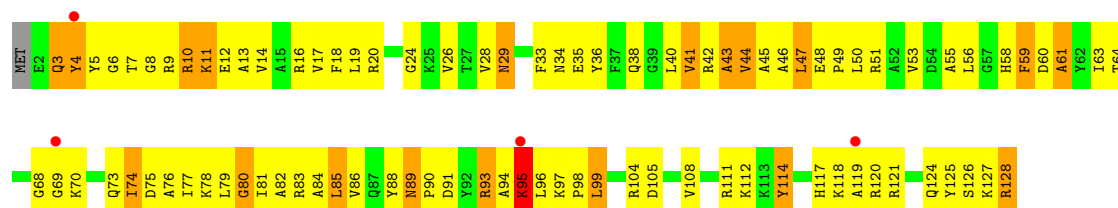
• Molecule 8: 30S RIBOSOMAL PROTEIN S8



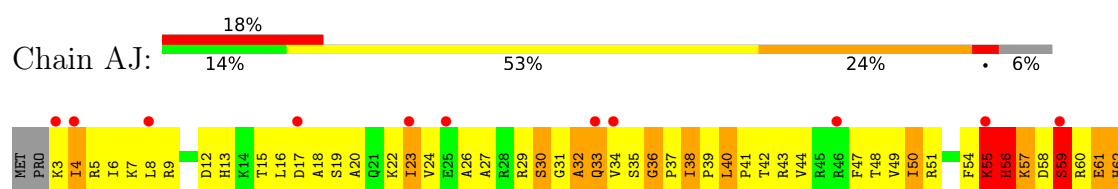
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



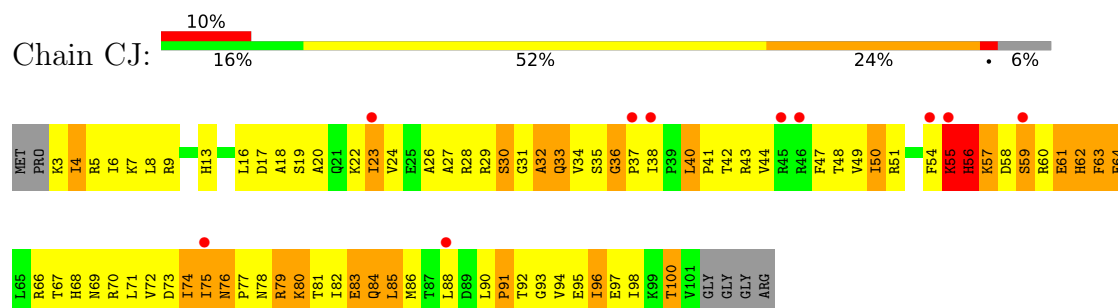
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



• Molecule 10: 30S RIBOSOMAL PROTEIN S10



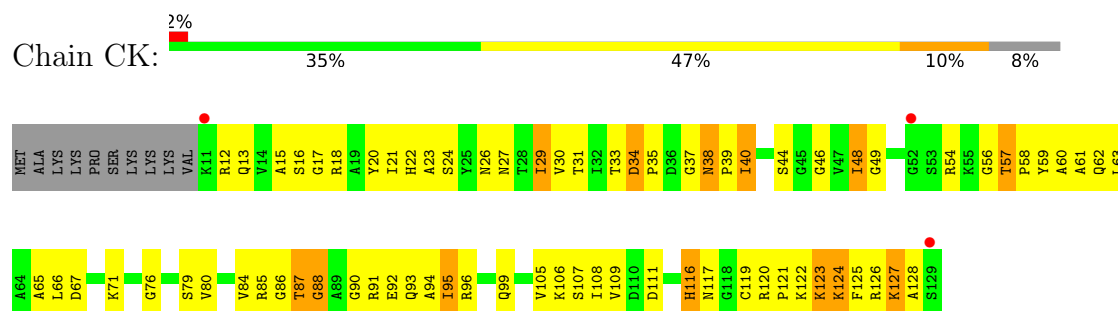
• Molecule 10: 30S RIBOSOMAL PROTEIN S10



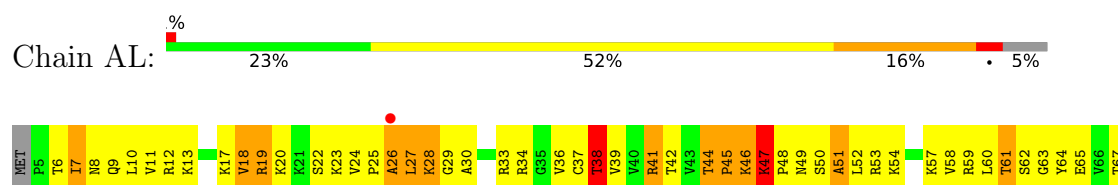
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

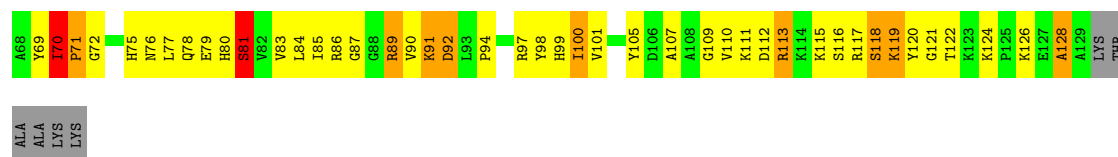


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

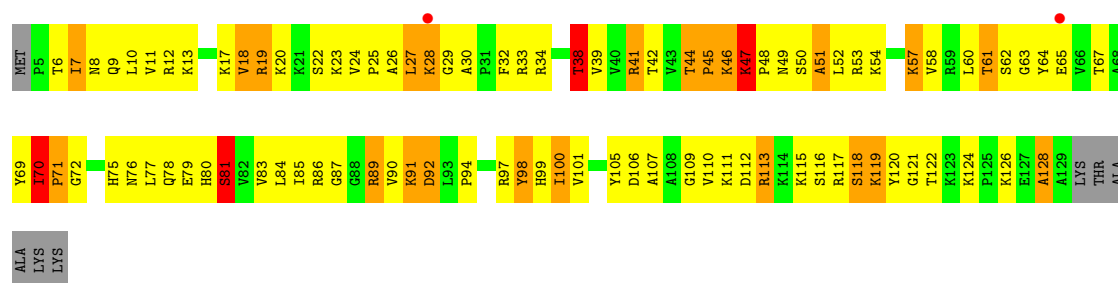


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

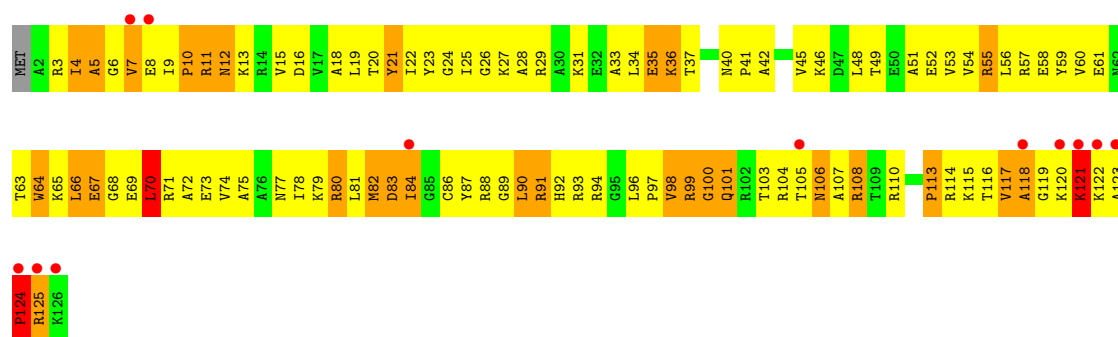
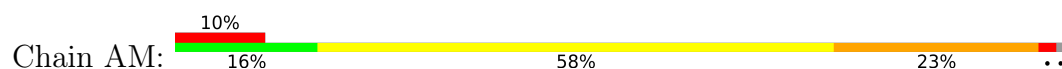




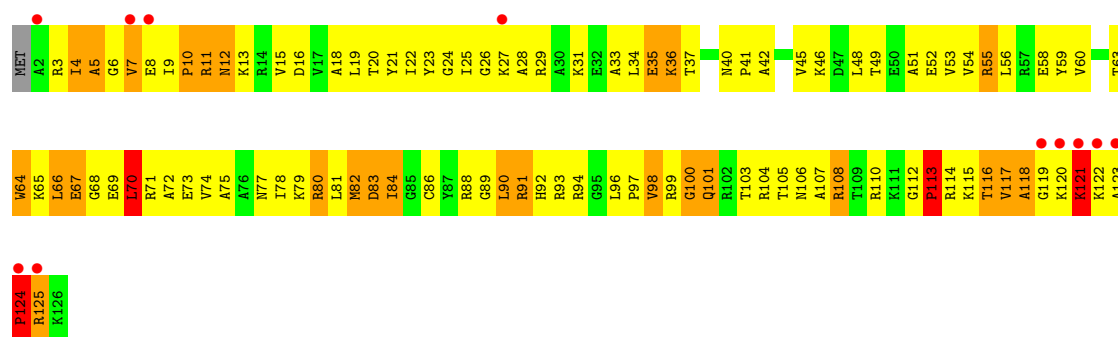
• Molecule 12: 30S RIBOSOMAL PROTEIN S12



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

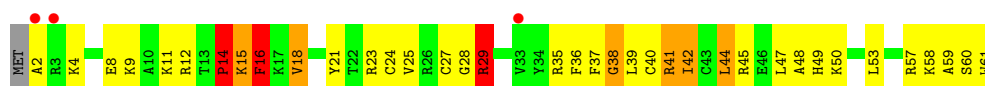


• Molecule 13: 30S RIBOSOMAL PROTEIN S13



• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

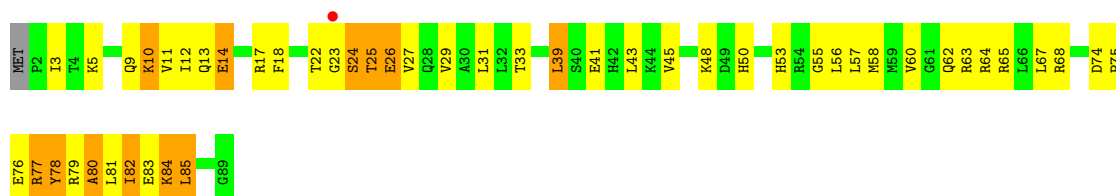




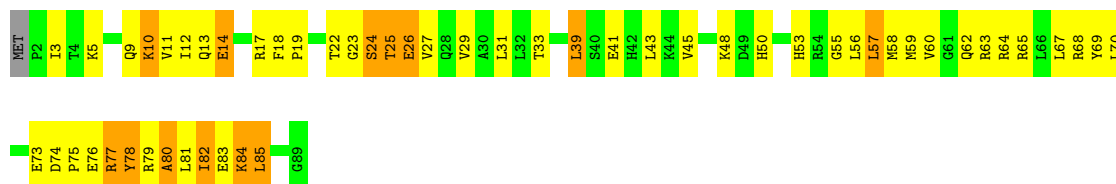
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



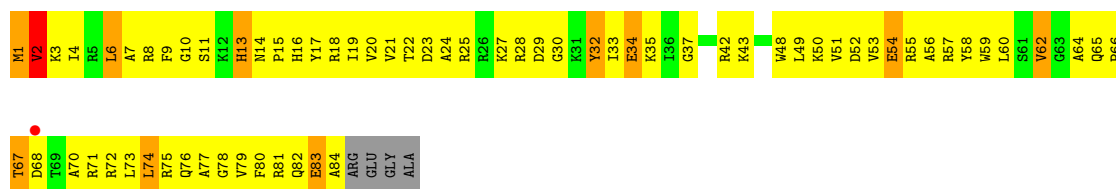
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



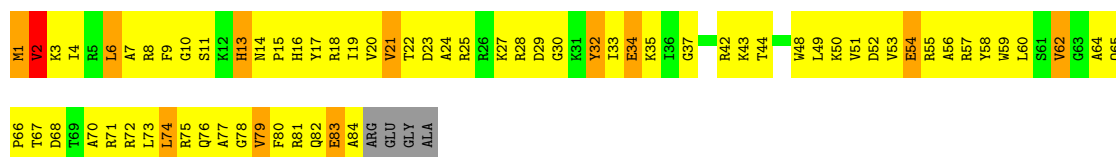
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



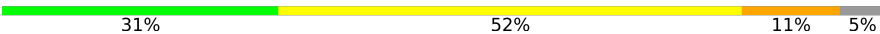
• Molecule 16: 30S RIBOSOMAL PROTEIN S16

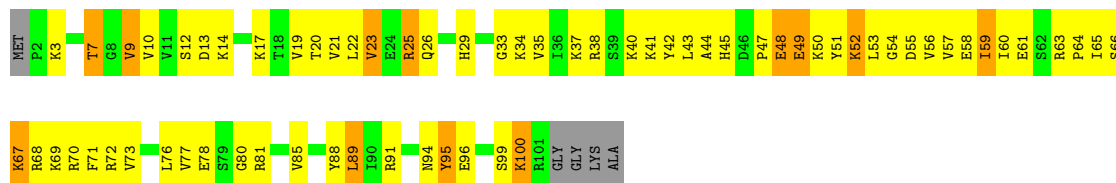


• Molecule 16: 30S RIBOSOMAL PROTEIN S16



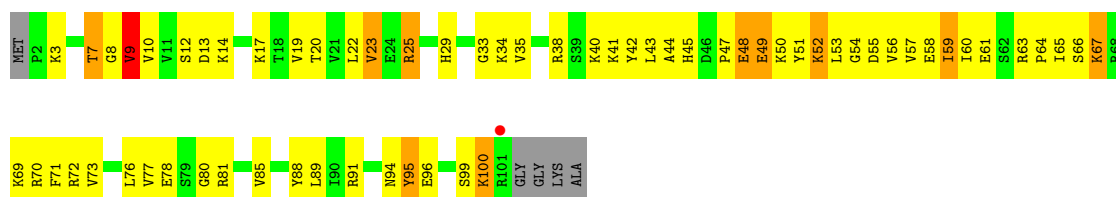
- Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AQ:  31% 52% 11% 5%

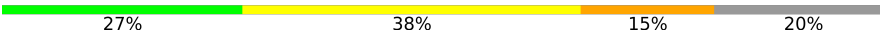


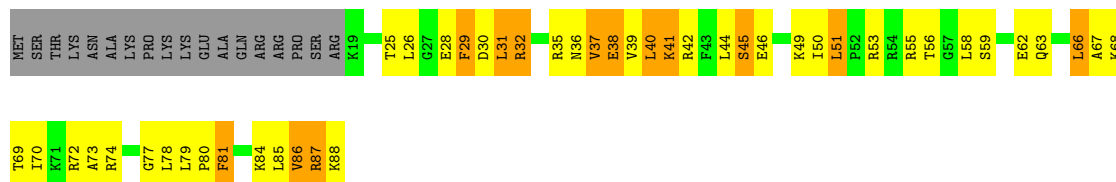
- Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain CQ:  34% 50% 10% 5%

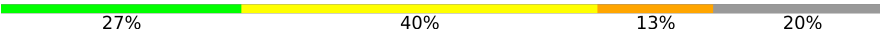


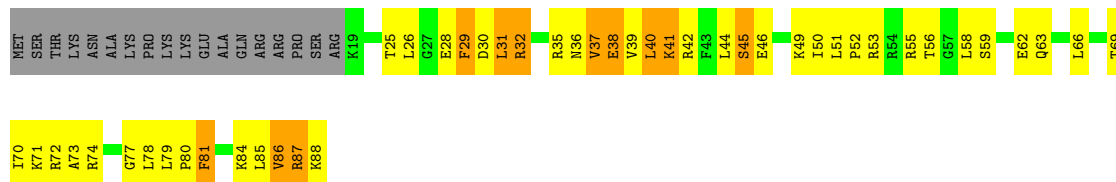
- Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AR:  27% 38% 15% 20%



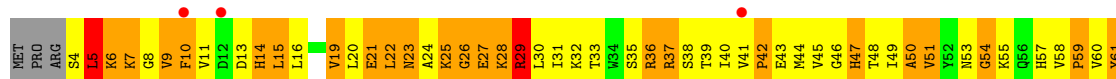
- Molecule 18: 30S RIBOSOMAL PROTEIN S18

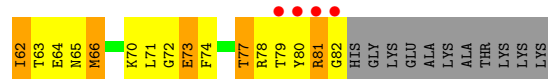
Chain CR:  27% 40% 13% 20%



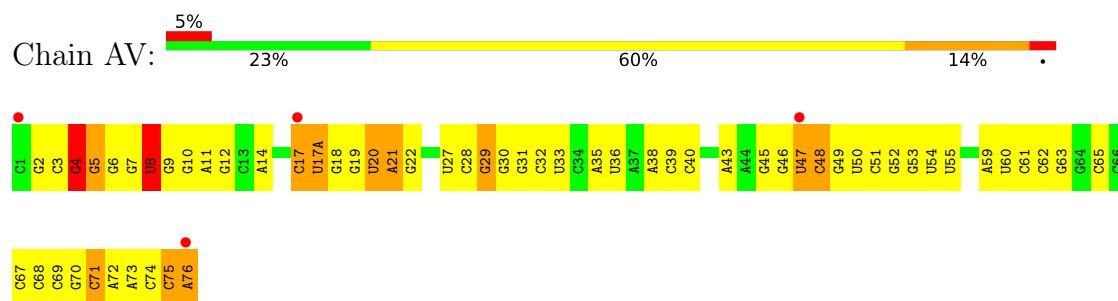
- Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AS:  12% 41% 30% 15%

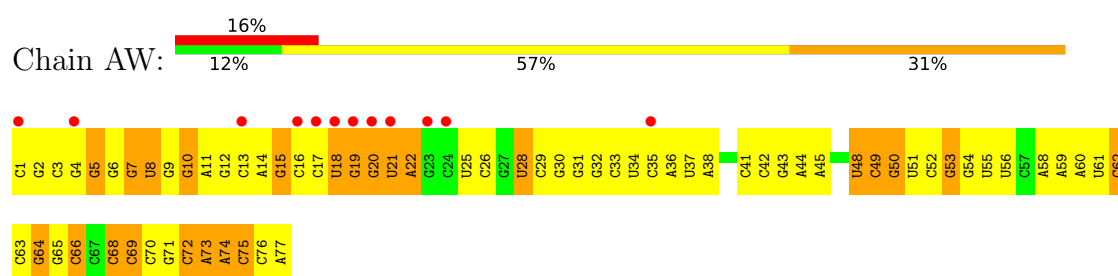




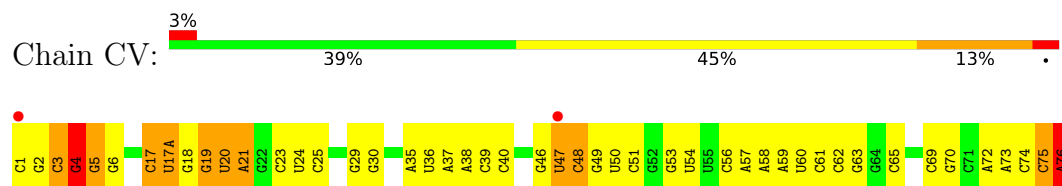
- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)



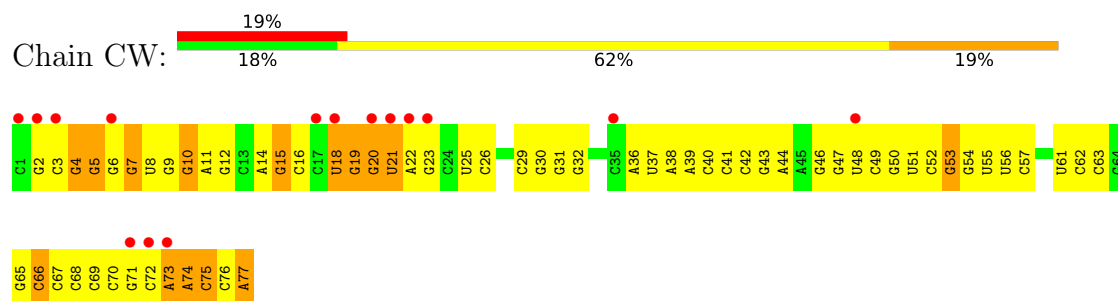
- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)



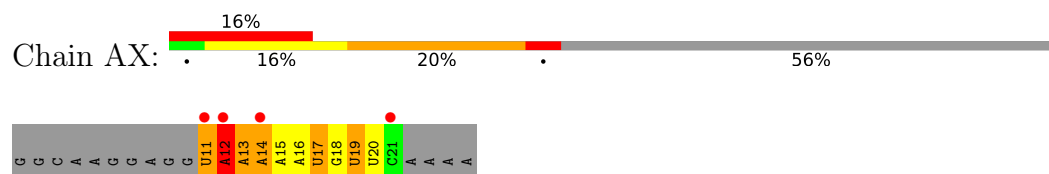
- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)



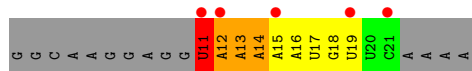
- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)



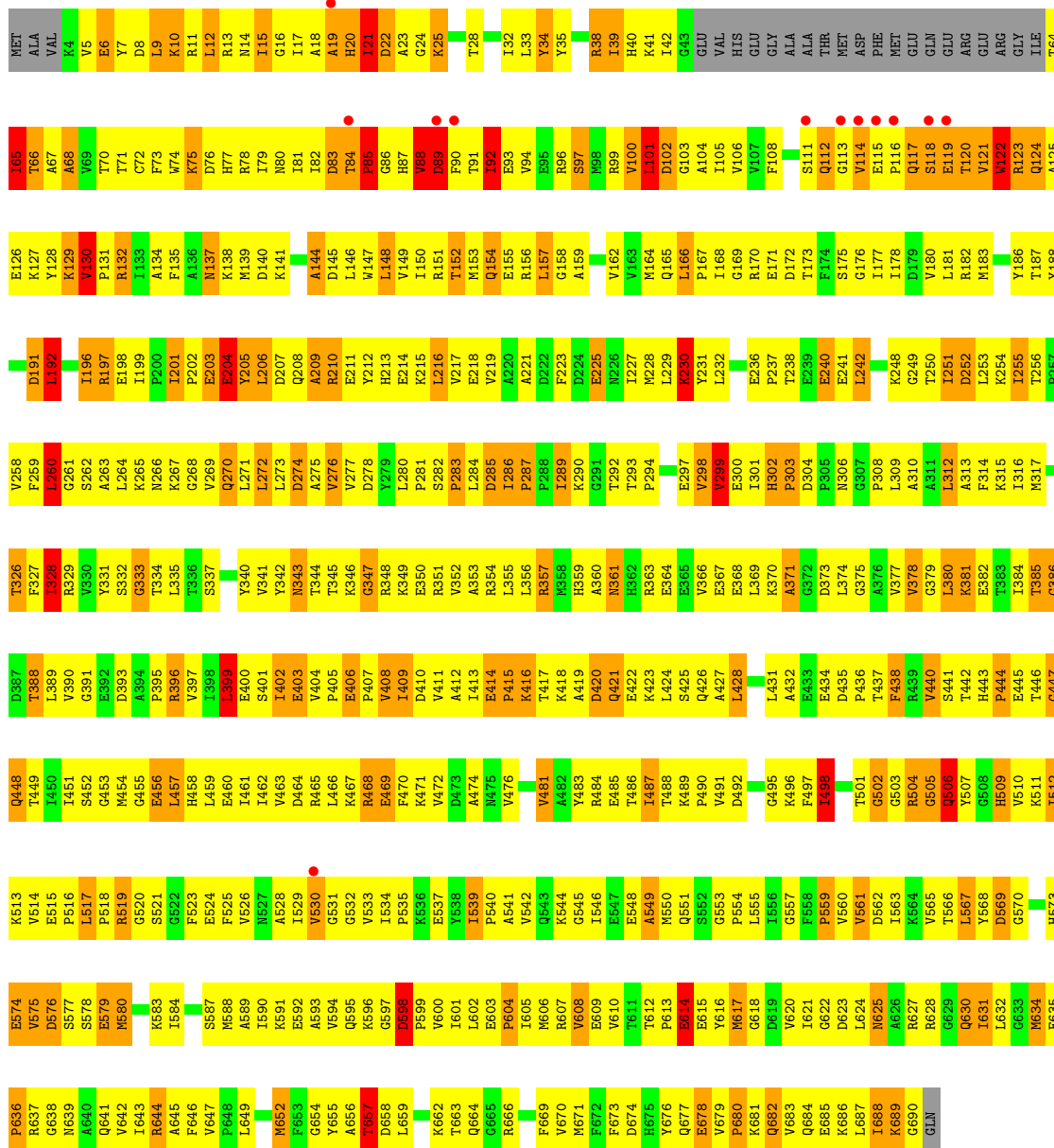
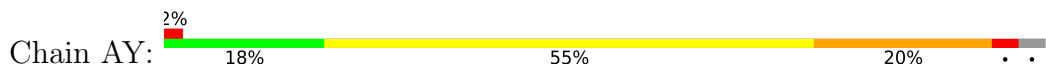
- Molecule 23: MRNA



- Molecule 23: mRNA



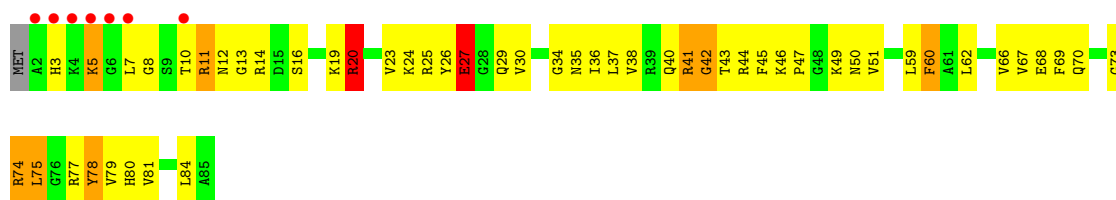
● Molecule 24: ELONGATION FACTOR G



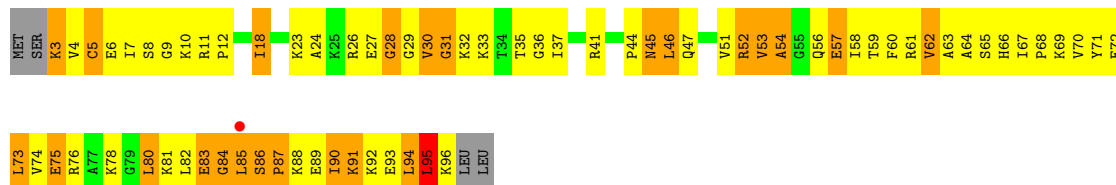
● Molecule 24: ELONGATION FACTOR G



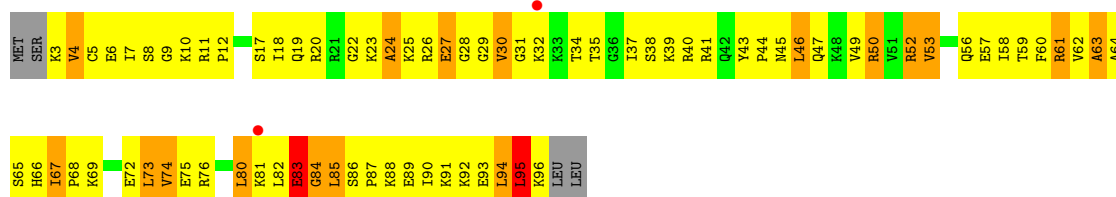




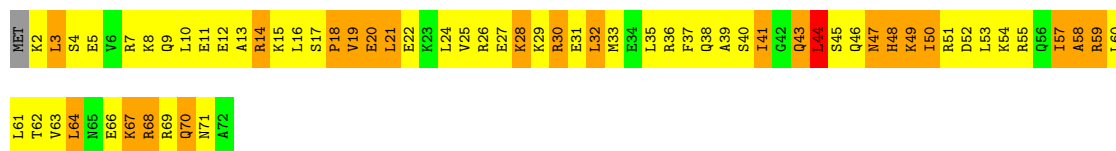
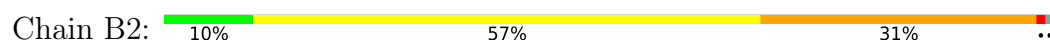
• Molecule 26: 50S RIBOSOMAL PROTEIN L28



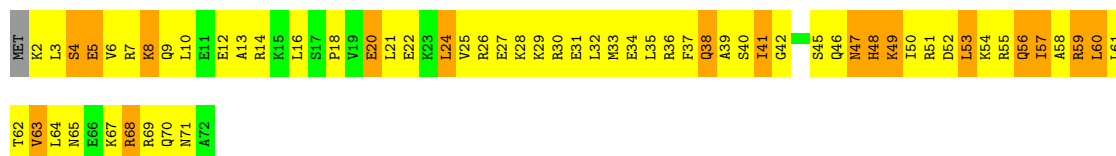
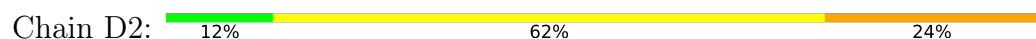
• Molecule 26: 50S RIBOSOMAL PROTEIN L28



• Molecule 27: 50S RIBOSOMAL PROTEIN L29



• Molecule 27: 50S RIBOSOMAL PROTEIN L29

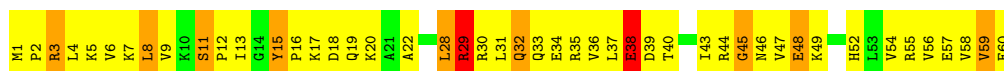


• Molecule 28: 50S RIBOSOMAL PROTEIN L30

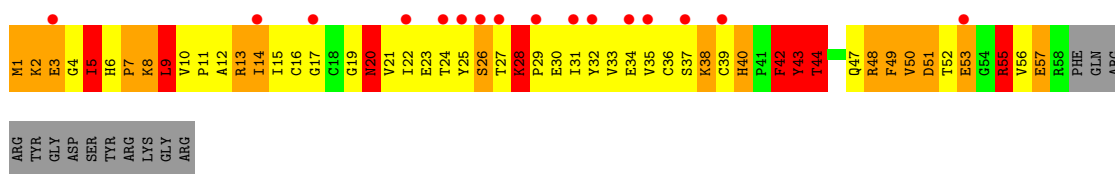




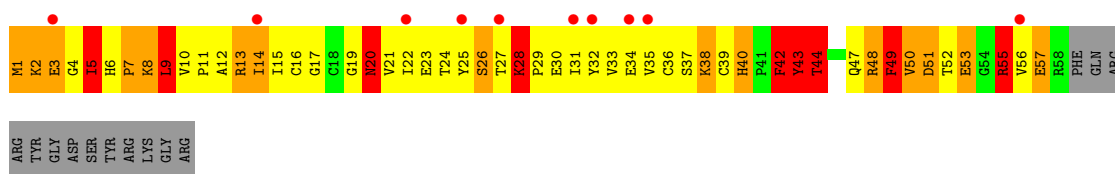
• Molecule 28: 50S RIBOSOMAL PROTEIN L30



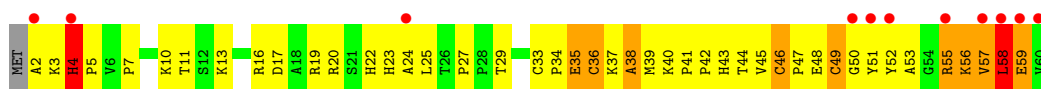
• Molecule 29: 50S RIBOSOMAL PROTEIN L31



• Molecule 29: 50S RIBOSOMAL PROTEIN L31



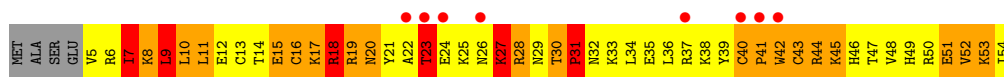
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



• Molecule 30: 50S RIBOSOMAL PROTEIN L32



• Molecule 31: 50S RIBOSOMAL PROTEIN L33



- Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain D6: 



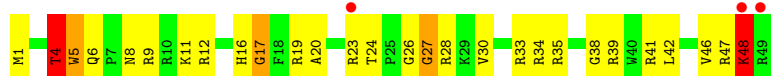
- Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain B7: 

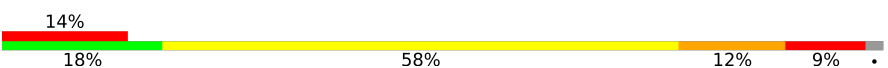


- Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain D7: 

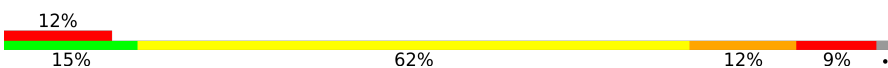


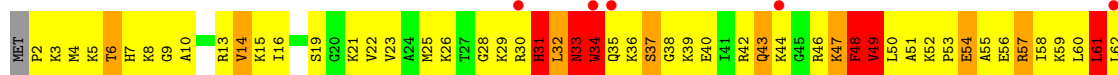
- Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain B8: 



- Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain D8: 

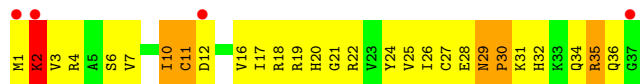


- Molecule 34: 50S RIBOSOMAL PROTEIN L36

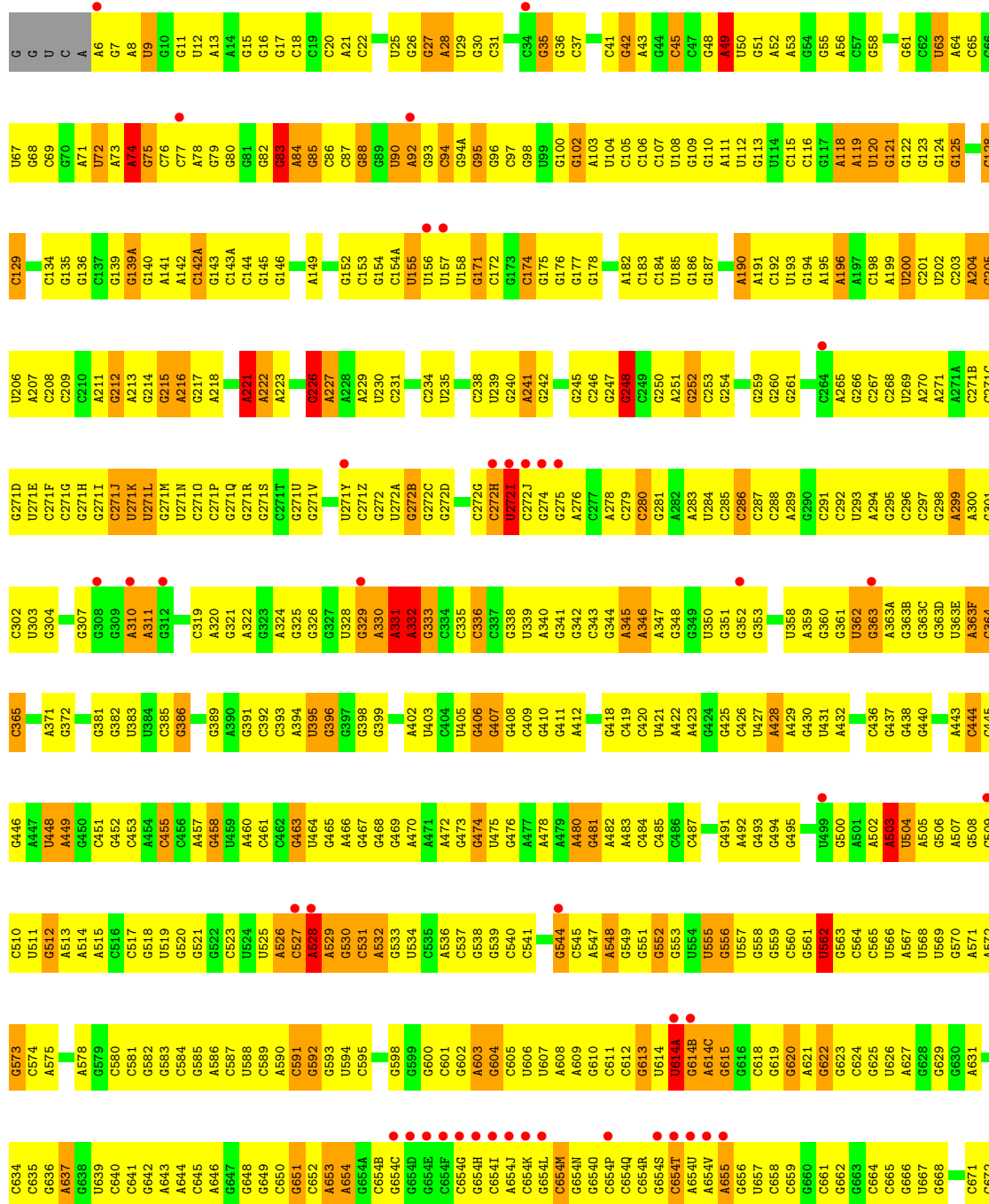
Chain B9: 



● Molecule 34: 50S RIBOSOMAL PROTEIN L36

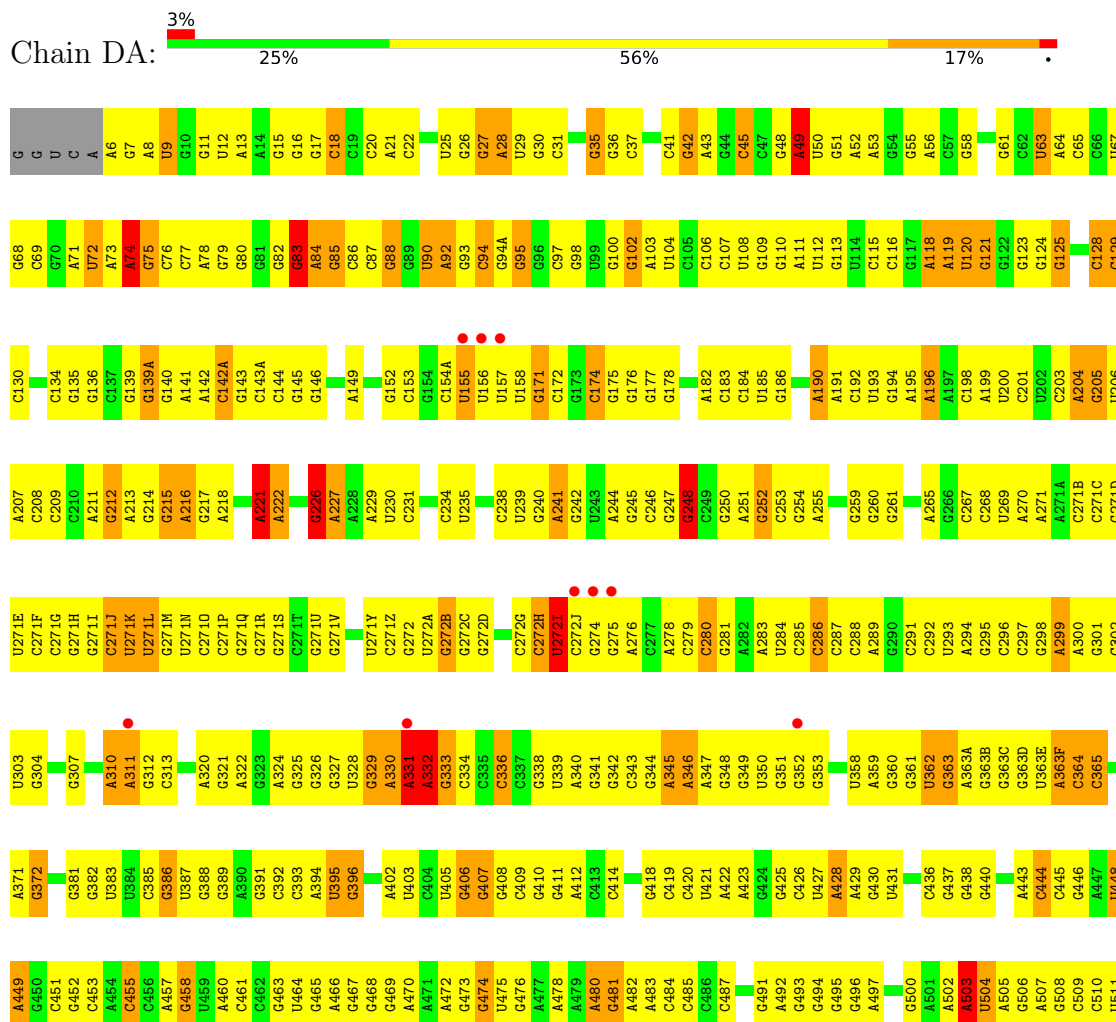
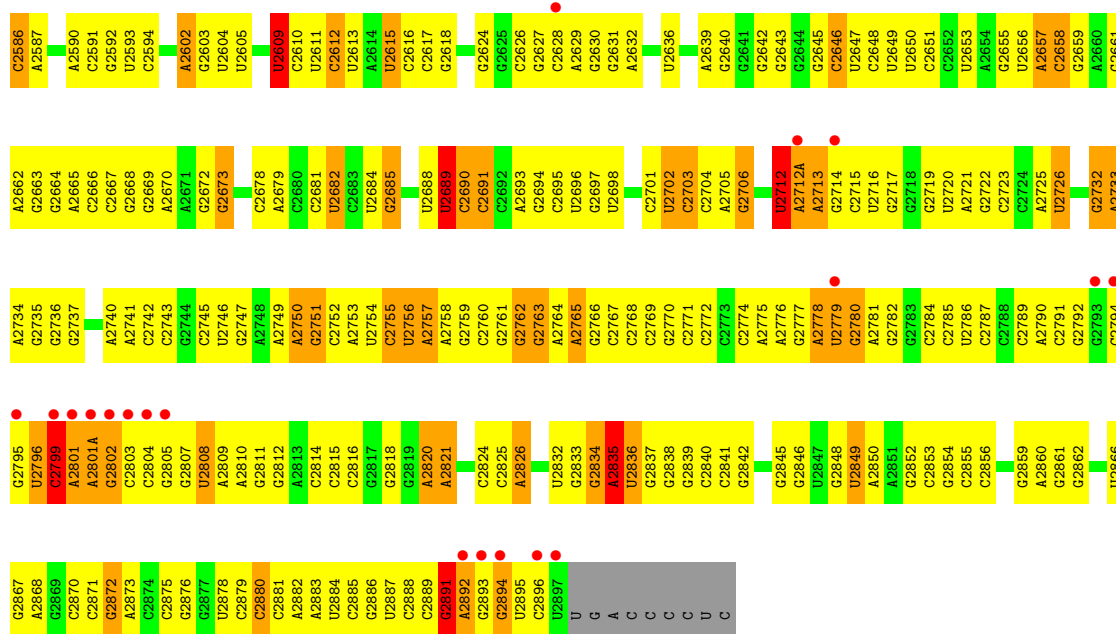


● Molecule 35: 23S RIBOSOMAL RNA



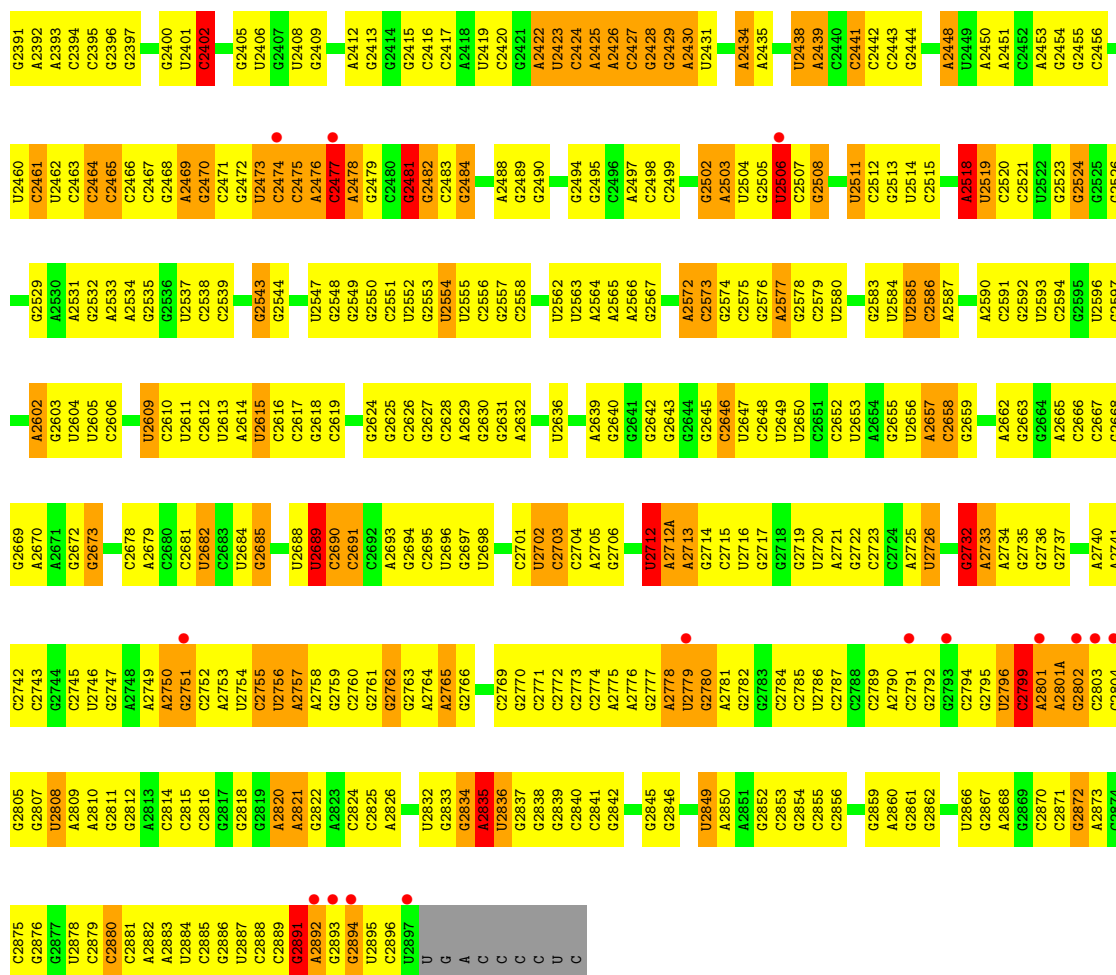
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A1528	G1459	C1386	A1322	A1253	A1189	A1126	G1062	C998	U937	U868	G805	G745	G674
A1529	A1528A	C1387	A1323	A1254	G1190	A1254	C1063	U999	G938	G869	C806	A746	A675
C1530	G1460	G1388	G1324	G1255	G1191	A1128	C1064	U1000	G939	A870	U807	U747	A676
C1531	G1461	G1389	G1325	G1256	G1192	G1192	A1001	G1001	G940	G808	G809	G748	A677
C1532	G1462	G1390	G1326	C1257	G1193	G1131	A1067	G1002	A941	G809	G808	G749	C678
C1533	C1463	U1391	U1326	C1258	C1258	A1132	G1068		G942	C876	U810	A750	C679
U1534	C1464	A1395	G1327	G1259	C1196	U1133	A1069	C1005	U943	U877	U811	A751	G680
A1535	G1465	G1396	G1328	G1260	C1197	C1135	A1070	C1006	G944	A878	C812	A752	G681
C1536	G1466	C1261	U1198	C1261	U1198	G1136	G1071	G1007	A945	G879	U813	C753	G682
C1537	C1467	U1397	C1330	G1262	U1205	G1137	C1072	C1008	G946	G880	C814	C754	G683
G1538	A1472	U1263	A1331	U1263	G1203	G1138	A1073	A1009	G947	G881	C815	C755	G684
G1539	G1473	G1332	G1332	G1264	A1204	G1139	G1074	A1010	G948	G882	C816	C756	A685
U1540	G1474	C1333	G1333	A1265	U1205	G1140	C1075	G1011	C949	G883	C817	U757	C686
G1541	G1475	G1334	G1334	G1266	G1206	U1141	C1076	U1012	G950	C884	G818	G758	C687
A1542	C1476	U1267	U1335	A1267	G1209	U1142	A1077	C1013	C951	C885	G821	G759	U688
C1543	A1477	A1336	A1336	A1268	A1268	A142A	U1078	U1014	G952	C886	G822	G760	A689
A1544	G1478	G1337	G1337	C1270	U1211	G1144	C1080	G1016	G954	A887	G823	G761	G690
A1545		G1338	G1338	G1271	G1212	C1145	U1081		C955	C888	G824	U762	G691
A1546		U1341	U1341	A1272	A1213	C1146	A1084	U1019	U958	C889	A824	G763	U694
C1551	G1482	C1407	A1342	U1273	A1214	C1147	A1088	A1020	U959	A890	C825	A764	G695
G1552	G1484	C1408	G1343	A1274	G1215	A1148	A1089	A1021	A958	C892	U826	G765	G696
A1553	A1486	G1344	G1344	G1275	G1216	G1149	U1089	G1022	A960	C893	U827	C766	
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G1555	G1488	G1346	G1346	G1277	C1218	G1151	U1091	G1024	G962	U895	A829	G768	G700
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C1557	G1490	G1416	G1348	A1279	A1220	C1153	U1092	U1026	C964		G832	G770	G702
A1558	G1491	C1417	A1349	G1279	C1221	G1154	G1093	A1027	C965	A900	G833	G771	U703
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G1560	C1493	G1421	C1351	A1286	C1222	A1156	A1095	A1029	C967	C902	A835	U773	A705
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A1495	A1495	C1353	C1353	U1288	C1224	C1158	U1097		U969	C904	G837	U775	G707
A1562	C1496	A1354	G1354	C1289	G1225	C1159	A1098	U1033	C970	U905	C838	U776	C708
G1563	U1497	G1355	G1355	C1290	A1226	G1160	G1099	G1034	C971	G906	U839	U777	U709
C1564	C1498	G1356	G1356	C1291	G1227	C1161	U1100	U1035	G972	G907	C840	U778	G710
G1565	C1499	U1357	U1357	U1292	G1228	G1162	U1101	G1036	G973	U907	G841	U779	G711
A1566	G1500	G1358	G1358		G1229	G1163	C1102	G1037	G974	A909	G842	U780	
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G1568	U1503	C1432	A1360	G1296	G1231	U1165	C1104	G1039	G976	A911	A845	A782	C719
A1569	C1504	G1361	G1361	C1297	G1232	C1166	U1105	C1040	C976	G912	A783	C720	C720
A1570	C1505	G1362	C1362	C1298	C1233	U1167	G1106	U1041	G977	U913	A784	A722	C721
A1571	C1506	G1363	G1363	G1299	C1234	G1168	G1107	G1042	G978	C914	G848	A723	A722
A1572		G1364	G1364	U1300	U1235	G1169	U1108	G1043	G979	C915	A849	G723	C721
C1573	C1509	U1438	A1365	A1301	G1236	G1170	C1109	G1044	A880	G916	U851	U724	U724
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C1575	A1509B	G1440	A1367	G1238	G1238	G1173	A1111	U1046	C982	G852	A769	G726	G726
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C1577	C1511	G1442	G1368	C1305	G1240	U1175	U1113	A1048	G984	G854	G792	G728	G728
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	U1514	C1376	C1376	A1308	G1243		C1116	G1051	C986	C925	G794		
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A1587	C1450A	G1381	G1381	C1315	G1248	G1184	C1121	A1057	C992	G931	A800	U740	U740
C1588	C1451	G1382	G1382	U1316	U1249	G1185	G1122	G1058	G993	A933	A802	G741	G741
A1589	A1452	C1383	C1383	U1317	G1250	G1186	C1123	G1059	G934	C865	A802	G742	G742
U1590	G1526	U1453	A1384	C1318	C1251	G1187	C1124	U1060	A996	C935	U803	G743	G743

U2519	A2451	G2384	C2313	G2237	C2164	G2100	G2032	A1960	C1892	A1819	G1753	C1662	G1591
C2520	C2452	C2385	C2314	G2238	G2167	C2103	A2033	U1963	G1899	U1820	C1754	C1663	G1594
C2521	A2453	C2386	G2315	G2239	U2168	G2104	U2034	U1964	A1900	A1821	G1759	A1664	A1595
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G2525	G2457	G2390	G2319	U2243	U2172	G2107	C2039	G1969	G1904	A1825	G1764	A1669	C1599
G2526	U2460	A2392	A2320	U2244	A2173	G2108	C2040	A1970	C1905	G1826	G1765	C1670	C1600
G2529	C2461	A2393	G2321	U2245	G2174	G2110	C2041	A1971	G1906	G1827	G1766	G1671	G1601
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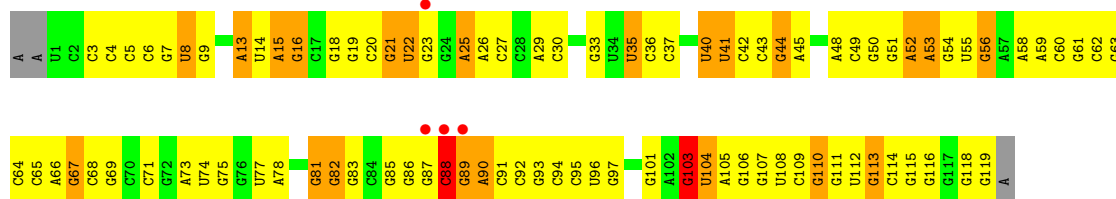


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G1380	U1255		C1064			C1064	C999	C938	U871	A800		A670	G630	G630
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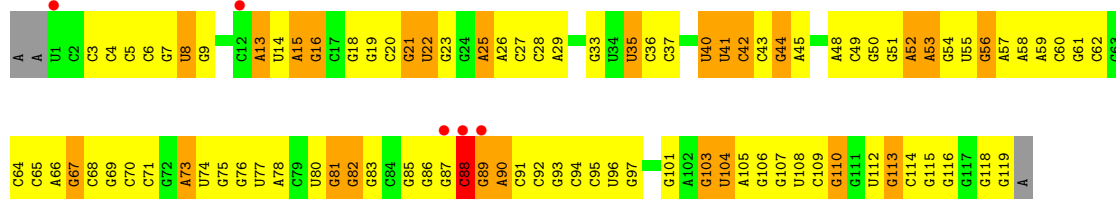
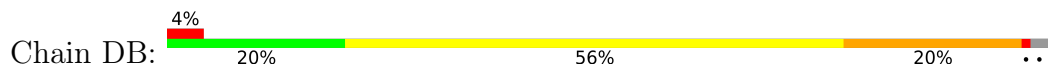




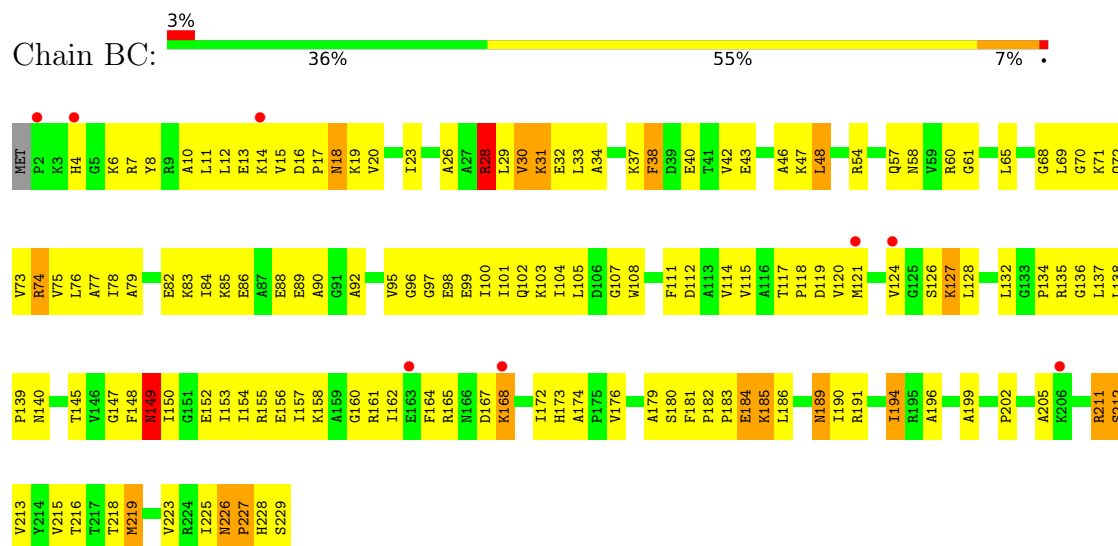
• Molecule 36: 5S RIBOSOMAL RNA



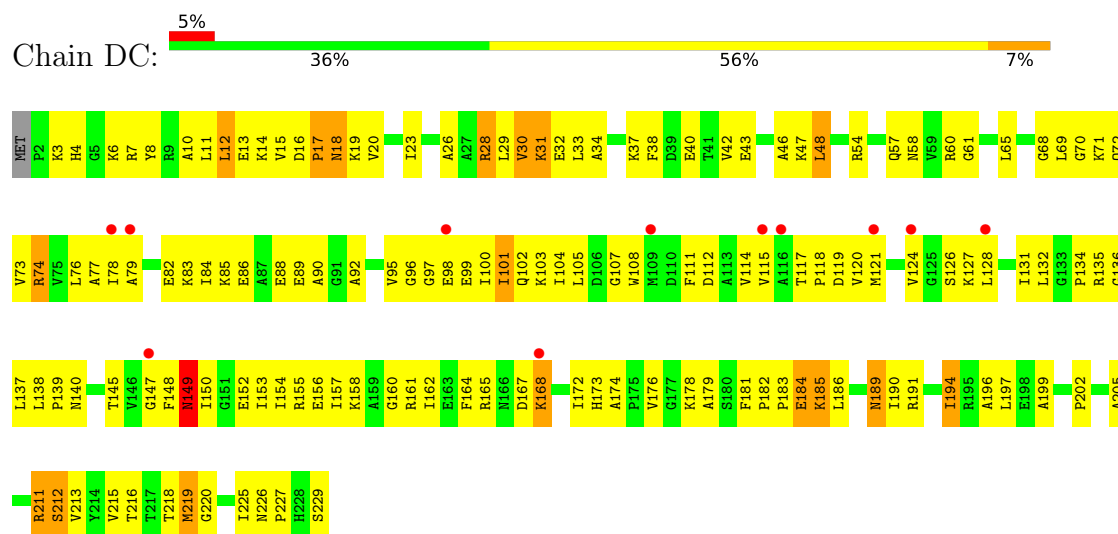
• Molecule 36: 5S RIBOSOMAL RNA



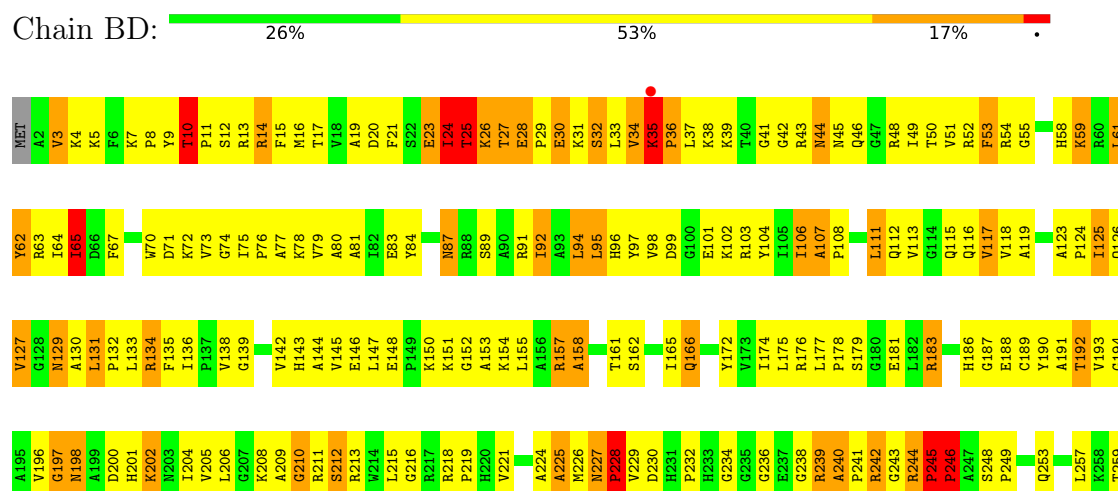
- Molecule 37: 50S RIBOSOMAL PROTEIN L1

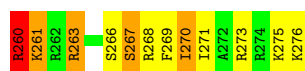


- Molecule 37: 50S RIBOSOMAL PROTEIN L1



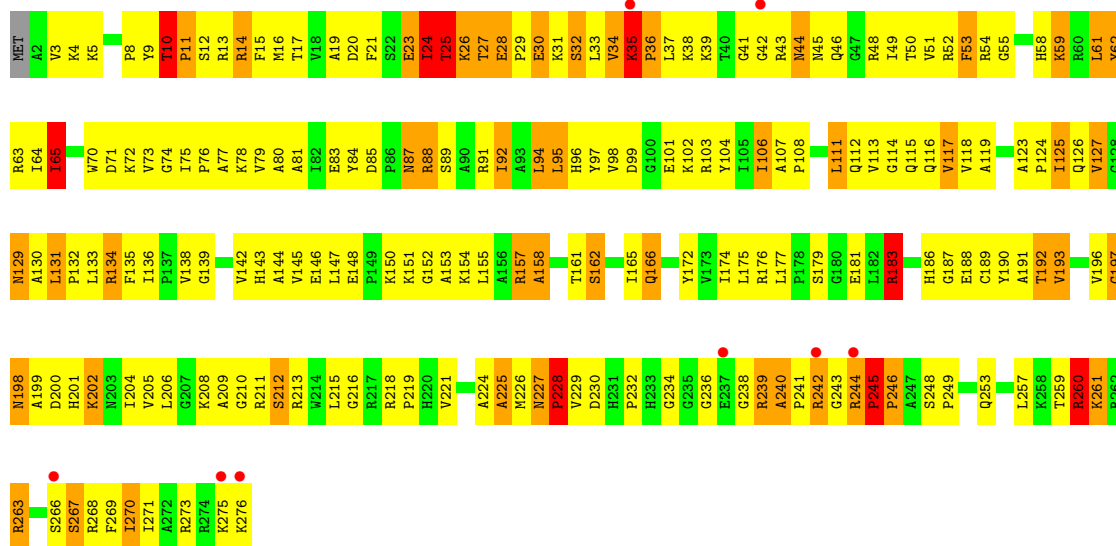
- Molecule 38: 50S RIBOSOMAL PROTEIN L2





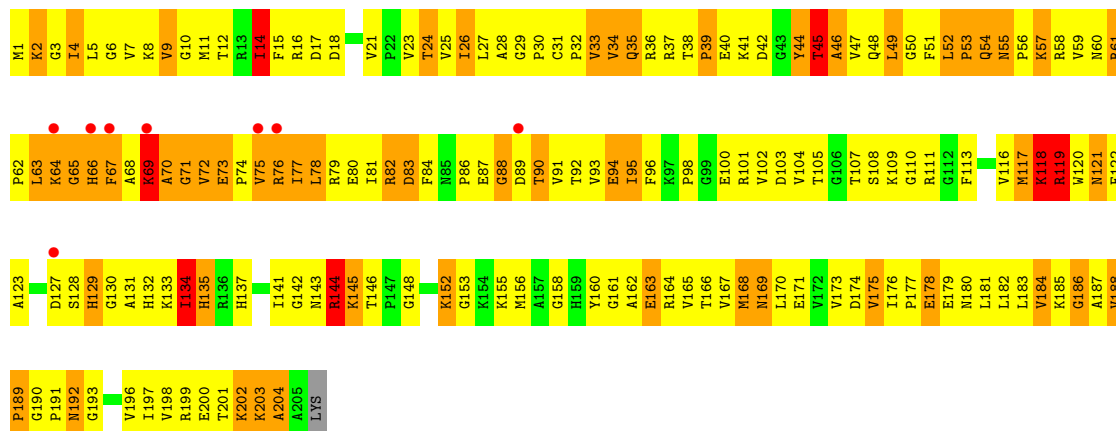
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

Chain DD: 3% 26% 53% 18%



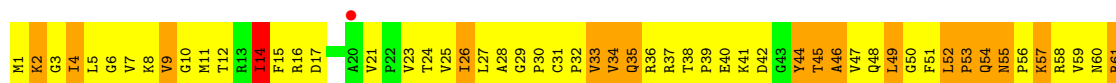
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

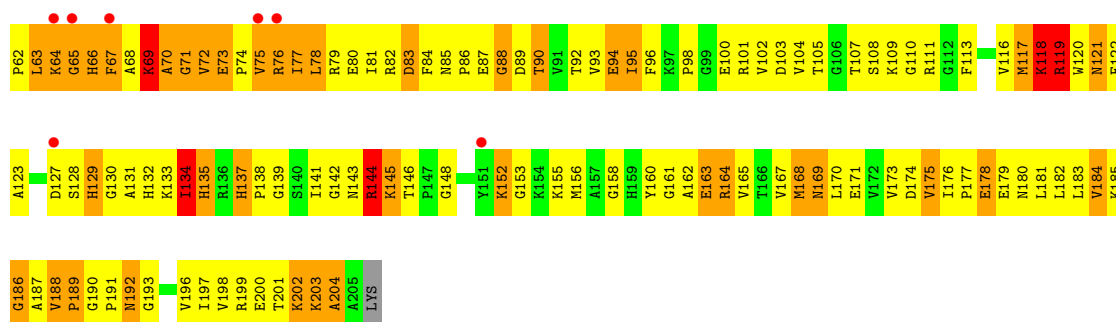
Chain BE: 4% 15% 54% 27%



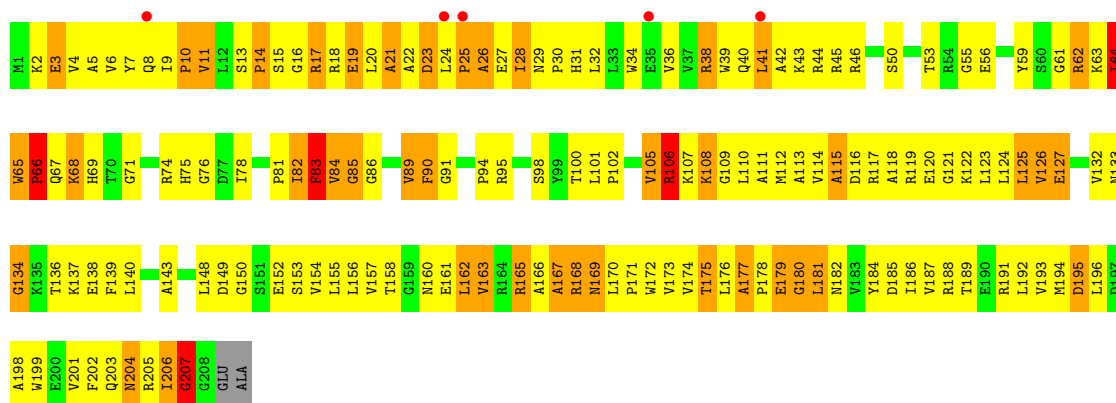
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain DE: 4% 15% 55% 27%

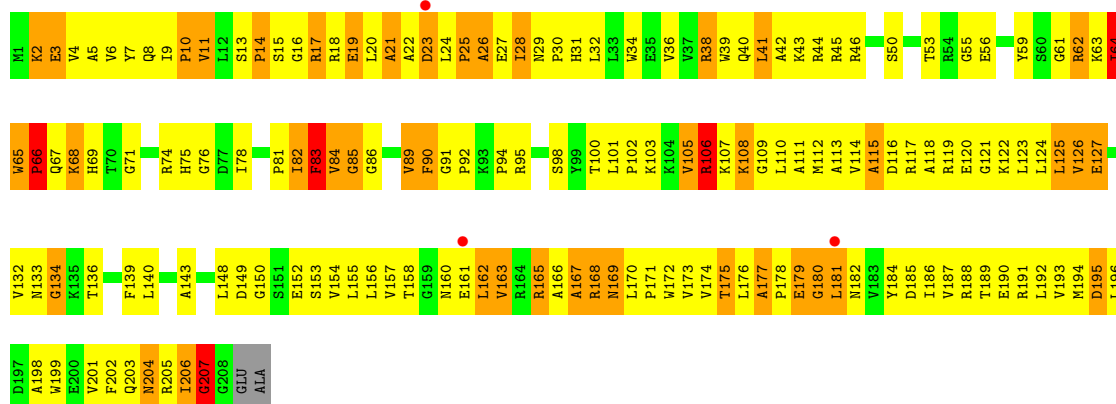




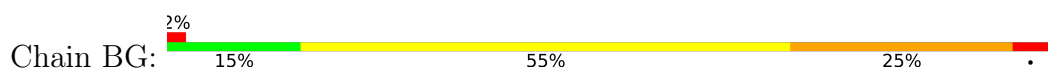
● Molecule 40: 50S RIBOSOMAL PROTEIN L4

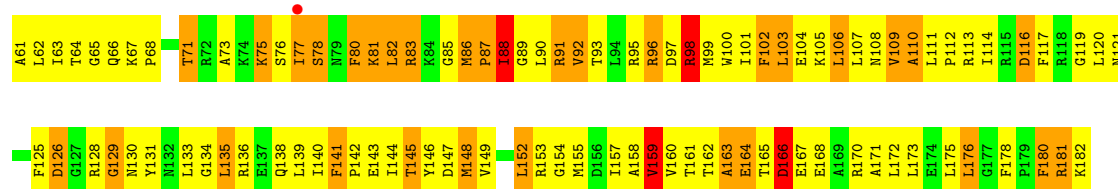


● Molecule 40: 50S RIBOSOMAL PROTEIN L4

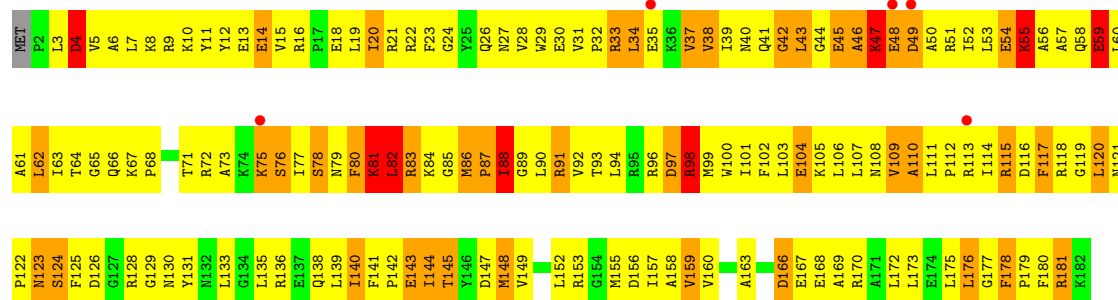
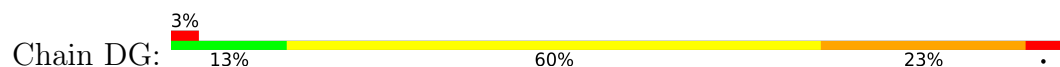


● Molecule 41: 50S RIBOSOMAL PROTEIN L5

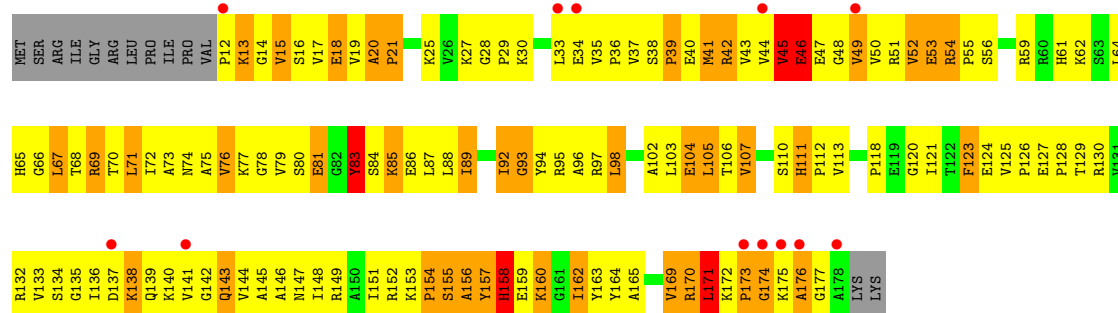
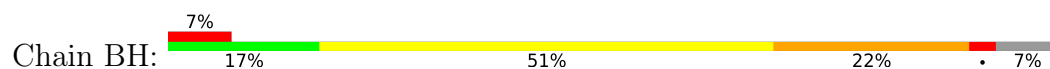




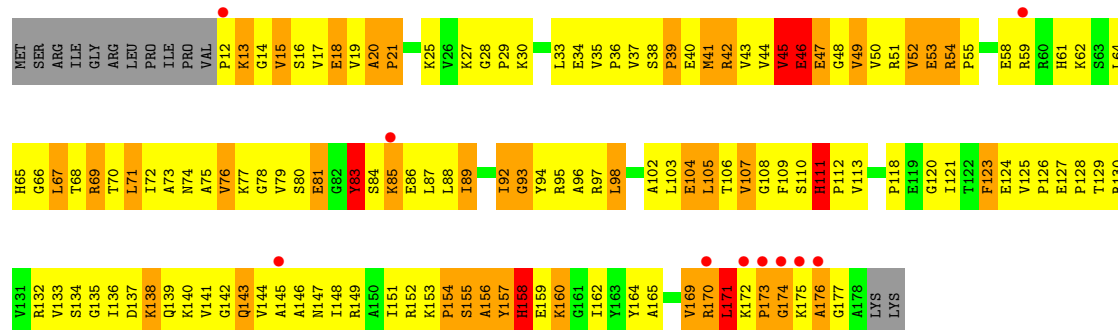
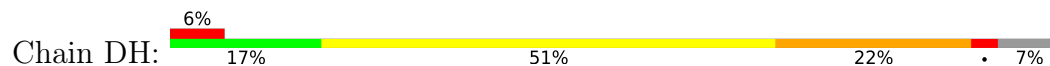
• Molecule 41: 50S RIBOSOMAL PROTEIN L5



• Molecule 42: 50S RIBOSOMAL PROTEIN L6

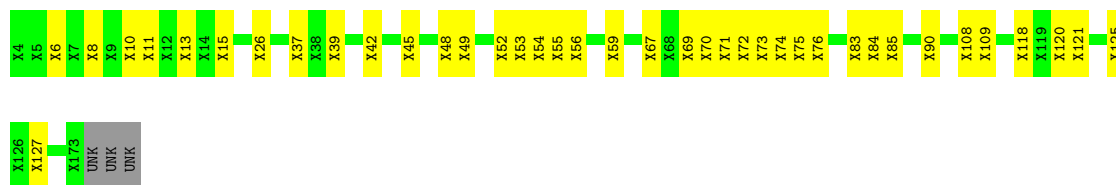


• Molecule 42: 50S RIBOSOMAL PROTEIN L6



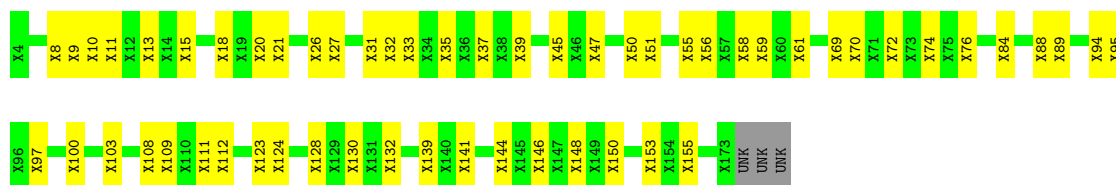
• Molecule 43: 50S RIBOSOMAL PROTEIN L10

Chain BJ:  76% 23% .

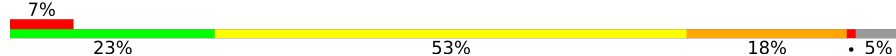


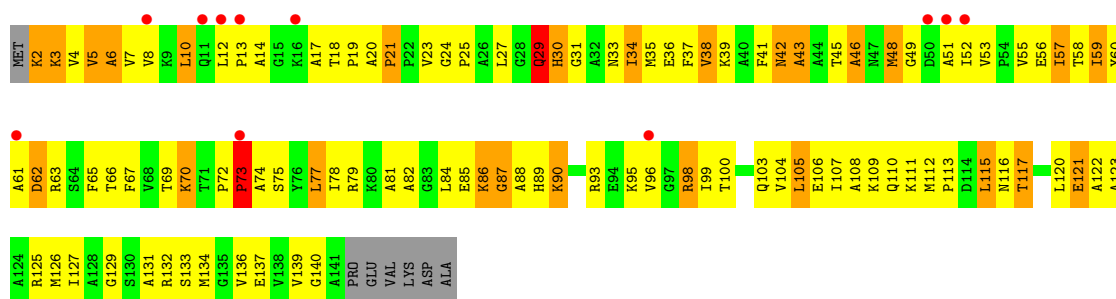
• Molecule 43: 50S RIBOSOMAL PROTEIN L10

Chain DJ:  66% 32% .

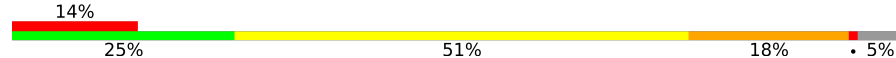


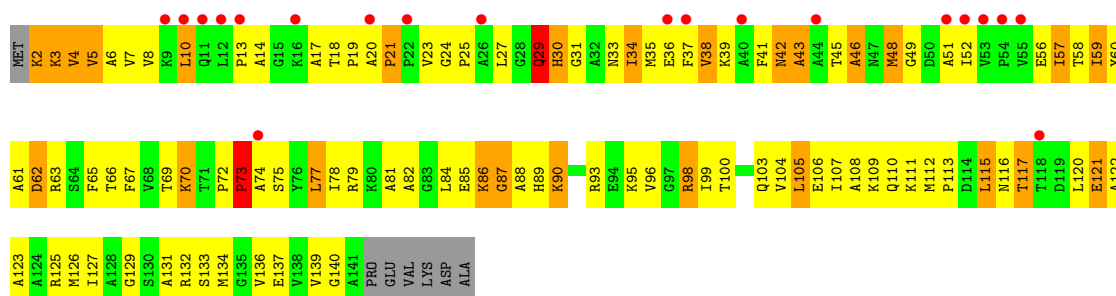
• Molecule 44: 50S RIBOSOMAL PROTEIN L11

Chain BK:  7% 23% 53% 18% 5% .



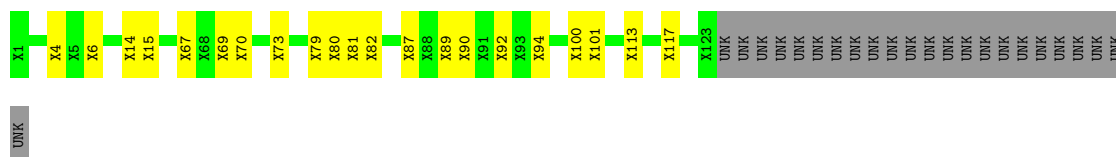
• Molecule 44: 50S RIBOSOMAL PROTEIN L11

Chain DK:  14% 25% 51% 18% 5% .



• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain BL:  65% 17% 18% .



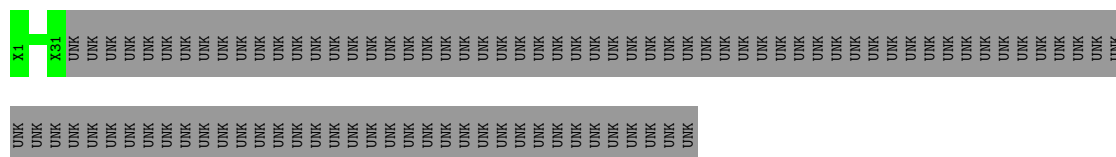
- Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain BM: 23% . 75%



- Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain BL: 25% . 75%



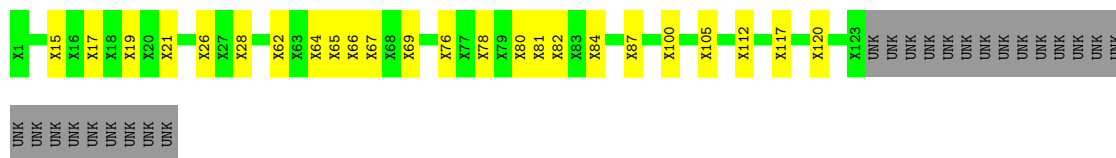
- Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain BM: 21% . 76%



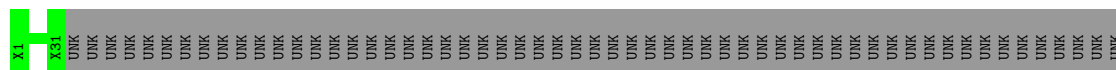
- Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain DL: 62% 19% 18%



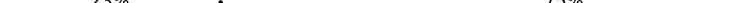
- Molecule 45: 50S RIBOSOMAL PROTEIN L12

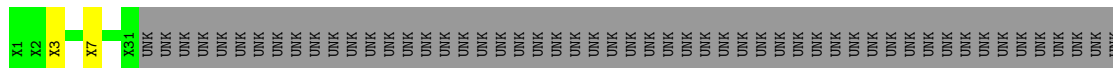
Chain DM: 25% . 75%



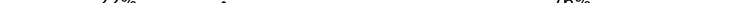
[illegible]

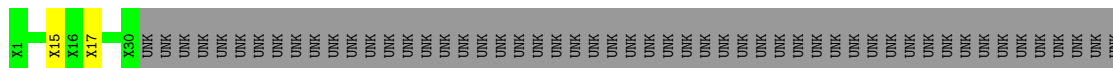
● Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain ID:  23% . 75%

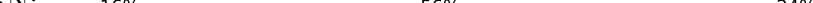
[illegible]

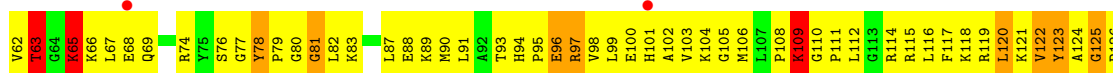
• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain Dm:  22% 0% 76%

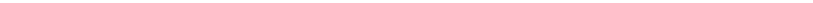
[illegible]

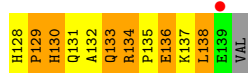
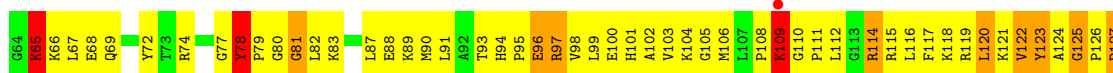
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain BN:  4% 16% 56% 24%

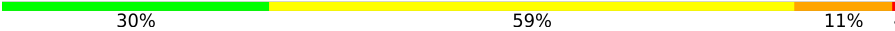


• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain DN: 



- Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain BO:  30% 59% 11% .



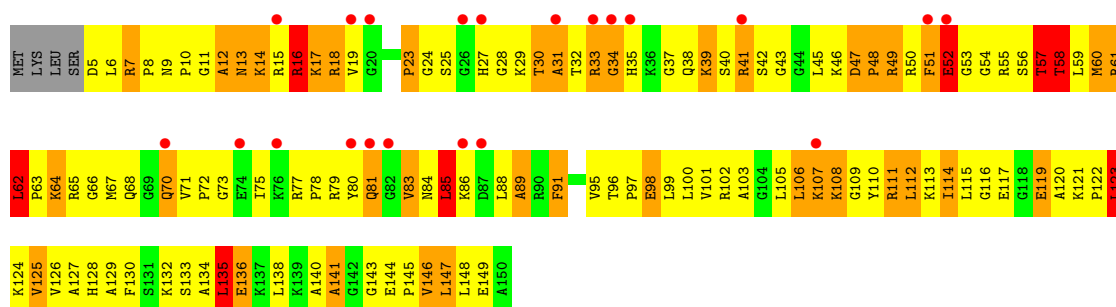
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain DO:  32% 54% 13% .



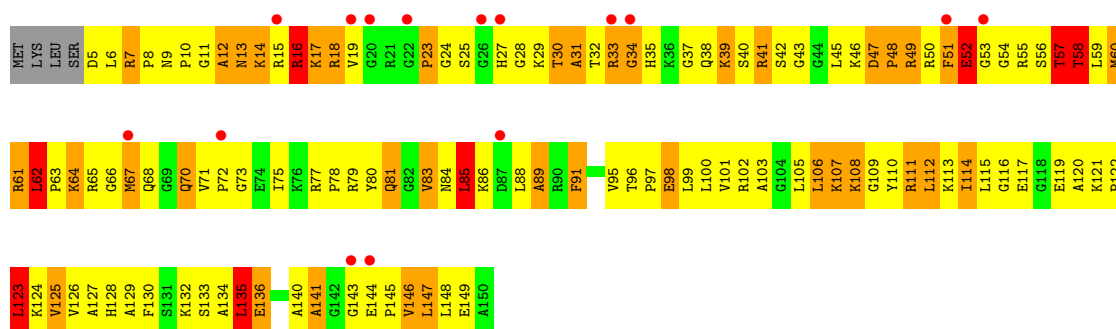
• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain BP:  14% 15% 52% 25% 5% .

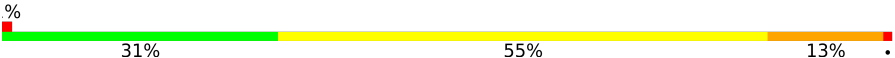


• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain DP:  10% 15% 51% 25% 5% .



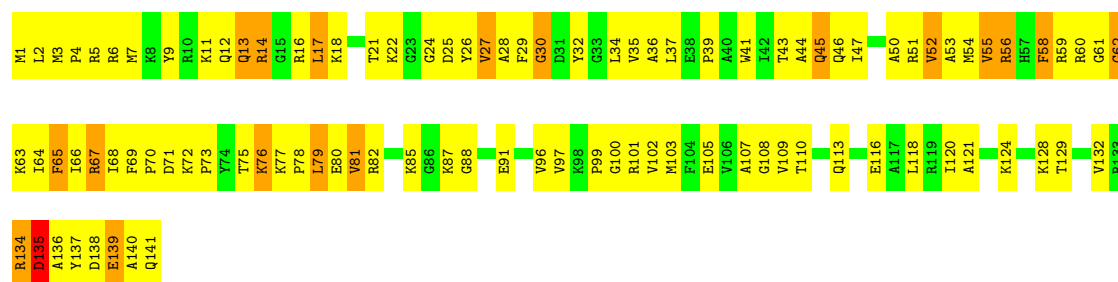
• Molecule 49: 50S RIBOSOMAL PROTEIN L16

Chain BQ:  % 31% 55% 13% .



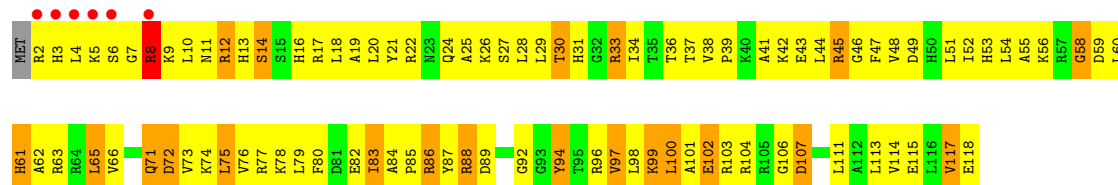
• Molecule 49: 50S RIBOSOMAL PROTEIN L16

Chain DQ: 29% 57% 13% .



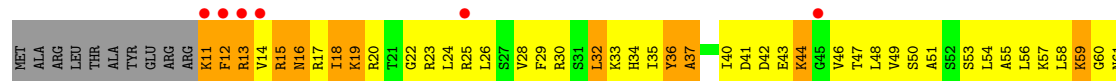
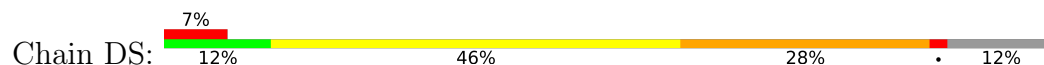
• Molecule 50: 50S RIBOSOMAL PROTEIN L17

Chain BR: 5% 19% 61% 18% ..

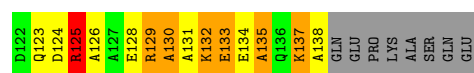
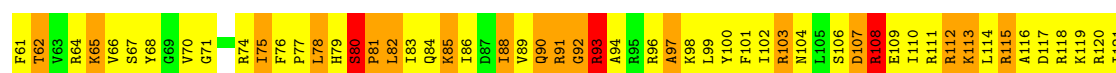
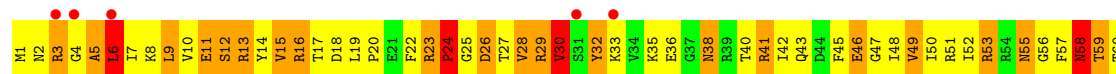
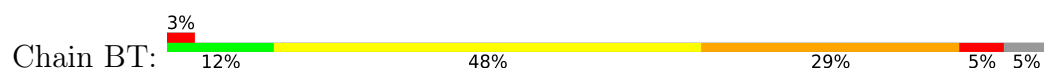




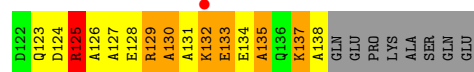
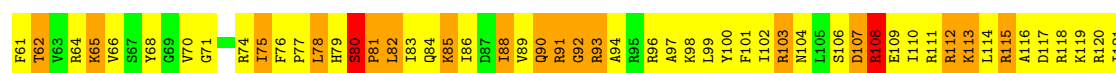
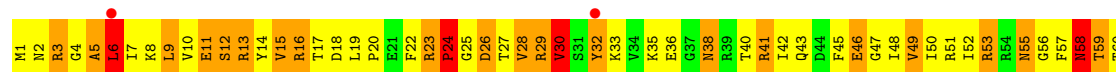
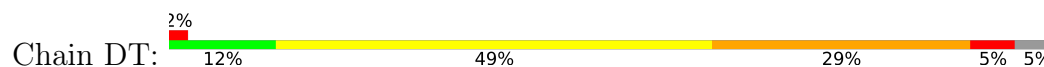
• Molecule 51: 50S RIBOSOMAL PROTEIN L18



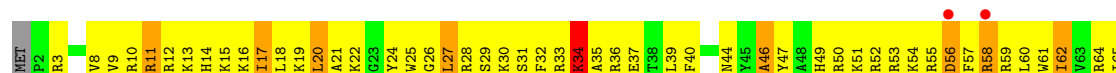
• Molecule 52: 50S RIBOSOMAL PROTEIN L19

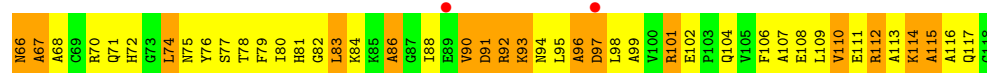


• Molecule 52: 50S RIBOSOMAL PROTEIN L19

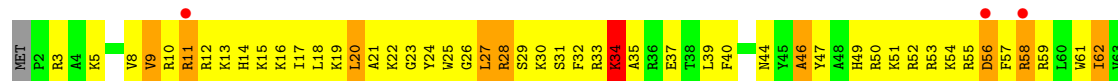


• Molecule 53: 50S RIBOSOMAL PROTEIN L20

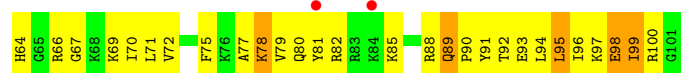
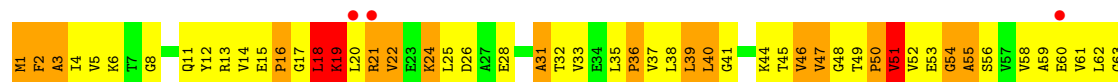




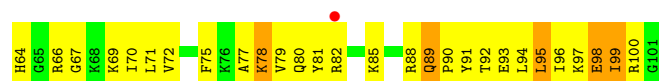
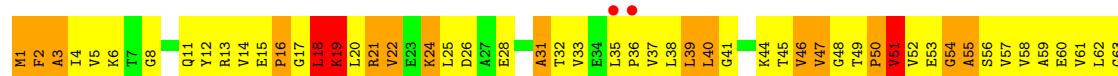
• Molecule 53: 50S RIBOSOMAL PROTEIN L20



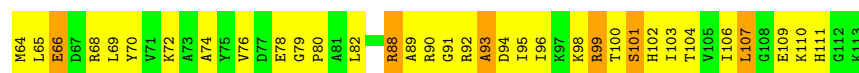
• Molecule 54: 50S RIBOSOMAL PROTEIN L21



• Molecule 54: 50S RIBOSOMAL PROTEIN L21

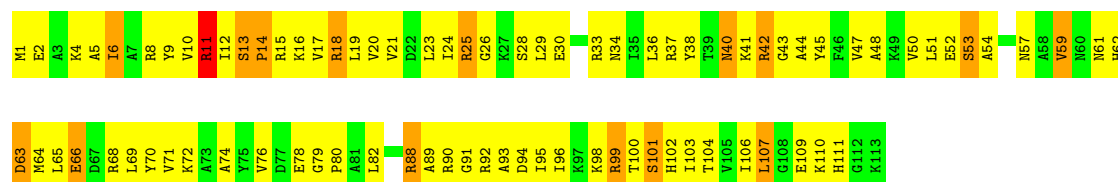


• Molecule 55: 50S RIBOSOMAL PROTEIN L22

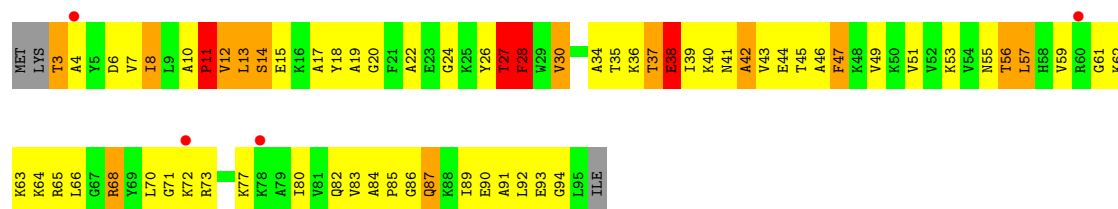


• Molecule 55: 50S RIBOSOMAL PROTEIN L22

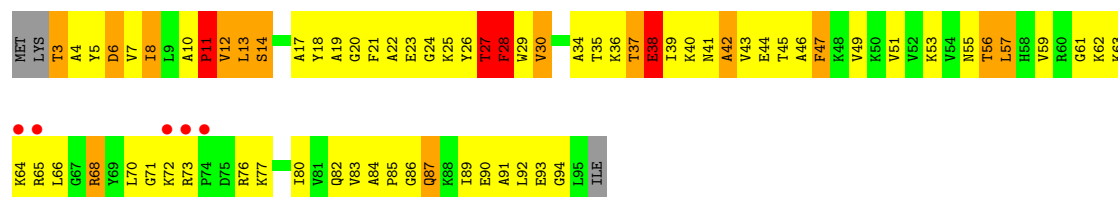




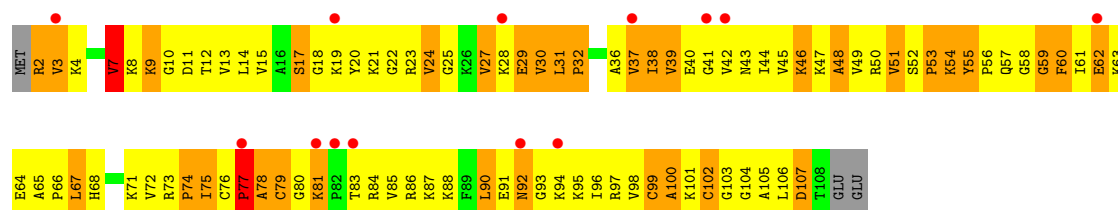
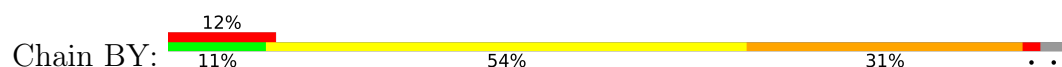
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



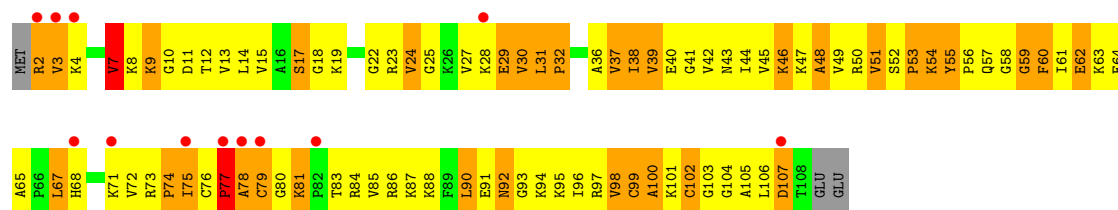
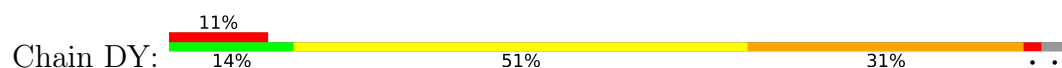
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



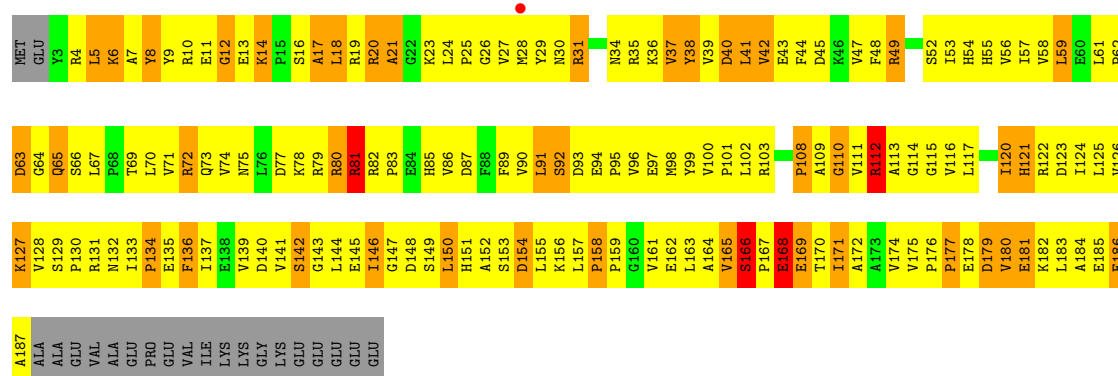
• Molecule 57: 50S RIBOSOMAL PROTEIN L24



• Molecule 57: 50S RIBOSOMAL PROTEIN L24



• Molecule 58: 50S RIBOSOMAL PROTEIN L25



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	291.84Å 270.36Å 402.36Å 90.00° 91.73° 90.00°	Depositor
Resolution (Å)	50.00 – 3.60 50.00 – 3.60	Depositor EDS
% Data completeness (in resolution range)	96.0 (50.00-3.60) 96.0 (50.00-3.60)	Depositor EDS
R_{merge}	0.37	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.57 (at 3.40Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.227 , 0.260 0.224 , 0.223	Depositor DCC
R_{free} test set	40387 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	78.6	Xtriage
Anisotropy	0.084	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 78.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	0.048 for h,-k,-l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	311552	wwPDB-VP
Average B, all atoms (Å ²)	86.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.36% 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, 5MU, GDP, FUA, 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	AA	0.50	0/36190	0.74	49/56486 (0.1%)
1	CA	0.50	0/36190	0.74	45/56486 (0.1%)
2	AB	0.63	1/1936 (0.1%)	1.09	14/2611 (0.5%)
2	CB	0.57	1/1936 (0.1%)	1.08	15/2611 (0.6%)
3	AC	0.72	1/1637 (0.1%)	1.03	9/2207 (0.4%)
3	CC	0.60	1/1637 (0.1%)	1.01	7/2207 (0.3%)
4	AD	0.55	0/1733	0.97	3/2318 (0.1%)
4	CD	0.49	0/1733	0.95	3/2318 (0.1%)
5	AE	0.76	1/1163 (0.1%)	1.11	9/1566 (0.6%)
5	CE	0.69	1/1163 (0.1%)	1.10	7/1566 (0.4%)
6	AF	0.55	0/856	1.00	6/1154 (0.5%)
6	CF	0.47	0/856	0.99	8/1154 (0.7%)
7	AG	0.58	0/1276	1.02	8/1709 (0.5%)
7	CG	0.51	0/1276	1.01	8/1709 (0.5%)
8	AH	0.66	0/1136	1.16	12/1527 (0.8%)
8	CH	0.58	0/1136	1.15	12/1527 (0.8%)
9	AI	0.58	0/1027	1.00	4/1373 (0.3%)
9	CI	0.47	0/1027	0.99	4/1373 (0.3%)
10	AJ	0.63	1/808 (0.1%)	1.02	2/1087 (0.2%)
10	CJ	0.52	1/808 (0.1%)	0.97	2/1087 (0.2%)
11	AK	0.69	0/900	1.04	4/1213 (0.3%)
11	CK	0.60	0/900	1.03	5/1213 (0.4%)
12	AL	0.68	1/987 (0.1%)	1.14	9/1322 (0.7%)
12	CL	0.63	1/987 (0.1%)	1.11	9/1322 (0.7%)
13	AM	0.56	1/999 (0.1%)	1.12	10/1338 (0.7%)
13	CM	0.51	1/999 (0.1%)	1.12	8/1338 (0.6%)
14	AN	0.63	0/501	1.02	1/664 (0.2%)
14	CN	0.56	0/501	1.00	0/664
15	AO	0.63	0/745	0.93	1/992 (0.1%)
15	CO	0.57	0/745	0.91	1/992 (0.1%)
16	AP	0.62	1/717 (0.1%)	0.98	1/965 (0.1%)
16	CP	0.57	1/717 (0.1%)	0.98	1/965 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.65	1/837 (0.1%)	1.04	3/1119 (0.3%)
17	CQ	0.61	1/837 (0.1%)	1.04	4/1119 (0.4%)
18	AR	0.58	0/579	1.12	6/768 (0.8%)
18	CR	0.52	0/579	1.11	3/768 (0.4%)
19	AS	0.56	1/643 (0.2%)	0.96	4/867 (0.5%)
19	CS	0.53	1/643 (0.2%)	0.93	2/867 (0.2%)
20	AT	0.56	0/765	1.04	8/1007 (0.8%)
20	CT	0.50	0/765	1.04	8/1007 (0.8%)
21	AU	0.66	1/213 (0.5%)	0.96	0/279
21	CU	0.60	1/213 (0.5%)	0.94	0/279
22	AV	0.46	0/1810	0.73	0/2821
22	AW	0.45	0/1810	0.64	0/2821
22	CV	0.47	0/1810	0.69	1/2821 (0.0%)
22	CW	0.42	0/1810	0.60	1/2821 (0.0%)
23	AX	0.63	0/257	0.92	0/398
23	CX	0.59	0/257	0.83	0/398
24	AY	0.52	1/5313 (0.0%)	1.09	44/7195 (0.6%)
24	CY	0.53	2/5313 (0.0%)	1.08	40/7195 (0.6%)
25	B0	0.54	0/671	0.97	1/892 (0.1%)
25	D0	0.50	0/671	0.96	1/892 (0.1%)
26	B1	0.63	0/739	1.13	4/983 (0.4%)
26	D1	0.58	1/739 (0.1%)	1.06	2/983 (0.2%)
27	B2	0.42	0/600	1.03	6/793 (0.8%)
27	D2	0.43	0/600	0.91	1/793 (0.1%)
28	B3	0.59	1/473 (0.2%)	1.04	4/636 (0.6%)
28	D3	0.58	1/473 (0.2%)	1.02	4/636 (0.6%)
29	B4	0.86	0/461	1.41	9/623 (1.4%)
29	D4	0.91	0/461	1.41	10/623 (1.6%)
30	B5	0.55	0/473	1.11	5/639 (0.8%)
30	D5	0.58	0/473	1.11	4/639 (0.6%)
31	B6	0.75	0/440	1.46	11/586 (1.9%)
31	D6	0.74	0/440	1.42	5/586 (0.9%)
32	B7	0.62	1/427 (0.2%)	1.09	4/563 (0.7%)
32	D7	0.62	1/427 (0.2%)	1.10	4/563 (0.7%)
33	B8	0.67	1/516 (0.2%)	1.17	2/681 (0.3%)
33	D8	0.63	1/516 (0.2%)	1.16	2/681 (0.3%)
34	B9	0.59	0/310	1.01	0/407
34	D9	0.57	0/310	1.02	0/407
35	BA	0.48	1/69972 (0.0%)	0.73	88/109237 (0.1%)
35	DA	0.48	1/69972 (0.0%)	0.73	90/109237 (0.1%)
36	BB	0.42	0/2853	0.69	4/4451 (0.1%)
36	DB	0.43	0/2853	0.68	4/4451 (0.1%)
37	BC	0.44	0/1774	0.95	5/2391 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DC	0.42	0/1774	0.96	6/2391 (0.3%)
38	BD	0.67	0/2195	1.20	15/2955 (0.5%)
38	DD	0.64	0/2195	1.20	18/2955 (0.6%)
39	BE	0.61	1/1597 (0.1%)	1.14	16/2155 (0.7%)
39	DE	0.58	1/1597 (0.1%)	1.13	16/2155 (0.7%)
40	BF	0.50	1/1659 (0.1%)	1.10	16/2246 (0.7%)
40	DF	0.48	1/1659 (0.1%)	1.10	14/2246 (0.6%)
41	BG	0.55	1/1498 (0.1%)	1.20	17/2013 (0.8%)
41	DG	0.53	0/1498	1.13	18/2013 (0.9%)
42	BH	0.46	0/1293	1.08	6/1746 (0.3%)
42	DH	0.45	0/1293	1.07	6/1746 (0.3%)
44	BK	0.47	1/1045 (0.1%)	1.04	9/1418 (0.6%)
44	DK	0.49	1/1045 (0.1%)	1.05	9/1418 (0.6%)
46	BN	0.53	1/1132 (0.1%)	1.13	10/1527 (0.7%)
46	DN	0.50	1/1132 (0.1%)	1.13	10/1527 (0.7%)
47	BO	0.63	0/943	1.05	4/1269 (0.3%)
47	DO	0.61	0/943	1.05	6/1269 (0.5%)
48	BP	0.56	0/1131	1.33	14/1504 (0.9%)
48	DP	0.55	0/1131	1.30	13/1504 (0.9%)
49	BQ	0.62	0/1143	0.97	2/1527 (0.1%)
49	DQ	0.59	0/1143	0.97	1/1527 (0.1%)
50	BR	0.52	0/974	0.96	2/1302 (0.2%)
50	DR	0.50	0/974	0.96	3/1302 (0.2%)
51	BS	0.53	1/779 (0.1%)	1.05	7/1038 (0.7%)
51	DS	0.48	1/779 (0.1%)	1.06	6/1038 (0.6%)
52	BT	0.63	1/1156 (0.1%)	1.24	13/1544 (0.8%)
52	DT	0.62	1/1156 (0.1%)	1.23	13/1544 (0.8%)
53	BU	0.52	0/975	1.09	11/1297 (0.8%)
53	DU	0.49	0/975	1.08	11/1297 (0.8%)
54	BV	0.49	0/790	0.94	0/1057
54	DV	0.48	0/790	0.94	0/1057
55	BW	0.52	0/907	0.96	5/1216 (0.4%)
55	DW	0.50	0/907	0.97	5/1216 (0.4%)
56	BX	0.53	1/740 (0.1%)	1.02	6/995 (0.6%)
56	DX	0.52	1/740 (0.1%)	1.02	6/995 (0.6%)
57	BY	0.52	0/824	1.02	1/1100 (0.1%)
57	DY	0.53	0/824	1.01	1/1100 (0.1%)
58	BZ	0.61	1/1500 (0.1%)	1.08	8/2037 (0.4%)
58	DZ	0.56	1/1500 (0.1%)	1.07	6/2037 (0.3%)
All	All	0.51	49/333656 (0.0%)	0.84	1001/497270 (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
1	AA	0	48
1	CA	0	43
22	AV	0	3
22	CV	0	1
23	AX	0	2
23	CX	0	1
35	BA	2	69
35	DA	2	58
36	BB	0	1
36	DB	0	1
37	BC	0	1
37	DC	0	1
44	BK	0	1
44	DK	0	1
46	DN	0	1
All	All	4	232

All (49) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
51	BS	108	GLY	C-N	-6.14	1.24	1.33
13	AM	125	ARG	C-N	-6.01	1.25	1.33
2	CB	240	GLN	C-N	-5.94	1.25	1.33
35	BA	272(I)	U	C1'-N1	5.89	1.57	1.48
33	B8	64	TYR	C-N	-5.87	1.25	1.33
44	BK	140	GLY	C-N	-5.86	1.25	1.33
56	BX	94	GLY	C-N	-5.85	1.25	1.33
44	DK	140	GLY	C-N	-5.83	1.25	1.33
33	D8	64	TYR	C-N	-5.82	1.25	1.33
2	AB	240	GLN	C-N	-5.75	1.25	1.33
5	CE	154	GLY	C-N	-5.74	1.25	1.33
35	DA	272(I)	U	C1'-N1	5.69	1.56	1.48
51	DS	108	GLY	C-N	-5.68	1.25	1.33
3	AC	207	VAL	C-N	-5.64	1.25	1.33
12	AL	128	ALA	C-N	-5.64	1.25	1.33
24	AY	689	LYS	C-N	-5.63	1.25	1.33
19	AS	81	ARG	C-N	-5.61	1.25	1.33
19	CS	81	ARG	C-N	-5.59	1.25	1.33
13	CM	125	ARG	C-N	-5.58	1.25	1.33
10	CJ	100	THR	C-N	-5.58	1.25	1.33
41	BG	77	ILE	CA-CB	5.57	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	CY	689	LYS	C-N	-5.56	1.25	1.33
16	AP	83	GLU	C-N	-5.54	1.25	1.33
10	AJ	100	THR	C-N	-5.54	1.25	1.33
56	DX	94	GLY	C-N	-5.54	1.25	1.33
16	CP	83	GLU	C-N	-5.51	1.25	1.33
32	D7	48	LYS	C-N	-5.49	1.25	1.33
52	DT	137	LYS	C-N	-5.47	1.25	1.33
52	BT	137	LYS	C-N	-5.47	1.25	1.33
3	CC	207	VAL	C-N	-5.46	1.25	1.33
24	CY	461	ILE	CA-CB	5.45	1.61	1.54
46	BN	138	LEU	C-N	-5.44	1.25	1.33
17	AQ	100	LYS	C-N	-5.43	1.25	1.33
40	BF	207	GLY	C-N	-5.42	1.25	1.33
5	AE	154	GLY	C-N	-5.41	1.25	1.33
12	CL	128	ALA	C-N	-5.40	1.25	1.33
28	D3	59	VAL	C-N	-5.39	1.25	1.33
32	B7	48	LYS	C-N	-5.39	1.25	1.33
26	D1	95	LEU	C-N	-5.37	1.25	1.33
21	CU	25	LYS	C-N	-5.33	1.25	1.33
21	AU	25	LYS	C-N	-5.32	1.25	1.33
39	BE	204	ALA	C-N	-5.29	1.25	1.33
28	B3	59	VAL	C-N	-5.27	1.25	1.33
17	CQ	100	LYS	C-N	-5.20	1.26	1.33
58	BZ	186	GLU	C-N	-5.20	1.26	1.33
40	DF	207	GLY	C-N	-5.20	1.26	1.33
58	DZ	186	GLU	C-N	-5.12	1.26	1.33
46	DN	138	LEU	C-N	-5.04	1.26	1.33
39	DE	204	ALA	C-N	-5.01	1.26	1.33

All (1001) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1992	G	C2'-C3'-O3'	15.79	133.19	109.50
35	DA	1992	G	C2'-C3'-O3'	15.57	132.85	109.50
1	CA	575	G	C2'-C3'-O3'	14.20	130.80	109.50
1	AA	575	G	C2'-C3'-O3'	14.15	130.72	109.50
35	DA	1799	G	C2'-C3'-O3'	13.47	129.70	109.50
35	BA	1799	G	C2'-C3'-O3'	13.35	129.52	109.50
1	CA	1498	U	C2'-C3'-O3'	13.33	129.49	109.50
1	AA	1498	U	C2'-C3'-O3'	13.03	129.05	109.50
1	AA	115	G	C2'-C3'-O3'	12.41	128.11	109.50
1	CA	115	G	C2'-C3'-O3'	12.13	127.69	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D4	42	PHE	N-CA-C	11.86	124.39	108.38
29	B4	42	PHE	N-CA-C	11.80	124.31	108.38
38	DD	240	ALA	N-CA-C	11.37	118.45	108.22
35	DA	2799	C	C2'-C3'-O3'	10.98	125.97	109.50
35	BA	2799	C	C2'-C3'-O3'	10.91	125.87	109.50
48	BP	116	GLY	N-CA-C	10.83	123.33	111.85
41	BG	54	GLU	N-CA-C	-10.80	100.14	113.97
1	CA	60	A	C2'-C3'-O3'	10.43	125.14	109.50
52	BT	29	ARG	N-CA-C	10.33	125.08	108.76
1	AA	60	A	C2'-C3'-O3'	10.33	124.99	109.50
48	DP	116	GLY	N-CA-C	10.30	122.77	111.85
31	B6	17	LYS	N-CA-C	-10.26	97.88	111.74
52	DT	29	ARG	N-CA-C	10.19	124.86	108.76
31	D6	17	LYS	N-CA-C	-10.10	98.10	111.74
41	BG	176	LEU	N-CA-C	-9.79	100.99	113.72
1	AA	1285	A	C2'-C3'-O3'	9.68	124.02	109.50
29	D4	53	GLU	N-CA-C	9.62	125.06	109.76
1	AA	328	C	C2'-C3'-O3'	9.50	123.75	109.50
35	BA	49	A	C2'-C3'-O3'	9.50	123.75	109.50
1	CA	533	A	C2'-C3'-O3'	9.48	123.73	109.50
7	AG	145	ALA	N-CA-C	-9.43	98.08	110.53
41	BG	88	ILE	N-CA-C	9.43	122.51	108.46
9	AI	93	ARG	N-CA-C	-9.43	102.87	114.75
1	AA	1201	A	C2'-C3'-O3'	9.41	123.62	109.50
29	B4	53	GLU	N-CA-C	9.40	124.70	109.76
9	CI	93	ARG	N-CA-C	-9.31	103.02	114.75
7	CG	145	ALA	N-CA-C	-9.26	98.31	110.53
52	BT	108	ARG	N-CA-C	-9.24	101.90	113.55
48	BP	16	ARG	N-CA-C	-9.22	102.85	114.56
1	CA	428	G	C2'-C3'-O3'	9.22	123.33	109.50
35	BA	2225	A	C2'-C3'-O3'	9.20	123.29	109.50
1	AA	533	A	C2'-C3'-O3'	9.15	123.22	109.50
35	DA	49	A	C2'-C3'-O3'	9.14	123.22	109.50
4	CD	11	LEU	N-CA-C	-9.13	101.41	111.36
52	DT	108	ARG	N-CA-C	-9.12	102.06	113.55
1	CA	328	C	C2'-C3'-O3'	9.12	123.18	109.50
48	BP	136	GLU	N-CA-C	-9.11	100.48	111.69
44	BK	46	ALA	N-CA-C	-9.09	102.18	113.18
58	BZ	45	ASP	N-CA-C	-9.07	100.96	111.03
46	BN	3	THR	N-CA-C	-9.05	96.92	109.95
26	B1	90	ILE	N-CA-C	-9.04	103.08	111.67
1	AA	428	G	C2'-C3'-O3'	9.04	123.05	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AD	11	LEU	N-CA-C	-9.03	101.52	111.36
48	BP	51	PHE	N-CA-C	9.03	123.41	109.60
44	DK	46	ALA	N-CA-C	-8.98	102.31	113.18
35	BA	2172	U	C2'-C3'-O3'	8.94	122.91	109.50
1	CA	1285	A	C2'-C3'-O3'	8.94	122.90	109.50
33	D8	54	GLU	N-CA-C	-8.93	101.52	111.07
46	DN	3	THR	N-CA-C	-8.92	97.10	109.95
35	DA	2225	A	C2'-C3'-O3'	8.88	122.83	109.50
35	BA	1838	C	C2'-C3'-O3'	8.87	122.81	109.50
1	CA	1201	A	C2'-C3'-O3'	8.86	122.79	109.50
38	BD	240	ALA	N-CA-C	8.85	118.51	108.25
48	DP	136	GLU	N-CA-C	-8.84	100.82	111.69
41	BG	86	MET	CA-C-N	-8.75	108.90	119.84
41	BG	86	MET	C-N-CA	-8.75	108.90	119.84
29	B4	47	GLN	N-CA-C	8.71	120.09	108.07
35	DA	2172	U	C2'-C3'-O3'	8.69	122.53	109.50
48	DP	52	GLU	N-CA-C	8.66	129.25	110.80
1	CA	366	C	C2'-C3'-O3'	8.65	122.47	109.50
48	DP	16	ARG	N-CA-C	-8.63	103.60	114.56
33	B8	54	GLU	N-CA-C	-8.62	101.58	110.97
48	BP	52	GLU	N-CA-C	8.62	129.15	110.80
18	AR	81	PHE	N-CA-C	-8.61	101.62	112.90
1	AA	366	C	C2'-C3'-O3'	8.57	122.35	109.50
35	DA	1838	C	C2'-C3'-O3'	8.56	122.34	109.50
48	DP	51	PHE	N-CA-C	8.50	122.61	109.60
29	D4	47	GLN	N-CA-C	8.50	119.80	108.07
2	CB	56	ARG	N-CA-C	-8.49	101.61	111.03
41	DG	78	SER	N-CA-C	-8.49	101.06	111.33
3	CC	109	PRO	N-CA-C	-8.48	103.26	113.86
24	CY	32	ILE	N-CA-C	-8.44	101.49	110.36
3	AC	109	PRO	N-CA-C	-8.43	103.33	113.86
56	DX	37	THR	N-CA-C	-8.38	102.99	113.55
35	BA	1799	G	C4'-C3'-O3'	8.36	121.94	109.40
18	CR	81	PHE	N-CA-C	-8.35	101.96	112.90
2	AB	56	ARG	N-CA-C	-8.29	101.83	111.03
12	AL	70	ILE	CA-C-N	8.21	130.11	119.84
12	AL	70	ILE	C-N-CA	8.21	130.11	119.84
1	CA	115	G	C4'-C3'-O3'	8.20	121.70	109.40
41	DG	88	ILE	N-CA-C	8.19	122.21	108.86
39	DE	65	GLY	N-CA-C	-8.18	102.32	115.66
35	BA	1818	U	C4'-C3'-O3'	-8.18	100.73	113.00
51	DS	44	LYS	N-CA-C	-8.18	104.44	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1799	G	C4'-C3'-O3'	8.17	121.66	109.40
56	BX	37	THR	N-CA-C	-8.16	103.27	113.55
2	AB	233	SER	CA-C-N	-8.14	111.20	119.99
2	AB	233	SER	C-N-CA	-8.14	111.20	119.99
31	D6	21	TYR	N-CA-C	8.12	121.38	109.69
9	CI	36	TYR	N-CA-C	-8.12	103.16	113.23
12	AL	44	THR	CA-C-N	8.11	129.98	119.84
12	AL	44	THR	C-N-CA	8.11	129.98	119.84
24	CY	478	LYS	CA-C-N	8.11	129.97	119.84
24	CY	478	LYS	C-N-CA	8.11	129.97	119.84
25	D0	27	GLU	N-CA-C	-8.10	99.84	110.53
35	BA	945	A	N9-C1'-C2'	8.09	126.14	114.00
35	DA	945	A	N9-C1'-C2'	8.09	126.13	114.00
9	AI	36	TYR	N-CA-C	-8.08	103.21	113.23
35	BA	1427	A	C2'-C3'-O3'	8.08	121.62	109.50
42	DH	71	LEU	N-CA-C	-8.07	102.43	111.71
31	D6	23	THR	N-CA-C	8.07	127.98	110.80
39	BE	65	GLY	N-CA-C	-8.06	102.51	115.66
56	BX	14	SER	N-CA-C	8.04	121.09	108.79
29	B4	43	TYR	N-CA-C	8.04	127.92	110.80
31	B6	23	THR	N-CA-C	8.01	127.86	110.80
25	B0	27	GLU	N-CA-C	-7.99	99.98	110.53
29	D4	43	TYR	N-CA-C	7.99	127.82	110.80
35	BA	739	G	C4'-C3'-O3'	7.98	121.37	109.40
2	CB	154	LEU	N-CA-C	-7.96	102.38	113.37
8	AH	56	LYS	CA-C-N	7.95	128.01	119.90
8	AH	56	LYS	C-N-CA	7.95	128.01	119.90
51	BS	16	ASN	N-CA-C	-7.94	103.73	113.50
36	BB	103	G	C5'-C4'-C3'	-7.93	104.11	116.00
35	DA	503	A	C2'-C3'-O3'	7.87	121.31	109.50
12	CL	44	THR	CA-C-N	7.86	129.66	119.84
12	CL	44	THR	C-N-CA	7.86	129.66	119.84
56	DX	14	SER	N-CA-C	7.84	120.79	108.79
51	BS	44	LYS	N-CA-C	-7.83	104.61	114.56
35	DA	1427	A	C2'-C3'-O3'	7.83	121.25	109.50
31	B6	21	TYR	N-CA-C	7.83	120.96	109.69
35	DA	1818	U	C4'-C3'-O3'	-7.83	101.26	113.00
35	BA	503	A	C2'-C3'-O3'	7.82	121.22	109.50
35	BA	1237	A	C2'-C3'-O3'	7.81	121.21	109.50
35	BA	1819	A	C2'-C3'-O3'	7.80	121.21	109.50
12	CL	61	THR	N-CA-C	-7.80	102.74	111.71
24	CY	126	GLU	N-CA-C	-7.76	102.92	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	BH	71	LEU	N-CA-C	-7.75	102.79	111.71
1	AA	115	G	C4'-C3'-O3'	7.75	121.02	109.40
58	BZ	175	VAL	CA-C-N	7.75	128.36	120.38
58	BZ	175	VAL	C-N-CA	7.75	128.36	120.38
12	AL	61	THR	N-CA-C	-7.72	102.83	111.71
35	DA	739	G	C4'-C3'-O3'	7.71	120.97	109.40
2	CB	233	SER	CA-C-N	-7.71	111.66	119.99
2	CB	233	SER	C-N-CA	-7.71	111.66	119.99
8	CH	56	LYS	CA-C-N	7.71	127.77	119.90
8	CH	56	LYS	C-N-CA	7.71	127.77	119.90
51	DS	16	ASN	N-CA-C	-7.70	104.03	113.50
8	AH	125	ARG	N-CA-C	-7.70	102.53	112.23
35	DA	1819	A	C2'-C3'-O3'	7.69	121.03	109.50
48	DP	54	GLY	N-CA-C	-7.64	104.48	115.64
20	AT	94	ALA	N-CA-C	-7.63	102.82	113.20
52	BT	23	ARG	CA-C-N	7.62	129.37	119.84
52	BT	23	ARG	C-N-CA	7.62	129.37	119.84
27	B2	71	ASN	N-CA-C	-7.59	104.91	114.56
20	CT	94	ALA	N-CA-C	-7.59	102.87	113.20
39	BE	168	MET	N-CA-C	7.59	121.30	110.14
35	DA	1237	A	C2'-C3'-O3'	7.58	120.88	109.50
8	CH	125	ARG	N-CA-C	-7.58	102.68	112.23
48	BP	54	GLY	N-CA-C	-7.58	104.58	115.64
24	AY	286	ILE	CA-C-N	7.57	128.17	120.38
24	AY	286	ILE	C-N-CA	7.57	128.17	120.38
48	DP	58	THR	N-CA-C	-7.54	94.73	110.80
35	BA	1212	G	C4'-C3'-O3'	7.53	120.69	109.40
24	AY	126	GLU	N-CA-C	-7.51	103.99	113.01
2	AB	154	LEU	N-CA-C	-7.51	103.01	113.37
12	CL	119	LYS	N-CA-C	-7.50	99.42	110.52
24	AY	462	ILE	N-CA-C	-7.50	103.15	110.72
48	BP	53	GLY	N-CA-C	-7.48	95.45	113.18
11	AK	38	ASN	CA-C-N	7.47	127.52	119.90
11	AK	38	ASN	C-N-CA	7.47	127.52	119.90
2	CB	117	GLU	N-CA-C	-7.47	102.75	112.68
52	DT	23	ARG	CA-C-N	7.46	129.17	119.84
52	DT	23	ARG	C-N-CA	7.46	129.17	119.84
1	CA	266	G	C2'-C3'-O3'	-7.44	102.54	113.70
1	CA	921	U	C5'-C4'-C3'	-7.43	104.86	116.00
48	BP	58	THR	N-CA-C	-7.42	95.00	110.80
8	AH	100	ILE	CA-C-N	7.41	127.32	120.21
8	AH	100	ILE	C-N-CA	7.41	127.32	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	DP	53	GLY	N-CA-C	-7.40	95.64	113.18
41	DG	59	GLU	N-CA-C	-7.39	103.25	111.82
24	AY	260	LEU	N-CA-C	7.38	118.29	107.88
56	DX	38	GLU	N-CA-C	-7.38	103.23	111.28
24	AY	274	ASP	N-CA-C	-7.37	103.18	111.14
40	BF	106	ARG	N-CA-C	-7.35	104.28	113.18
24	AY	414	GLU	CA-C-N	7.34	129.02	119.84
24	AY	414	GLU	C-N-CA	7.34	129.02	119.84
12	AL	119	LYS	N-CA-C	-7.34	99.66	110.52
38	DD	59	LYS	N-CA-C	-7.32	100.40	110.35
2	AB	117	GLU	N-CA-C	-7.31	102.96	112.68
35	DA	1379	A	N9-C1'-C2'	7.31	124.96	114.00
40	BF	71	GLY	N-CA-C	-7.29	105.26	113.79
12	CL	70	ILE	CA-C-N	7.29	128.96	119.84
12	CL	70	ILE	C-N-CA	7.29	128.96	119.84
35	DA	1212	G	C4'-C3'-O3'	7.29	120.34	109.40
35	DA	1020	A	C2'-C3'-O3'	7.29	120.43	109.50
35	BA	1020	A	C2'-C3'-O3'	7.28	120.41	109.50
8	CH	107	LEU	N-CA-C	7.28	118.85	111.07
20	AT	12	ALA	N-CA-C	-7.27	104.01	114.12
38	BD	59	LYS	N-CA-C	-7.26	100.47	110.35
39	DE	135	HIS	N-CA-C	7.26	119.19	111.28
39	BE	135	HIS	N-CA-C	7.24	119.17	111.28
40	DF	106	ARG	N-CA-C	-7.24	104.25	113.23
1	AA	266	G	C2'-C3'-O3'	-7.23	102.85	113.70
18	AR	32	ARG	N-CA-C	-7.23	103.91	114.39
1	AA	921	U	C5'-C4'-C3'	-7.22	105.18	116.00
51	BS	55	ALA	N-CA-C	-7.20	103.43	111.71
35	BA	221	A	C2'-C3'-O3'	7.20	120.29	109.50
3	CC	126	ARG	N-CA-C	-7.18	104.25	113.16
2	AB	160	ASP	N-CA-C	-7.18	104.13	113.17
8	CH	100	ILE	CA-C-N	7.16	127.08	120.21
8	CH	100	ILE	C-N-CA	7.16	127.08	120.21
4	AD	12	CYS	N-CA-C	-7.15	99.57	111.37
2	CB	160	ASP	N-CA-C	-7.14	104.17	113.17
3	AC	126	ARG	N-CA-C	-7.12	104.33	113.16
18	CR	32	ARG	N-CA-C	-7.11	104.08	114.39
35	BA	1379	A	N9-C1'-C2'	7.11	124.66	114.00
20	CT	12	ALA	N-CA-C	-7.11	104.24	114.12
58	DZ	113	ALA	N-CA-C	-7.11	104.59	113.55
35	DA	1654	A	C5'-C4'-C3'	7.09	126.64	116.00
7	AG	116	ALA	N-CA-C	7.09	118.69	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	CM	82	MET	N-CA-C	-7.04	104.69	112.72
51	DS	55	ALA	N-CA-C	-7.03	103.63	111.71
44	DK	31	GLY	N-CA-C	-7.02	104.08	114.90
52	BT	112	ARG	N-CA-C	-7.01	104.23	114.39
35	BA	788	A	N9-C1'-C2'	7.01	122.51	112.00
35	DA	221	A	C2'-C3'-O3'	6.98	119.97	109.50
1	CA	575	G	C4'-C3'-O3'	6.98	119.87	109.40
40	DF	71	GLY	N-CA-C	-6.97	105.63	113.79
24	CY	204	GLU	N-CA-C	6.97	118.56	110.97
52	DT	112	ARG	N-CA-C	-6.97	104.29	114.39
46	BN	122	VAL	N-CA-C	6.96	118.51	108.48
7	CG	116	ALA	N-CA-C	6.96	118.56	110.97
15	AO	78	TYR	N-CA-C	-6.96	100.26	111.04
39	DE	168	MET	N-CA-C	6.96	120.36	110.14
35	DA	1212	G	C2'-C3'-O3'	-6.95	99.08	109.50
19	CS	21	GLU	N-CA-C	-6.94	104.79	113.18
20	AT	13	LEU	N-CA-C	-6.92	104.10	112.54
35	BA	1654	A	C5'-C4'-C3'	6.91	126.37	116.00
35	DA	474	G	C2'-C3'-O3'	6.91	119.87	109.50
56	BX	38	GLU	N-CA-C	-6.91	103.75	111.28
35	BA	2799	C	C4'-C3'-O3'	6.88	119.72	109.40
4	CD	12	CYS	N-CA-C	-6.88	100.02	111.37
13	AM	82	MET	N-CA-C	-6.88	104.20	112.59
35	BA	1022	G	C2'-C3'-O3'	6.87	119.80	109.50
1	AA	30	U	C2'-C3'-O3'	6.86	119.79	109.50
35	BA	1212	G	C2'-C3'-O3'	-6.83	99.25	109.50
35	BA	474	G	C2'-C3'-O3'	6.82	119.73	109.50
15	CO	78	TYR	N-CA-C	-6.81	100.48	111.04
13	CM	84	ILE	N-CA-C	-6.81	102.58	111.09
51	DS	18	ILE	N-CA-C	-6.81	104.47	112.98
24	AY	118	SER	N-CA-C	-6.81	103.09	111.33
35	BA	1236	G	N9-C1'-C2'	6.80	122.20	112.00
46	BN	48	MET	N-CA-C	-6.80	103.00	112.25
40	BF	26	ALA	N-CA-C	-6.78	103.82	111.14
1	AA	575	G	C4'-C3'-O3'	6.78	119.57	109.40
55	BW	101	SER	N-CA-C	6.78	119.37	109.07
35	DA	1786	A	N9-C1'-C2'	6.77	124.16	114.00
51	BS	18	ILE	N-CA-C	-6.76	104.52	112.98
31	D6	8	LYS	N-CA-C	-6.76	105.59	114.31
46	DN	97	ARG	N-CA-C	-6.76	103.91	111.28
46	DN	122	VAL	N-CA-C	6.76	118.21	108.48
52	DT	59	THR	N-CA-C	-6.76	98.71	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1022	G	C2'-C3'-O3'	6.75	119.63	109.50
44	DK	121	GLU	N-CA-C	-6.74	104.32	112.54
1	AA	1190	G	N9-C1'-C2'	6.71	122.07	112.00
35	DA	2799	C	C4'-C3'-O3'	6.70	119.45	109.40
1	CA	1049	U	C2'-C3'-O3'	6.69	119.54	109.50
42	DH	67	LEU	N-CA-C	-6.69	103.09	111.11
20	CT	13	LEU	N-CA-C	-6.68	104.39	112.54
27	B2	57	ILE	N-CA-C	-6.68	102.70	111.05
11	CK	38	ASN	CA-C-N	6.67	126.70	119.90
11	CK	38	ASN	C-N-CA	6.67	126.70	119.90
35	DA	788	A	N9-C1'-C2'	6.67	122.00	112.00
52	BT	80	SER	N-CA-C	6.66	124.53	109.81
41	DG	118	ARG	N-CA-C	-6.66	103.20	112.12
35	BA	2732	G	N9-C1'-C2'	6.66	121.99	112.00
1	CA	30	U	C2'-C3'-O3'	6.65	119.47	109.50
44	BK	121	GLU	N-CA-C	-6.64	104.44	112.54
35	BA	1252	G	C4'-C3'-O3'	-6.63	103.05	113.00
13	CM	123	ALA	CA-C-N	6.63	128.12	119.84
13	CM	123	ALA	C-N-CA	6.63	128.12	119.84
26	D1	67	ILE	N-CA-C	-6.62	104.40	112.67
28	B3	15	TYR	CA-C-N	6.61	126.59	119.78
28	B3	15	TYR	C-N-CA	6.61	126.59	119.78
32	B7	5	TRP	N-CA-C	6.61	118.92	108.67
1	AA	1493	A	C2'-C3'-O3'	6.61	119.41	109.50
38	BD	53	PHE	N-CA-C	6.60	120.65	111.74
35	BA	1786	A	N9-C1'-C2'	6.59	123.89	114.00
46	DN	48	MET	N-CA-C	-6.59	103.28	112.25
24	CY	102	ASP	N-CA-C	6.59	119.02	111.11
35	DA	1236	G	N9-C1'-C2'	6.58	121.87	112.00
1	AA	1502	A	N9-C1'-C2'	6.57	123.85	114.00
40	DF	163	VAL	N-CA-C	-6.57	102.84	111.05
1	AA	1049	U	C2'-C3'-O3'	6.57	119.35	109.50
56	BX	47	PHE	N-CA-C	-6.57	104.44	114.16
35	DA	226	G	C4'-C3'-O3'	6.56	119.25	109.40
13	AM	123	ALA	CA-C-N	6.56	128.04	119.84
13	AM	123	ALA	C-N-CA	6.56	128.04	119.84
8	CH	79	VAL	N-CA-C	-6.55	104.63	111.58
53	BU	116	ALA	N-CA-C	-6.54	105.16	113.01
35	BA	1236	G	C4'-C3'-O3'	-6.54	103.19	113.00
13	AM	84	ILE	N-CA-C	-6.54	102.92	111.09
38	BD	245	PRO	CA-C-N	6.54	128.01	119.84
38	BD	245	PRO	C-N-CA	6.54	128.01	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	CE	67	VAL	N-CA-C	6.54	117.22	108.27
52	DT	80	SER	N-CA-C	6.53	124.24	109.81
1	CA	1190	G	N9-C1'-C2'	6.52	121.78	112.00
40	BF	162	LEU	N-CA-C	-6.52	104.51	113.18
55	DW	101	SER	N-CA-C	6.52	118.98	109.07
40	BF	163	VAL	N-CA-C	-6.52	102.90	111.05
44	BK	31	GLY	N-CA-C	-6.51	104.88	114.90
31	B6	8	LYS	N-CA-C	-6.50	105.97	114.04
20	AT	86	ARG	N-CA-C	-6.50	103.41	112.12
53	BU	34	LYS	N-CA-C	-6.50	103.89	112.34
31	B6	53	LYS	CB-CA-C	-6.50	109.07	116.54
19	AS	21	GLU	N-CA-C	-6.49	104.84	112.89
52	BT	59	THR	N-CA-C	-6.49	99.14	109.59
2	AB	61	LEU	N-CA-C	-6.49	105.50	113.41
42	BH	67	LEU	N-CA-C	-6.48	103.33	111.11
53	DU	116	ALA	N-CA-C	-6.48	105.23	113.01
5	AE	26	PHE	N-CA-C	6.47	119.89	109.86
24	CY	34	TYR	N-CA-C	-6.47	97.02	110.80
41	BG	141	PHE	CA-C-N	6.46	126.59	119.87
41	BG	141	PHE	C-N-CA	6.46	126.59	119.87
39	DE	58	ARG	N-CA-C	-6.46	104.60	114.16
39	BE	58	ARG	N-CA-C	-6.46	104.60	114.16
24	CY	10	LYS	N-CA-C	-6.45	105.57	113.50
46	BN	109	LYS	N-CA-C	6.45	121.35	112.90
40	DF	26	ALA	N-CA-C	-6.43	104.19	111.14
1	AA	6	G	C4'-C3'-O3'	-6.43	103.36	113.00
46	BN	97	ARG	N-CA-C	-6.43	104.28	111.28
53	DU	34	LYS	N-CA-C	-6.42	103.99	112.34
36	BB	44	G	C4'-C3'-O3'	-6.42	103.37	113.00
6	AF	100	ASN	N-CA-C	-6.42	104.75	112.58
5	CE	26	PHE	N-CA-C	6.42	119.80	109.79
35	DA	790	C	C2'-C3'-O3'	-6.42	104.07	113.70
38	DD	53	PHE	N-CA-C	6.42	120.40	111.74
5	CE	80	ILE	N-CA-C	6.40	116.34	108.53
40	BF	111	ALA	N-CA-C	-6.40	103.93	111.03
53	BU	97	ASP	N-CA-C	-6.39	105.58	113.19
1	CA	812	C	C2'-C3'-O3'	6.39	119.09	109.50
41	BG	55	LYS	N-CA-C	-6.38	104.24	111.14
35	DA	2506	U	C2'-C3'-O3'	6.38	119.07	109.50
2	CB	61	LEU	N-CA-C	-6.38	105.62	113.41
41	BG	3	LEU	N-CA-C	-6.37	105.26	114.12
35	DA	2732	G	N9-C1'-C2'	6.37	121.56	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	BT	30	VAL	N-CA-C	6.37	122.59	109.34
24	AY	97	SER	N-CA-C	-6.36	104.35	111.28
29	B4	55	ARG	N-CA-C	-6.35	102.75	110.88
35	DA	1252	G	C4'-C3'-O3'	-6.35	103.48	113.00
1	CA	6	G	C4'-C3'-O3'	-6.35	103.48	113.00
38	BD	158	ALA	N-CA-C	-6.34	102.34	110.53
1	CA	1493	A	C2'-C3'-O3'	6.34	123.22	113.70
52	DT	30	VAL	N-CA-C	6.34	122.52	109.34
40	BF	83	PHE	N-CA-C	6.33	120.22	111.55
51	BS	32	LEU	N-CA-C	-6.33	104.30	111.07
2	AB	23	ARG	N-CA-C	-6.32	103.21	113.19
19	AS	23	ASN	N-CA-C	-6.32	105.88	113.97
35	BA	788	A	C4'-C3'-O3'	-6.32	103.53	113.00
8	AH	47	GLY	N-CA-C	6.31	118.54	111.85
29	D4	7	PRO	N-CA-C	-6.31	106.27	114.03
50	BR	25	ALA	N-CA-C	-6.30	102.97	112.04
41	BG	56	ALA	N-CA-C	-6.29	105.32	112.87
35	DA	614(A)	U	C2'-C3'-O3'	-6.29	104.27	113.70
17	CQ	67	LYS	N-CA-C	-6.28	102.07	110.24
35	BA	1252	G	N9-C1'-C2'	6.28	121.42	112.00
35	BA	2835	A	N9-C1'-C2'	6.27	121.41	112.00
3	AC	88	ARG	N-CA-C	-6.27	103.72	111.75
35	DA	1992	G	C4'-C3'-O3'	6.27	118.80	109.40
53	DU	62	ILE	N-CA-C	6.26	116.89	110.82
35	BA	332	A	C2'-C3'-O3'	6.26	118.89	109.50
48	BP	30	THR	N-CA-C	6.26	118.96	109.95
52	DT	76	PHE	CA-C-N	6.25	126.37	119.87
52	DT	76	PHE	C-N-CA	6.25	126.37	119.87
24	AY	122	TRP	N-CA-C	6.25	117.89	111.14
1	CA	792	A	C5'-C4'-C3'	-6.25	105.83	115.20
41	BG	98	ARG	N-CA-C	-6.24	103.78	111.33
41	DG	86	MET	CA-C-N	-6.24	112.04	119.84
41	DG	86	MET	C-N-CA	-6.24	112.04	119.84
28	D3	15	TYR	CA-C-N	6.23	126.20	119.78
28	D3	15	TYR	C-N-CA	6.23	126.20	119.78
40	DF	111	ALA	N-CA-C	-6.23	104.11	111.03
3	CC	88	ARG	N-CA-C	-6.23	103.78	111.75
39	DE	44	TYR	N-CA-C	6.23	124.07	110.80
41	DG	55	LYS	N-CA-C	-6.23	103.07	112.04
24	CY	259	PHE	N-CA-C	-6.23	99.86	109.14
1	AA	1398	A	C5'-C4'-C3'	-6.22	106.66	116.00
35	DA	2689	U	C4'-C3'-O3'	6.22	118.73	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	DS	32	LEU	N-CA-C	-6.22	104.41	111.07
35	BA	226	G	C4'-C3'-O3'	6.22	118.73	109.40
35	DA	1236	G	C4'-C3'-O3'	-6.22	103.68	113.00
29	D4	44	THR	N-CA-C	6.21	124.04	110.80
5	AE	67	VAL	N-CA-C	6.21	116.78	108.27
40	DF	162	LEU	N-CA-C	-6.21	104.92	113.18
24	AY	166	LEU	CA-C-N	6.21	125.97	119.76
24	AY	166	LEU	C-N-CA	6.21	125.97	119.76
7	CG	51	GLN	N-CA-C	-6.21	104.41	112.23
35	DA	2835	A	C4'-C3'-O3'	-6.21	103.69	113.00
46	DN	109	LYS	N-CA-C	6.21	121.03	112.90
39	BE	44	TYR	N-CA-C	6.20	124.01	110.80
1	AA	792	A	C5'-C4'-C3'	-6.20	105.90	115.20
39	DE	39	PRO	N-CA-C	-6.20	106.76	114.20
19	CS	23	ASN	N-CA-C	-6.20	106.04	113.97
35	BA	1156	A	N9-C1'-C2'	6.19	123.29	114.00
38	BD	174	ILE	N-CA-C	6.19	117.70	108.23
7	AG	51	GLN	N-CA-C	-6.19	104.43	112.23
35	DA	332	A	C2'-C3'-O3'	6.19	118.78	109.50
29	D4	55	ARG	N-CA-C	-6.17	102.98	110.88
39	BE	39	PRO	N-CA-C	-6.17	106.80	114.20
35	BA	2835	A	C4'-C3'-O3'	-6.17	103.75	113.00
38	DD	245	PRO	CA-C-N	6.17	127.55	119.84
38	DD	245	PRO	C-N-CA	6.17	127.55	119.84
41	DG	30	GLU	N-CA-C	-6.17	105.24	112.89
35	DA	1156	A	N9-C1'-C2'	6.16	123.25	114.00
35	BA	614(A)	U	C2'-C3'-O3'	-6.16	104.46	113.70
39	DE	119	ARG	N-CA-C	-6.16	104.47	112.23
35	DA	2481	G	N9-C1'-C2'	6.16	121.23	112.00
53	BU	62	ILE	N-CA-C	6.15	116.79	110.82
2	AB	200	ILE	N-CA-C	6.14	117.99	109.45
39	DE	137	HIS	CA-C-N	6.14	125.55	118.85
39	DE	137	HIS	C-N-CA	6.14	125.55	118.85
35	BA	2481	G	N9-C1'-C2'	6.14	121.21	112.00
38	BD	65	ILE	N-CA-C	6.13	118.75	108.81
36	DB	44	G	C4'-C3'-O3'	-6.13	103.80	113.00
35	BA	675	A	N9-C1'-C2'	6.13	121.20	112.00
35	DA	788	A	C4'-C3'-O3'	-6.13	103.80	113.00
17	AQ	67	LYS	N-CA-C	-6.13	102.27	110.24
24	AY	15	ILE	N-CA-C	6.12	118.83	108.86
20	CT	86	ARG	N-CA-C	-6.11	103.93	112.12
35	BA	1992	G	C4'-C3'-O3'	6.11	118.57	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B6	45	LYS	CB-CA-C	-6.11	107.55	116.53
3	CC	71	ALA	N-CA-C	-6.11	104.24	113.89
35	BA	2518	A	C2'-C3'-O3'	-6.10	104.54	113.70
40	BF	65	TRP	N-CA-C	6.10	119.71	109.09
44	BK	36	GLU	N-CA-C	-6.10	105.77	112.72
38	DD	174	ILE	N-CA-C	6.10	117.56	108.23
29	B4	44	THR	N-CA-C	6.10	123.79	110.80
24	CY	171	GLU	CB-CA-C	-6.09	109.53	116.54
58	DZ	63	ASP	N-CA-C	-6.08	104.03	112.30
32	D7	5	TRP	N-CA-C	6.08	118.69	108.23
38	DD	158	ALA	N-CA-C	-6.08	102.34	110.55
35	DA	1252	G	N9-C1'-C2'	6.06	121.10	112.00
31	D6	45	LYS	CB-CA-C	-6.06	107.62	116.53
35	BA	2506	U	C2'-C3'-O3'	6.06	118.59	109.50
35	BA	790	C	C2'-C3'-O3'	-6.06	104.61	113.70
56	DX	47	PHE	N-CA-C	-6.05	105.21	114.16
35	DA	512	G	C4'-C3'-O3'	-6.04	103.94	113.00
40	DF	65	TRP	N-CA-C	6.04	119.59	109.09
8	AH	107	LEU	N-CA-C	6.04	117.86	111.28
39	DE	63	LEU	N-CA-C	-6.04	105.18	112.54
44	BK	29	GLN	N-CA-C	-6.03	105.23	112.59
35	DA	74	A	C2'-C3'-O3'	6.03	118.54	109.50
24	AY	575	VAL	N-CA-C	6.02	116.98	111.81
53	DU	97	ASP	N-CA-C	-6.02	106.03	113.19
39	BE	163	GLU	N-CA-C	6.01	116.50	108.38
53	DU	58	ARG	N-CA-C	-6.00	104.07	111.75
38	BD	14	ARG	N-CA-C	-6.00	104.83	111.36
35	BA	2026	C	C5'-C4'-C3'	-5.99	107.02	116.00
38	BD	62	TYR	N-CA-C	5.99	118.48	108.96
35	DA	1558	A	C2'-C3'-O3'	5.99	118.48	109.50
44	DK	43	ALA	N-CA-C	-5.99	105.64	113.12
51	BS	19	LYS	N-CA-C	-5.98	106.63	112.97
39	BE	137	HIS	CA-C-N	5.98	125.53	119.19
39	BE	137	HIS	C-N-CA	5.98	125.53	119.19
47	DO	40	VAL	N-CA-C	-5.98	99.80	108.17
24	CY	282	SER	N-CA-C	-5.98	102.52	109.93
35	DA	748	G	N9-C1'-C2'	5.98	120.97	112.00
46	BN	78	TYR	CA-C-N	5.97	126.28	119.83
46	BN	78	TYR	C-N-CA	5.97	126.28	119.83
10	AJ	56	HIS	N-CA-C	-5.97	98.09	110.80
50	DR	25	ALA	N-CA-C	-5.96	103.45	112.04
3	AC	71	ALA	N-CA-C	-5.96	104.47	113.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AE	80	ILE	N-CA-C	5.95	115.79	108.53
2	CB	23	ARG	N-CA-C	-5.95	103.78	113.19
2	AB	214	ILE	N-CA-C	5.95	116.12	110.53
40	BF	38	ARG	N-CA-C	-5.94	104.88	111.36
53	BU	58	ARG	N-CA-C	-5.94	104.14	111.75
40	DF	38	ARG	N-CA-C	-5.94	104.88	111.36
35	DA	2835	A	N9-C1'-C2'	5.94	120.90	112.00
46	DN	78	TYR	CA-C-N	5.93	126.24	119.83
46	DN	78	TYR	C-N-CA	5.93	126.24	119.83
24	AY	561	VAL	N-CA-C	5.93	116.05	108.82
57	DY	7	VAL	N-CA-C	5.92	121.66	109.34
48	DP	30	THR	N-CA-C	5.92	118.48	109.95
39	DE	163	GLU	N-CA-C	5.92	116.37	108.38
44	BK	43	ALA	N-CA-C	-5.92	105.72	113.12
52	DT	125	ARG	N-CA-C	-5.92	104.74	111.07
20	CT	93	GLU	N-CA-C	-5.91	105.83	113.16
26	B1	5	CYS	N-CA-C	5.91	119.16	109.76
29	B4	7	PRO	N-CA-C	-5.91	106.36	113.98
1	CA	1225	A	C4'-C3'-O3'	5.91	118.26	109.40
39	DE	152	LYS	N-CA-C	-5.91	102.73	110.53
5	CE	113	ALA	N-CA-C	-5.91	105.57	112.89
13	AM	101	GLN	N-CA-C	5.90	116.22	108.07
50	BR	72	ASP	N-CA-C	5.90	117.64	109.15
38	DD	62	TYR	N-CA-C	5.90	118.28	109.25
24	AY	539	ILE	CB-CA-C	-5.90	108.10	114.35
3	AC	173	VAL	CA-C-N	5.89	127.20	119.84
3	AC	173	VAL	C-N-CA	5.89	127.20	119.84
38	DD	44	ASN	N-CA-C	5.89	116.01	108.24
20	AT	93	GLU	N-CA-C	-5.89	105.86	113.16
2	CB	214	ILE	N-CA-C	5.89	116.06	110.53
44	DK	36	GLU	N-CA-C	-5.89	106.01	112.72
38	DD	65	ILE	N-CA-C	5.88	118.34	108.81
41	BG	60	LEU	N-CA-C	-5.88	106.08	113.20
50	DR	72	ASP	N-CA-C	5.88	117.62	109.15
41	BG	180	PHE	N-CA-C	5.88	118.88	107.71
39	BE	169	ASN	N-CA-C	5.88	119.75	112.47
35	BA	74	A	C2'-C3'-O3'	5.87	118.31	109.50
11	AK	40	ILE	CB-CA-C	-5.87	105.86	111.44
57	BY	7	VAL	N-CA-C	5.86	121.53	109.34
24	AY	302	HIS	CA-C-N	5.86	127.17	119.84
24	AY	302	HIS	C-N-CA	5.86	127.17	119.84
35	BA	2438	U	C2'-C3'-O3'	-5.86	104.91	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	675	A	N9-C1'-C2'	5.86	120.79	112.00
6	AF	50	TYR	CA-C-N	5.86	127.16	119.84
6	AF	50	TYR	C-N-CA	5.86	127.16	119.84
46	DN	26	LEU	N-CA-C	-5.86	106.47	113.97
8	AH	35	ILE	N-CA-C	-5.85	104.14	110.23
48	DP	85	LEU	N-CA-C	-5.85	105.85	112.87
39	BE	63	LEU	N-CA-C	-5.85	105.40	112.54
24	AY	302	HIS	N-CA-C	5.85	118.08	109.42
24	CY	659	LEU	N-CA-C	-5.85	104.82	111.14
53	DU	56	ASP	N-CA-C	-5.84	104.27	111.40
24	CY	433	GLU	N-CA-C	-5.84	103.63	112.04
35	BA	83	G	C4'-C3'-O3'	-5.83	104.26	113.00
47	BO	40	VAL	N-CA-C	-5.83	100.01	108.17
37	DC	219	MET	N-CA-C	5.83	120.53	112.90
55	DW	53	SER	N-CA-C	-5.83	106.02	113.01
39	BE	152	LYS	N-CA-C	-5.82	102.85	110.53
53	BU	115	ALA	N-CA-C	-5.82	104.94	112.68
24	CY	213	HIS	N-CA-C	-5.82	105.02	111.71
1	AA	812	C	C2'-C3'-O3'	5.82	118.23	109.50
35	DA	83	G	C4'-C3'-O3'	-5.81	104.29	113.00
39	BE	127	ASP	N-CA-C	-5.80	105.04	111.71
35	DA	906	G	C5'-C4'-C3'	-5.79	107.31	116.00
1	AA	1225	A	C4'-C3'-O3'	5.79	118.09	109.40
8	AH	79	VAL	N-CA-C	-5.79	105.44	111.58
44	DK	29	GLN	N-CA-C	-5.78	105.54	112.59
3	CC	173	VAL	CA-C-N	5.78	127.06	119.84
3	CC	173	VAL	C-N-CA	5.78	127.06	119.84
17	AQ	29	HIS	CA-C-N	5.78	126.17	119.47
17	AQ	29	HIS	C-N-CA	5.78	126.17	119.47
37	BC	219	MET	N-CA-C	5.78	120.47	112.90
24	CY	593	ALA	N-CA-C	-5.77	104.90	111.14
53	DU	115	ALA	N-CA-C	-5.76	105.02	112.68
35	BA	512	G	C4'-C3'-O3'	-5.76	104.36	113.00
52	BT	93	ARG	N-CA-C	-5.76	106.64	113.38
35	DA	1904	G	C5'-C4'-C3'	-5.76	107.36	116.00
52	DT	93	ARG	N-CA-C	-5.76	106.64	113.38
1	AA	250	A	C2'-C3'-O3'	5.76	118.13	109.50
35	BA	1459	G	N9-C1'-C2'	5.76	120.63	112.00
2	CB	200	ILE	N-CA-C	5.76	117.45	109.45
1	CA	119	A	C2'-C3'-O3'	5.75	118.13	109.50
35	DA	2891	G	C2'-C3'-O3'	-5.75	105.07	113.70
40	DF	105	VAL	N-CA-C	-5.75	107.66	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	CF	50	TYR	CA-C-N	5.75	127.03	119.84
6	CF	50	TYR	C-N-CA	5.75	127.03	119.84
10	CJ	56	HIS	N-CA-C	-5.75	98.55	110.80
27	B2	50	ILE	N-CA-C	5.74	115.97	110.74
30	D5	4	HIS	CA-C-N	-5.74	114.05	120.14
30	D5	4	HIS	C-N-CA	-5.74	114.05	120.14
24	CY	274	ASP	N-CA-C	-5.74	104.66	111.03
24	AY	598	ASP	CA-C-N	5.74	125.71	120.03
24	AY	598	ASP	C-N-CA	5.74	125.71	120.03
20	CT	72	LEU	N-CA-C	-5.74	101.51	110.17
35	BA	1959	G	C5'-C4'-C3'	-5.73	107.41	116.00
56	BX	27	THR	N-CA-C	5.73	119.68	107.70
52	BT	76	PHE	CA-C-N	5.73	126.48	120.12
52	BT	76	PHE	C-N-CA	5.73	126.48	120.12
24	CY	626	ALA	N-CA-C	-5.72	105.48	113.37
40	DF	83	PHE	N-CA-C	5.72	119.38	111.55
6	CF	100	ASN	N-CA-C	-5.71	104.93	112.24
41	DG	91	ARG	N-CA-C	5.71	117.79	108.76
41	DG	54	GLU	N-CA-C	-5.71	106.28	113.18
35	BA	1301	A	C2'-C3'-O3'	5.70	118.06	109.50
2	CB	46	LYS	N-CA-C	-5.70	105.44	112.90
35	BA	1558	A	C2'-C3'-O3'	5.70	118.04	109.50
1	AA	119	A	C2'-C3'-O3'	5.69	118.04	109.50
1	AA	754	C	N1-C1'-C2'	5.69	120.53	112.00
1	AA	1456	G	N9-C1'-C2'	5.69	120.53	112.00
1	CA	754	C	N1-C1'-C2'	5.69	120.53	112.00
38	DD	14	ARG	N-CA-C	-5.69	105.16	111.36
41	DG	46	ALA	N-CA-C	-5.69	106.99	114.04
9	AI	99	LEU	N-CA-C	-5.68	100.91	109.95
35	DA	2518	A	C2'-C3'-O3'	-5.68	105.17	113.70
41	DG	98	ARG	N-CA-C	-5.68	104.09	111.02
38	BD	35	LYS	N-CA-C	5.68	122.36	109.81
27	D2	38	GLN	N-CA-C	-5.68	106.98	114.31
35	BA	2689	U	C4'-C3'-O3'	5.67	117.90	109.40
13	AM	80	ARG	N-CA-C	-5.66	105.26	111.82
24	AY	579	GLU	N-CA-C	-5.66	104.32	111.11
5	CE	69	VAL	CA-C-N	5.66	126.91	119.84
5	CE	69	VAL	C-N-CA	5.66	126.91	119.84
38	DD	35	LYS	N-CA-C	5.66	122.31	109.81
52	BT	125	ARG	N-CA-C	-5.65	105.03	111.07
39	DE	164	ARG	N-CA-C	5.65	117.42	108.67
37	BC	194	ILE	N-CA-C	-5.64	105.34	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BE	118	LYS	N-CA-C	-5.64	98.78	110.80
35	BA	1396	U	N1-C1'-C2'	5.64	122.46	114.00
24	CY	489	LYS	CA-C-N	5.64	126.50	120.13
24	CY	489	LYS	C-N-CA	5.64	126.50	120.13
38	BD	44	ASN	N-CA-C	5.63	115.68	108.24
26	B1	91	LYS	N-CA-C	-5.63	104.35	111.11
35	DA	2242	G	N9-C1'-C2'	5.63	120.45	112.00
1	AA	748	C	N1-C1'-C2'	5.63	120.44	112.00
27	B2	28	LYS	N-CA-C	-5.63	104.52	111.33
35	DA	2712	U	C4'-C3'-O3'	-5.63	104.56	113.00
35	BA	2891	G	C2'-C3'-O3'	-5.63	105.26	113.70
5	AE	45	PHE	CA-C-N	-5.62	118.30	122.18
5	AE	45	PHE	C-N-CA	-5.62	118.30	122.18
35	BA	1818	U	C5'-C4'-C3'	-5.62	107.56	116.00
48	BP	85	LEU	N-CA-C	-5.62	106.12	112.87
12	CL	118	SER	N-CA-C	-5.62	104.54	111.33
7	AG	40	ALA	N-CA-C	-5.61	105.16	111.28
5	AE	150	ARG	N-CA-C	-5.61	106.20	113.16
24	AY	287	PRO	CA-C-N	5.61	126.85	119.84
24	AY	287	PRO	C-N-CA	5.61	126.85	119.84
1	CA	748	C	N1-C1'-C2'	5.60	120.40	112.00
35	DA	2026	C	C5'-C4'-C3'	-5.60	107.60	116.00
40	DF	17	ARG	N-CA-C	5.60	116.72	107.20
24	CY	399	LEU	N-CA-C	5.59	118.52	109.79
55	DW	66	GLU	N-CA-C	5.59	117.82	111.11
35	BA	748	G	N9-C1'-C2'	5.59	120.39	112.00
35	DA	944	G	N9-C1'-C2'	5.59	120.39	112.00
35	DA	1301	A	C2'-C3'-O3'	5.58	117.88	109.50
20	AT	72	LEU	N-CA-C	-5.58	101.74	110.17
8	CH	47	GLY	N-CA-C	5.58	117.76	111.85
58	DZ	21	ALA	N-CA-C	-5.58	106.64	113.50
20	CT	52	ALA	N-CA-C	-5.58	104.05	111.24
24	CY	166	LEU	CA-C-N	5.57	125.33	119.76
24	CY	166	LEU	C-N-CA	5.57	125.33	119.76
35	DA	1020	A	N9-C1'-C2'	5.57	122.36	114.00
27	B2	46	GLN	N-CA-C	5.56	117.42	107.80
24	CY	402	ILE	N-CA-C	5.56	112.16	106.21
41	DG	144	ILE	N-CA-C	5.56	116.31	108.36
24	AY	151	ARG	N-CA-C	-5.56	106.58	113.19
24	AY	154	GLN	N-CA-C	-5.56	106.33	114.39
41	BG	159	VAL	N-CA-C	5.56	115.86	107.75
35	DA	1459	G	N9-C1'-C2'	5.56	120.33	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	DD	193	VAL	N-CA-C	5.55	117.45	109.51
13	CM	101	GLN	N-CA-C	5.53	115.71	108.07
35	BA	2712	U	C4'-C3'-O3'	-5.53	104.70	113.00
46	BN	26	LEU	N-CA-C	-5.53	106.89	113.97
39	BE	164	ARG	N-CA-C	5.53	117.24	108.67
37	DC	194	ILE	N-CA-C	-5.53	105.46	110.82
13	AM	87	TYR	N-CA-C	-5.52	105.16	111.07
53	BU	56	ASP	N-CA-C	-5.52	104.67	111.40
36	DB	40	U	C2'-C3'-O3'	-5.52	105.42	113.70
35	DA	2402	C	N1-C1'-C2'	5.51	120.27	112.00
44	BK	98	ARG	N-CA-C	5.51	116.91	108.42
1	CA	250	A	C2'-C3'-O3'	5.51	117.77	109.50
39	BE	119	ARG	N-CA-C	-5.51	105.29	112.23
35	DA	1495	A	N9-C1'-C2'	5.51	120.26	112.00
40	BF	204	ASN	N-CA-C	-5.51	105.69	112.90
40	BF	17	ARG	N-CA-C	5.50	116.56	107.20
35	DA	1396	U	N1-C1'-C2'	5.50	122.25	114.00
12	AL	118	SER	N-CA-C	-5.50	104.68	111.33
41	DG	176	LEU	N-CA-C	-5.50	107.82	114.75
35	DA	752	A	C2'-C3'-O3'	5.50	117.74	109.50
40	DF	204	ASN	N-CA-C	-5.50	105.70	112.90
46	BN	18	ALA	N-CA-C	-5.49	101.96	109.71
44	DK	98	ARG	N-CA-C	5.49	116.88	108.42
53	DU	14	HIS	N-CA-C	5.49	117.07	111.14
58	BZ	175	VAL	N-CA-C	5.48	115.03	108.45
48	BP	135	LEU	N-CA-C	-5.48	99.13	110.80
48	DP	135	LEU	N-CA-C	-5.48	99.13	110.80
4	AD	114	ARG	N-CA-C	-5.48	105.39	111.36
17	CQ	29	HIS	CA-C-N	5.48	125.83	119.47
17	CQ	29	HIS	C-N-CA	5.48	125.83	119.47
39	DE	169	ASN	N-CA-C	5.47	119.25	112.47
35	DA	845	G	N9-C1'-C2'	5.47	120.20	112.00
1	AA	1531	A	C2'-C3'-O3'	-5.46	101.30	109.50
7	AG	106	GLN	N-CA-C	5.46	117.23	111.28
32	D7	27	GLY	N-CA-C	-5.46	106.08	113.24
32	D7	4	THR	N-CA-C	5.46	120.33	111.37
40	DF	23	ASP	N-CA-C	-5.46	105.72	112.38
9	CI	3	GLN	N-CA-C	5.46	117.30	108.41
35	DA	2477	C	N1-C1'-C2'	5.46	120.19	112.00
1	CA	1065	U	C1'-C2'-O2'	-5.45	103.62	111.80
20	AT	14	LYS	N-CA-C	-5.45	104.78	111.75
40	BF	23	ASP	N-CA-C	-5.45	105.73	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BF	68	LYS	N-CA-C	5.45	116.78	108.12
55	BW	13	SER	N-CA-C	5.44	116.74	109.83
35	DA	2405	G	N9-C1'-C2'	5.44	120.16	112.00
46	DN	18	ALA	N-CA-C	-5.44	102.04	109.71
12	AL	109	GLY	N-CA-C	-5.44	104.25	112.41
22	CW	77	A	C4'-C3'-O3'	5.44	121.15	113.00
1	AA	1190	G	C4'-C3'-O3'	-5.43	104.85	113.00
1	CA	1298	C	N1-C1'-C2'	5.43	120.15	112.00
37	DC	226	ASN	CA-C-N	5.43	126.63	119.84
37	DC	226	ASN	C-N-CA	5.43	126.63	119.84
1	AA	672	U	C4'-C3'-O3'	-5.43	104.85	113.00
1	CA	1531	A	C2'-C3'-O3'	-5.43	101.36	109.50
8	CH	35	ILE	N-CA-C	-5.43	104.58	110.23
7	CG	11	GLN	N-CA-C	5.43	117.68	108.02
18	AR	51	LEU	CA-C-N	5.42	125.62	120.31
18	AR	51	LEU	C-N-CA	5.42	125.62	120.31
20	CT	14	LYS	N-CA-C	-5.42	104.81	111.75
24	AY	576	ASP	N-CA-C	5.42	117.27	111.36
24	CY	281	PRO	N-CA-C	5.42	118.99	110.80
48	BP	64	LYS	N-CA-C	-5.42	106.62	113.18
12	CL	109	GLY	N-CA-C	-5.42	104.29	112.41
29	B4	42	PHE	CA-C-N	5.41	131.88	121.54
29	B4	42	PHE	C-N-CA	5.41	131.88	121.54
35	BA	2477	C	N1-C1'-C2'	5.40	120.11	112.00
39	DE	127	ASP	N-CA-C	-5.40	105.50	111.71
24	AY	137	ASN	N-CA-C	5.40	122.30	110.80
5	AE	69	VAL	CA-C-N	5.40	126.58	119.84
5	AE	69	VAL	C-N-CA	5.40	126.58	119.84
35	BA	2242	G	N9-C1'-C2'	5.40	120.09	112.00
35	BA	784	A	N9-C1'-C2'	5.39	120.09	112.00
53	DU	96	ALA	N-CA-C	-5.39	106.55	113.02
30	B5	46	CYS	CA-C-N	5.39	126.58	119.84
30	B5	46	CYS	C-N-CA	5.39	126.58	119.84
35	BA	1495	A	N9-C1'-C2'	5.39	120.09	112.00
30	D5	46	CYS	CA-C-N	5.39	126.58	119.84
30	D5	46	CYS	C-N-CA	5.39	126.58	119.84
48	DP	64	LYS	N-CA-C	-5.39	106.66	113.18
56	DX	27	THR	N-CA-C	5.39	119.81	107.48
24	AY	38	ARG	N-CA-C	-5.38	106.55	113.23
1	CA	1065	U	C2'-C3'-O3'	5.38	117.58	109.50
9	CI	99	LEU	N-CA-C	-5.38	101.39	109.95
30	B5	46	CYS	N-CA-C	5.38	116.60	109.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	AR	66	LEU	N-CA-C	-5.38	105.06	111.03
35	DA	2732	G	C4'-C3'-O3'	-5.38	104.93	113.00
51	DS	19	LYS	N-CA-C	-5.38	106.91	112.93
35	BA	752	A	C2'-C3'-O3'	5.38	117.56	109.50
35	BA	845	G	N9-C1'-C2'	5.38	120.06	112.00
8	AH	66	GLY	CA-C-N	5.37	125.31	119.78
8	AH	66	GLY	C-N-CA	5.37	125.31	119.78
44	BK	90	LYS	CA-C-N	5.37	125.37	119.89
44	BK	90	LYS	C-N-CA	5.37	125.37	119.89
7	CG	147	ALA	N-CA-C	-5.37	104.83	111.33
24	CY	512	ILE	N-CA-C	5.37	116.43	108.65
35	DA	83	G	N9-C1'-C2'	5.36	120.04	112.00
1	CA	672	U	N1-C1'-C2'	5.36	120.04	112.00
1	AA	1298	C	N1-C1'-C2'	5.36	120.04	112.00
24	CY	462	ILE	N-CA-C	-5.36	104.18	111.89
39	DE	118	LYS	N-CA-C	-5.36	99.39	110.80
24	AY	604	PRO	N-CA-C	5.35	119.28	110.55
27	B2	67	LYS	N-CA-C	-5.35	105.09	111.03
35	BA	1020	A	N9-C1'-C2'	5.35	122.03	114.00
36	BB	40	U	C2'-C3'-O3'	-5.35	105.67	113.70
8	CH	134	ILE	CB-CA-C	-5.35	104.91	111.92
35	DA	1351	C	C5'-C4'-C3'	-5.35	107.98	116.00
58	DZ	184	ALA	N-CA-C	5.35	120.29	113.18
32	D7	42	LEU	N-CA-C	-5.34	106.82	113.55
11	CK	40	ILE	CB-CA-C	-5.34	106.36	111.44
9	AI	3	GLN	N-CA-C	5.34	117.12	108.41
29	D4	42	PHE	CA-C-N	5.34	131.74	121.54
29	D4	42	PHE	C-N-CA	5.34	131.74	121.54
3	AC	30	ARG	N-CA-C	5.34	117.10	111.28
35	BA	848	G	C5'-C4'-C3'	-5.34	107.99	116.00
53	BU	14	HIS	N-CA-C	5.34	116.90	111.14
35	DA	2438	U	C2'-C3'-O3'	-5.34	105.69	113.70
53	BU	86	ALA	N-CA-C	-5.33	107.32	113.88
41	BG	45	GLU	N-CA-C	-5.33	104.14	111.81
47	DO	66	LYS	N-CA-C	-5.33	106.28	112.89
32	B7	4	THR	N-CA-C	5.32	120.10	111.37
37	BC	226	ASN	CA-C-N	5.32	126.50	119.84
37	BC	226	ASN	C-N-CA	5.32	126.50	119.84
1	CA	243	A	C2'-C3'-O3'	5.32	117.49	109.50
1	CA	992	U	C2'-C3'-O3'	5.32	117.48	109.50
55	BW	66	GLU	N-CA-C	5.32	117.50	111.11
18	CR	40	LEU	N-CA-C	-5.32	104.72	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	DR	20	LEU	N-CA-C	-5.32	104.38	111.24
13	CM	35	GLU	N-CA-C	-5.32	105.48	111.28
31	B6	40	CYS	CA-C-N	5.32	126.48	119.84
31	B6	40	CYS	C-N-CA	5.32	126.48	119.84
48	DP	62	LEU	N-CA-C	5.32	116.39	109.64
6	AF	95	GLU	CA-C-N	5.31	125.32	119.90
6	AF	95	GLU	C-N-CA	5.31	125.32	119.90
2	CB	122	PHE	N-CA-C	-5.31	105.49	111.28
26	D1	4	VAL	N-CA-C	5.31	116.97	108.89
19	AS	36	ARG	N-CA-C	-5.31	106.50	112.87
52	DT	113	LYS	N-CA-C	-5.31	106.97	113.50
26	B1	57	GLU	N-CA-C	-5.31	102.60	110.46
55	BW	53	SER	N-CA-C	-5.31	106.06	112.54
17	CQ	9	VAL	N-CA-C	5.31	116.12	108.48
35	DA	1494	A	C2'-C3'-O3'	5.31	121.66	113.70
53	DU	70	ARG	N-CA-C	-5.31	106.07	112.54
1	CA	438	G	C4'-C3'-O3'	5.30	117.36	109.40
7	CG	107	ALA	N-CA-C	-5.30	105.41	111.14
10	CJ	64	GLU	N-CA-C	5.30	117.93	109.65
35	BA	83	G	N9-C1'-C2'	5.30	119.95	112.00
42	BH	133	VAL	N-CA-C	5.30	116.22	108.53
35	DA	1943	U	C2'-C3'-O3'	5.30	117.45	109.50
2	AB	46	LYS	N-CA-C	-5.30	105.96	112.90
2	AB	208	ILE	N-CA-C	-5.30	104.58	110.62
11	AK	116	HIS	N-CA-C	-5.30	104.18	111.81
13	CM	80	ARG	N-CA-C	-5.30	105.67	111.82
40	DF	68	LYS	N-CA-C	5.29	116.54	108.12
1	AA	672	U	N1-C1'-C2'	5.29	119.94	112.00
1	AA	1298	C	C4'-C3'-O3'	-5.29	105.07	113.00
42	DH	139	GLN	N-CA-C	-5.29	105.47	112.34
32	B7	42	LEU	N-CA-C	-5.29	106.89	113.55
35	DA	784	A	N9-C1'-C2'	5.29	119.93	112.00
33	B8	47	LYS	N-CA-C	5.28	116.83	108.96
42	BH	139	GLN	N-CA-C	-5.28	105.48	112.34
6	CF	20	ALA	N-CA-C	-5.28	105.17	111.03
41	DG	81	LYS	N-CA-C	5.28	122.05	110.80
35	BA	906	G	C5'-C4'-C3'	-5.28	108.08	116.00
1	AA	1129	C	N1-C1'-C2'	5.28	119.91	112.00
35	DA	848	G	C5'-C4'-C3'	-5.28	108.09	116.00
12	AL	26	ALA	N-CA-C	-5.27	99.56	110.80
47	BO	98	VAL	N-CA-C	-5.27	101.40	108.35
24	AY	192	LEU	N-CA-C	-5.27	106.86	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	CY	115	GLU	CA-C-N	5.27	126.42	119.84
24	CY	115	GLU	C-N-CA	5.27	126.42	119.84
55	DW	42	ARG	N-CA-C	-5.26	106.55	112.87
13	AM	35	GLU	N-CA-C	-5.26	105.54	111.28
1	AA	920	U	C5'-C4'-C3'	-5.26	108.11	116.00
38	DD	261	LYS	N-CA-C	5.26	117.93	110.10
55	DW	13	SER	N-CA-C	5.26	116.51	109.83
42	BH	123	PHE	N-CA-C	5.25	117.29	108.73
13	CM	117	VAL	N-CA-C	5.25	115.84	108.17
56	BX	28	PHE	N-CA-C	5.25	118.14	109.85
1	AA	992	U	C2'-C3'-O3'	5.25	117.37	109.50
18	AR	40	LEU	N-CA-C	-5.25	104.62	111.02
35	DA	2126	A	C2'-C3'-O3'	5.25	117.37	109.50
35	BA	1494	A	C2'-C3'-O3'	5.25	121.57	113.70
40	BF	65	TRP	CA-C-N	5.24	126.39	119.84
40	BF	65	TRP	C-N-CA	5.24	126.39	119.84
35	DA	1156	A	C2'-C3'-O3'	5.24	117.36	109.50
58	DZ	59	LEU	N-CA-C	5.24	117.16	108.20
35	BA	1156	A	C2'-C3'-O3'	5.24	117.36	109.50
52	BT	113	LYS	N-CA-C	-5.23	107.07	113.50
1	CA	1129	C	N1-C1'-C2'	5.22	119.83	112.00
16	CP	79	VAL	N-CA-C	5.22	115.95	110.62
2	CB	14	GLY	N-CA-C	5.22	118.99	112.73
12	CL	57	LYS	N-CA-C	-5.22	102.76	110.48
35	DA	331	A	C2'-C3'-O3'	5.22	117.33	109.50
35	DA	728	G	C4'-C3'-O3'	5.22	117.22	109.40
35	DA	2511	U	C5'-C4'-C3'	-5.22	108.17	116.00
3	AC	137	ALA	N-CA-C	-5.21	105.07	111.75
1	CA	1502	A	N9-C1'-C2'	5.21	121.82	114.00
19	AS	22	LEU	N-CA-C	-5.21	106.23	112.59
24	AY	328	ILE	N-CA-C	5.21	117.25	108.81
35	BA	614(C)	A	C2'-C3'-O3'	5.21	117.32	109.50
35	DA	1818	U	C5'-C4'-C3'	-5.21	108.18	116.00
32	B7	27	GLY	N-CA-C	-5.21	106.42	113.24
35	BA	2405	G	N9-C1'-C2'	5.21	119.81	112.00
1	AA	366	C	C4'-C3'-O3'	5.21	117.21	109.40
6	CF	95	GLU	CA-C-N	5.21	125.21	119.90
6	CF	95	GLU	C-N-CA	5.21	125.21	119.90
4	CD	114	ARG	N-CA-C	-5.21	105.69	111.36
24	AY	580	MET	N-CA-C	5.20	116.76	111.14
30	B5	4	HIS	CA-C-N	-5.20	114.63	120.14
30	B5	4	HIS	C-N-CA	-5.20	114.63	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	DQ	13	GLN	N-CA-C	5.20	117.40	110.53
53	BU	96	ALA	N-CA-C	-5.20	106.78	113.02
28	D3	11	SER	CA-C-N	5.20	124.89	119.64
28	D3	11	SER	C-N-CA	5.20	124.89	119.64
58	DZ	166	SER	N-CA-C	5.20	121.30	109.81
28	B3	11	SER	CA-C-N	5.20	124.89	119.64
28	B3	11	SER	C-N-CA	5.20	124.89	119.64
5	CE	150	ARG	N-CA-C	-5.20	106.72	113.16
38	DD	162	SER	N-CA-C	5.20	116.09	107.73
24	CY	491	VAL	N-CA-C	5.19	115.16	108.82
14	AN	38	GLY	N-CA-C	-5.19	105.86	114.48
35	DA	1819	A	N9-C1'-C2'	5.19	121.79	114.00
58	BZ	131	ARG	N-CA-C	-5.18	105.32	110.97
38	DD	183	ARG	N-CA-C	5.18	117.27	109.23
35	BA	1818	U	N1-C1'-C2'	5.18	119.77	112.00
1	CA	509	A	C5'-C4'-C3'	-5.18	108.23	116.00
42	DH	58	GLU	N-CA-C	-5.18	104.04	110.41
35	BA	1912	A	N9-C1'-C2'	5.18	119.77	112.00
24	AY	272	LEU	N-CA-C	-5.17	105.71	112.23
24	CY	579	GLU	N-CA-C	-5.17	105.29	111.03
35	BA	745	G	C4'-C3'-O3'	-5.17	105.24	113.00
24	CY	302	HIS	CA-C-N	5.17	126.31	119.84
24	CY	302	HIS	C-N-CA	5.17	126.31	119.84
1	AA	243	A	C2'-C3'-O3'	5.17	117.26	109.50
48	BP	62	LEU	N-CA-C	5.17	116.20	109.64
1	CA	925	G	C5'-C4'-C3'	-5.17	108.25	116.00
24	CY	278	ASP	N-CA-C	5.17	116.91	111.28
7	AG	107	ALA	N-CA-C	-5.17	105.56	111.14
58	BZ	76	LEU	N-CA-C	5.17	118.12	109.96
35	DA	1141	U	C4'-C3'-O3'	-5.16	105.25	113.00
2	CB	164	VAL	N-CA-C	5.16	117.20	109.20
35	BA	2402	C	N1-C1'-C2'	5.16	119.74	112.00
55	BW	42	ARG	N-CA-C	-5.16	106.68	112.87
58	BZ	52	SER	CB-CA-C	-5.15	109.13	116.34
1	CA	920	U	C5'-C4'-C3'	-5.15	108.28	116.00
13	AM	117	VAL	N-CA-C	5.14	115.68	108.17
56	DX	28	PHE	N-CA-C	5.14	118.11	110.14
8	AH	134	ILE	CB-CA-C	-5.14	105.18	111.92
24	AY	101	LEU	N-CA-C	5.14	116.96	110.33
35	BA	1493	C	N1-C1'-C2'	5.14	121.71	114.00
24	AY	682	GLN	N-CA-C	-5.14	106.11	112.38
1	CA	839	U	N1-C1'-C2'	5.14	119.71	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1818	U	N1-C1'-C2'	5.14	119.71	112.00
8	CH	13	ILE	N-CA-C	-5.13	106.14	111.58
24	CY	383	THR	N-CA-C	5.13	117.14	109.59
47	DO	85	VAL	N-CA-C	-5.13	101.09	108.48
49	BQ	13	GLN	N-CA-C	5.13	117.31	110.53
53	BU	17	ILE	CB-CA-C	-5.13	105.20	111.92
35	DA	1912	A	N9-C1'-C2'	5.13	119.70	112.00
35	BA	1924	C	C5'-C4'-C3'	-5.13	108.30	116.00
38	DD	88	ARG	N-CA-C	5.13	116.87	108.76
20	AT	52	ALA	N-CA-C	-5.13	104.62	111.24
29	D4	49	PHE	N-CA-C	5.13	121.72	110.80
1	AA	1447	A	N9-C1'-C2'	5.13	119.69	112.00
24	CY	171	GLU	N-CA-C	5.13	116.10	108.31
42	DH	133	VAL	N-CA-C	5.12	115.96	108.53
35	BA	2511	U	C5'-C4'-C3'	-5.12	108.31	116.00
41	BG	91	ARG	N-CA-C	5.12	116.63	108.79
31	B6	18	ARG	N-CA-C	5.12	121.71	110.80
38	BD	210	GLY	N-CA-C	-5.12	101.04	113.18
13	AM	99	ARG	N-CA-C	5.12	117.43	108.52
1	AA	925	G	C5'-C4'-C3'	-5.12	108.32	116.00
24	CY	325	LEU	N-CA-C	5.12	116.60	108.67
36	DB	88	C	N1-C1'-C2'	5.12	119.68	112.00
47	BO	66	LYS	N-CA-C	-5.11	106.55	112.89
42	DH	123	PHE	N-CA-C	5.11	117.06	108.73
24	AY	612	THR	N-CA-C	5.11	116.51	108.23
49	BQ	137	TYR	N-CA-C	-5.11	107.21	112.93
44	DK	90	LYS	CA-C-N	5.11	125.10	119.89
44	DK	90	LYS	C-N-CA	5.11	125.10	119.89
16	AP	67	THR	N-CA-C	-5.11	104.13	110.41
1	CA	812	C	C1'-C2'-O2'	-5.11	104.14	111.80
11	CK	116	HIS	N-CA-C	-5.10	104.46	111.81
2	AB	14	GLY	N-CA-C	5.09	118.84	112.73
7	AG	147	ALA	N-CA-C	-5.09	105.17	111.33
38	BD	261	LYS	N-CA-C	5.09	117.68	110.10
6	AF	20	ALA	N-CA-C	-5.08	105.39	111.03
48	BP	138	LEU	N-CA-C	-5.08	105.99	113.61
58	BZ	178	GLU	N-CA-C	-5.08	101.68	109.76
46	DN	114	ARG	N-CA-C	-5.08	104.72	112.04
42	BH	162	ILE	N-CA-C	5.08	113.92	106.55
35	DA	2033	A	C2'-C3'-O3'	5.08	117.11	109.50
35	BA	2481	G	C4'-C3'-O3'	-5.07	105.39	113.00
36	DB	44	G	N9-C1'-C2'	5.07	119.61	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	DG	166	ASP	N-CA-C	-5.07	105.75	111.28
47	DO	82	ASN	N-CA-C	-5.07	100.03	108.34
10	AJ	64	GLU	N-CA-C	5.07	117.56	109.65
35	BA	2405	G	C4'-C3'-O3'	-5.07	105.40	113.00
35	BA	2732	G	C4'-C3'-O3'	-5.07	105.40	113.00
38	BD	107	ALA	N-CA-C	5.07	118.61	109.44
36	BB	88	C	N1-C1'-C2'	5.06	119.59	112.00
5	AE	98	THR	N-CA-C	-5.06	107.05	113.43
51	BS	92	TYR	N-CA-C	5.06	121.58	110.80
2	CB	112	VAL	N-CA-C	-5.06	106.14	110.74
35	BA	1819	A	N9-C1'-C2'	5.06	121.59	114.00
22	CV	76	A	C2'-C3'-O3'	-5.06	101.92	109.50
38	DD	114	GLY	N-CA-C	-5.06	107.72	115.00
40	BF	105	VAL	N-CA-C	-5.05	107.92	113.43
24	CY	254	LYS	N-CA-C	-5.05	108.38	114.75
37	DC	149	ASN	N-CA-C	-5.05	106.33	113.20
2	AB	122	PHE	N-CA-C	-5.05	105.77	111.28
41	BG	78	SER	N-CA-C	-5.05	105.22	111.33
1	CA	203	U	C4'-C3'-O3'	5.05	116.98	109.40
24	AY	639	ASN	N-CA-C	-5.05	107.12	113.28
7	CG	143	ARG	N-CA-C	-5.05	105.22	111.33
1	AA	481	G	C5'-C4'-C3'	-5.05	107.63	115.20
1	AA	203	U	C4'-C3'-O3'	5.05	116.97	109.40
33	D8	47	LYS	N-CA-C	5.05	115.97	108.60
53	DU	28	ARG	N-CA-C	-5.04	106.39	112.54
1	AA	1335	C	C2'-C3'-O3'	-5.04	106.14	113.70
7	AG	11	GLN	N-CA-C	5.04	116.99	108.02
35	BA	1141	U	C4'-C3'-O3'	-5.04	105.44	113.00
35	BA	1904	G	C5'-C4'-C3'	-5.04	108.44	116.00
1	AA	560	U	N1-C1'-C2'	5.03	119.55	112.00
47	DO	47	ILE	CA-C-N	5.03	126.13	119.84
47	DO	47	ILE	C-N-CA	5.03	126.13	119.84
6	CF	38	GLU	N-CA-C	-5.03	100.09	110.80
7	CG	40	ALA	N-CA-C	-5.03	105.69	111.07
41	DG	178	PHE	CA-C-N	5.03	125.18	119.90
41	DG	178	PHE	C-N-CA	5.03	125.18	119.90
1	AA	839	U	N1-C1'-C2'	5.02	119.53	112.00
1	AA	572	A	N9-C1'-C2'	5.02	119.53	112.00
11	CK	40	ILE	N-CA-C	-5.02	107.24	111.56
31	B6	51	GLU	N-CA-C	-5.02	103.97	110.19
1	CA	366	C	C4'-C3'-O3'	5.02	116.93	109.40
1	CA	1054	C	N1-C1'-C2'	5.02	119.53	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	CY	679	VAL	N-CA-C	-5.02	101.64	107.61
35	DA	783	A	C3'-C2'-O2'	5.02	118.23	110.70
31	B6	53	LYS	N-CA-C	5.02	115.94	108.31
3	CC	30	ARG	N-CA-C	5.02	116.75	111.28
6	CF	60	PHE	N-CA-C	5.01	118.29	110.32
35	DA	793	A	C4'-C3'-O3'	-5.01	105.48	113.00
35	DA	1850	G	C5'-C4'-C3'	-5.01	108.48	116.00
35	BA	331	A	C2'-C3'-O3'	5.01	117.02	109.50
24	AY	498	ILE	N-CA-C	5.01	119.76	109.34
1	CA	1411	C	C5'-C4'-C3'	-5.01	108.48	116.00
8	CH	77	GLU	N-CA-C	-5.01	103.07	110.48
35	BA	1351	C	C5'-C4'-C3'	-5.01	108.49	116.00
37	DC	220	GLY	N-CA-C	5.01	118.26	112.10
24	AY	130	VAL	CA-C-N	5.01	125.45	120.14
24	AY	130	VAL	C-N-CA	5.01	125.45	120.14
37	BC	149	ASN	N-CA-C	-5.01	106.39	113.20
46	BN	114	ARG	N-CA-C	-5.01	104.83	112.04
24	CY	603	GLU	CA-C-N	5.01	126.10	119.84
24	CY	603	GLU	C-N-CA	5.01	126.10	119.84
35	DA	1493	C	N1-C1'-C2'	5.01	121.51	114.00
24	AY	403	GLU	N-CA-C	-5.00	101.99	109.95
3	AC	78	GLY	N-CA-C	-5.00	103.71	112.77
1	AA	438	G	C4'-C3'-O3'	5.00	116.90	109.40
24	AY	569	ASP	N-CA-C	5.00	114.93	107.88
47	BO	85	VAL	N-CA-C	-5.00	101.28	108.48

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
35	BA	1799	G	C3'
35	BA	1992	G	C3'
35	DA	1799	G	C3'
35	DA	1992	G	C3'

All (232) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1053	G	Sidechain
1	AA	1055	A	Sidechain
1	AA	1077	G	Sidechain
1	AA	108	G	Sidechain
1	AA	1109	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	112	G	Sidechain
1	AA	1184	G	Sidechain
1	AA	1190	G	Sidechain
1	AA	1219	U	Sidechain
1	AA	1226	C	Sidechain
1	AA	1331	G	Sidechain
1	AA	1355	G	Sidechain
1	AA	1370	G	Sidechain
1	AA	1391	U	Sidechain
1	AA	1401	G	Sidechain
1	AA	1402	C	Sidechain
1	AA	1403	C	Sidechain
1	AA	1414	U	Sidechain
1	AA	1485	U	Sidechain
1	AA	1498	U	Sidechain
1	AA	1502	A	Sidechain
1	AA	1512	U	Sidechain
1	AA	1519	A	Sidechain
1	AA	30	U	Sidechain
1	AA	309	G	Sidechain
1	AA	361	G	Sidechain
1	AA	387	U	Sidechain
1	AA	39	G	Sidechain
1	AA	436	C	Sidechain
1	AA	5	U	Sidechain
1	AA	573	A	Sidechain
1	AA	582	U	Sidechain
1	AA	598	U	Sidechain
1	AA	672	U	Sidechain
1	AA	691	G	Sidechain
1	AA	724	G	Sidechain
1	AA	741	G	Sidechain
1	AA	748	C	Sidechain
1	AA	760	G	Sidechain
1	AA	781	A	Sidechain
1	AA	835	U	Sidechain
1	AA	887	G	Sidechain
1	AA	898	G	Sidechain
1	AA	963	G	Sidechain
1	AA	969	A	Sidechain
1	AA	971	G	Sidechain
1	AA	981	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	991	U	Sidechain
22	AV	29	G	Sidechain
22	AV	4	G	Sidechain
22	AV	8	U	Sidechain
23	AX	12	A	Sidechain
23	AX	17	U	Sidechain
35	BA	1142(A)	A	Sidechain
35	BA	1156	A	Sidechain
35	BA	1215	G	Sidechain
35	BA	1236	G	Sidechain
35	BA	1238	G	Sidechain
35	BA	1253	A	Sidechain
35	BA	1302	A	Sidechain
35	BA	1379	A	Sidechain
35	BA	1496	A	Sidechain
35	BA	1614	A	Sidechain
35	BA	1623	G	Sidechain
35	BA	1633	G	Sidechain
35	BA	1645	G	Sidechain
35	BA	1772	G	Sidechain
35	BA	1776	G	Sidechain
35	BA	1781	C	Sidechain
35	BA	1822	G	Sidechain
35	BA	1827	C	Sidechain
35	BA	1919	A	Sidechain
35	BA	1920	C	Sidechain
35	BA	1926	U	Sidechain
35	BA	1929	G	Sidechain
35	BA	1952	A	Sidechain
35	BA	1992	G	Sidechain
35	BA	200	U	Sidechain
35	BA	2009	G	Sidechain
35	BA	2010	G	Sidechain
35	BA	2031	A	Sidechain
35	BA	2051	A	Sidechain
35	BA	2052	G	Sidechain
35	BA	2053	G	Sidechain
35	BA	2059	A	Sidechain
35	BA	2079	U	Sidechain
35	BA	2126	A	Sidechain
35	BA	2250	G	Sidechain
35	BA	2266	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	2296	U	Sidechain
35	BA	2340	G	Sidechain
35	BA	2344	U	Sidechain
35	BA	2401	U	Sidechain
35	BA	2464	C	Sidechain
35	BA	248	G	Sidechain
35	BA	2481	G	Sidechain
35	BA	2494	G	Sidechain
35	BA	2504	U	Sidechain
35	BA	2506	U	Sidechain
35	BA	2508	G	Sidechain
35	BA	2518	A	Sidechain
35	BA	2564	A	Sidechain
35	BA	2569	G	Sidechain
35	BA	2609	U	Sidechain
35	BA	2659	G	Sidechain
35	BA	2685	G	Sidechain
35	BA	2826	A	Sidechain
35	BA	2835	A	Sidechain
35	BA	395	U	Sidechain
35	BA	463	G	Sidechain
35	BA	528	A	Sidechain
35	BA	562	U	Sidechain
35	BA	686	G	Sidechain
35	BA	688	U	Sidechain
35	BA	742	G	Sidechain
35	BA	788	A	Sidechain
35	BA	83	G	Sidechain
35	BA	845	G	Sidechain
35	BA	895	U	Sidechain
35	BA	913	U	Sidechain
35	BA	945	A	Sidechain
35	BA	958	U	Sidechain
36	BB	21	G	Sidechain
37	BC	28	ARG	Sidechain
44	BK	6	ALA	Peptide
1	CA	1053	G	Sidechain
1	CA	1077	G	Sidechain
1	CA	1190	G	Sidechain
1	CA	1226	C	Sidechain
1	CA	1231	G	Sidechain
1	CA	1331	G	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	1355	G	Sidechain
1	CA	1370	G	Sidechain
1	CA	1502	A	Sidechain
1	CA	1505	G	Sidechain
1	CA	1512	U	Sidechain
1	CA	1519	A	Sidechain
1	CA	1525	G	Sidechain
1	CA	1527	C	Sidechain
1	CA	204	U	Sidechain
1	CA	223	U	Sidechain
1	CA	250	A	Sidechain
1	CA	253	U	Sidechain
1	CA	30	U	Sidechain
1	CA	309	G	Sidechain
1	CA	361	G	Sidechain
1	CA	39	G	Sidechain
1	CA	436	C	Sidechain
1	CA	5	U	Sidechain
1	CA	548	G	Sidechain
1	CA	573	A	Sidechain
1	CA	582	U	Sidechain
1	CA	598	U	Sidechain
1	CA	641	U	Sidechain
1	CA	657	G	Sidechain
1	CA	672	U	Sidechain
1	CA	691	G	Sidechain
1	CA	724	G	Sidechain
1	CA	727	G	Sidechain
1	CA	741	G	Sidechain
1	CA	760	G	Sidechain
1	CA	781	A	Sidechain
1	CA	835	U	Sidechain
1	CA	887	G	Sidechain
1	CA	898	G	Sidechain
1	CA	931	C	Sidechain
1	CA	971	G	Sidechain
1	CA	991	U	Sidechain
22	CV	4	G	Sidechain
23	CX	11	U	Sidechain
35	DA	1156	A	Sidechain
35	DA	1236	G	Sidechain
35	DA	1238	G	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	1302	A	Sidechain
35	DA	1379	A	Sidechain
35	DA	1614	A	Sidechain
35	DA	1623	G	Sidechain
35	DA	1645	G	Sidechain
35	DA	1772	G	Sidechain
35	DA	1776	G	Sidechain
35	DA	1781	C	Sidechain
35	DA	1822	G	Sidechain
35	DA	1907	G	Sidechain
35	DA	1919	A	Sidechain
35	DA	1920	C	Sidechain
35	DA	1926	U	Sidechain
35	DA	1952	A	Sidechain
35	DA	1992	G	Sidechain
35	DA	2009	G	Sidechain
35	DA	2010	G	Sidechain
35	DA	2031	A	Sidechain
35	DA	2051	A	Sidechain
35	DA	2052	G	Sidechain
35	DA	2053	G	Sidechain
35	DA	2059	A	Sidechain
35	DA	2061	G	Sidechain
35	DA	2079	U	Sidechain
35	DA	2126	A	Sidechain
35	DA	2250	G	Sidechain
35	DA	2266	A	Sidechain
35	DA	2340	G	Sidechain
35	DA	2344	U	Sidechain
35	DA	2401	U	Sidechain
35	DA	2464	C	Sidechain
35	DA	248	G	Sidechain
35	DA	2481	G	Sidechain
35	DA	2494	G	Sidechain
35	DA	2506	U	Sidechain
35	DA	2508	G	Sidechain
35	DA	2518	A	Sidechain
35	DA	2659	G	Sidechain
35	DA	2685	G	Sidechain
35	DA	2732	G	Sidechain
35	DA	2835	A	Sidechain
35	DA	395	U	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	463	G	Sidechain
35	DA	528	A	Sidechain
35	DA	686	G	Sidechain
35	DA	688	U	Sidechain
35	DA	690	G	Sidechain
35	DA	742	G	Sidechain
35	DA	788	A	Sidechain
35	DA	83	G	Sidechain
35	DA	845	G	Sidechain
35	DA	895	U	Sidechain
35	DA	913	U	Sidechain
35	DA	945	A	Sidechain
35	DA	958	U	Sidechain
36	DB	21	G	Sidechain
37	DC	28	ARG	Sidechain
44	DK	5	VAL	Peptide
46	DN	72	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1242	0
1	CA	32329	0	16318	1269	0
2	AB	1901	0	1951	267	0
2	CB	1901	0	1951	263	2
3	AC	1613	0	1677	221	0
3	CC	1613	0	1677	229	0
4	AD	1703	0	1763	190	0
4	CD	1703	0	1763	203	0
5	AE	1147	0	1207	137	0
5	CE	1147	0	1207	142	0
6	AF	843	0	857	84	0
6	CF	843	0	857	83	0
7	AG	1257	0	1296	108	0
7	CG	1257	0	1296	104	0
8	AH	1116	0	1177	101	0
8	CH	1116	0	1177	99	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	AI	1010	0	1035	146	0
9	CI	1010	0	1035	140	0
10	AJ	795	0	840	184	0
10	CJ	795	0	840	179	0
11	AK	885	0	904	84	0
11	CK	885	0	904	80	0
12	AL	971	0	1057	136	0
12	CL	971	0	1057	133	0
13	AM	988	0	1059	161	0
13	CM	988	0	1059	158	0
14	AN	492	0	530	71	0
14	CN	492	0	530	71	0
15	AO	734	0	771	69	0
15	CO	734	0	771	66	0
16	AP	701	0	720	88	0
16	CP	701	0	720	90	0
17	AQ	824	0	891	61	0
17	CQ	824	0	891	57	0
18	AR	574	0	644	74	0
18	CR	574	0	644	73	0
19	AS	630	0	652	127	0
19	CS	630	0	652	124	0
20	AT	763	0	861	102	0
20	CT	763	0	861	98	0
21	AU	209	0	221	19	0
21	CU	209	0	221	22	0
22	AV	1640	0	836	72	0
22	AW	1640	0	836	82	0
22	CV	1640	0	836	47	0
22	CW	1640	0	836	71	0
23	AX	230	0	119	26	0
23	CX	230	0	119	21	0
24	AY	5215	0	5287	850	0
24	CY	5215	0	5287	796	0
25	B0	662	0	688	87	0
25	D0	662	0	688	89	0
26	B1	732	0	808	136	0
26	D1	732	0	808	133	0
27	B2	598	0	653	114	0
27	D2	598	0	653	118	0
28	B3	468	0	523	63	0
28	D3	468	0	523	57	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	B4	451	0	448	102	0
29	D4	451	0	449	106	0
30	B5	459	0	480	111	0
30	D5	459	0	480	114	0
31	B6	433	0	461	177	0
31	D6	433	0	461	180	0
32	B7	419	0	467	41	0
32	D7	419	0	467	42	0
33	B8	508	0	576	110	0
33	D8	508	0	576	112	0
34	B9	307	0	335	40	0
34	D9	307	0	335	42	0
35	BA	62474	0	31497	2709	0
35	DA	62474	0	31497	2748	0
36	BB	2551	0	1295	127	0
36	DB	2551	0	1295	137	0
37	BC	1742	0	1798	180	0
37	DC	1742	0	1798	178	2
38	BD	2145	0	2234	318	0
38	DD	2145	0	2234	319	0
39	BE	1564	0	1629	303	0
39	DE	1564	0	1629	306	0
40	BF	1624	0	1677	274	0
40	DF	1624	0	1677	276	0
41	BG	1474	0	1534	298	0
41	DG	1474	0	1534	287	0
42	BH	1269	0	1337	241	0
42	DH	1269	0	1337	227	0
43	BJ	851	0	191	28	0
43	DJ	851	0	195	44	0
44	BK	1026	0	1066	163	0
44	DK	1026	0	1066	158	0
45	BL	506	0	111	14	0
45	BM	151	0	33	1	0
45	Bl	151	0	32	0	0
45	Bm	146	0	32	3	0
45	DL	506	0	115	16	0
45	DM	151	0	32	0	0
45	DI	151	0	32	1	0
45	Dm	146	0	31	1	0
46	BN	1105	0	1180	207	0
46	DN	1105	0	1180	208	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	BO	933	0	996	116	0
47	DO	933	0	996	114	0
48	BP	1114	0	1187	307	0
48	DP	1114	0	1187	308	0
49	BQ	1122	0	1179	151	0
49	DQ	1122	0	1179	158	0
50	BR	960	0	1021	173	0
50	DR	960	0	1021	168	0
51	BS	771	0	832	182	0
51	DS	771	0	832	175	0
52	BT	1142	0	1202	259	0
52	DT	1142	0	1202	253	0
53	BU	958	0	1015	188	0
53	DU	958	0	1015	189	0
54	BV	779	0	852	145	0
54	DV	779	0	852	147	0
55	BW	896	0	953	105	0
55	DW	896	0	953	98	0
56	BX	726	0	778	89	0
56	DX	726	0	778	92	0
57	BY	811	0	901	178	0
57	DY	811	0	901	176	0
58	BZ	1468	0	1492	247	0
58	DZ	1468	0	1492	291	0
59	AD	1	0	0	0	0
59	AN	1	0	0	1	0
59	B4	1	0	0	0	0
59	B9	1	0	0	0	0
59	CD	1	0	0	0	0
59	CN	1	0	0	0	0
59	D4	1	0	0	0	0
59	D9	1	0	0	0	0
60	AY	1	0	0	0	0
60	CY	1	0	0	0	0
61	AY	37	0	47	13	0
61	CY	37	0	47	22	0
62	AY	28	0	12	8	0
62	CY	28	0	12	8	0
All	All	311552	0	214129	23348	2

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 45.

All (23348) 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)
42:DH:157:TYR:CE1	42:DH:171:LEU:HD22	1.61	1.35
42:BH:157:TYR:CE1	42:BH:171:LEU:HD22	1.62	1.32
42:DH:157:TYR:HE1	42:DH:171:LEU:CD2	1.50	1.24
42:BH:157:TYR:HE1	42:BH:171:LEU:CD2	1.50	1.24
40:DF:3:GLU:HA	40:DF:24:LEU:HG	1.24	1.20
42:BH:98:LEU:HB2	42:BH:125:VAL:HG21	1.23	1.19
24:AY:662:LYS:NZ	42:BH:175:LYS:HE3	1.58	1.19
41:BG:68:PRO:HA	41:BG:92:VAL:HG12	1.25	1.19
10:AJ:6:ILE:HD11	10:AJ:72:VAL:HB	1.23	1.19
39:BE:131:ALA:HB3	39:BE:134:ILE:HD11	1.24	1.18
35:DA:2012:G:H4'	55:DW:96:ILE:HD11	1.25	1.17
37:BC:118:PRO:HA	37:BC:121:MET:CG	1.73	1.17
56:BX:12:VAL:HB	56:BX:17:ALA:HB1	1.20	1.17
35:BA:2473:U:H3'	35:BA:2474:C:H5''	1.22	1.16
42:DH:98:LEU:HB2	42:DH:125:VAL:HG21	1.21	1.16
1:CA:509:A:H5'	1:CA:510:A:OP2	1.45	1.16
35:BA:1378:A:O2'	35:BA:1379:A:H5''	1.45	1.15
1:CA:979:C:H3'	1:CA:980:C:H5''	1.18	1.15
1:CA:1489:G:H2'	1:CA:1490:C:H5''	1.26	1.15
24:CY:670:VAL:HG23	24:CY:671:MET:H	1.07	1.15
1:AA:509:A:H5'	1:AA:510:A:OP2	1.43	1.15
35:BA:2012:G:H4'	55:BW:96:ILE:HD11	1.24	1.14
61:CY:702:FUA:H5	61:CY:702:FUA:H202	1.29	1.14
35:DA:1043:C:H2'	35:DA:1044:G:H5''	1.27	1.14
37:BC:118:PRO:HA	37:BC:121:MET:HG2	1.29	1.14
23:AX:13:A:H3'	23:AX:14:A:H5''	1.30	1.14
35:BA:612:C:H2'	35:BA:613:G:H5''	1.22	1.13
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.30	1.13
39:DE:131:ALA:HB3	39:DE:134:ILE:HD11	1.23	1.12
56:BX:12:VAL:HG23	56:BX:13:LEU:H	1.01	1.12
10:CJ:6:ILE:HD11	10:CJ:72:VAL:HB	1.23	1.12
35:DA:2473:U:H3'	35:DA:2474:C:H5''	1.21	1.12
22:AV:17:C:H5''	22:AV:17(A):U:H6	1.08	1.12
24:AY:85:PRO:HA	24:AY:94:VAL:HG22	1.29	1.12
41:BG:112:PRO:O	41:BG:113:ARG:HA	1.49	1.12
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.29	1.12
35:BA:903:C:H2'	35:BA:904:C:H5''	1.29	1.12
23:CX:13:A:H3'	23:CX:14:A:C5'	1.80	1.12
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.31	1.12
40:BF:3:GLU:HA	40:BF:24:LEU:HG	1.26	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:903:C:H2'	35:DA:904:C:H5''	1.30	1.12
35:DA:996:A:H4'	53:DU:92:ARG:HE	1.02	1.11
35:DA:1378:A:O2'	35:DA:1379:A:H5''	1.48	1.11
38:DD:35:LYS:HZ3	38:DD:36:PRO:HD3	1.14	1.11
35:DA:211:A:H2'	35:DA:212:G:H5''	1.32	1.11
24:AY:281:PRO:HB2	24:AY:286:ILE:HD11	1.33	1.11
40:BF:53:THR:HG22	40:BF:56:GLU:HG3	1.27	1.11
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.33	1.11
50:BR:99:LYS:HD3	50:BR:99:LYS:H	1.10	1.11
1:CA:656:C:H4'	15:CO:62:GLN:HE22	1.14	1.11
41:BG:77:ILE:HG22	41:BG:80:PHE:H	0.96	1.10
35:DA:2476:A:H2'	35:DA:2477:C:H5''	1.34	1.10
22:AW:14:A:H2'	22:AW:15:G:H5''	1.32	1.10
35:BA:996:A:H4'	53:BU:92:ARG:HE	1.03	1.10
46:BN:9:VAL:HG11	46:BN:39:ARG:HH22	1.09	1.10
35:DA:612:C:H2'	35:DA:613:G:H5''	1.21	1.10
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.30	1.09
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.29	1.09
35:BA:1043:C:H2'	35:BA:1044:G:H5''	1.27	1.09
38:DD:263:ARG:HH11	38:DD:263:ARG:HB2	0.96	1.09
40:DF:53:THR:HG22	40:DF:56:GLU:HG3	1.30	1.09
61:AY:702:FUA:H202	61:AY:702:FUA:H5	1.29	1.09
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.33	1.09
1:CA:793:U:H3'	1:CA:794:A:H5''	1.35	1.09
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.32	1.09
35:BA:2133:G:H2'	35:BA:2157:G:H22	1.18	1.09
35:DA:925:C:H2'	35:DA:926:A:H5''	1.34	1.09
42:DH:157:TYR:CE1	42:DH:171:LEU:CD2	2.30	1.09
1:AA:979:C:H3'	1:AA:980:C:H5''	1.18	1.08
40:DF:53:THR:HG23	40:DF:55:GLY:H	1.14	1.08
35:BA:1845:G:H2'	35:BA:1846:G:H5''	1.33	1.08
56:DX:12:VAL:HG23	56:DX:13:LEU:H	1.00	1.08
24:AY:490:PRO:HG3	24:AY:516:PRO:HD2	1.35	1.08
31:B6:5:VAL:HG23	35:BA:2283:C:H5'	1.33	1.08
25:D0:11:ARG:HB2	25:D0:11:ARG:HH11	1.16	1.08
35:DA:2133:G:H2'	35:DA:2157:G:H22	1.18	1.08
40:BF:154:VAL:HG22	40:BF:191:ARG:HB3	1.33	1.08
46:DN:9:VAL:HG11	46:DN:39:ARG:HH22	1.10	1.08
22:AV:17:C:H5''	22:AV:17(A):U:C6	1.89	1.08
40:BF:53:THR:HG23	40:BF:55:GLY:H	1.14	1.08
1:CA:1318:A:H1'	19:CS:37:ARG:HH21	1.15	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.28	1.08
38:BD:263:ARG:HB2	38:BD:263:ARG:HH11	0.93	1.07
41:BG:63:ILE:HA	41:BG:143:GLU:HG3	1.36	1.07
40:DF:167:ALA:HB1	40:DF:173:VAL:HG11	1.36	1.07
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.19	1.07
24:AY:157:LEU:H	24:AY:157:LEU:HD23	1.12	1.07
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.32	1.07
50:DR:99:LYS:HD3	50:DR:99:LYS:H	1.10	1.07
1:AA:656:C:H4'	15:AO:62:GLN:HE22	1.18	1.07
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.34	1.07
58:DZ:10:ARG:HD2	58:DZ:36:LYS:HE2	1.35	1.07
35:BA:272(I):U:O4	35:BA:363(A):A:N1	1.87	1.07
56:DX:12:VAL:HB	56:DX:17:ALA:HB1	1.17	1.07
38:BD:263:ARG:HB2	38:BD:263:ARG:NH1	1.68	1.06
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.37	1.06
35:BA:925:C:H2'	35:BA:926:A:H5''	1.35	1.06
35:BA:965:C:H5'	35:BA:2273:A:H1'	1.38	1.06
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.31	1.06
35:DA:272(I):U:O4	35:DA:363(A):A:N1	1.86	1.06
42:DH:12:PRO:HD3	42:DH:49:VAL:HG12	1.37	1.06
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.35	1.06
38:BD:35:LYS:HZ3	38:BD:36:PRO:HD3	1.13	1.06
56:BX:11:PRO:HA	56:BX:28:PHE:HB3	1.36	1.06
58:BZ:69:THR:HG22	58:BZ:90:VAL:HA	1.36	1.06
35:DA:1845:G:H2'	35:DA:1846:G:H5''	1.36	1.06
51:DS:13:ARG:HG3	51:DS:14:VAL:H	1.16	1.06
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	1.95	1.06
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.31	1.05
35:BA:1503:U:H2'	35:BA:1504:C:H6	1.15	1.05
48:BP:55:ARG:HG2	48:BP:56:SER:H	1.17	1.05
51:BS:13:ARG:HG3	51:BS:14:VAL:H	1.17	1.05
57:BY:28:LYS:HB3	57:BY:37:VAL:HB	1.31	1.05
38:DD:263:ARG:HB2	38:DD:263:ARG:NH1	1.70	1.05
40:DF:40:GLN:HE22	40:DF:182:ASN:HB2	1.20	1.05
42:BH:12:PRO:HD3	42:BH:49:VAL:HG12	1.37	1.05
44:DK:109:LYS:HA	44:DK:112:MET:HE3	1.34	1.05
57:DY:28:LYS:HB3	57:DY:37:VAL:HB	1.34	1.05
27:B2:69:ARG:HH22	35:BA:111:A:H4'	1.20	1.05
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	1.85	1.05
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	1.38	1.05
24:CY:409:ILE:HG22	24:CY:459:LEU:HD21	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:5:VAL:HG23	35:DA:2283:C:H5'	1.35	1.05
42:BH:157:TYR:CE1	42:BH:171:LEU:CD2	2.30	1.05
56:DX:11:PRO:HA	56:DX:28:PHE:HB3	1.39	1.05
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.37	1.05
1:AA:793:U:H3'	1:AA:794:A:H5''	1.36	1.05
35:BA:211:A:H2'	35:BA:212:G:H5''	1.33	1.05
58:BZ:151:HIS:HA	58:BZ:171:ILE:HG23	1.36	1.05
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.17	1.05
13:CM:27:LYS:HE2	13:CM:31:LYS:HE3	1.38	1.05
40:DF:154:VAL:HG22	40:DF:191:ARG:HB3	1.35	1.05
41:DG:46:ALA:HB2	41:DG:88:ILE:HB	1.36	1.05
41:DG:62:LEU:H	41:DG:62:LEU:HD12	1.22	1.05
38:BD:71:ASP:HB2	38:BD:103:ARG:HH22	1.20	1.04
52:BT:38:ASN:HD22	52:BT:38:ASN:C	1.65	1.04
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.32	1.04
25:D0:27:GLU:CD	25:D0:27:GLU:H	1.64	1.04
35:DA:1899:G:N2	35:DA:1902:C:H41	1.54	1.04
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.20	1.04
25:B0:27:GLU:CD	25:B0:27:GLU:H	1.64	1.04
44:BK:109:LYS:HA	44:BK:112:MET:HE3	1.36	1.04
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.35	1.04
24:CY:92:ILE:HG23	24:CY:93:GLU:H	1.22	1.04
35:DA:965:C:H5'	35:DA:2273:A:H1'	1.40	1.04
35:DA:1747(A):G:C2'	35:DA:1748:G:H5''	1.87	1.04
48:DP:55:ARG:HG2	48:DP:56:SER:H	1.22	1.04
52:DT:38:ASN:C	52:DT:38:ASN:HD22	1.65	1.04
1:AA:1238:A:H5'	1:AA:1336:C:H41	1.19	1.04
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.39	1.04
52:BT:65:LYS:HE3	52:BT:66:VAL:H	1.21	1.04
52:BT:115:ARG:HH11	52:BT:115:ARG:HB3	1.23	1.04
38:DD:65:ILE:HG22	38:DD:104:TYR:HB3	1.40	1.04
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.18	1.03
22:AV:21:A:H61	22:AV:46:G:H2'	1.20	1.03
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.37	1.03
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.34	1.03
23:CX:13:A:C3'	23:CX:14:A:H5''	1.87	1.03
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.40	1.03
24:AY:662:LYS:HZ1	42:BH:175:LYS:HE3	1.07	1.03
38:BD:65:ILE:HG22	38:BD:104:TYR:HB3	1.39	1.03
3:AC:16:ARG:HB2	3:AC:16:ARG:HH11	1.23	1.03
13:AM:27:LYS:HE2	13:AM:31:LYS:HE3	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:11:ARG:HB2	25:B0:11:ARG:HH11	1.18	1.03
35:BA:1899:G:N2	35:BA:1902:C:H41	1.55	1.03
41:BG:77:ILE:HG22	41:BG:80:PHE:N	1.73	1.03
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.40	1.03
35:DA:2579:C:H4'	39:DE:134:ILE:HG12	1.40	1.03
5:AE:101:ILE:HD11	5:AE:119:LEU:HA	1.40	1.03
30:B5:2:ALA:HA	35:BA:2015:A:H1'	1.39	1.03
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.37	1.03
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.17	1.03
30:D5:44:THR:HG21	50:DR:101:ALA:HB2	1.41	1.03
35:DA:1452:A:H3'	35:DA:1453:U:H5''	1.36	1.03
38:DD:71:ASP:HB2	38:DD:103:ARG:HH22	1.17	1.03
26:D1:44:PRO:HG2	26:D1:46:LEU:HD21	1.41	1.02
35:DA:1503:U:H2'	35:DA:1504:C:H6	1.14	1.02
24:AY:423:LYS:HB3	24:AY:472:VAL:HG22	1.41	1.02
58:BZ:166:SER:HB2	58:BZ:167:PRO:C	1.83	1.02
24:CY:17:ILE:O	24:CY:85:PRO:HG2	1.60	1.02
40:DF:192:LEU:HD21	40:DF:194:MET:HG3	1.41	1.02
41:DG:38:VAL:HG23	41:DG:158:ALA:HB3	1.38	1.02
44:BK:19:PRO:HB3	44:BK:34:ILE:HD12	1.40	1.02
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	1.98	1.02
52:DT:115:ARG:HB3	52:DT:115:ARG:HH11	1.24	1.02
44:DK:19:PRO:HB3	44:DK:34:ILE:HD12	1.41	1.02
24:CY:136:ALA:HB3	24:CY:260:LEU:HB3	1.37	1.02
30:D5:2:ALA:HA	35:DA:2015:A:H1'	1.39	1.02
37:DC:128:LEU:HD21	37:DC:132:LEU:HD11	1.41	1.02
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.43	1.01
1:CA:1238:A:H5'	1:CA:1336:C:H41	1.22	1.01
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.24	1.01
30:B5:44:THR:HG21	50:BR:101:ALA:HB2	1.42	1.01
48:BP:41:ARG:HH21	48:BP:41:ARG:HA	1.25	1.01
58:BZ:28:MET:HB3	58:BZ:88:PHE:HB2	1.42	1.01
47:DO:111:PHE:HB3	47:DO:114:ILE:HD13	1.42	1.01
49:DQ:97:VAL:HG11	49:DQ:103:MET:HE3	1.41	1.01
22:CV:47:U:H3'	22:CV:48:C:H5'	1.38	1.01
24:CY:84:THR:H	24:CY:85:PRO:HD3	1.25	1.01
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.42	1.01
48:DP:41:ARG:HA	48:DP:41:ARG:HH21	1.25	1.01
52:DT:28:VAL:HG21	52:DT:46:GLU:HG3	1.39	1.01
41:BG:133:LEU:HD11	41:BG:157:ILE:HD12	1.42	1.01
13:CM:124:PRO:HG2	24:CY:574:GLU:H	1.25	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:C3'	1:AA:980:C:H5''	1.90	1.00
35:BA:2287:A:H62	35:BA:2344:U:H3	1.01	1.00
24:CY:33:LEU:HD23	24:CY:360:ALA:HB2	1.40	1.00
44:BK:4:VAL:HG12	44:BK:5:VAL:H	1.26	1.00
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.26	1.00
35:DA:2287:A:H62	35:DA:2344:U:H3	1.01	1.00
48:DP:16:ARG:HD3	48:DP:18:ARG:H	1.26	1.00
35:BA:1452:A:H3'	35:BA:1453:U:H5''	1.38	1.00
35:DA:154(A):C:H5''	35:DA:155:U:H5''	1.44	1.00
1:AA:1128:C:H2'	1:AA:1129:C:H5''	1.42	1.00
5:CE:101:ILE:HD11	5:CE:119:LEU:HA	1.43	1.00
2:AB:168:THR:HG23	2:AB:192:SER:HB3	1.38	1.00
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.42	1.00
1:CA:1489:G:C2'	1:CA:1490:C:H5''	1.91	1.00
41:DG:68:PRO:HA	41:DG:92:VAL:CG1	1.92	1.00
24:AY:546:ILE:HG23	24:AY:590:ILE:HG13	1.40	1.00
2:CB:168:THR:HG23	2:CB:192:SER:HB3	1.40	1.00
35:DA:1301:A:O2'	35:DA:1302:A:H2'	1.62	1.00
35:BA:142:A:H1'	35:BA:1408:C:H1'	1.44	0.99
1:CA:979:C:C3'	1:CA:980:C:H5''	1.92	0.99
24:CY:153:MET:HA	24:CY:157:LEU:HD21	1.43	0.99
31:B6:48:VAL:HG23	31:B6:49:HIS:H	1.27	0.99
35:BA:2523:G:H2'	35:BA:2524:G:H5''	1.44	0.99
38:BD:35:LYS:HD2	38:BD:36:PRO:N	1.77	0.99
40:BF:40:GLN:HE22	40:BF:182:ASN:HB2	1.19	0.99
52:DT:65:LYS:HE3	52:DT:66:VAL:H	1.24	0.99
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.42	0.99
46:DN:54:VAL:HB	46:DN:122:VAL:HG22	1.43	0.99
5:AE:80:ILE:HG22	8:AH:104:ARG:NH2	1.78	0.99
40:DF:110:LEU:HD12	40:DF:206:ILE:HD11	1.43	0.99
58:DZ:115:GLY:H	58:DZ:177:PRO:HG3	1.25	0.99
5:AE:87:SER:HB3	5:AE:131:ILE:HD13	1.41	0.99
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.27	0.99
35:DA:2286:A:H4'	35:DA:2287:A:H5'	1.45	0.99
35:BA:2579:C:H4'	39:BE:134:ILE:HG12	1.44	0.99
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.41	0.99
23:AX:13:A:C3'	23:AX:14:A:H5''	1.92	0.99
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.44	0.99
35:BA:1452:A:H3'	35:BA:1453:U:C5'	1.92	0.98
35:BA:272(G):C:H2'	35:BA:272(H):C:H5''	1.44	0.98
24:CY:546:ILE:HG23	24:CY:590:ILE:HG13	1.39	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:16:ARG:HD3	48:BP:18:ARG:H	1.28	0.98
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.45	0.98
35:DA:1452:A:H3'	35:DA:1453:U:C5'	1.92	0.98
58:DZ:179:ASP:HB3	58:DZ:182:LYS:HE2	1.45	0.98
12:AL:83:VAL:HG11	12:AL:100:ILE:HD13	1.44	0.98
1:CA:975:A:H4'	1:CA:976:G:H5''	1.45	0.98
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.26	0.98
27:B2:3:LEU:HD22	27:B2:7:ARG:HH12	1.28	0.98
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.43	0.98
35:DA:272(J):C:H3'	35:DA:274:G:H5''	1.44	0.98
41:BG:59:GLU:HA	41:BG:62:LEU:HD13	1.43	0.98
35:DA:272(G):C:H2'	35:DA:272(H):C:H5''	1.43	0.98
24:AY:35:TYR:OH	24:AY:266:ASN:HB3	1.64	0.98
40:BF:110:LEU:HD12	40:BF:206:ILE:HD11	1.46	0.98
52:BT:28:VAL:HG21	52:BT:46:GLU:HG3	1.43	0.98
38:BD:32:SER:O	38:BD:36:PRO:HG3	1.64	0.98
24:CY:84:THR:HA	61:CY:702:FUA:H322	1.46	0.98
38:DD:34:VAL:HG23	38:DD:35:LYS:H	1.28	0.98
1:AA:975:A:H4'	1:AA:976:G:H5''	1.45	0.97
28:B3:31:LEU:HD13	28:B3:32:GLN:HG2	1.44	0.97
35:BA:1301:A:O2'	35:BA:1302:A:H2'	1.63	0.97
53:BU:20:LEU:HD22	53:BU:20:LEU:H	1.29	0.97
26:D1:76:ARG:HH22	26:D1:95:LEU:HD13	1.26	0.97
35:DA:211:A:C2'	35:DA:212:G:H5''	1.93	0.97
39:DE:38:THR:HG22	39:DE:40:GLU:H	1.25	0.97
35:BA:2262:U:H2'	35:BA:2263:C:H5'	1.46	0.97
35:DA:612:C:C2'	35:DA:613:G:H5''	1.94	0.97
44:DK:93:ARG:HB2	58:DZ:112:ARG:HE	1.25	0.97
24:AY:276:VAL:HA	24:AY:280:LEU:HD23	1.44	0.97
47:BO:111:PHE:HB3	47:BO:114:ILE:HD13	1.46	0.97
35:DA:1803:A:O3'	38:DD:259:THR:HG21	1.64	0.97
24:AY:428:LEU:HD13	24:AY:440:VAL:HG11	1.42	0.97
35:BA:154(A):C:H5''	35:BA:155:U:H5''	1.45	0.97
28:D3:31:LEU:HD13	28:D3:32:GLN:HG2	1.44	0.97
31:D6:48:VAL:HG23	31:D6:49:HIS:H	1.30	0.97
35:BA:2286:A:H4'	35:BA:2287:A:H5'	1.44	0.97
22:CW:21:U:O2'	35:DA:2112:G:H1'	1.64	0.97
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.28	0.97
35:BA:211:A:C2'	35:BA:212:G:H5''	1.94	0.97
35:BA:1814:G:H3'	35:BA:1815:A:H5''	1.46	0.97
49:BQ:97:VAL:HG11	49:BQ:103:MET:HE3	1.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:46:G:H4'	22:AV:47:U:H5	1.25	0.97
24:AY:427:ALA:HB1	24:AY:466:LEU:HD11	1.44	0.97
28:D3:17:LYS:HG2	35:DA:969:U:OP1	1.65	0.97
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.30	0.97
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.25	0.97
24:AY:84:THR:H	24:AY:85:PRO:HD2	1.27	0.96
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.26	0.96
35:DA:2523:G:H2'	35:DA:2524:G:H5''	1.44	0.96
39:DE:117:MET:HA	39:DE:122:PHE:H	1.30	0.96
27:D2:16:LEU:HB3	27:D2:20:GLU:HG2	1.45	0.96
1:AA:129(A):G:O2'	1:AA:189(F):U:H2'	1.66	0.96
24:AY:409:ILE:HD11	24:AY:654:GLY:HA2	1.44	0.96
1:CA:1128:C:H2'	1:CA:1129:C:H5''	1.43	0.96
24:CY:606:MET:HE2	24:CY:671:MET:HE3	1.47	0.96
51:DS:15:ARG:HB3	51:DS:18:ILE:HD11	1.47	0.96
35:DA:27:G:H22	35:DA:512:G:H2'	1.29	0.96
47:DO:17:ARG:HE	47:DO:47:ILE:HD11	1.30	0.96
25:B0:7:LEU:HD12	49:BQ:85:LYS:HE2	1.47	0.96
39:BE:38:THR:HG22	39:BE:40:GLU:H	1.25	0.96
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.46	0.96
38:DD:32:SER:O	38:DD:36:PRO:HG3	1.66	0.96
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.44	0.96
44:DK:99:ILE:HG23	44:DK:103:GLN:HB2	1.47	0.96
24:AY:453:GLY:HA3	24:AY:459:LEU:HD11	1.46	0.96
35:BA:27:G:H22	35:BA:512:G:H2'	1.30	0.96
40:DF:3:GLU:CA	40:DF:24:LEU:HG	1.95	0.96
35:DA:240:G:H3'	35:DA:241:A:H5''	1.45	0.96
51:DS:28:VAL:HG12	51:DS:29:PHE:H	1.31	0.96
35:BA:612:C:C2'	35:BA:613:G:H5''	1.95	0.96
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.13	0.96
38:DD:35:LYS:HD2	38:DD:36:PRO:N	1.81	0.96
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.45	0.95
28:B3:16:PRO:HB2	28:B3:18:ASP:OD1	1.65	0.95
35:BA:272(J):C:H3'	35:BA:274:G:H5''	1.45	0.95
2:CB:118:LEU:HB3	2:CB:142:LEU:HD12	1.47	0.95
22:CV:17:C:H5''	22:CV:17(A):U:H6	1.30	0.95
35:DA:2584:U:H2'	35:DA:2585:U:H5'	1.48	0.95
48:DP:30:THR:HG22	48:DP:31:ALA:H	1.30	0.95
48:BP:38:GLN:HG3	48:BP:39:LYS:H	1.31	0.95
48:DP:59:LEU:HA	48:DP:61:ARG:NE	1.81	0.95
38:BD:34:VAL:HG23	38:BD:35:LYS:H	1.30	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:135:LEU:HD11	41:BG:155:MET:HG2	1.46	0.95
33:D8:61:LEU:HD12	33:D8:62:LEU:H	1.31	0.95
26:B1:81:LYS:HE2	35:BA:271(H):G:H4'	1.48	0.95
26:B1:86:SER:HB3	26:B1:89:GLU:HB2	1.46	0.95
46:BN:46:VAL:HG13	46:BN:47:ALA:H	1.30	0.95
1:CA:1452:C:H1'	1:CA:1456:G:N2	1.81	0.95
35:DA:142:A:H1'	35:DA:1408:C:H1'	1.45	0.95
26:D1:46:LEU:H	26:D1:46:LEU:HD22	1.30	0.95
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.48	0.95
48:BP:59:LEU:HA	48:BP:61:ARG:NE	1.80	0.95
35:DA:1884:A:H2'	35:DA:1885:A:H5''	1.47	0.95
35:BA:2584:U:H2'	35:BA:2585:U:H5'	1.47	0.95
46:BN:54:VAL:HB	46:BN:122:VAL:HG22	1.46	0.95
24:CY:388:THR:HG21	24:CY:399:LEU:HD13	1.49	0.95
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.67	0.95
1:AA:80:G:H3'	1:AA:81:U:H5'	1.48	0.95
1:AA:1489:G:H2'	1:AA:1490:C:H5''	1.47	0.95
48:BP:30:THR:HG22	48:BP:31:ALA:H	1.30	0.95
27:D2:69:ARG:HH22	35:DA:111:A:H5''	1.32	0.95
28:D3:16:PRO:HB2	28:D3:18:ASP:OD1	1.67	0.95
35:DA:2572:A:H5'	35:DA:2574:G:H4'	1.49	0.95
48:DP:38:GLN:HG3	48:DP:39:LYS:H	1.27	0.95
1:AA:1502:A:H2	1:AA:1505:G:H1	0.98	0.95
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.82	0.95
48:DP:85:LEU:HD12	48:DP:120:ALA:HB2	1.49	0.95
40:BF:34:TRP:HB2	48:BP:10:PRO:HB2	1.46	0.94
40:BF:192:LEU:HD21	40:BF:194:MET:HG3	1.44	0.94
38:DD:35:LYS:HG2	38:DD:63:ARG:HA	1.49	0.94
53:DU:20:LEU:H	53:DU:20:LEU:HD22	1.31	0.94
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.32	0.94
35:BA:1803:A:O3'	38:BD:259:THR:HG21	1.67	0.94
50:BR:99:LYS:HD3	50:BR:99:LYS:N	1.83	0.94
51:BS:34:HIS:HB3	51:BS:53:SER:HB3	1.49	0.94
50:DR:99:LYS:HD3	50:DR:99:LYS:N	1.82	0.94
35:DA:813:U:H2'	35:DA:814:C:C6	2.02	0.94
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.02	0.94
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.29	0.94
33:D8:33:ASN:H	33:D8:33:ASN:HD22	0.97	0.94
44:DK:106:GLU:HA	44:DK:109:LYS:HD3	1.50	0.94
33:B8:61:LEU:HD12	33:B8:62:LEU:H	1.32	0.94
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:C:C2'	1:AA:1129:C:H5''	1.98	0.94
11:AK:54:ARG:O	11:AK:57:THR:HG22	1.68	0.94
24:AY:113:GLY:C	24:AY:115:GLU:H	1.75	0.94
35:BA:240:G:H3'	35:BA:241:A:H5''	1.49	0.94
35:BA:1038:C:H3'	35:BA:1039:G:H5''	1.50	0.94
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.63	0.94
1:CA:129(A):G:O2'	1:CA:189(F):U:H2'	1.67	0.94
35:DA:1038:C:H3'	35:DA:1039:G:H5''	1.49	0.94
35:DA:2133:G:H2'	35:DA:2157:G:N2	1.83	0.94
36:BB:7:G:H2'	36:BB:8:U:H5''	1.49	0.94
48:BP:85:LEU:HD12	48:BP:120:ALA:HB2	1.48	0.94
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.01	0.94
20:AT:13:LEU:H	20:AT:13:LEU:HD12	1.33	0.94
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.31	0.94
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.67	0.94
48:DP:7:ARG:HB3	48:DP:8:PRO:HD3	1.50	0.94
56:DX:12:VAL:HG23	56:DX:13:LEU:N	1.81	0.94
26:B1:46:LEU:HB3	26:B1:63:ALA:HA	1.46	0.94
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.68	0.94
51:BS:28:VAL:HG12	51:BS:29:PHE:H	1.31	0.93
30:D5:56:LYS:HG3	30:D5:57:VAL:H	1.33	0.93
35:DA:1814:G:H3'	35:DA:1815:A:H5''	1.48	0.93
58:DZ:7:ALA:HB3	58:DZ:61:LEU:HD23	1.50	0.93
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.68	0.93
44:BK:6:ALA:HB3	44:BK:59:ILE:HG22	1.47	0.93
42:BH:85:LYS:HZ3	42:BH:87:LEU:HG	1.33	0.93
44:BK:99:ILE:HG23	44:BK:103:GLN:HB2	1.48	0.93
1:CA:1128:C:C2'	1:CA:1129:C:H5''	1.98	0.93
26:D1:23:LYS:HE2	26:D1:28:GLY:HA3	1.49	0.93
35:DA:871:U:OP1	49:DQ:5:ARG:HG3	1.69	0.93
41:DG:60:LEU:HA	41:DG:63:ILE:HD11	1.50	0.93
46:DN:46:VAL:HG13	46:DN:47:ALA:H	1.31	0.93
52:DT:28:VAL:HG22	52:DT:46:GLU:HA	1.48	0.93
58:DZ:29:TYR:HB3	58:DZ:34:ASN:HB2	1.50	0.93
3:AC:20:SER:HB3	3:AC:40:ARG:HH22	1.33	0.93
38:BD:35:LYS:HG2	38:BD:63:ARG:HA	1.49	0.93
51:BS:15:ARG:HB3	51:BS:18:ILE:HD11	1.50	0.93
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.34	0.93
35:DA:2756:U:H4'	35:DA:2757:A:OP1	1.68	0.93
56:DX:35:THR:HG22	56:DX:37:THR:H	1.33	0.93
2:AB:118:LEU:HB3	2:AB:142:LEU:HD12	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2133:G:H2'	35:BA:2157:G:N2	1.82	0.93
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.69	0.93
40:BF:3:GLU:CA	40:BF:24:LEU:HG	1.96	0.93
46:BN:45:ASN:HD22	46:BN:45:ASN:H	1.12	0.93
41:DG:133:LEU:HD12	41:DG:157:ILE:HB	1.49	0.93
48:BP:55:ARG:HG2	48:BP:56:SER:N	1.79	0.93
3:CC:70:VAL:HG12	3:CC:71:ALA:H	1.33	0.93
12:CL:83:VAL:HG11	12:CL:100:ILE:HD13	1.47	0.93
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.68	0.93
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.34	0.93
35:DA:1899:G:H22	35:DA:1902:C:N4	1.66	0.93
38:BD:263:ARG:HH11	38:BD:263:ARG:CB	1.80	0.93
44:BK:106:GLU:HA	44:BK:109:LYS:HD3	1.49	0.93
57:BY:8:LYS:HB2	57:BY:28:LYS:NZ	1.84	0.93
3:CC:79:ARG:HB2	3:CC:79:ARG:HH11	1.32	0.93
24:CY:652:MET:HA	24:CY:652:MET:HE3	1.48	0.93
41:DG:63:ILE:HA	41:DG:143:GLU:HG3	1.51	0.93
57:DY:8:LYS:HB2	57:DY:28:LYS:NZ	1.83	0.93
19:AS:42:PRO:HB3	29:B4:50:VAL:HG21	1.51	0.93
35:BA:2756:U:H4'	35:BA:2757:A:OP1	1.66	0.93
24:CY:157:LEU:HD23	24:CY:157:LEU:H	1.32	0.93
33:D8:56:GLU:HA	33:D8:59:LYS:NZ	1.83	0.93
28:B3:17:LYS:HG2	35:BA:969:U:OP1	1.68	0.93
39:BE:111:ARG:HA	50:BR:2:ARG:HB3	1.50	0.93
52:BT:28:VAL:HG22	52:BT:46:GLU:HA	1.50	0.93
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.51	0.92
35:DA:1494:A:O2'	35:DA:1495:A:H5''	1.67	0.92
35:DA:1845:G:C2'	35:DA:1846:G:H5''	1.99	0.92
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.04	0.92
40:DF:34:TRP:HB2	48:DP:10:PRO:HB2	1.49	0.92
40:DF:84:VAL:HG12	40:DF:85:GLY:N	1.82	0.92
35:BA:1899:G:H22	35:BA:1902:C:N4	1.67	0.92
48:BP:7:ARG:HB3	48:BP:8:PRO:HD3	1.50	0.92
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.33	0.92
4:CD:129:ASN:ND2	4:CD:145:GLU:H	1.66	0.92
18:AR:29:PHE:HD2	18:AR:29:PHE:H	1.18	0.92
35:BA:2572:A:H5'	35:BA:2574:G:H4'	1.47	0.92
56:BX:12:VAL:HG23	56:BX:13:LEU:N	1.81	0.92
24:CY:632:LEU:HG	24:CY:645:ALA:HA	1.51	0.92
28:D3:8:LEU:HD22	28:D3:31:LEU:HD23	1.50	0.92
35:DA:358:U:H2'	35:DA:359:A:H8	1.35	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.52	0.92
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.31	0.92
1:AA:1054:C:O2'	1:AA:1055:A:H5''	1.70	0.92
11:AK:111:ASP:HA	18:AR:84:LYS:HD2	1.50	0.92
35:BA:903:C:C2'	35:BA:904:C:H5''	1.99	0.92
1:CA:973:G:H1'	10:CJ:55:LYS:NZ	1.83	0.92
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.05	0.92
39:DE:107:THR:O	39:DE:190:GLY:HA2	1.67	0.92
3:AC:70:VAL:HG12	3:AC:71:ALA:H	1.31	0.92
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.05	0.92
56:BX:12:VAL:CG2	56:BX:13:LEU:H	1.83	0.92
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.33	0.92
24:AY:415:PRO:HA	24:AY:474:ALA:HB2	1.50	0.92
35:BA:1845:G:C2'	35:BA:1846:G:H5''	1.99	0.92
52:BT:27:THR:O	52:BT:28:VAL:HG23	1.68	0.92
25:D0:7:LEU:HD12	49:DQ:85:LYS:HE2	1.47	0.92
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.52	0.92
39:DE:47:VAL:HG12	39:DE:48:GLN:H	1.32	0.92
35:BA:1494:A:O2'	35:BA:1495:A:H5''	1.69	0.92
35:BA:1142(A):A:C2'	35:BA:1143:A:H5''	1.99	0.92
39:BE:47:VAL:HG12	39:BE:48:GLN:H	1.33	0.92
39:BE:117:MET:HA	39:BE:122:PHE:H	1.35	0.92
26:D1:76:ARG:HH12	26:D1:95:LEU:HD22	1.33	0.92
35:DA:903:C:C2'	35:DA:904:C:H5''	1.99	0.92
35:DA:2262:U:H2'	35:DA:2263:C:H5'	1.49	0.92
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG23	1.49	0.92
3:AC:79:ARG:HH11	3:AC:79:ARG:HB2	1.32	0.92
39:BE:33:VAL:HG12	39:BE:90:THR:H	1.35	0.92
47:BO:17:ARG:HE	47:BO:47:ILE:HD11	1.30	0.92
1:AA:1452:C:H1'	1:AA:1456:G:N2	1.84	0.91
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.33	0.91
1:CA:1054:C:O2'	1:CA:1055:A:H5''	1.69	0.91
11:CK:54:ARG:O	11:CK:57:THR:HG22	1.68	0.91
41:DG:121:ASN:HB3	41:DG:124:SER:HB2	1.52	0.91
26:B1:80:LEU:HD23	26:B1:81:LYS:H	1.35	0.91
33:B8:33:ASN:HD22	33:B8:33:ASN:H	0.99	0.91
33:B8:56:GLU:HA	33:B8:59:LYS:NZ	1.83	0.91
35:BA:1043:C:C2'	35:BA:1044:G:H5''	1.99	0.91
35:BA:2296:U:H4'	35:BA:2297:C:OP1	1.70	0.91
2:CB:204:ASN:ND2	2:CB:206:ASP:H	1.67	0.91
24:AY:9:LEU:HD21	24:AY:284:LEU:HB2	1.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2712:U:O2'	35:BA:2712(A):A:H8	1.53	0.91
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.05	0.91
54:BV:51:VAL:HG12	54:BV:52:VAL:H	1.34	0.91
1:CA:80:G:H3'	1:CA:81:U:H5'	1.48	0.91
35:DA:1203:G:H4'	48:DP:7:ARG:HD2	1.49	0.91
35:DA:2138:C:H2'	35:DA:2139:C:H6	1.33	0.91
36:DB:7:G:H2'	36:DB:8:U:H5''	1.52	0.91
41:DG:34:LEU:HD22	41:DG:99:MET:HE3	1.49	0.91
51:DS:24:LEU:HB3	51:DS:85:VAL:HG12	1.52	0.91
54:DV:51:VAL:HG12	54:DV:52:VAL:H	1.34	0.91
24:AY:513:LYS:HB2	24:AY:566:THR:HB	1.52	0.91
26:B1:76:ARG:HH12	26:B1:95:LEU:HD22	1.33	0.91
35:BA:1020:A:N1	35:BA:1141:U:H2'	1.86	0.91
31:D6:8:LYS:HE3	31:D6:25:LYS:HD3	1.50	0.91
52:DT:23:ARG:HG2	52:DT:120:ARG:HH12	1.33	0.91
10:AJ:55:LYS:H	10:AJ:55:LYS:CE	1.83	0.91
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.53	0.91
24:AY:238:THR:HG22	24:AY:241:GLU:HG2	1.50	0.91
44:DK:77:LEU:HD12	44:DK:107:ILE:HG23	1.52	0.91
53:DU:90:VAL:HG21	54:DV:47:VAL:HG21	1.50	0.91
35:BA:2138:C:H2'	35:BA:2139:C:H6	1.33	0.91
42:BH:157:TYR:HE1	42:BH:171:LEU:HD21	1.34	0.91
56:BX:35:THR:HG22	56:BX:37:THR:H	1.36	0.91
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.06	0.91
35:DA:1142(A):A:C2'	35:DA:1143:A:H5''	2.00	0.91
35:DA:2296:U:H4'	35:DA:2297:C:OP1	1.68	0.91
56:DX:12:VAL:CG2	56:DX:13:LEU:H	1.82	0.91
1:AA:483:C:H3'	1:AA:484:G:H5''	1.52	0.91
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.52	0.91
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.05	0.91
35:DA:2110:G:O2'	35:DA:2120:G:H5'	1.71	0.91
52:DT:23:ARG:O	52:DT:25:GLY:N	2.04	0.91
44:BK:77:LEU:HD12	44:BK:107:ILE:HG23	1.53	0.91
38:DD:263:ARG:HH11	38:DD:263:ARG:CB	1.82	0.91
42:DH:157:TYR:HE1	42:DH:171:LEU:HD21	1.35	0.91
30:B5:56:LYS:HG3	30:B5:57:VAL:H	1.33	0.91
31:B6:8:LYS:HE3	31:B6:25:LYS:HD3	1.51	0.91
39:BE:107:THR:O	39:BE:190:GLY:HA2	1.71	0.91
24:CY:181:LEU:HD21	24:CY:243:VAL:HG22	1.51	0.91
35:DA:1452:A:C3'	35:DA:1453:U:H5''	2.01	0.91
52:DT:27:THR:O	52:DT:28:VAL:HG23	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:20:ARG:HB2	58:DZ:20:ARG:HH11	1.33	0.91
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	1.85	0.90
35:DA:1846:G:H8	35:DA:1846:G:H5'	1.33	0.90
27:B2:41:ILE:HD11	27:B2:44:LEU:HD12	1.54	0.90
35:BA:871:U:OP1	49:BQ:5:ARG:HG3	1.70	0.90
52:BT:23:ARG:HG2	52:BT:120:ARG:HH12	1.34	0.90
26:B1:86:SER:O	26:B1:90:ILE:HG12	1.71	0.90
56:BX:24:GLY:O	56:BX:82:GLN:HA	1.72	0.90
35:DA:2712:U:O2'	35:DA:2712(A):A:H8	1.54	0.90
40:DF:170:LEU:HB2	40:DF:173:VAL:HB	1.52	0.90
48:DP:39:LYS:HE2	48:DP:40:SER:H	1.37	0.90
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.50	0.90
1:CA:939:G:H5''	7:CG:102:ARG:NH2	1.86	0.90
37:DC:128:LEU:HD21	37:DC:132:LEU:CD1	2.00	0.90
58:DZ:151:HIS:HB3	58:DZ:170:THR:HA	1.54	0.90
19:AS:41:VAL:HG21	19:AS:44:MET:HB2	1.53	0.90
35:BA:1846:G:H8	35:BA:1846:G:H5'	1.34	0.90
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.52	0.90
1:AA:1502:A:H2	1:AA:1505:G:N1	1.70	0.90
53:BU:90:VAL:HG21	54:BV:47:VAL:HG21	1.49	0.90
35:DA:2189:U:H2'	35:DA:2190:G:H5''	1.54	0.90
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.52	0.90
50:DR:100:LEU:H	50:DR:100:LEU:HD22	1.37	0.90
51:DS:34:HIS:HB3	51:DS:53:SER:HB3	1.51	0.90
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.72	0.90
26:B1:45:ASN:HB2	35:BA:2230:G:H1'	1.54	0.90
35:BA:654(M):C:HO2'	35:BA:654(N):G:H8	0.94	0.90
1:CA:979:C:H3'	1:CA:980:C:C5'	2.01	0.90
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.72	0.90
35:DA:1020:A:N1	35:DA:1141:U:H2'	1.86	0.90
35:DA:1070:A:H5'	35:DA:1072:C:OP2	1.71	0.90
50:DR:45:ARG:HG3	50:DR:46:GLY:H	1.35	0.90
57:DY:94:LYS:C	57:DY:102:CYS:HB2	1.97	0.90
1:AA:979:C:H3'	1:AA:980:C:C5'	2.00	0.90
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.53	0.90
35:DA:996:A:H4'	53:DU:92:ARG:NE	1.87	0.90
35:BA:2523:G:C2'	35:BA:2524:G:H5''	2.02	0.90
44:BK:7:VAL:O	44:BK:7:VAL:HG13	1.72	0.90
35:DA:1043:C:C2'	35:DA:1044:G:H5''	2.00	0.90
54:DV:18:LEU:HD22	54:DV:19:LYS:H	1.35	0.90
1:AA:720:C:H3'	1:AA:721:G:H5''	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.34	0.90
35:BA:614(A):U:H4'	35:BA:614(B):G:H5''	1.54	0.90
35:BA:1203:G:H4'	48:BP:7:ARG:HD2	1.51	0.90
4:CD:30:LYS:C	4:CD:32:ALA:H	1.80	0.90
35:DA:2723:C:H5''	50:DR:2:ARG:HH11	1.36	0.90
35:BA:2444:G:OP2	40:BF:68:LYS:HE2	1.72	0.89
52:BT:125:ARG:HA	52:BT:125:ARG:HH11	1.34	0.89
11:CK:111:ASP:HA	18:CR:84:LYS:HD2	1.50	0.89
22:CW:51:U:H3	22:CW:65:G:H1	1.16	0.89
24:CY:670:VAL:HG23	24:CY:671:MET:N	1.82	0.89
35:DA:1899:G:N2	35:DA:1902:C:N4	2.18	0.89
39:DE:38:THR:HB	39:DE:41:LYS:HG2	1.54	0.89
24:AY:84:THR:H	24:AY:85:PRO:CD	1.84	0.89
35:BA:1899:G:N2	35:BA:1902:C:N4	2.19	0.89
1:CA:720:C:H3'	1:CA:721:G:H5''	1.55	0.89
54:DV:28:GLU:HB2	54:DV:31:ALA:HB2	1.53	0.89
35:BA:358:U:H2'	35:BA:359:A:H8	1.36	0.89
37:BC:118:PRO:HA	37:BC:121:MET:HG3	1.50	0.89
38:BD:183:ARG:HH11	38:BD:183:ARG:HG2	1.37	0.89
3:CC:90:GLU:O	3:CC:93:LYS:HB3	1.72	0.89
35:DA:2308:G:N7	35:DA:2310:A:H5'	1.87	0.89
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.70	0.89
18:CR:29:PHE:HD2	18:CR:29:PHE:H	1.18	0.89
20:CT:13:LEU:HD12	20:CT:13:LEU:H	1.36	0.89
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.52	0.89
35:BA:192:C:H2'	35:BA:193:U:H5'	1.55	0.89
35:BA:813:U:H2'	35:BA:814:C:C6	2.07	0.89
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.52	0.89
54:BV:28:GLU:HB2	54:BV:31:ALA:HB2	1.54	0.89
33:D8:33:ASN:H	33:D8:33:ASN:ND2	1.60	0.89
39:DE:111:ARG:HA	50:DR:2:ARG:HB3	1.52	0.89
4:AD:129:ASN:ND2	4:AD:145:GLU:H	1.70	0.89
54:BV:18:LEU:HD22	54:BV:19:LYS:H	1.38	0.89
55:DW:5:ALA:HB2	55:DW:54:ALA:HB2	1.54	0.89
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.71	0.89
3:AC:50:ALA:HB1	3:AC:70:VAL:HG11	1.54	0.89
35:BA:2308:G:N7	35:BA:2310:A:H5'	1.88	0.89
3:AC:16:ARG:HB2	3:AC:16:ARG:NH1	1.87	0.89
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.52	0.89
24:AY:355:LEU:HD12	24:AY:369:LEU:HD13	1.52	0.89
37:BC:118:PRO:CA	37:BC:121:MET:HG2	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:125:ARG:HH11	52:DT:125:ARG:HA	1.37	0.89
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.08	0.89
33:B8:33:ASN:H	33:B8:33:ASN:ND2	1.61	0.89
22:AV:20:U:H3'	22:AV:21:A:H5'	1.55	0.89
28:B3:8:LEU:HD22	28:B3:31:LEU:HD23	1.53	0.89
35:BA:1876:A:H2'	35:BA:1877:A:H8	1.36	0.89
35:BA:2110:G:O2'	35:BA:2120:G:H5'	1.71	0.89
52:BT:85:LYS:HB3	52:BT:85:LYS:NZ	1.87	0.89
57:BY:94:LYS:C	57:BY:102:CYS:HB2	1.98	0.89
2:CB:223:ILE:HG12	2:CB:226:ARG:NH2	1.88	0.89
27:D2:4:SER:HA	27:D2:7:ARG:HH12	1.35	0.89
35:DA:1876:A:H2'	35:DA:1877:A:H8	1.36	0.89
35:DA:2523:G:C2'	35:DA:2524:G:H5''	2.03	0.89
41:DG:138:GLN:OE1	41:DG:153:ARG:HG2	1.72	0.89
2:AB:223:ILE:HG12	2:AB:226:ARG:NH2	1.88	0.88
40:BF:170:LEU:HB2	40:BF:173:VAL:HB	1.53	0.88
50:BR:45:ARG:HG3	50:BR:46:GLY:H	1.36	0.88
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.34	0.88
10:CJ:55:LYS:H	10:CJ:55:LYS:CE	1.85	0.88
24:CY:201:ILE:HD12	24:CY:201:ILE:H	1.37	0.88
49:DQ:56:ARG:HH21	58:DZ:180:VAL:HG21	1.37	0.88
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.55	0.88
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.16	0.88
35:BA:2189:U:H2'	35:BA:2190:G:H5''	1.55	0.88
42:BH:157:TYR:CD1	42:BH:171:LEU:HD22	2.08	0.88
47:BO:69:ILE:HD13	47:BO:77:ILE:HG23	1.52	0.88
51:BS:24:LEU:HB3	51:BS:85:VAL:HG12	1.52	0.88
58:BZ:23:LYS:HD3	58:BZ:38:TYR:HE1	1.36	0.88
5:CE:9:LYS:HB2	5:CE:112:LEU:HD11	1.55	0.88
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.53	0.88
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.54	0.88
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.54	0.88
35:BA:2796:U:H3'	35:BA:2799:C:H5'	1.55	0.88
22:CV:49:G:H1	22:CV:65:C:H42	1.18	0.88
46:DN:45:ASN:H	46:DN:45:ASN:HD22	1.15	0.88
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.88	0.88
33:B8:13:ARG:NH1	48:BP:59:LEU:HG	1.89	0.88
35:BA:1658:C:H2'	35:BA:1659:U:C6	2.08	0.88
35:BA:1658:C:H2'	35:BA:1659:U:H6	1.37	0.88
19:CS:41:VAL:HG21	19:CS:44:MET:HB2	1.55	0.88
22:CV:39:C:H2'	22:CV:40:C:H6	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CX:13:A:H3'	23:CX:14:A:H5''	0.92	0.88
39:DE:33:VAL:HG12	39:DE:90:THR:H	1.34	0.88
42:DH:157:TYR:CD1	42:DH:171:LEU:HD22	2.07	0.88
1:AA:80:G:H3'	1:AA:81:U:C5'	2.03	0.88
2:AB:44:LEU:H	2:AB:44:LEU:HD12	1.36	0.88
13:AM:69:GLU:HG2	29:B4:43:TYR:OH	1.74	0.88
35:BA:1947:C:C2'	35:BA:1948:G:H5''	2.04	0.88
35:BA:2723:C:H5''	50:BR:2:ARG:HH11	1.37	0.88
48:BP:85:LEU:HD23	48:BP:85:LEU:H	1.38	0.88
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.37	0.88
33:D8:50:LEU:HD12	33:D8:51:ALA:H	1.39	0.88
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.53	0.88
56:DX:24:GLY:O	56:DX:82:GLN:HA	1.72	0.88
22:AW:31:G:H2'	22:AW:32:G:H8	1.36	0.88
31:B6:10:LEU:CD2	31:B6:10:LEU:H	1.86	0.88
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.09	0.88
27:B2:3:LEU:HD22	27:B2:7:ARG:NH1	1.88	0.88
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.03	0.88
58:DZ:156:LYS:O	58:DZ:158:PRO:HD3	1.73	0.88
24:AY:170:ARG:O	24:AY:171:GLU:HG2	1.74	0.88
30:B5:34:PRO:O	30:B5:35:GLU:HB2	1.74	0.88
35:BA:996:A:H4'	53:BU:92:ARG:NE	1.87	0.88
35:BA:1070:A:H5'	35:BA:1072:C:OP2	1.73	0.88
41:BG:97:ASP:H	41:BG:100:TRP:HD1	1.16	0.88
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.54	0.88
13:CM:97:PRO:HA	13:CM:110:ARG:HD3	1.56	0.88
27:D2:25:VAL:HG22	27:D2:60:LEU:HD13	1.55	0.88
35:DA:2761:G:H2'	35:DA:2762:G:H5''	1.53	0.88
41:DG:55:LYS:HD3	41:DG:56:ALA:N	1.88	0.88
4:AD:30:LYS:C	4:AD:32:ALA:H	1.79	0.88
24:AY:662:LYS:NZ	42:BH:175:LYS:CE	2.36	0.88
35:BA:2761:G:H2'	35:BA:2762:G:H5''	1.54	0.88
1:CA:1221:G:H4'	19:CS:77:THR:HG21	1.56	0.88
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.38	0.88
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.56	0.88
35:BA:2742:C:O2'	35:BA:2743:C:H5'	1.73	0.88
39:BE:38:THR:HB	39:BE:41:LYS:HG2	1.56	0.88
40:BF:181:LEU:HB3	40:BF:205:ARG:NH1	1.89	0.88
35:DA:83:G:HO2'	35:DA:84:A:H8	1.21	0.88
1:AA:1364:U:H2'	1:AA:1364:U:O2	1.72	0.87
24:AY:488:THR:O	24:AY:516:PRO:HG3	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.56	0.87
12:CL:79:GLU:HB2	24:CY:442:THR:HG21	1.55	0.87
30:D5:55:ARG:HD3	30:D5:55:ARG:C	1.98	0.87
35:DA:1782:C:H1'	35:DA:2609:U:H5'	1.57	0.87
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.57	0.87
36:DB:91:C:OP1	49:DQ:16:ARG:HG3	1.74	0.87
24:AY:409:ILE:CD1	24:AY:654:GLY:HA2	2.04	0.87
33:B8:52:LYS:N	33:B8:53:PRO:HD2	1.89	0.87
48:BP:39:LYS:HE2	48:BP:40:SER:H	1.40	0.87
50:BR:84:ALA:HB3	50:BR:85:PRO:HD3	1.57	0.87
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.57	0.87
35:DA:2103:C:H2'	35:DA:2104:G:H5''	1.56	0.87
2:AB:223:ILE:HG12	2:AB:226:ARG:CZ	2.05	0.87
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	1.74	0.87
30:B5:55:ARG:O	30:B5:56:LYS:HB2	1.73	0.87
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.55	0.87
35:DA:545:C:H2'	35:DA:547:A:H5''	1.56	0.87
35:DA:2317:C:C2'	35:DA:2318:G:H5'	2.03	0.87
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.55	0.87
57:DY:79:CYS:SG	57:DY:80:GLY:N	2.48	0.87
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.03	0.87
5:CE:80:ILE:HG22	8:CH:104:ARG:NH2	1.89	0.87
52:DT:85:LYS:NZ	52:DT:85:LYS:HB3	1.89	0.87
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.10	0.87
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.56	0.87
41:BG:76:SER:CB	41:BG:83:ARG:HB3	2.04	0.87
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.56	0.87
35:DA:925:C:C2'	35:DA:926:A:H5''	2.05	0.87
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.10	0.87
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.56	0.87
35:BA:195:A:OP1	48:BP:46:LYS:HE2	1.73	0.87
58:DZ:18:LEU:H	58:DZ:18:LEU:HD12	1.39	0.87
17:AQ:3:LYS:HB3	17:AQ:61:GLU:HB3	1.55	0.87
35:BA:1452:A:C3'	35:BA:1453:U:H5''	2.03	0.87
38:DD:158:ALA:HB3	38:DD:161:THR:HG21	1.56	0.87
41:DG:51:ARG:HA	41:DG:51:ARG:HE	1.38	0.87
48:DP:55:ARG:HG2	48:DP:56:SER:N	1.83	0.87
50:DR:84:ALA:HB3	50:DR:85:PRO:HD3	1.57	0.87
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.39	0.87
17:AQ:52:LYS:H	17:AQ:52:LYS:HD2	1.40	0.87
33:B8:56:GLU:HA	33:B8:59:LYS:HZ1	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:20:SER:HB3	3:CC:40:ARG:HH22	1.37	0.87
33:D8:52:LYS:N	33:D8:53:PRO:HD2	1.90	0.87
4:AD:16:GLY:HA2	4:AD:33:MET:HE1	1.57	0.87
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.57	0.87
30:B5:2:ALA:CA	35:BA:2015:A:H1'	2.05	0.87
35:BA:545:C:H2'	35:BA:547:A:H5''	1.55	0.87
52:BT:23:ARG:O	52:BT:25:GLY:N	2.08	0.87
3:CC:50:ALA:HB1	3:CC:70:VAL:HG11	1.54	0.87
17:CQ:69:LYS:O	17:CQ:70:ARG:HD2	1.74	0.87
31:D6:28:ARG:HB3	31:D6:28:ARG:NH1	1.90	0.87
35:DA:2175:C:H4'	37:DC:219:MET:O	1.75	0.87
47:DO:107:ARG:HA	47:DO:112:MET:HE1	1.56	0.87
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.09	0.86
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.11	0.86
44:BK:30:HIS:HA	44:BK:59:ILE:HD12	1.56	0.86
1:CA:656:C:H4'	15:CO:62:GLN:NE2	1.88	0.86
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.38	0.86
24:CY:272:LEU:O	24:CY:276:VAL:HG23	1.75	0.86
24:CY:605:ILE:HD11	24:CY:677:GLN:HG2	1.57	0.86
25:D0:60:PHE:CE2	35:DA:2365:G:H4'	2.09	0.86
35:DA:2425:A:H5'	35:DA:2427:C:O4'	1.75	0.86
42:DH:85:LYS:HZ3	42:DH:87:LEU:HG	1.39	0.86
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.40	0.86
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.56	0.86
24:AY:468:ARG:HH11	24:AY:468:ARG:HB3	1.39	0.86
1:CA:80:G:H3'	1:CA:81:U:C5'	2.04	0.86
1:CA:1502:A:H2	1:CA:1505:G:H1	1.23	0.86
20:CT:45:GLN:HB2	20:CT:91:LEU:HD13	1.55	0.86
25:B0:60:PHE:CE2	35:BA:2365:G:H4'	2.10	0.86
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.08	0.86
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.58	0.86
35:DA:614(A):U:H4'	35:DA:614(B):G:H5''	1.56	0.86
48:DP:85:LEU:HD23	48:DP:85:LEU:H	1.39	0.86
35:BA:108:U:H2'	35:BA:109:G:C8	2.10	0.86
49:BQ:45:GLN:H	49:BQ:45:GLN:NE2	1.74	0.86
1:CA:483:C:H3'	1:CA:484:G:H5''	1.55	0.86
28:D3:17:LYS:NZ	28:D3:20:LYS:HE3	1.91	0.86
33:D8:13:ARG:NH1	48:DP:59:LEU:HG	1.90	0.86
1:AA:973:G:O4'	10:AJ:55:LYS:HG3	1.75	0.86
3:AC:20:SER:HB3	3:AC:40:ARG:NH2	1.91	0.86
35:BA:1223:G:H3'	35:BA:1224:C:H5''	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2562:U:H1'	47:BO:23:ARG:HH11	1.39	0.86
49:BQ:59:ARG:HA	58:BZ:180:VAL:HG23	1.58	0.86
3:CC:16:ARG:HB2	3:CC:16:ARG:NH1	1.91	0.86
35:DA:1285:G:H2'	35:DA:1286:A:H5'	1.57	0.86
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.56	0.86
1:AA:656:C:H4'	15:AO:62:GLN:NE2	1.89	0.86
5:AE:9:LYS:HB2	5:AE:112:LEU:HD11	1.57	0.86
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.41	0.86
35:BA:1899:G:H22	35:BA:1902:C:H41	1.21	0.86
35:DA:192:C:H2'	35:DA:193:U:H5'	1.57	0.86
37:DC:77:ALA:HB3	37:DC:95:VAL:HA	1.57	0.86
48:DP:40:SER:O	48:DP:41:ARG:HD2	1.76	0.86
30:B5:55:ARG:HD3	30:B5:55:ARG:C	1.99	0.86
39:BE:24:THR:HG22	39:BE:186:GLY:HA2	1.58	0.86
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	1.76	0.86
10:CJ:6:ILE:HD11	10:CJ:72:VAL:CB	2.04	0.86
17:CQ:52:LYS:HD2	17:CQ:52:LYS:H	1.40	0.86
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.57	0.86
35:DA:2562:U:H1'	47:DO:23:ARG:HH11	1.41	0.86
36:DB:65:C:N4	36:DB:109:C:H2'	1.91	0.86
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.56	0.86
1:AA:697:U:H2'	1:AA:698:G:H5'	1.57	0.86
52:BT:13:ARG:CZ	52:BT:13:ARG:HA	2.06	0.86
1:CA:697:U:H2'	1:CA:698:G:H5'	1.58	0.86
35:DA:27:G:N2	35:DA:512:G:H2'	1.90	0.86
39:DE:176:ILE:HG22	39:DE:178:GLU:HB3	1.55	0.86
57:DY:44:ILE:HG22	57:DY:45:VAL:H	1.41	0.86
35:BA:203:C:H3'	35:BA:204:A:H5''	1.58	0.86
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.05	0.86
35:BA:2876:G:H4'	52:BT:3:ARG:HE	1.41	0.86
2:CB:223:ILE:HG12	2:CB:226:ARG:CZ	2.05	0.86
17:CQ:3:LYS:HB3	17:CQ:61:GLU:HB3	1.56	0.86
35:DA:940:G:H5'	35:DA:941:A:OP2	1.75	0.86
35:DA:2796:U:H3'	35:DA:2799:C:H5'	1.55	0.86
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	1.76	0.86
41:DG:77:ILE:HG21	41:DG:80:PHE:HB2	1.56	0.86
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.05	0.86
15:AO:78:TYR:O	15:AO:82:ILE:HG22	1.76	0.86
35:BA:1285:G:H2'	35:BA:1286:A:H5'	1.58	0.86
55:BW:5:ALA:HB2	55:BW:54:ALA:HB2	1.57	0.86
35:DA:978:G:H1	35:DA:985:C:H42	1.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1818:U:H5''	38:DD:157:ARG:HB2	1.57	0.86
40:DF:53:THR:HG23	40:DF:55:GLY:N	1.91	0.86
35:BA:27:G:N2	35:BA:512:G:H2'	1.90	0.85
42:BH:17:VAL:HG11	42:BH:50:VAL:HG21	1.56	0.85
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.06	0.85
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.76	0.85
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.38	0.85
30:D5:2:ALA:CA	35:DA:2015:A:H1'	2.04	0.85
36:DB:103:G:H21	58:DZ:73:GLN:HE22	1.23	0.85
40:DF:181:LEU:HB3	40:DF:205:ARG:NH1	1.91	0.85
26:B1:41:ARG:NH2	35:BA:1365:A:H5'	1.91	0.85
42:BH:169:VAL:HG22	42:BH:170:ARG:H	1.40	0.85
49:BQ:56:ARG:HH21	58:BZ:180:VAL:HG21	1.40	0.85
52:BT:46:GLU:O	52:BT:65:LYS:HD2	1.75	0.85
1:CA:579:G:H5'	1:CA:728:A:H1'	1.57	0.85
24:CY:519:ARG:NH1	24:CY:678:GLU:H	1.74	0.85
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.12	0.85
35:DA:2742:C:O2'	35:DA:2743:C:H5'	1.76	0.85
41:DG:112:PRO:O	41:DG:113:ARG:HA	1.76	0.85
42:DH:17:VAL:HG11	42:DH:50:VAL:HG21	1.57	0.85
52:DT:29:ARG:CB	52:DT:85:LYS:HA	2.05	0.85
1:AA:1004:A:H61	1:AA:1034:G:H2'	1.40	0.85
27:D2:69:ARG:HG3	27:D2:70:GLN:N	1.91	0.85
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.56	0.85
49:DQ:45:GLN:H	49:DQ:45:GLN:NE2	1.73	0.85
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.57	0.85
10:AJ:55:LYS:H	10:AJ:55:LYS:HE2	1.41	0.85
26:B1:45:ASN:HD21	26:B1:47:GLN:HE21	1.24	0.85
37:BC:77:ALA:HB3	37:BC:95:VAL:HA	1.58	0.85
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.57	0.85
1:CA:1004:A:H61	1:CA:1034:G:H2'	1.40	0.85
30:D5:55:ARG:O	30:D5:56:LYS:HB2	1.74	0.85
40:DF:84:VAL:HG12	40:DF:85:GLY:H	1.39	0.85
33:B8:50:LEU:HD12	33:B8:51:ALA:H	1.38	0.85
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	1.74	0.85
42:BH:12:PRO:HB2	42:BH:15:VAL:HG11	1.57	0.85
3:CC:70:VAL:HG12	3:CC:71:ALA:N	1.90	0.85
35:DA:1826:G:H4'	38:DD:242:ARG:HH21	1.40	0.85
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.07	0.85
47:BO:107:ARG:HA	47:BO:112:MET:HE1	1.57	0.85
1:CA:148:G:H2'	1:CA:149:A:H8	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:83:ILE:HD12	8:CH:137:VAL:HG22	1.58	0.85
29:D4:14:ILE:O	29:D4:21:VAL:HG13	1.77	0.85
42:DH:169:VAL:HG22	42:DH:170:ARG:H	1.39	0.85
52:DT:46:GLU:O	52:DT:65:LYS:HD2	1.76	0.85
58:DZ:130:PRO:HA	58:DZ:133:ILE:HD11	1.58	0.85
40:BF:53:THR:HG23	40:BF:55:GLY:N	1.90	0.85
50:BR:100:LEU:HD22	50:BR:100:LEU:H	1.39	0.85
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.06	0.85
35:DA:272(H):C:H5'	35:DA:272(H):C:H6	1.41	0.85
35:DA:1058:G:N2	44:DK:126:MET:HE3	1.92	0.85
35:DA:2524:G:H8	35:DA:2524:G:H5'	1.41	0.85
35:DA:2876:G:H4'	52:DT:3:ARG:HE	1.41	0.85
44:DK:30:HIS:HA	44:DK:59:ILE:HD12	1.56	0.85
46:DN:91:LEU:HD23	46:DN:98:VAL:HG21	1.57	0.85
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	1.92	0.85
24:AY:416:LYS:CD	24:AY:417:THR:H	1.89	0.85
24:AY:517:LEU:HD23	24:AY:521:SER:HB3	1.57	0.85
35:BA:1058:G:N2	44:BK:126:MET:HE3	1.92	0.85
35:BA:1782:C:H1'	35:BA:2609:U:H5'	1.56	0.85
35:BA:1818:U:H5''	38:BD:157:ARG:HB2	1.58	0.85
50:BR:73:VAL:O	50:BR:76:VAL:HG12	1.77	0.85
5:CE:64:ARG:HG3	5:CE:64:ARG:HH11	1.42	0.85
26:D1:73:LEU:HD21	26:D1:94:LEU:HB3	1.57	0.85
35:DA:2317:C:H2'	35:DA:2318:G:H5'	1.55	0.85
41:DG:35:GLU:HB3	41:DG:160:VAL:HG12	1.59	0.85
42:DH:12:PRO:HB2	42:DH:15:VAL:HG11	1.56	0.85
50:DR:117:VAL:O	50:DR:118:GLU:HB2	1.77	0.85
58:DZ:48:PHE:CE1	58:DZ:52:SER:HA	2.12	0.85
31:B6:28:ARG:HB3	31:B6:28:ARG:NH1	1.91	0.85
35:BA:940:G:H5'	35:BA:941:A:OP2	1.76	0.85
36:BB:3:C:H42	36:BB:118:G:H1	1.25	0.85
42:BH:30:LYS:HD2	42:BH:81:GLU:HG2	1.59	0.85
51:BS:106:ARG:HH11	51:BS:106:ARG:HB3	1.42	0.85
52:BT:29:ARG:CB	52:BT:85:LYS:HA	2.06	0.85
2:CB:22:LYS:HE2	2:CB:22:LYS:HA	1.59	0.85
35:DA:1779:U:H5	35:DA:1784:A:N7	1.74	0.85
2:AB:172:ILE:H	2:AB:172:ILE:HD12	1.40	0.85
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.56	0.85
29:B4:10:VAL:HG23	29:B4:11:PRO:HD2	1.58	0.85
41:BG:97:ASP:HB2	41:BG:98:ARG:HH12	1.42	0.85
1:CA:1495:U:H2'	1:CA:1496:C:H6	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:489:LYS:HG2	24:CY:598:ASP:HB2	1.58	0.85
35:DA:2502:G:H5''	35:DA:2503:A:H5'	1.59	0.85
51:DS:106:ARG:HH11	51:DS:106:ARG:HB3	1.41	0.85
52:DT:53:ARG:HB3	52:DT:53:ARG:NH1	1.92	0.85
58:DZ:137:ILE:HG21	58:DZ:155:LEU:HD12	1.57	0.85
1:AA:579:G:H5'	1:AA:728:A:H1'	1.58	0.84
9:AI:95:LYS:HZ3	9:AI:96:LEU:HD12	1.41	0.84
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.42	0.84
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	1.89	0.84
24:CY:148:LEU:HA	24:CY:151:ARG:HD2	1.57	0.84
35:DA:1609:A:H5'	35:DA:1610:A:OP2	1.75	0.84
35:DA:1678:G:N2	35:DA:1989:G:H22	1.74	0.84
35:DA:2444:G:OP2	40:DF:68:LYS:HE2	1.76	0.84
36:DB:3:C:H42	36:DB:118:G:H1	1.25	0.84
43:DJ:26:UNK:HA	43:DJ:84:UNK:HA	1.60	0.84
35:BA:107:C:H2'	35:BA:108:U:H6	1.41	0.84
35:BA:2502:G:H5''	35:BA:2503:A:H5'	1.59	0.84
35:BA:2645:G:H4'	35:BA:2732:G:O2'	1.77	0.84
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.57	0.84
36:BB:87:G:H2'	36:BB:88:C:H3'	1.58	0.84
52:BT:53:ARG:NH1	52:BT:53:ARG:HB3	1.91	0.84
25:D0:40:GLN:NE2	25:D0:43:THR:HA	1.92	0.84
35:DA:1242:A:H5'	35:DA:1243:G:OP2	1.77	0.84
38:DD:183:ARG:HH11	38:DD:183:ARG:HG2	1.41	0.84
41:DG:87:PRO:O	41:DG:88:ILE:HD12	1.77	0.84
52:DT:132:LYS:HD3	52:DT:132:LYS:H	1.42	0.84
12:AL:25:PRO:C	12:AL:27:LEU:H	1.84	0.84
25:B0:50:ASN:HA	25:B0:62:LEU:HD12	1.59	0.84
35:BA:2394:C:OP1	48:BP:63:PRO:HD2	1.77	0.84
51:BS:101:LEU:O	51:BS:101:LEU:HD12	1.77	0.84
1:CA:973:G:O4'	10:CJ:55:LYS:HG3	1.77	0.84
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.09	0.84
36:DB:87:G:H2'	36:DB:88:C:H3'	1.59	0.84
35:BA:666:G:H4'	48:BP:49:ARG:NH2	1.92	0.84
35:BA:925:C:C2'	35:BA:926:A:H5''	2.06	0.84
35:BA:970:C:H2'	35:BA:971:C:H6	1.42	0.84
35:BA:1242:A:H5'	35:BA:1243:G:OP2	1.76	0.84
42:BH:118:PRO:HG2	42:BH:121:ILE:HD12	1.60	0.84
9:CI:88:TYR:O	9:CI:89:ASN:HB2	1.77	0.84
24:CY:170:ARG:H	24:CY:170:ARG:HD2	1.41	0.84
24:CY:201:ILE:HG21	24:CY:206:LEU:HA	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:131:LEU:HD12	38:DD:131:LEU:N	1.93	0.84
52:DT:13:ARG:CZ	52:DT:13:ARG:HA	2.07	0.84
38:BD:95:LEU:HD12	38:BD:103:ARG:O	1.78	0.84
52:BT:85:LYS:HB3	52:BT:85:LYS:HZ3	1.41	0.84
1:CA:299:G:H2'	1:CA:300:A:C8	2.12	0.84
13:CM:68:GLY:H	13:CM:71:ARG:HB3	1.41	0.84
50:DR:10:LEU:HB3	50:DR:17:ARG:HD3	1.58	0.84
24:AY:555:LEU:HD21	24:AY:599:PRO:HG3	1.60	0.84
35:BA:2175:C:H4'	37:BC:219:MET:O	1.76	0.84
46:BN:91:LEU:HD23	46:BN:98:VAL:HG21	1.59	0.84
48:BP:27:HIS:HD2	48:BP:28:GLY:N	1.74	0.84
3:CC:83:ARG:O	3:CC:86:VAL:HG22	1.78	0.84
35:DA:108:U:H2'	35:DA:109:G:C8	2.12	0.84
4:AD:49:ARG:HA	4:AD:49:ARG:HE	1.43	0.84
58:BZ:115:GLY:H	58:BZ:177:PRO:HG3	1.43	0.84
9:CI:114:TYR:HE1	10:CJ:60:ARG:H	1.22	0.84
24:CY:17:ILE:H	24:CY:17:ILE:HD12	1.41	0.84
35:DA:978:G:H1	35:DA:985:C:N4	1.76	0.84
41:DG:145:THR:HG23	41:DG:148:MET:HB2	1.59	0.84
41:DG:145:THR:CG2	41:DG:148:MET:HB2	2.08	0.84
46:DN:62:VAL:HG22	46:DN:66:LYS:HG3	1.59	0.84
58:DZ:10:ARG:HH21	58:DZ:26:GLY:H	1.22	0.84
1:AA:148:G:H2'	1:AA:149:A:H8	1.42	0.84
13:AM:68:GLY:H	13:AM:71:ARG:HB3	1.42	0.84
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.59	0.84
35:BA:1947:C:H2'	35:BA:1948:G:H5''	1.58	0.84
38:BD:158:ALA:HB3	38:BD:161:THR:HG21	1.59	0.84
39:BE:176:ILE:HG22	39:BE:178:GLU:HB3	1.57	0.84
52:BT:108:ARG:HG3	52:BT:109:GLU:N	1.93	0.84
15:CO:78:TYR:O	15:CO:82:ILE:HG22	1.78	0.84
22:CW:74:A:H2'	22:CW:75:C:H5''	1.59	0.84
24:CY:670:VAL:CG2	24:CY:671:MET:H	1.89	0.84
31:D6:10:LEU:CD2	31:D6:10:LEU:H	1.90	0.84
58:DZ:145:GLU:C	58:DZ:147:GLY:H	1.86	0.84
35:BA:2425:A:H5'	35:BA:2427:C:O4'	1.78	0.84
39:BE:24:THR:HG23	39:BE:184:VAL:HG23	1.58	0.84
24:CY:13:ARG:HB3	24:CY:79:ILE:HG23	1.59	0.84
35:DA:666:G:H4'	48:DP:49:ARG:NH2	1.93	0.84
38:DD:145:VAL:HG22	38:DD:191:ALA:HB1	1.59	0.84
44:DK:77:LEU:HD23	44:DK:77:LEU:H	1.43	0.84
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:978:G:H1	35:BA:985:C:N4	1.75	0.84
4:CD:194:LEU:HB3	4:CD:196:LEU:HD13	1.57	0.84
35:DA:107:C:H2'	35:DA:108:U:H6	1.41	0.84
35:DA:2438:U:O3'	35:DA:2439:A:H4'	1.78	0.84
42:DH:118:PRO:HG2	42:DH:121:ILE:HD12	1.60	0.84
24:AY:329:ARG:HD3	24:AY:374:LEU:HD11	1.59	0.83
29:B4:1:MET:HE2	41:BG:66:GLN:OE1	1.78	0.83
36:BB:65:C:N4	36:BB:109:C:H2'	1.91	0.83
1:CA:814:A:H2'	1:CA:816:A:H5'	1.60	0.83
10:CJ:55:LYS:H	10:CJ:55:LYS:HE2	1.42	0.83
50:DR:99:LYS:H	50:DR:99:LYS:CD	1.87	0.83
58:DZ:81:ARG:HB3	58:DZ:81:ARG:NH1	1.91	0.83
25:D0:47:PRO:HG3	25:D0:59:LEU:HD21	1.58	0.83
28:D3:29:ARG:HB2	28:D3:29:ARG:HH11	1.43	0.83
35:DA:6:A:O2'	46:DN:130:HIS:HB2	1.77	0.83
35:DA:1142(A):A:H4'	46:DN:25:ARG:HH22	1.42	0.83
41:DG:68:PRO:HA	41:DG:92:VAL:HG13	1.57	0.83
24:AY:15:ILE:HD11	24:AY:81:ILE:HG12	1.61	0.83
24:AY:505:GLY:HA3	24:AY:576:ASP:CG	2.03	0.83
46:BN:9:VAL:HG11	46:BN:39:ARG:NH2	1.92	0.83
41:DG:76:SER:HB2	41:DG:83:ARG:HB3	1.58	0.83
42:BH:16:SER:HB2	42:BH:27:LYS:HB2	1.60	0.83
1:CA:686:U:HO2'	1:CA:687:A:H8	1.25	0.83
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.42	0.83
10:CJ:7:LYS:HB2	10:CJ:97:GLU:HB2	1.60	0.83
40:DF:7:TYR:HD2	40:DF:16:GLY:HA3	1.43	0.83
41:DG:86:MET:N	41:DG:87:PRO:HD3	1.94	0.83
52:DT:108:ARG:HG3	52:DT:109:GLU:N	1.92	0.83
1:AA:368:U:P	24:AY:351:ARG:HH11	2.01	0.83
1:AA:1456:G:H2'	1:AA:1457:G:H5'	1.60	0.83
3:AC:70:VAL:HG12	3:AC:71:ALA:N	1.90	0.83
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.14	0.83
31:B6:51:GLU:O	31:B6:52:VAL:HB	1.77	0.83
35:BA:272(H):C:H5'	35:BA:272(H):C:H6	1.41	0.83
47:BO:43:VAL:HG23	47:BO:56:ASP:O	1.77	0.83
1:CA:980:C:H5	1:CA:981:U:C2	1.95	0.83
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.14	0.83
13:CM:69:GLU:HG2	29:D4:43:TYR:OH	1.78	0.83
24:CY:230:LYS:HZ1	24:CY:237:PRO:HA	1.43	0.83
24:CY:526:VAL:HB	24:CY:566:THR:HA	1.60	0.83
25:D0:14:ARG:HB2	25:D0:14:ARG:NH1	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:51:GLU:O	31:D6:52:VAL:HB	1.78	0.83
35:DA:2287:A:N6	35:DA:2344:U:H3	1.75	0.83
42:DH:16:SER:HB2	42:DH:27:LYS:HB2	1.59	0.83
47:DO:24:VAL:HG21	47:DO:30:ALA:HB3	1.61	0.83
58:DZ:10:ARG:HH21	58:DZ:26:GLY:N	1.74	0.83
1:AA:975:A:H8	1:AA:975:A:H5'	1.44	0.83
4:AD:194:LEU:HB3	4:AD:196:LEU:HD13	1.59	0.83
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.08	0.83
35:BA:2287:A:N6	35:BA:2344:U:H3	1.74	0.83
35:BA:2438:U:O3'	35:BA:2439:A:H4'	1.76	0.83
41:BG:64:THR:HG23	41:BG:66:GLN:H	1.44	0.83
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.60	0.83
57:BY:44:ILE:HG22	57:BY:45:VAL:H	1.43	0.83
4:CD:16:GLY:HA2	4:CD:33:MET:HE1	1.59	0.83
61:CY:702:FUA:H122	61:CY:702:FUA:H231	1.59	0.83
46:DN:9:VAL:HG11	46:DN:39:ARG:NH2	1.92	0.83
47:DO:69:ILE:HD13	47:DO:77:ILE:HG23	1.59	0.83
35:BA:1678:G:N2	35:BA:1989:G:H22	1.77	0.83
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.41	0.83
47:BO:114:ILE:H	47:BO:114:ILE:HD12	1.43	0.83
57:BY:46:LYS:H	57:BY:62:GLU:HB2	1.43	0.83
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.60	0.83
26:D1:76:ARG:NH1	26:D1:95:LEU:HD22	1.94	0.83
30:D5:34:PRO:O	30:D5:35:GLU:HB2	1.76	0.83
35:DA:195:A:OP1	48:DP:46:LYS:HE2	1.78	0.83
35:DA:218:A:C2	35:DA:235:U:H4'	2.13	0.83
35:DA:1223:G:H3'	35:DA:1224:C:H5''	1.57	0.83
35:DA:1485:G:H1'	35:DA:1505:C:H42	1.44	0.83
49:DQ:30:GLY:HA2	49:DQ:107:ALA:HB2	1.60	0.83
1:AA:980:C:H5	1:AA:981:U:C2	1.96	0.83
23:AX:13:A:H3'	23:AX:14:A:C5'	2.08	0.83
29:B4:14:ILE:O	29:B4:21:VAL:HG13	1.77	0.83
35:BA:9:U:H5	35:BA:2629:A:H62	1.27	0.83
35:BA:806:C:OP2	48:BP:39:LYS:HD3	1.78	0.83
1:CA:1318:A:H1'	19:CS:37:ARG:NH2	1.93	0.83
22:CW:7:G:H3'	22:CW:8:U:H5'	1.59	0.83
27:D2:32:LEU:HA	27:D2:53:LEU:HD13	1.61	0.83
35:DA:84:A:H5''	57:DY:9:LYS:HZ2	1.43	0.83
35:DA:1059:G:H2'	35:DA:1060:U:C5	2.14	0.83
48:DP:57:THR:OG1	48:DP:59:LEU:HB3	1.78	0.83
1:AA:1221:G:H4'	19:AS:77:THR:HG21	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1284:C:H3'	1:AA:1285:A:H5''	1.61	0.83
35:BA:1609:A:H5'	35:BA:1610:A:OP2	1.79	0.83
40:BF:40:GLN:NE2	40:BF:182:ASN:HB2	1.93	0.83
53:BU:31:SER:HB3	53:BU:34:LYS:HB2	1.61	0.83
24:CY:21:ILE:HG21	24:CY:88:VAL:HG13	1.61	0.83
35:DA:2314:C:O2'	35:DA:2315:G:H5'	1.78	0.83
48:DP:23:PRO:HB2	48:DP:33:ARG:HG3	1.60	0.83
48:DP:125:VAL:O	48:DP:145:PRO:HD2	1.77	0.83
1:AA:243:A:H4'	1:AA:244:U:O5'	1.79	0.83
10:AJ:6:ILE:HD11	10:AJ:72:VAL:CB	2.05	0.83
35:BA:965:C:C5'	35:BA:2273:A:H1'	2.09	0.83
38:BD:131:LEU:HD12	38:BD:131:LEU:N	1.94	0.83
50:BR:117:VAL:O	50:BR:118:GLU:HB2	1.79	0.83
52:BT:132:LYS:HD3	52:BT:132:LYS:H	1.41	0.83
12:CL:90:VAL:O	12:CL:92:ASP:N	2.12	0.83
24:CY:131:PRO:HG2	24:CY:281:PRO:HG3	1.60	0.83
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.09	0.83
39:DE:24:THR:HG23	39:DE:184:VAL:HG23	1.61	0.83
54:DV:21:ARG:HB3	54:DV:91:TYR:CD1	2.14	0.83
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.08	0.82
40:DF:40:GLN:NE2	40:DF:182:ASN:HB2	1.93	0.82
40:DF:113:ALA:HB1	40:DF:186:ILE:HG21	1.61	0.82
51:DS:101:LEU:HD12	51:DS:101:LEU:O	1.77	0.82
24:AY:380:LEU:C	24:AY:381:LYS:HD2	2.04	0.82
35:BA:218:A:C2	35:BA:235:U:H4'	2.13	0.82
44:BK:112:MET:HE2	44:BK:120:LEU:HD21	1.62	0.82
1:CA:1236:A:H2'	1:CA:1237:C:C6	2.14	0.82
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.59	0.82
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.58	0.82
24:CY:413:ILE:HG22	24:CY:449:THR:O	1.79	0.82
24:CY:546:ILE:HD13	24:CY:565:VAL:HG11	1.60	0.82
40:DF:64:ILE:HG22	40:DF:76:GLY:O	1.79	0.82
2:AB:126:GLU:HA	2:AB:129:GLU:OE1	1.78	0.82
24:AY:149:VAL:O	24:AY:152:THR:HG22	1.79	0.82
31:B6:54:ILE:O	31:B6:54:ILE:HD12	1.79	0.82
52:BT:65:LYS:HE3	52:BT:66:VAL:N	1.95	0.82
58:BZ:79:ARG:O	58:BZ:80:ARG:HB2	1.77	0.82
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.43	0.82
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.13	0.82
35:DA:1314:C:H5'	35:DA:1314:C:H6	1.44	0.82
35:DA:1947:C:C2'	35:DA:1948:G:H5''	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2138:C:H2'	35:DA:2139:C:C6	2.13	0.82
35:DA:2394:C:OP1	48:DP:63:PRO:HD2	1.79	0.82
35:DA:2645:G:H4'	35:DA:2732:G:O2'	1.78	0.82
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.45	0.82
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.61	0.82
13:AM:124:PRO:HG2	24:AY:574:GLU:H	1.44	0.82
35:BA:1058:G:H21	44:BK:126:MET:HE3	1.44	0.82
35:BA:2787:C:H1'	39:BE:61:ARG:HG3	1.61	0.82
47:BO:104:ARG:HE	52:BT:33:LYS:HE3	1.44	0.82
49:BQ:30:GLY:HA2	49:BQ:107:ALA:HB2	1.61	0.82
54:BV:21:ARG:HB3	54:BV:91:TYR:CD1	2.14	0.82
58:BZ:151:HIS:HB3	58:BZ:170:THR:HA	1.59	0.82
35:DA:1658:C:H2'	35:DA:1659:U:H6	1.43	0.82
38:DD:91:ARG:HH11	38:DD:91:ARG:HG2	1.44	0.82
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.14	0.82
35:BA:978:G:H1	35:BA:985:C:H42	1.24	0.82
38:BD:44:ASN:CB	38:BD:49:ILE:HA	2.09	0.82
39:BE:111:ARG:HG3	50:BR:2:ARG:HG2	1.62	0.82
40:BF:7:TYR:HD2	40:BF:16:GLY:HA3	1.43	0.82
48:BP:40:SER:O	48:BP:41:ARG:HD2	1.77	0.82
52:BT:23:ARG:HG2	52:BT:120:ARG:NH1	1.95	0.82
35:DA:598:G:H5'	48:DP:15:ARG:HB2	1.58	0.82
48:DP:27:HIS:HD2	48:DP:28:GLY:N	1.76	0.82
55:DW:29:LEU:HD11	55:DW:51:LEU:HD11	1.61	0.82
25:B0:47:PRO:HG3	25:B0:59:LEU:HD21	1.59	0.82
38:BD:35:LYS:HZ3	38:BD:36:PRO:CD	1.92	0.82
1:CA:1284:C:H3'	1:CA:1285:A:H5''	1.61	0.82
1:CA:1342:C:H4'	9:CI:125:TYR:HB3	1.60	0.82
22:CW:11:A:H2'	22:CW:12:G:H8	1.43	0.82
44:DK:59:ILE:HG12	44:DK:60:TYR:N	1.95	0.82
28:B3:17:LYS:NZ	28:B3:20:LYS:HE3	1.94	0.82
35:BA:621:A:H2'	35:BA:622:G:H5'	1.62	0.82
40:BF:155:LEU:HA	40:BF:174:VAL:HB	1.62	0.82
42:BH:171:LEU:HD23	42:BH:171:LEU:C	2.04	0.82
44:BK:93:ARG:HB2	58:BZ:112:ARG:HE	1.43	0.82
56:BX:12:VAL:HG12	56:BX:27:THR:O	1.79	0.82
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.60	0.82
35:DA:1884:A:C2'	35:DA:1885:A:H5''	2.10	0.82
39:DE:24:THR:HG22	39:DE:186:GLY:HA2	1.61	0.82
57:DY:46:LYS:H	57:DY:62:GLU:HB2	1.43	0.82
1:AA:1489:G:C2'	1:AA:1490:C:H5''	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.78	0.82
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.09	0.82
35:BA:2138:C:H2'	35:BA:2139:C:C6	2.13	0.82
35:BA:2584:U:C2'	35:BA:2585:U:H5'	2.09	0.82
54:BV:38:LEU:O	54:BV:39:LEU:HD13	1.80	0.82
2:CB:12:GLU:O	2:CB:14:GLY:N	2.12	0.82
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HD12	1.62	0.82
35:DA:1058:G:H21	44:DK:126:MET:HE3	1.43	0.82
52:DT:23:ARG:HG2	52:DT:120:ARG:NH1	1.95	0.82
3:AC:83:ARG:O	3:AC:86:VAL:HG22	1.80	0.82
35:BA:1142(A):A:H4'	46:BN:25:ARG:HH22	1.45	0.82
35:BA:2314:C:O2'	35:BA:2315:G:H5'	1.79	0.82
35:BA:2473:U:H3'	35:BA:2474:C:C5'	2.08	0.82
41:BG:171:ALA:O	41:BG:175:LEU:HG	1.80	0.82
48:BP:125:VAL:O	48:BP:145:PRO:HD2	1.78	0.82
50:BR:10:LEU:HB3	50:BR:17:ARG:HD3	1.59	0.82
52:BT:32:TYR:N	52:BT:32:TYR:CD2	2.48	0.82
25:D0:11:ARG:HB2	25:D0:11:ARG:NH1	1.95	0.82
35:DA:2439:A:O2'	35:DA:2587:A:H5''	1.80	0.82
58:DZ:111:VAL:O	58:DZ:112:ARG:HB2	1.78	0.82
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	1.78	0.82
24:AY:555:LEU:HD21	24:AY:599:PRO:CG	2.10	0.82
31:B6:14:THR:O	31:B6:49:HIS:HA	1.79	0.82
35:BA:1485:G:H1'	35:BA:1505:C:H42	1.45	0.82
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.43	0.82
39:BE:36:ARG:HH11	39:BE:36:ARG:HG2	1.42	0.82
40:BF:64:ILE:HG22	40:BF:76:GLY:O	1.80	0.82
57:BY:79:CYS:SG	57:BY:80:GLY:N	2.50	0.82
1:CA:1053:G:N7	1:CA:1200:C:H5''	1.95	0.82
35:DA:806:C:OP2	48:DP:39:LYS:HD3	1.79	0.82
42:DH:30:LYS:HD2	42:DH:81:GLU:HG2	1.62	0.82
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.62	0.81
23:AX:19:U:H5'	24:AY:504:ARG:HB3	1.59	0.81
25:B0:14:ARG:NH1	25:B0:14:ARG:HB2	1.95	0.81
31:B6:28:ARG:HB3	31:B6:28:ARG:HH11	1.44	0.81
35:BA:2585:U:O2'	35:BA:2586:C:H5'	1.80	0.81
38:BD:24:ILE:HD13	38:BD:25:THR:H	1.45	0.81
53:BU:34:LYS:HE2	53:BU:34:LYS:HA	1.60	0.81
3:CC:20:SER:HB3	3:CC:40:ARG:NH2	1.95	0.81
35:DA:288:C:H2'	35:DA:289:A:H8	1.44	0.81
51:DS:13:ARG:HG3	51:DS:14:VAL:N	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:55:ASN:N	52:DT:59:THR:HG22	1.95	0.81
5:AE:64:ARG:HH11	5:AE:64:ARG:HG3	1.45	0.81
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.44	0.81
12:AL:90:VAL:O	12:AL:92:ASP:N	2.13	0.81
31:B6:48:VAL:HG23	31:B6:49:HIS:N	1.93	0.81
38:BD:27:THR:CG2	38:BD:83:GLU:HG2	2.10	0.81
1:CA:1014:A:H4'	19:CS:14:HIS:CE1	2.15	0.81
1:CA:1364:U:O2	1:CA:1364:U:H2'	1.80	0.81
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.62	0.81
24:CY:92:ILE:HG23	24:CY:93:GLU:N	1.94	0.81
52:DT:28:VAL:CG2	52:DT:46:GLU:HG3	2.10	0.81
53:DU:31:SER:HB3	53:DU:34:LYS:HB2	1.61	0.81
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.62	0.81
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.60	0.81
2:AB:12:GLU:O	2:AB:14:GLY:N	2.13	0.81
8:AH:83:ILE:HD12	8:AH:137:VAL:HG22	1.62	0.81
9:AI:95:LYS:NZ	9:AI:96:LEU:HD12	1.95	0.81
25:B0:40:GLN:NE2	25:B0:43:THR:HA	1.95	0.81
31:B6:19:ARG:HG2	35:BA:2400:G:O5'	1.80	0.81
36:BB:91:C:OP1	49:BQ:16:ARG:HG3	1.80	0.81
47:BO:24:VAL:HG21	47:BO:30:ALA:HB3	1.61	0.81
52:BT:65:LYS:HA	52:BT:65:LYS:NZ	1.96	0.81
52:BT:89:VAL:CG1	52:BT:91:ARG:HG3	2.10	0.81
1:CA:1490:C:H5'	1:CA:1490:C:H6	1.46	0.81
3:CC:175:LEU:HD21	3:CC:201:TYR:HE2	1.45	0.81
24:CY:491:VAL:HG12	24:CY:492:ASP:N	1.96	0.81
25:D0:50:ASN:HA	25:D0:62:LEU:HD12	1.60	0.81
26:D1:26:ARG:HG3	26:D1:27:GLU:HG3	1.62	0.81
27:D2:2:LYS:HB2	35:DA:97:C:H5''	1.62	0.81
27:D2:38:GLN:O	27:D2:41:ILE:HG12	1.79	0.81
31:D6:14:THR:O	31:D6:49:HIS:HA	1.79	0.81
35:DA:833:U:H5''	48:DP:48:PRO:HB3	1.61	0.81
38:DD:27:THR:CG2	38:DD:83:GLU:HG2	2.09	0.81
39:DE:36:ARG:HH11	39:DE:36:ARG:HG2	1.43	0.81
41:DG:38:VAL:HG13	41:DG:93:THR:HG23	1.62	0.81
42:DH:171:LEU:HD23	42:DH:171:LEU:C	2.04	0.81
18:AR:37:VAL:HG23	18:AR:38:GLU:N	1.96	0.81
24:AY:21:ILE:HD13	24:AY:21:ILE:H	1.43	0.81
35:BA:6:A:O2'	46:BN:130:HIS:HB2	1.79	0.81
35:BA:833:U:H5''	48:BP:48:PRO:HB3	1.61	0.81
41:BG:45:GLU:O	41:BG:51:ARG:HD3	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:9:ARG:HG2	10:CJ:69:ASN:OD1	1.77	0.81
33:D8:33:ASN:HD22	33:D8:33:ASN:N	1.77	0.81
35:DA:2473:U:H3'	35:DA:2474:C:C5'	2.08	0.81
35:DA:2787:C:H1'	39:DE:61:ARG:HG3	1.61	0.81
36:DB:7:G:H5'	51:DS:29:PHE:CE1	2.15	0.81
37:DC:111:PHE:HE1	37:DC:137:LEU:HD13	1.46	0.81
47:DO:43:VAL:HG23	47:DO:56:ASP:O	1.79	0.81
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	1.96	0.81
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HD12	1.59	0.81
26:B1:56:GLN:HA	26:B1:56:GLN:HE21	1.46	0.81
46:BN:62:VAL:HG22	46:BN:66:LYS:HG3	1.62	0.81
1:CA:975:A:H8	1:CA:975:A:H5'	1.44	0.81
24:CY:578:SER:HB3	24:CY:581:ALA:HB2	1.62	0.81
31:D6:48:VAL:HG23	31:D6:49:HIS:N	1.96	0.81
35:DA:2585:U:O2'	35:DA:2586:C:H5'	1.80	0.81
40:DF:155:LEU:HA	40:DF:174:VAL:HB	1.61	0.81
52:DT:89:VAL:CG1	52:DT:91:ARG:HG3	2.10	0.81
53:DU:34:LYS:HA	53:DU:34:LYS:HE2	1.61	0.81
24:AY:550:MET:HE3	24:AY:563:ILE:HD11	1.61	0.81
35:BA:1779:U:H5	35:BA:1784:A:N7	1.76	0.81
35:BA:2126:A:H4'	35:BA:2127:G:O5'	1.80	0.81
47:DO:114:ILE:H	47:DO:114:ILE:HD12	1.45	0.81
48:DP:6:LEU:HB3	48:DP:9:ASN:ND2	1.95	0.81
58:DZ:145:GLU:O	58:DZ:147:GLY:N	2.12	0.81
27:B2:2:LYS:HD2	27:B2:5:GLU:OE1	1.81	0.81
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.44	0.81
38:BD:91:ARG:HH11	38:BD:91:ARG:HG2	1.44	0.81
41:BG:172:LEU:HD23	41:BG:176:LEU:HD11	1.63	0.81
1:CA:1129:C:O2'	1:CA:1130:A:C8	2.33	0.81
29:D4:53:GLU:HB3	29:D4:55:ARG:NE	1.96	0.81
31:D6:28:ARG:HB3	31:D6:28:ARG:HH11	1.42	0.81
31:D6:54:ILE:HD12	31:D6:54:ILE:O	1.81	0.81
35:DA:2761:G:C2'	35:DA:2762:G:H5''	2.10	0.81
35:DA:2778:A:H5'	35:DA:2779:U:OP2	1.81	0.81
2:AB:31:TYR:HE1	2:AB:200:ILE:HD12	1.46	0.81
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	1.96	0.81
9:AI:79:LEU:HD13	9:AI:83:ARG:HB2	1.63	0.81
30:B5:41:PRO:HG2	30:B5:44:THR:OG1	1.81	0.81
42:BH:85:LYS:HD3	42:BH:85:LYS:C	2.06	0.81
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.29	0.81
35:DA:2389:G:H5''	35:DA:2390:U:H5'	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:98:LEU:HB2	42:DH:125:VAL:CG2	2.06	0.81
50:DR:4:LEU:O	50:DR:4:LEU:HD13	1.81	0.81
35:BA:598:G:H5'	48:BP:15:ARG:HB2	1.60	0.81
42:BH:171:LEU:HD23	42:BH:172:LYS:O	1.79	0.81
54:BV:40:LEU:HA	54:BV:45:THR:HB	1.63	0.81
3:CC:152:ILE:HG22	3:CC:167:TRP:HA	1.62	0.81
9:CI:95:LYS:HZ3	9:CI:96:LEU:HD12	1.45	0.81
38:DD:35:LYS:HG3	38:DD:63:ARG:HG3	1.63	0.81
41:DG:85:GLY:C	41:DG:87:PRO:HD3	2.06	0.81
52:DT:65:LYS:HA	52:DT:65:LYS:NZ	1.95	0.81
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	1.81	0.81
35:BA:1541:G:H1'	35:BA:1542:A:C4	2.16	0.81
46:BN:129:PRO:O	46:BN:130:HIS:HB3	1.80	0.81
24:CY:5:VAL:HG13	24:CY:6:GLU:H	1.46	0.81
24:CY:548:GLU:OE1	24:CY:583:LYS:HE2	1.80	0.81
30:D5:40:LYS:NZ	30:D5:46:CYS:H	1.78	0.81
42:DH:19:VAL:HG12	42:DH:20:ALA:H	1.46	0.81
51:DS:65:VAL:O	51:DS:69:VAL:HG12	1.79	0.81
1:AA:1318:A:H1'	19:AS:37:ARG:NH2	1.95	0.80
25:B0:11:ARG:HB2	25:B0:11:ARG:NH1	1.96	0.80
35:BA:1059:G:H2'	35:BA:1060:U:C5	2.16	0.80
44:BK:93:ARG:CB	58:BZ:112:ARG:HE	1.94	0.80
51:BS:89:ARG:HG3	51:BS:92:TYR:CA	2.11	0.80
53:BU:44:ASN:HD21	54:BV:75:PHE:HB3	1.47	0.80
4:CD:49:ARG:HA	4:CD:49:ARG:HE	1.44	0.80
24:CY:92:ILE:CG1	24:CY:405:PRO:HG2	2.11	0.80
35:DA:9:U:H5	35:DA:2629:A:H62	1.27	0.80
35:DA:1541:G:H1'	35:DA:1542:A:C4	2.17	0.80
35:DA:2804:C:H2'	35:DA:2805:G:C8	2.16	0.80
42:DH:85:LYS:HD3	42:DH:85:LYS:C	2.06	0.80
44:DK:112:MET:HE2	44:DK:120:LEU:HD21	1.63	0.80
1:AA:299:G:H2'	1:AA:300:A:C8	2.16	0.80
24:AY:21:ILE:HG13	35:BA:2661:G:H5''	1.61	0.80
25:B0:43:THR:H	35:BA:2331:G:H4'	1.45	0.80
41:BG:172:LEU:O	41:BG:176:LEU:HG	1.82	0.80
50:BR:4:LEU:HD13	50:BR:4:LEU:O	1.81	0.80
51:BS:13:ARG:CG	51:BS:14:VAL:H	1.94	0.80
2:CB:121:LEU:HD22	2:CB:126:GLU:HB2	1.63	0.80
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.62	0.80
1:AA:1053:G:N7	1:AA:1200:C:H5''	1.95	0.80
24:AY:662:LYS:NZ	42:BH:175:LYS:HG3	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:979:G:H3'	35:BA:980:A:C5'	2.11	0.80
42:BH:83:TYR:HB3	42:BH:134:SER:HA	1.61	0.80
48:BP:57:THR:OG1	48:BP:59:LEU:HB3	1.81	0.80
5:CE:101:ILE:HD13	5:CE:101:ILE:H	1.46	0.80
9:CI:79:LEU:HD13	9:CI:83:ARG:HB2	1.63	0.80
1:AA:148:G:H2'	1:AA:149:A:C8	2.17	0.80
1:AA:438:G:H4'	1:AA:439:A:OP1	1.79	0.80
1:AA:625:G:H2'	1:AA:626:U:H6	1.47	0.80
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	1.63	0.80
7:AG:45:ASP:O	7:AG:49:ILE:HG12	1.80	0.80
48:BP:23:PRO:HB2	48:BP:33:ARG:HG3	1.61	0.80
24:CY:530:VAL:HG22	24:CY:531:GLY:H	1.45	0.80
35:DA:965:C:C5'	35:DA:2273:A:H1'	2.11	0.80
35:DA:970:C:H2'	35:DA:971:C:H6	1.45	0.80
35:DA:2483:C:H3'	35:DA:2484:G:H5''	1.64	0.80
41:DG:5:VAL:HB	41:DG:8:LYS:HB2	1.64	0.80
50:DR:73:VAL:O	50:DR:76:VAL:HG12	1.80	0.80
51:DS:89:ARG:HG3	51:DS:92:TYR:CA	2.10	0.80
24:AY:662:LYS:HZ2	42:BH:175:LYS:CD	1.94	0.80
29:B4:53:GLU:HB3	29:B4:55:ARG:HE	1.47	0.80
35:BA:1539:G:C2	35:BA:1540:U:H1'	2.16	0.80
41:BG:61:ALA:HA	41:BG:64:THR:HG22	1.64	0.80
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.16	0.80
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	1.97	0.80
24:CY:228:MET:O	24:CY:232:LEU:HD22	1.82	0.80
35:DA:203:C:H3'	35:DA:204:A:H5''	1.62	0.80
35:DA:1142(A):A:H2'	35:DA:1143:A:H5''	1.62	0.80
38:DD:147:LEU:HD13	38:DD:155:LEU:HD11	1.63	0.80
39:DE:111:ARG:HG3	50:DR:2:ARG:HG2	1.64	0.80
41:DG:46:ALA:HB2	41:DG:88:ILE:CB	2.12	0.80
52:DT:53:ARG:HB3	52:DT:53:ARG:HH11	1.47	0.80
44:BK:59:ILE:HG12	44:BK:60:TYR:N	1.95	0.80
1:CA:438:G:H4'	1:CA:439:A:OP1	1.80	0.80
12:CL:25:PRO:C	12:CL:27:LEU:H	1.86	0.80
32:D7:19:ARG:HD3	35:DA:125:G:H5'	1.63	0.80
32:D7:41:ARG:HH22	35:DA:460:A:P	2.04	0.80
35:DA:1539:G:C2	35:DA:1540:U:H1'	2.17	0.80
12:AL:6:THR:HG23	12:AL:9:GLN:HE21	1.46	0.80
24:AY:513:LYS:CB	24:AY:566:THR:HB	2.11	0.80
30:B5:40:LYS:NZ	30:B5:46:CYS:H	1.79	0.80
35:BA:83:G:HO2'	35:BA:84:A:H8	1.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2463:C:O2'	35:BA:2464:C:H5'	1.82	0.80
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.64	0.80
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.63	0.80
29:D4:10:VAL:HG23	29:D4:11:PRO:HD2	1.61	0.80
38:DD:44:ASN:CB	38:DD:49:ILE:HA	2.11	0.80
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	1.81	0.80
1:AA:662:G:H2'	1:AA:663:A:C8	2.17	0.80
9:AI:114:TYR:HE1	10:AJ:60:ARG:H	1.24	0.80
13:AM:6:GLY:C	13:AM:8:GLU:H	1.90	0.80
35:BA:226:G:H4'	35:BA:227:A:OP1	1.82	0.80
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.11	0.80
41:BG:135:LEU:HD11	41:BG:155:MET:CG	2.11	0.80
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	1.63	0.80
58:BZ:42:VAL:HG13	58:BZ:43:GLU:H	1.45	0.80
24:CY:193:GLY:HA3	24:CY:266:ASN:HB3	1.62	0.80
49:DQ:6:ARG:O	49:DQ:7:MET:HG3	1.81	0.80
54:DV:38:LEU:O	54:DV:39:LEU:HD13	1.80	0.80
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.64	0.80
24:AY:573:HIS:HD2	24:AY:576:ASP:H	1.28	0.80
28:B3:29:ARG:HB2	28:B3:29:ARG:HH11	1.44	0.80
35:BA:2518:A:H5''	35:BA:2519:U:OP2	1.81	0.80
38:BD:35:LYS:HG3	38:BD:63:ARG:HG3	1.64	0.80
40:BF:28:ILE:H	40:BF:28:ILE:HD13	1.47	0.80
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	1.82	0.80
44:BK:77:LEU:HD23	44:BK:77:LEU:H	1.45	0.80
58:BZ:86:VAL:HG12	58:BZ:87:ASP:H	1.46	0.80
1:CA:1026:G:H2'	1:CA:1027:C:H5'	1.62	0.80
27:D2:12:GLU:O	27:D2:16:LEU:HG	1.82	0.80
27:D2:24:LEU:HD22	27:D2:60:LEU:HD11	1.63	0.80
35:DA:2189:U:C2'	35:DA:2190:G:H5''	2.12	0.80
38:DD:24:ILE:HD13	38:DD:25:THR:H	1.46	0.80
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.47	0.80
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.81	0.80
9:AI:88:TYR:O	9:AI:89:ASN:HB2	1.81	0.80
31:B6:37:ARG:NH1	35:BA:2286:A:N7	2.29	0.80
48:BP:6:LEU:HB3	48:BP:9:ASN:ND2	1.96	0.80
51:BS:65:VAL:O	51:BS:69:VAL:HG12	1.81	0.80
1:CA:1489:G:H2'	1:CA:1490:C:C5'	2.11	0.80
2:CB:126:GLU:HA	2:CB:129:GLU:OE1	1.80	0.80
22:CW:6:G:H2'	22:CW:7:G:O4'	1.82	0.80
35:DA:1947:C:H2'	35:DA:1948:G:H5''	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:83:TYR:HB3	42:DH:134:SER:HA	1.62	0.80
47:DO:104:ARG:HE	52:DT:33:LYS:HE3	1.47	0.80
53:DU:88:ILE:HG22	54:DV:47:VAL:O	1.82	0.80
58:DZ:53:ILE:HG22	58:DZ:71:VAL:HB	1.64	0.80
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.18	0.79
24:AY:227:ILE:HG23	24:AY:237:PRO:HG2	1.63	0.79
35:BA:212:G:H5'	35:BA:212:G:H8	1.46	0.79
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ1	1.47	0.79
1:CA:1442:G:C6	1:CA:1442(B):A:H2	2.00	0.79
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.45	0.79
2:CB:204:ASN:HD22	2:CB:205:ASP:N	1.80	0.79
35:DA:107:C:H2'	35:DA:108:U:C6	2.17	0.79
35:DA:212:G:H8	35:DA:212:G:H5'	1.45	0.79
35:DA:861:A:H2'	35:DA:862:G:O4'	1.82	0.79
37:DC:31:LYS:HE3	37:DC:179:ALA:O	1.82	0.79
50:DR:63:ARG:HH22	50:DR:77:ARG:HG2	1.47	0.79
53:DU:44:ASN:HD21	54:DV:75:PHE:HB3	1.47	0.79
55:DW:59:VAL:O	55:DW:59:VAL:HG12	1.83	0.79
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.46	0.79
38:BD:83:GLU:HB2	38:BD:92:ILE:HD11	1.64	0.79
51:BS:49:VAL:HG12	51:BS:50:SER:H	1.46	0.79
4:CD:96:LEU:HD22	4:CD:96:LEU:H	1.47	0.79
10:CJ:3:LYS:HZ3	10:CJ:77:PRO:HD2	1.48	0.79
32:D7:23:ARG:C	32:D7:28:ARG:HH12	1.89	0.79
35:DA:979:G:H3'	35:DA:980:A:C5'	2.10	0.79
42:DH:85:LYS:NZ	42:DH:87:LEU:HG	1.96	0.79
44:DK:4:VAL:HG12	44:DK:5:VAL:H	1.45	0.79
56:DX:53:LYS:HD2	56:DX:55:ASN:HD21	1.48	0.79
58:DZ:108:PRO:HA	58:DZ:142:SER:HA	1.64	0.79
1:AA:1129:C:O2'	1:AA:1130:A:C8	2.34	0.79
35:BA:2068:U:N3	35:BA:2430:A:H2	1.80	0.79
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.08	0.79
48:BP:77:ARG:HB2	48:BP:78:PRO:HD2	1.64	0.79
48:BP:102:ARG:HB3	48:BP:102:ARG:NH2	1.98	0.79
1:CA:148:G:H2'	1:CA:149:A:C8	2.16	0.79
1:CA:243:A:H4'	1:CA:244:U:O5'	1.80	0.79
3:CC:150:LYS:HB2	3:CC:169:ALA:CB	2.12	0.79
25:D0:43:THR:H	35:DA:2331:G:H4'	1.45	0.79
44:DK:59:ILE:HG12	44:DK:60:TYR:H	1.47	0.79
46:DN:58:ASP:C	46:DN:60:ILE:H	1.91	0.79
58:DZ:163:LEU:H	58:DZ:163:LEU:HD23	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:48:PHE:O	33:B8:49:VAL:HG13	1.82	0.79
35:BA:1142(A):A:H2'	35:BA:1143:A:H5''	1.62	0.79
35:BA:2804:C:H2'	35:BA:2805:G:C8	2.17	0.79
41:BG:91:ARG:HD2	41:BG:92:VAL:N	1.96	0.79
42:BH:19:VAL:HG12	42:BH:20:ALA:H	1.46	0.79
52:BT:53:ARG:HB3	52:BT:53:ARG:HH11	1.46	0.79
5:CE:81:GLU:HG2	5:CE:90:VAL:HG22	1.65	0.79
34:D9:32:HIS:O	34:D9:34:GLN:HG3	1.82	0.79
35:DA:1541:G:H4'	35:DA:1542:A:O5'	1.83	0.79
46:DN:129:PRO:O	46:DN:130:HIS:HB3	1.79	0.79
48:DP:30:THR:HG22	48:DP:31:ALA:N	1.98	0.79
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.64	0.79
24:AY:122:TRP:CE3	24:AY:132:ARG:HD2	2.18	0.79
41:BG:16:ARG:HE	41:BG:31:VAL:HG11	1.48	0.79
42:BH:41:MET:CG	42:BH:43:VAL:HG13	2.11	0.79
49:BQ:54:MET:HG2	49:BQ:64:ILE:HD13	1.64	0.79
53:BU:53:ARG:HA	53:BU:56:ASP:OD2	1.83	0.79
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.11	0.79
1:CA:662:G:H2'	1:CA:663:A:C8	2.18	0.79
31:D6:43:CYS:HB2	31:D6:44:ARG:HH21	1.48	0.79
42:DH:41:MET:CG	42:DH:43:VAL:HG13	2.13	0.79
48:DP:115:LEU:HA	48:DP:134:ALA:HB3	1.63	0.79
24:AY:466:LEU:HA	24:AY:470:PHE:CD2	2.18	0.79
35:BA:861:A:H2'	35:BA:862:G:O4'	1.82	0.79
35:BA:2389:G:H5''	35:BA:2390:U:H5'	1.65	0.79
42:BH:85:LYS:NZ	42:BH:87:LEU:HG	1.97	0.79
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.62	0.79
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.48	0.79
35:DA:272(G):C:C2'	35:DA:272(H):C:H5''	2.12	0.79
35:DA:621:A:H2'	35:DA:622:G:H5'	1.63	0.79
35:DA:1494:A:C2'	35:DA:1495:A:H5''	2.12	0.79
1:AA:182:U:H5'	1:AA:183:G:OP2	1.83	0.79
13:AM:68:GLY:N	13:AM:71:ARG:HB3	1.97	0.79
31:B6:43:CYS:HB2	31:B6:44:ARG:HH21	1.48	0.79
32:B7:41:ARG:HH22	35:BA:460:A:P	2.05	0.79
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.63	0.79
35:BA:288:C:H2'	35:BA:289:A:H8	1.45	0.79
44:BK:59:ILE:HG12	44:BK:60:TYR:H	1.48	0.79
48:BP:30:THR:HG22	48:BP:31:ALA:N	1.97	0.79
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	1.98	0.79
3:CC:34:LEU:HD22	3:CC:38:ARG:HD2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:299:A:H5'	35:DA:300:A:OP2	1.82	0.79
35:DA:2584:U:C2'	35:DA:2585:U:H5'	2.11	0.79
35:BA:533:G:H5''	53:BU:24:TYR:CD2	2.17	0.79
39:BE:1:MET:HB3	39:BE:200:GLU:OE1	1.83	0.79
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.65	0.79
44:BK:81:ALA:HB1	44:BK:99:ILE:HD11	1.63	0.79
51:BS:13:ARG:HG3	51:BS:14:VAL:N	1.97	0.79
1:CA:328:C:H2'	1:CA:328:C:O2	1.83	0.79
24:CY:491:VAL:HG12	24:CY:492:ASP:H	1.46	0.79
27:D2:69:ARG:HG3	27:D2:70:GLN:H	1.48	0.79
53:DU:110:VAL:HG12	53:DU:114:LYS:HD3	1.63	0.79
56:DX:53:LYS:HD2	56:DX:55:ASN:ND2	1.97	0.79
1:AA:625:G:H2'	1:AA:626:U:C6	2.18	0.79
35:BA:107:C:H2'	35:BA:108:U:C6	2.18	0.79
35:BA:2189:U:C2'	35:BA:2190:G:H5''	2.12	0.79
7:CG:4:ARG:HB3	7:CG:5:ARG:HH11	1.47	0.79
13:CM:68:GLY:N	13:CM:71:ARG:HB3	1.97	0.79
33:D8:62:LEU:HD13	35:DA:242:G:H5''	1.63	0.79
44:DK:81:ALA:HB1	44:DK:99:ILE:HD11	1.63	0.79
46:DN:57:ALA:H	46:DN:124:ALA:HA	1.46	0.79
1:AA:814:A:H2'	1:AA:816:A:H5'	1.63	0.79
24:AY:91:THR:O	24:AY:93:GLU:N	2.16	0.79
24:AY:196:ILE:O	24:AY:197:ARG:HB2	1.83	0.79
35:BA:1259:G:O2'	35:BA:1260:G:H5'	1.83	0.79
35:BA:1845:G:H2'	35:BA:1846:G:C5'	2.12	0.79
1:CA:182:U:H5'	1:CA:183:G:OP2	1.83	0.79
1:CA:1490:C:H5'	1:CA:1490:C:C6	2.18	0.79
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HD22	1.47	0.79
41:DG:34:LEU:H	41:DG:34:LEU:HD12	1.48	0.79
52:DT:118:ARG:HA	52:DT:121:ILE:HB	1.65	0.79
58:DZ:7:ALA:O	58:DZ:62:PRO:HD3	1.82	0.79
14:AN:41:ARG:HH11	14:AN:41:ARG:HG2	1.47	0.78
24:AY:427:ALA:HB1	24:AY:466:LEU:CD1	2.12	0.78
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.48	0.78
35:BA:2439:A:O2'	35:BA:2587:A:H5''	1.83	0.78
44:BK:100:THR:HA	44:BK:139:VAL:HB	1.65	0.78
24:CY:65:ILE:O	24:CY:65:ILE:HG12	1.82	0.78
35:DA:2076:U:H5'	35:DA:2238:G:H22	1.48	0.78
35:DA:2122:U:H2'	35:DA:2123:G:C8	2.18	0.78
35:DA:2476:A:C2'	35:DA:2477:C:H5''	2.13	0.78
48:DP:77:ARG:HB2	48:DP:78:PRO:HD2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:12:VAL:HB	56:DX:17:ALA:CB	2.09	0.78
10:AJ:7:LYS:HB2	10:AJ:97:GLU:HB2	1.63	0.78
24:AY:157:LEU:HD23	24:AY:157:LEU:N	1.97	0.78
26:B1:5:CYS:SG	26:B1:62:VAL:HA	2.22	0.78
35:BA:299:A:H5'	35:BA:300:A:OP2	1.82	0.78
36:BB:87:G:C3'	36:BB:88:C:H5''	2.13	0.78
56:BX:53:LYS:HD2	56:BX:55:ASN:HD21	1.47	0.78
35:DA:2514:U:H2'	35:DA:2515:C:H6	1.49	0.78
49:DQ:54:MET:HG2	49:DQ:64:ILE:HD13	1.65	0.78
1:AA:797:C:OP1	11:AK:124:LYS:HE3	1.83	0.78
10:AJ:4:ILE:HD13	10:AJ:74:ILE:HG13	1.66	0.78
13:AM:66:LEU:HD12	13:AM:66:LEU:N	1.97	0.78
15:AO:80:ALA:HB1	15:AO:84:LYS:HE2	1.66	0.78
26:B1:45:ASN:HD22	26:B1:45:ASN:C	1.90	0.78
33:B8:33:ASN:HD22	33:B8:33:ASN:N	1.79	0.78
35:BA:904:C:H5'	35:BA:904:C:H6	1.47	0.78
22:CW:7:G:H5''	22:CW:50:G:OP2	1.84	0.78
38:DD:95:LEU:HD12	38:DD:103:ARG:O	1.83	0.78
42:DH:83:TYR:HB3	42:DH:135:GLY:H	1.49	0.78
50:DR:2:ARG:HD2	50:DR:5:LYS:HE2	1.65	0.78
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.64	0.78
27:B2:69:ARG:HH22	35:BA:111:A:C4'	1.96	0.78
35:BA:142:A:H8	35:BA:1595:G:H21	1.31	0.78
37:BC:111:PHE:HE1	37:BC:137:LEU:HD13	1.48	0.78
38:BD:35:LYS:HD2	38:BD:35:LYS:C	2.09	0.78
58:BZ:77:ASP:O	58:BZ:79:ARG:N	2.15	0.78
7:CG:45:ASP:O	7:CG:49:ILE:HG12	1.84	0.78
24:CY:191:ASP:HB3	24:CY:265:LYS:HD2	1.65	0.78
31:D6:19:ARG:HG2	35:DA:2400:G:O5'	1.81	0.78
36:DB:103:G:H21	58:DZ:73:GLN:NE2	1.81	0.78
42:DH:85:LYS:HE3	42:DH:145:ALA:HB1	1.66	0.78
2:AB:121:LEU:HD22	2:AB:126:GLU:HB2	1.65	0.78
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.64	0.78
9:AI:95:LYS:HD3	9:AI:96:LEU:N	1.98	0.78
12:AL:27:LEU:O	12:AL:29:GLY:N	2.15	0.78
35:BA:1434:A:H61	35:BA:1558:A:N6	1.81	0.78
41:BG:87:PRO:O	41:BG:88:ILE:HD12	1.83	0.78
51:BS:98:VAL:C	51:BS:100:ALA:H	1.92	0.78
13:CM:6:GLY:C	13:CM:8:GLU:H	1.91	0.78
24:CY:9:LEU:O	24:CY:9:LEU:HD23	1.82	0.78
29:D4:56:VAL:HG12	29:D4:56:VAL:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:48:PHE:O	33:D8:49:VAL:HG13	1.83	0.78
38:DD:83:GLU:HB2	38:DD:92:ILE:HD11	1.65	0.78
1:AA:509:A:C5'	1:AA:510:A:OP2	2.30	0.78
3:AC:152:ILE:HG22	3:AC:167:TRP:HA	1.65	0.78
23:AX:15:A:H5'	23:AX:16:A:OP1	1.83	0.78
24:AY:662:LYS:HZ3	42:BH:175:LYS:HG3	1.47	0.78
28:B3:17:LYS:HZ3	28:B3:20:LYS:HE3	1.48	0.78
29:B4:53:GLU:HB3	29:B4:55:ARG:NE	1.98	0.78
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.13	0.78
50:BR:2:ARG:HD2	50:BR:5:LYS:HE2	1.66	0.78
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	1.84	0.78
26:D1:24:ALA:HB2	26:D1:32:LYS:HE3	1.66	0.78
35:DA:1538:G:H2'	35:DA:1539:G:C8	2.18	0.78
38:DD:144:ALA:HB3	38:DD:192:THR:HG23	1.66	0.78
39:DE:50:GLY:HA2	39:DE:78:LEU:HB3	1.66	0.78
54:DV:46:VAL:HG22	54:DV:47:VAL:H	1.49	0.78
4:AD:13:ARG:O	4:AD:15:GLU:N	2.17	0.78
46:BN:26:LEU:C	46:BN:26:LEU:HD12	2.09	0.78
46:BN:58:ASP:C	46:BN:60:ILE:H	1.92	0.78
56:BX:53:LYS:HD2	56:BX:55:ASN:ND2	1.98	0.78
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.46	0.78
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	1.82	0.78
30:D5:27:PRO:HG3	55:DW:23:LEU:HD11	1.66	0.78
31:D6:37:ARG:NH1	35:DA:2286:A:N7	2.32	0.78
35:DA:1007:C:H4'	46:DN:108:PRO:HD3	1.66	0.78
35:DA:1845:G:H2'	35:DA:1846:G:C5'	2.14	0.78
36:DB:66:A:H61	36:DB:108:U:H2'	1.47	0.78
41:DG:76:SER:CB	41:DG:83:ARG:HB3	2.13	0.78
50:DR:21:TYR:HB3	50:DR:47:PHE:CD2	2.19	0.78
1:AA:1037:C:H2'	1:AA:1038:C:C2	2.19	0.78
8:AH:10:LEU:HD22	8:AH:83:ILE:HD11	1.65	0.78
24:AY:201:ILE:H	24:AY:201:ILE:HD12	1.49	0.78
35:BA:545:C:C2'	35:BA:547:A:H5''	2.14	0.78
40:BF:157:VAL:CG2	40:BF:194:MET:HG2	2.13	0.78
52:BT:55:ASN:N	52:BT:59:THR:HG22	1.98	0.78
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	1.83	0.78
39:DE:1:MET:HB3	39:DE:200:GLU:OE1	1.84	0.78
42:DH:149:ARG:HD3	42:DH:164:TYR:CE1	2.19	0.78
54:DV:18:LEU:HD22	54:DV:19:LYS:N	1.97	0.78
1:AA:1238:A:H5'	1:AA:1336:C:N4	1.97	0.78
4:AD:96:LEU:H	4:AD:96:LEU:HD22	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:91:PHE:H	48:BP:91:PHE:HD1	1.28	0.78
52:BT:13:ARG:HA	52:BT:13:ARG:NH1	1.99	0.78
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.18	0.78
18:CR:37:VAL:HG23	18:CR:38:GLU:N	1.96	0.78
29:D4:53:GLU:HB3	29:D4:55:ARG:HE	1.46	0.78
30:D5:44:THR:HG22	30:D5:45:VAL:H	1.49	0.78
35:DA:1188:U:O2'	35:DA:1189:A:H5'	1.83	0.78
35:DA:1434:A:H61	35:DA:1558:A:N6	1.81	0.78
35:DA:2518:A:H5''	35:DA:2519:U:OP2	1.84	0.78
48:DP:91:PHE:HD1	48:DP:91:PHE:H	1.30	0.78
26:B1:81:LYS:C	26:B1:82:LEU:HD12	2.07	0.78
35:BA:1188:U:O2'	35:BA:1189:A:H5'	1.84	0.78
42:BH:13:LYS:HE2	42:BH:13:LYS:HA	1.66	0.78
48:BP:115:LEU:HA	48:BP:134:ALA:HB3	1.64	0.78
20:CT:57:ARG:NH1	20:CT:102:GLY:HA2	1.99	0.78
24:CY:230:LYS:NZ	24:CY:237:PRO:HA	1.98	0.78
35:DA:1115:G:H2'	35:DA:1116:C:C6	2.19	0.78
1:AA:1225:A:H2'	1:AA:1225:A:N3	1.99	0.77
3:AC:46:GLU:O	3:AC:47:LEU:HB2	1.83	0.77
3:AC:70:VAL:O	3:AC:106:VAL:HG23	1.83	0.77
7:AG:4:ARG:HB3	7:AG:5:ARG:HH11	1.47	0.77
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	1.99	0.77
20:AT:57:ARG:NH1	20:AT:102:GLY:HA2	1.99	0.77
35:BA:556:G:H2'	35:BA:557:U:C6	2.19	0.77
35:BA:1538:G:H2'	35:BA:1539:G:C8	2.18	0.77
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.48	0.77
40:BF:3:GLU:HA	40:BF:24:LEU:CG	2.13	0.77
42:BH:170:ARG:O	42:BH:171:LEU:HB3	1.84	0.77
53:BU:47:TYR:HA	53:BU:50:ARG:NH2	1.99	0.77
55:BW:59:VAL:HG12	55:BW:59:VAL:O	1.82	0.77
1:CA:447:G:H2'	1:CA:485:G:N2	1.99	0.77
1:CA:1037:C:H2'	1:CA:1038:C:C2	2.18	0.77
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.65	0.77
10:CJ:4:ILE:HD13	10:CJ:74:ILE:HG13	1.65	0.77
22:CV:21:A:H61	22:CV:46:G:H2'	1.47	0.77
24:CY:84:THR:H	24:CY:85:PRO:CD	1.97	0.77
24:CY:238:THR:HG23	24:CY:241:GLU:H	1.48	0.77
27:D2:69:ARG:HH22	35:DA:111:A:C5'	1.97	0.77
35:DA:1578:U:H2'	35:DA:1579:A:H5''	1.66	0.77
35:DA:2657:A:H2'	35:DA:2658:C:H5'	1.65	0.77
36:DB:87:G:C3'	36:DB:88:C:H5''	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:175:LYS:O	42:DH:176:ALA:CB	2.32	0.77
4:AD:114:ARG:HH11	4:AD:114:ARG:HG3	1.48	0.77
10:AJ:9:ARG:HG2	10:AJ:69:ASN:OD1	1.84	0.77
11:AK:111:ASP:OD2	18:AR:84:LYS:HE2	1.83	0.77
35:BA:1243:G:H1'	48:BP:8:PRO:HB3	1.65	0.77
35:BA:2020:A:C2'	35:BA:2021:C:H5''	2.14	0.77
35:BA:2262:U:H2'	35:BA:2263:C:C5'	2.15	0.77
36:BB:66:A:H61	36:BB:108:U:H2'	1.48	0.77
1:CA:1270:C:H2'	1:CA:1271:G:C8	2.19	0.77
35:DA:2463:C:O2'	35:DA:2464:C:H5'	1.84	0.77
35:DA:2577:A:H5'	35:DA:2578:G:H5'	1.65	0.77
1:AA:328:C:O2	1:AA:328:C:H2'	1.84	0.77
22:AV:46:G:H4'	22:AV:47:U:C5	2.15	0.77
26:B1:76:ARG:NH1	26:B1:95:LEU:HD22	1.99	0.77
35:BA:395:U:H2'	35:BA:396:G:C8	2.19	0.77
58:BZ:4:ARG:HH12	58:BZ:66:SER:HB2	1.50	0.77
2:CB:95:GLN:C	2:CB:96:ARG:HD2	2.10	0.77
3:CC:70:VAL:O	3:CC:106:VAL:HG23	1.84	0.77
9:CI:95:LYS:NZ	9:CI:96:LEU:HD12	1.99	0.77
9:CI:104:ARG:O	9:CI:104:ARG:HG2	1.82	0.77
30:D5:58:LEU:HD22	30:D5:58:LEU:O	1.85	0.77
35:DA:533:G:H5''	53:DU:24:TYR:CD2	2.19	0.77
35:DA:2126:A:H4'	35:DA:2127:G:O5'	1.82	0.77
44:DK:93:ARG:CB	58:DZ:112:ARG:HE	1.97	0.77
46:DN:46:VAL:HG13	46:DN:48:MET:HE2	1.67	0.77
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HD22	1.49	0.77
13:AM:99:ARG:O	13:AM:101:GLN:HG3	1.84	0.77
35:BA:272(G):C:C2'	35:BA:272(H):C:H5''	2.14	0.77
53:BU:88:ILE:HG22	54:BV:47:VAL:O	1.84	0.77
54:BV:18:LEU:HD22	54:BV:19:LYS:N	1.99	0.77
4:CD:13:ARG:O	4:CD:15:GLU:N	2.17	0.77
10:CJ:96:ILE:HD13	10:CJ:96:ILE:H	1.48	0.77
22:CW:31:G:H2'	22:CW:32:G:H8	1.50	0.77
35:DA:82:G:H5''	35:DA:296:C:H5'	1.65	0.77
35:DA:154(A):C:C5'	35:DA:155:U:H5''	2.13	0.77
40:DF:20:LEU:HD22	40:DF:23:ASP:OD2	1.83	0.77
48:DP:102:ARG:NH2	48:DP:102:ARG:HB3	1.99	0.77
53:DU:47:TYR:HA	53:DU:50:ARG:NH2	1.99	0.77
56:DX:27:THR:HB	56:DX:80:ILE:HG22	1.66	0.77
3:AC:150:LYS:HB2	3:AC:169:ALA:CB	2.14	0.77
22:AV:46:G:O3'	22:AV:47:U:H6	1.68	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:871:U:H4'	49:BQ:69:PHE:CE2	2.20	0.77
53:BU:110:VAL:HG12	53:BU:114:LYS:HD3	1.67	0.77
58:BZ:59:LEU:O	58:BZ:66:SER:HA	1.84	0.77
4:CD:114:ARG:HG3	4:CD:114:ARG:HH11	1.48	0.77
4:CD:152:SER:O	4:CD:155:LEU:HG	1.85	0.77
12:CL:20:LYS:HD3	12:CL:20:LYS:H	1.49	0.77
27:D2:47:ASN:HB2	35:DA:95:G:H1'	1.65	0.77
35:DA:364:C:H2'	35:DA:365:C:H5''	1.66	0.77
35:DA:1223:G:H3'	35:DA:1224:C:C5'	2.14	0.77
35:DA:2334:G:H5'	51:DS:13:ARG:HD3	1.67	0.77
42:DH:66:GLY:HA2	42:DH:69:ARG:HB3	1.66	0.77
51:DS:49:VAL:HG12	51:DS:50:SER:H	1.49	0.77
52:DT:65:LYS:HA	52:DT:65:LYS:HZ2	1.49	0.77
56:DX:12:VAL:HG12	56:DX:27:THR:O	1.83	0.77
24:AY:169:GLY:HA3	24:AY:173:THR:O	1.85	0.77
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.14	0.77
35:BA:1578:U:H2'	35:BA:1579:A:H5''	1.65	0.77
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	1.85	0.77
12:CL:6:THR:HG23	12:CL:9:GLN:HE21	1.49	0.77
24:CY:128:TYR:O	24:CY:129:LYS:HB2	1.83	0.77
24:CY:174:PHE:CZ	24:CY:261:GLY:HA2	2.20	0.77
35:DA:1243:G:H1'	48:DP:8:PRO:HB3	1.64	0.77
35:DA:1434:A:H61	35:DA:1558:A:H62	1.31	0.77
41:DG:121:ASN:CB	41:DG:124:SER:HB2	2.14	0.77
44:DK:100:THR:HA	44:DK:139:VAL:HB	1.66	0.77
53:DU:53:ARG:HA	53:DU:56:ASP:OD2	1.84	0.77
54:DV:58:VAL:O	54:DV:97:LYS:HB2	1.84	0.77
1:AA:559:A:H4'	1:AA:560:U:H5'	1.66	0.77
24:AY:199:ILE:HD12	24:AY:199:ILE:O	1.85	0.77
29:B4:13:ARG:HH11	29:B4:13:ARG:HB3	1.48	0.77
35:BA:2657:A:H2'	35:BA:2658:C:H5'	1.66	0.77
35:BA:2778:A:H5'	35:BA:2779:U:OP2	1.84	0.77
38:BD:145:VAL:HG22	38:BD:191:ALA:HB1	1.64	0.77
46:BN:35:ARG:O	46:BN:37:LYS:N	2.17	0.77
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.50	0.77
22:CV:17:C:H5''	22:CV:17(A):U:C6	2.17	0.77
35:DA:904:C:H5'	35:DA:904:C:H6	1.47	0.77
35:DA:1946:U:H2'	35:DA:1947:C:C6	2.19	0.77
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.13	0.77
58:DZ:37:VAL:O	58:DZ:38:TYR:HB3	1.85	0.77
35:BA:533:G:H5''	53:BU:24:TYR:CE2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1494:A:C2'	35:BA:1495:A:H5''	2.13	0.77
36:BB:112:U:H2'	36:BB:113:G:H8	1.49	0.77
37:BC:90:ALA:HA	37:BC:155:ARG:NH1	2.00	0.77
42:BH:153:LYS:HG3	42:BH:154:PRO:HD2	1.67	0.77
46:BN:96:GLU:N	46:BN:96:GLU:OE2	2.18	0.77
1:CA:1238:A:H5'	1:CA:1336:C:N4	1.99	0.77
1:CA:1444:C:H2'	1:CA:1445:C:C6	2.19	0.77
2:CB:31:TYR:HE1	2:CB:200:ILE:HD12	1.49	0.77
2:CB:204:ASN:HD22	2:CB:204:ASN:C	1.91	0.77
10:CJ:20:ALA:C	10:CJ:22:LYS:H	1.92	0.77
35:DA:1053:C:C3'	35:DA:1054:A:H5''	2.15	0.77
24:AY:180:VAL:HG23	24:AY:216:LEU:HD12	1.67	0.77
30:B5:44:THR:HG22	30:B5:45:VAL:H	1.48	0.77
52:BT:28:VAL:CG2	52:BT:46:GLU:HG3	2.15	0.77
1:CA:275:G:H5''	17:CQ:14:LYS:HB2	1.67	0.77
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.66	0.77
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.14	0.77
35:DA:2068:U:N3	35:DA:2430:A:H2	1.83	0.77
35:DA:2103:C:C2'	35:DA:2104:G:H5''	2.14	0.77
39:DE:47:VAL:HG12	39:DE:48:GLN:N	2.00	0.77
40:DF:3:GLU:HA	40:DF:24:LEU:CG	2.12	0.77
41:DG:77:ILE:HG22	41:DG:80:PHE:N	2.00	0.77
46:DN:65:LYS:HB3	46:DN:69:GLN:HG3	1.67	0.77
52:DT:83:ILE:HG13	52:DT:84:GLN:N	1.98	0.77
57:DY:62:GLU:HG2	57:DY:63:LYS:H	1.50	0.77
2:AB:22:LYS:H	2:AB:40:HIS:CE1	2.03	0.77
10:AJ:20:ALA:C	10:AJ:22:LYS:H	1.91	0.77
19:AS:64:GLU:HG2	29:B4:48:ARG:NH2	2.00	0.77
41:BG:68:PRO:CA	41:BG:92:VAL:HG12	2.12	0.77
24:CY:505:GLY:HA3	24:CY:576:ASP:CG	2.10	0.77
30:D5:41:PRO:HG2	30:D5:44:THR:OG1	1.85	0.77
35:DA:226:G:H4'	35:DA:227:A:OP1	1.83	0.77
37:DC:90:ALA:HA	37:DC:155:ARG:NH1	2.00	0.77
46:DN:35:ARG:O	46:DN:37:LYS:N	2.18	0.77
53:DU:92:ARG:O	53:DU:94:ASN:N	2.18	0.77
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.67	0.76
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.50	0.76
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	1.85	0.76
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.67	0.76
2:AB:95:GLN:C	2:AB:96:ARG:HD2	2.11	0.76
3:AC:3:ASN:O	3:AC:4:LYS:HB2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:69:ARG:HG3	27:B2:70:GLN:H	1.49	0.76
35:BA:1007:C:H4'	46:BN:108:PRO:HD3	1.67	0.76
40:BF:20:LEU:HD22	40:BF:23:ASP:OD2	1.84	0.76
41:BG:55:LYS:O	41:BG:58:GLN:HG3	1.85	0.76
41:BG:98:ARG:HH11	41:BG:98:ARG:HG2	1.48	0.76
1:CA:309:G:H1'	1:CA:608:A:C2	2.20	0.76
11:CK:58:PRO:HA	11:CK:90:GLY:HA3	1.67	0.76
19:CS:64:GLU:HG2	29:D4:48:ARG:NH2	2.00	0.76
24:CY:331:TYR:O	24:CY:371:ALA:HB1	1.84	0.76
31:D6:27:LYS:O	31:D6:27:LYS:HD2	1.85	0.76
35:DA:871:U:H4'	49:DQ:69:PHE:CE2	2.20	0.76
38:DD:261:LYS:NZ	38:DD:263:ARG:HH12	1.83	0.76
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.67	0.76
58:DZ:166:SER:HB2	58:DZ:168:GLU:N	2.00	0.76
24:AY:415:PRO:HA	24:AY:474:ALA:CB	2.14	0.76
35:BA:2076:U:H5'	35:BA:2238:G:H22	1.47	0.76
37:BC:31:LYS:HE3	37:BC:179:ALA:O	1.84	0.76
42:BH:83:TYR:HB3	42:BH:135:GLY:H	1.48	0.76
54:BV:45:THR:O	54:BV:46:VAL:HG12	1.85	0.76
56:BX:8:ILE:HD12	56:BX:8:ILE:H	1.49	0.76
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.67	0.76
1:CA:179:A:H2'	1:CA:180:U:C6	2.20	0.76
16:CP:25:ARG:HH11	16:CP:25:ARG:HG3	1.49	0.76
22:CV:35:A:O2'	22:CV:36:U:H5'	1.85	0.76
24:CY:630:GLN:NE2	24:CY:646:PHE:HD2	1.84	0.76
35:DA:962:G:O2'	35:DA:963:U:H5'	1.84	0.76
35:DA:1689:A:H62	35:DA:1698:A:H2	1.29	0.76
35:DA:2312:U:OP1	41:DG:73:ALA:HA	1.85	0.76
42:DH:170:ARG:O	42:DH:171:LEU:HB3	1.84	0.76
1:AA:1270:C:H2'	1:AA:1271:G:C8	2.21	0.76
3:AC:16:ARG:HH11	3:AC:16:ARG:CB	1.97	0.76
24:AY:67:ALA:HB1	24:AY:327:PHE:CZ	2.19	0.76
35:BA:108:U:H2'	35:BA:109:G:H8	1.47	0.76
35:BA:979:G:H3'	35:BA:980:A:H5'	1.68	0.76
35:BA:1053:C:C3'	35:BA:1054:A:H5''	2.15	0.76
35:BA:1517:G:H5'	35:BA:1517:G:H8	1.48	0.76
35:BA:2483:C:H3'	35:BA:2484:G:H5''	1.66	0.76
37:BC:101:ILE:O	37:BC:105:LEU:HB2	1.85	0.76
42:BH:85:LYS:HE3	42:BH:145:ALA:HB1	1.65	0.76
1:CA:194:C:H2'	1:CA:195:A:H5''	1.66	0.76
35:DA:545:C:C2'	35:DA:547:A:H5''	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1390:U:O2'	35:DA:1391:U:H5'	1.84	0.76
35:DA:1409:C:H2'	35:DA:1410:G:H8	1.49	0.76
41:DG:138:GLN:HB3	41:DG:153:ARG:O	1.86	0.76
51:DS:34:HIS:CE1	51:DS:54:LEU:HB3	2.20	0.76
52:DT:13:ARG:HA	52:DT:13:ARG:NH1	2.00	0.76
52:DT:32:TYR:CD2	52:DT:32:TYR:N	2.52	0.76
55:DW:29:LEU:CD1	55:DW:51:LEU:HD11	2.15	0.76
56:DX:12:VAL:HG12	56:DX:27:THR:HG23	1.67	0.76
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.66	0.76
2:AB:204:ASN:HD22	2:AB:205:ASP:N	1.83	0.76
6:AF:45:LEU:O	6:AF:46:ARG:HG3	1.84	0.76
12:AL:20:LYS:HD3	12:AL:20:LYS:H	1.48	0.76
35:BA:84:A:H5''	57:BY:9:LYS:NZ	2.00	0.76
35:BA:907:U:OP1	49:BQ:24:GLY:N	2.18	0.76
35:BA:1541:G:H4'	35:BA:1542:A:O5'	1.83	0.76
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.15	0.76
48:BP:40:SER:C	48:BP:41:ARG:HD2	2.11	0.76
52:BT:83:ILE:HG13	52:BT:84:GLN:N	2.00	0.76
58:BZ:40:ASP:OD1	58:BZ:42:VAL:HG12	1.86	0.76
1:CA:625:G:H2'	1:CA:626:U:H6	1.50	0.76
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.50	0.76
23:CX:12:A:H3'	23:CX:12:A:N3	2.00	0.76
35:DA:1259:G:O2'	35:DA:1260:G:H5'	1.84	0.76
38:DD:35:LYS:HZ3	38:DD:36:PRO:CD	1.94	0.76
39:DE:59:VAL:HG11	39:DE:63:LEU:HG	1.68	0.76
52:DT:65:LYS:HE3	52:DT:66:VAL:N	1.98	0.76
52:DT:129:ARG:NH2	52:DT:130:ALA:HA	2.00	0.76
1:AA:631:G:H2'	1:AA:632:A:C8	2.21	0.76
1:AA:686:U:HO2'	1:AA:687:A:H8	1.30	0.76
1:AA:792:A:O2'	1:AA:794:A:N7	2.18	0.76
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.86	0.76
35:BA:2334:G:H5'	51:BS:13:ARG:HD3	1.67	0.76
35:BA:2789:C:H1'	35:BA:2892:A:C2	2.20	0.76
36:BB:103:G:H5'	36:BB:104:U:OP2	1.85	0.76
44:BK:17:ALA:CB	44:BK:38:VAL:HG22	2.16	0.76
50:BR:63:ARG:HH22	50:BR:77:ARG:HG2	1.49	0.76
53:BU:47:TYR:HA	53:BU:50:ARG:HH21	1.51	0.76
58:BZ:115:GLY:N	58:BZ:177:PRO:HG3	2.01	0.76
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.20	0.76
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.51	0.76
4:CD:98:GLU:HG2	4:CD:189:PRO:HG3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:92:ILE:CG2	24:CY:93:GLU:H	1.99	0.76
35:DA:218:A:H2	35:DA:235:U:H4'	1.51	0.76
35:DA:907:U:OP1	49:DQ:24:GLY:N	2.18	0.76
35:DA:2146:C:H4'	35:DA:2147:G:C8	2.21	0.76
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.13	0.76
54:DV:40:LEU:HA	54:DV:45:THR:HB	1.66	0.76
1:AA:194:C:H2'	1:AA:195:A:H5''	1.67	0.76
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.20	0.76
29:B4:56:VAL:O	29:B4:56:VAL:HG12	1.83	0.76
35:BA:82:G:H5''	35:BA:296:C:H5'	1.67	0.76
44:BK:93:ARG:HB2	58:BZ:112:ARG:HH21	1.50	0.76
1:CA:942:G:H21	9:CI:124:GLN:NE2	1.84	0.76
13:CM:99:ARG:O	13:CM:101:GLN:HG3	1.86	0.76
30:D5:3:LYS:HD2	30:D5:5:PRO:HD2	1.66	0.76
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.14	0.76
35:DA:1517:G:H8	35:DA:1517:G:H5'	1.51	0.76
36:DB:82:G:O2'	36:DB:83:G:H5'	1.85	0.76
38:DD:35:LYS:HD2	38:DD:35:LYS:C	2.11	0.76
44:DK:17:ALA:HB3	44:DK:38:VAL:HG22	1.68	0.76
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	1.86	0.76
56:DX:8:ILE:H	56:DX:8:ILE:HD12	1.50	0.76
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.68	0.76
4:AD:152:SER:O	4:AD:155:LEU:HG	1.85	0.76
24:AY:21:ILE:HG21	24:AY:88:VAL:HG13	1.67	0.76
31:B6:27:LYS:HB3	31:B6:32:ASN:ND2	2.01	0.76
35:BA:154(A):C:C5'	35:BA:155:U:H5''	2.14	0.76
35:BA:654(S):G:H3'	35:BA:654(T):C:C5'	2.16	0.76
35:BA:1223:G:H3'	35:BA:1224:C:C5'	2.15	0.76
35:BA:2807:G:H1	35:BA:2893:G:H1	1.33	0.76
49:BQ:59:ARG:HB3	58:BZ:180:VAL:HG21	1.67	0.76
50:BR:21:TYR:HB3	50:BR:47:PHE:CD2	2.20	0.76
1:CA:797:C:OP1	11:CK:124:LYS:HE3	1.86	0.76
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.00	0.76
5:CE:87:SER:HB3	5:CE:131:ILE:CD1	2.14	0.76
24:CY:592:GLU:HA	24:CY:595:GLN:HB2	1.68	0.76
35:DA:882:G:H2'	35:DA:883:G:C8	2.20	0.76
35:DA:2713:A:H3'	35:DA:2714:G:H5'	1.68	0.76
38:DD:35:LYS:CG	38:DD:63:ARG:HG3	2.15	0.76
1:AA:1239:A:H2'	1:AA:1298:C:H42	1.51	0.76
9:AI:104:ARG:HG2	9:AI:104:ARG:O	1.84	0.76
33:B8:48:PHE:O	33:B8:49:VAL:HG22	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.85	0.76
41:BG:86:MET:N	41:BG:87:PRO:HD3	2.00	0.76
52:BT:115:ARG:HB3	52:BT:115:ARG:NH1	2.00	0.76
1:CA:103:C:H3'	1:CA:104:G:H8	1.50	0.76
11:CK:111:ASP:OD2	18:CR:84:LYS:HE2	1.85	0.76
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.68	0.76
24:CY:548:GLU:O	24:CY:551:GLN:HG2	1.85	0.76
61:CY:702:FUA:H231	61:CY:702:FUA:C12	2.15	0.76
26:D1:46:LEU:HD22	26:D1:46:LEU:N	2.01	0.76
26:D1:86:SER:O	26:D1:90:ILE:HG12	1.85	0.76
30:D5:25:LEU:HD12	55:DW:19:LEU:HB3	1.67	0.76
35:DA:1375:C:H2'	35:DA:1376:C:H6	1.50	0.76
37:DC:101:ILE:O	37:DC:105:LEU:HB2	1.86	0.76
1:AA:309:G:H1'	1:AA:608:A:C2	2.21	0.76
24:AY:238:THR:HG22	24:AY:241:GLU:CG	2.16	0.76
27:B2:69:ARG:NH2	35:BA:111:A:H4'	2.00	0.76
35:BA:882:G:H2'	35:BA:883:G:C8	2.20	0.76
35:BA:2636:U:H4'	39:BE:80:GLU:OE1	1.86	0.76
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.20	0.76
38:BD:144:ALA:HB3	38:BD:192:THR:HG23	1.66	0.76
46:BN:57:ALA:H	46:BN:124:ALA:HA	1.50	0.76
53:BU:92:ARG:O	53:BU:94:ASN:N	2.18	0.76
54:BV:58:VAL:O	54:BV:97:LYS:HB2	1.85	0.76
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.01	0.76
1:CA:1239:A:H2'	1:CA:1298:C:H42	1.50	0.76
27:D2:10:LEU:O	27:D2:14:ARG:HG2	1.86	0.76
41:DG:67:LYS:HD3	41:DG:68:PRO:N	2.00	0.76
51:DS:96:GLY:O	51:DS:98:VAL:N	2.18	0.76
51:DS:98:VAL:C	51:DS:100:ALA:H	1.93	0.76
10:AJ:54:PHE:CG	10:AJ:55:LYS:HE3	2.20	0.76
10:AJ:71:LEU:HD12	10:AJ:72:VAL:H	1.51	0.76
27:B2:69:ARG:CG	27:B2:70:GLN:H	1.99	0.76
35:BA:676:A:H1'	35:BA:2443:C:H1'	1.68	0.76
41:BG:106:LEU:HA	41:BG:110:ALA:HB3	1.66	0.76
50:BR:87:TYR:O	50:BR:89:ASP:N	2.19	0.76
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.20	0.76
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.00	0.76
28:D3:8:LEU:HD22	28:D3:31:LEU:CD2	2.14	0.76
31:D6:11:LEU:HG	31:D6:26:ASN:HD21	1.51	0.76
33:D8:13:ARG:HD3	48:DP:61:ARG:O	1.86	0.76
35:DA:142:A:H8	35:DA:1595:G:H21	1.32	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:556:G:H2'	35:DA:557:U:C6	2.21	0.76
35:DA:674:G:H1'	40:DF:74:ARG:HD3	1.68	0.76
36:DB:112:U:H2'	36:DB:113:G:H8	1.49	0.76
52:DT:115:ARG:HB3	52:DT:115:ARG:NH1	2.01	0.76
11:AK:58:PRO:HA	11:AK:90:GLY:HA3	1.68	0.75
35:BA:286:C:H5'	35:BA:286:C:H6	1.51	0.75
35:BA:624:C:H41	48:BP:107:LYS:HZ3	1.34	0.75
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.16	0.75
55:BW:29:LEU:HD11	55:BW:51:LEU:HD11	1.67	0.75
1:CA:1206:G:H4'	3:CC:192:THR:O	1.86	0.75
15:CO:39:LEU:HD13	15:CO:56:LEU:HB2	1.68	0.75
24:CY:227:ILE:HG23	24:CY:237:PRO:HG2	1.67	0.75
35:DA:979:G:H3'	35:DA:980:A:H5'	1.68	0.75
35:DA:2262:U:H2'	35:DA:2263:C:C5'	2.16	0.75
39:DE:200:GLU:OE2	39:DE:200:GLU:N	2.17	0.75
48:DP:95:VAL:HA	48:DP:99:LEU:HD23	1.67	0.75
53:DU:54:LYS:O	53:DU:58:ARG:HG3	1.86	0.75
5:AE:87:SER:HB3	5:AE:131:ILE:CD1	2.16	0.75
10:AJ:96:ILE:H	10:AJ:96:ILE:HD13	1.50	0.75
24:AY:6:GLU:HG2	24:AY:6:GLU:O	1.86	0.75
35:BA:840:C:H2'	35:BA:841:A:H5''	1.69	0.75
35:BA:878:A:H2'	35:BA:879:G:O4'	1.87	0.75
38:BD:261:LYS:NZ	38:BD:263:ARG:HH12	1.85	0.75
41:BG:97:ASP:HB2	41:BG:98:ARG:NH1	2.00	0.75
41:BG:172:LEU:CD2	41:BG:176:LEU:HD11	2.16	0.75
42:BH:149:ARG:HD3	42:BH:164:TYR:CE1	2.21	0.75
46:BN:46:VAL:HG13	46:BN:48:MET:HE2	1.66	0.75
49:BQ:6:ARG:O	49:BQ:7:MET:HG3	1.84	0.75
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.01	0.75
24:CY:137:ASN:HD21	24:CY:263:ALA:HB3	1.50	0.75
24:CY:289:ILE:HG22	24:CY:290:LYS:N	2.01	0.75
27:D2:6:VAL:HA	27:D2:9:GLN:OE1	1.86	0.75
33:D8:56:GLU:HA	33:D8:59:LYS:HZ1	1.48	0.75
34:D9:27:CYS:SG	34:D9:28:GLU:N	2.60	0.75
41:DG:71:THR:HG22	41:DG:89:GLY:C	2.10	0.75
41:DG:107:LEU:HD11	41:DG:178:PHE:CE1	2.21	0.75
46:DN:23:LEU:HB3	46:DN:60:ILE:HG21	1.68	0.75
48:DP:40:SER:C	48:DP:41:ARG:HD2	2.10	0.75
51:DS:13:ARG:CG	51:DS:14:VAL:H	1.93	0.75
52:DT:28:VAL:CG2	52:DT:46:GLU:HA	2.15	0.75
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ1	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LYS:HE2	4:AD:62:GLN:HE21	1.52	0.75
24:AY:281:PRO:HB2	24:AY:286:ILE:CD1	2.15	0.75
24:AY:363:ARG:HH11	24:AY:363:ARG:HG3	1.51	0.75
26:B1:3:LYS:HG3	26:B1:4:VAL:H	1.51	0.75
35:BA:991:C:H5'	35:BA:991:C:H6	1.50	0.75
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.51	0.75
44:BK:17:ALA:HB3	44:BK:38:VAL:HG22	1.67	0.75
48:BP:95:VAL:HA	48:BP:99:LEU:HD23	1.68	0.75
52:BT:129:ARG:NH2	52:BT:130:ALA:HA	2.01	0.75
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.85	0.75
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.00	0.75
19:CS:14:HIS:HD2	19:CS:15:LEU:HD23	1.50	0.75
22:CW:41:C:O2'	22:CW:42:C:H5'	1.86	0.75
29:D4:13:ARG:HH11	29:D4:13:ARG:HB3	1.50	0.75
35:DA:840:C:H2'	35:DA:841:A:H5''	1.68	0.75
35:DA:2789:C:H1'	35:DA:2892:A:C2	2.21	0.75
40:DF:157:VAL:CG2	40:DF:194:MET:HG2	2.16	0.75
41:DG:39:ILE:HA	41:DG:156:ASP:O	1.86	0.75
54:DV:45:THR:O	54:DV:46:VAL:HG12	1.85	0.75
3:AC:86:VAL:O	3:AC:89:GLU:HB3	1.85	0.75
16:AP:25:ARG:HG3	16:AP:25:ARG:HH11	1.51	0.75
31:B6:5:VAL:HG12	31:B6:6:ARG:O	1.86	0.75
39:BE:50:GLY:HA2	39:BE:78:LEU:HB3	1.68	0.75
39:BE:200:GLU:N	39:BE:200:GLU:OE2	2.18	0.75
42:BH:175:LYS:O	42:BH:176:ALA:CB	2.33	0.75
46:BN:67:LEU:O	46:BN:68:GLU:HB2	1.86	0.75
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.51	0.75
24:CY:491:VAL:HG13	24:CY:596:LYS:HE2	1.67	0.75
35:DA:2020:A:C2'	35:DA:2021:C:H5''	2.17	0.75
35:DA:2461:C:H5'	35:DA:2462:U:OP2	1.85	0.75
42:DH:13:LYS:HE2	42:DH:13:LYS:HA	1.67	0.75
52:DT:89:VAL:HG12	52:DT:91:ARG:HG3	1.68	0.75
53:DU:47:TYR:HA	53:DU:50:ARG:HH21	1.51	0.75
53:DU:112:ARG:HH22	54:DV:46:VAL:HG11	1.49	0.75
56:DX:35:THR:O	56:DX:39:ILE:HG12	1.86	0.75
58:DZ:143:GLY:C	58:DZ:144:LEU:HD22	2.12	0.75
4:AD:200:GLU:CD	4:AD:200:GLU:H	1.94	0.75
10:AJ:63:PHE:HB3	14:AN:58:LYS:HA	1.66	0.75
14:AN:27:CYS:HG	59:AN:101:ZN:ZN	0.95	0.75
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.85	0.75
36:BB:87:G:H3'	36:BB:88:C:H5''	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:132:PRO:HG3	38:BD:190:TYR:CE1	2.22	0.75
42:BH:66:GLY:HA2	42:BH:69:ARG:HB3	1.68	0.75
56:BX:35:THR:O	56:BX:39:ILE:HG12	1.87	0.75
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.68	0.75
10:CJ:63:PHE:HB3	14:CN:58:LYS:HA	1.68	0.75
24:CY:16:GLY:O	24:CY:104:ALA:HB1	1.86	0.75
34:D9:18:ARG:HG2	34:D9:18:ARG:O	1.86	0.75
35:DA:676:A:H8	35:DA:2069:G:H21	1.32	0.75
35:DA:2178:C:H4'	37:DC:47:LYS:HD3	1.68	0.75
38:DD:44:ASN:HB2	38:DD:48:ARG:O	1.85	0.75
54:DV:77:ALA:O	54:DV:79:VAL:HG23	1.87	0.75
58:DZ:182:LYS:O	58:DZ:183:LEU:HD23	1.86	0.75
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.22	0.75
5:AE:81:GLU:HG2	5:AE:90:VAL:HG22	1.68	0.75
16:AP:74:LEU:HD23	16:AP:79:VAL:HG21	1.68	0.75
30:B5:4:HIS:CB	30:B5:5:PRO:HD3	2.16	0.75
35:BA:279:C:H2'	35:BA:280:C:H5''	1.68	0.75
35:BA:1946:U:H2'	35:BA:1947:C:C6	2.22	0.75
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.52	0.75
35:BA:2666:C:H5'	35:BA:2667:C:OP2	1.87	0.75
1:CA:559:A:H4'	1:CA:560:U:H5'	1.68	0.75
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.12	0.75
35:DA:286:C:H5'	35:DA:286:C:H6	1.52	0.75
22:AV:53:G:O2'	22:AV:54:5MU:H5''	1.86	0.75
24:AY:453:GLY:HA3	24:AY:459:LEU:CD1	2.16	0.75
35:BA:676:A:H8	35:BA:2069:G:H21	1.33	0.75
35:BA:1963:U:H2'	35:BA:1963:U:O2	1.86	0.75
35:BA:2308:G:O6	35:BA:2310:A:H2'	1.87	0.75
36:BB:48:A:H4'	51:BS:95:HIS:HD2	1.50	0.75
46:BN:65:LYS:HB3	46:BN:69:GLN:HG3	1.68	0.75
48:BP:126:VAL:HA	48:BP:145:PRO:CB	2.16	0.75
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	1.67	0.75
52:BT:118:ARG:HA	52:BT:121:ILE:HB	1.67	0.75
1:CA:625:G:H2'	1:CA:626:U:C6	2.21	0.75
2:CB:17:PHE:HB3	2:CB:44:LEU:HD21	1.68	0.75
24:CY:517:LEU:HD11	24:CY:564:LYS:HB2	1.68	0.75
26:D1:92:LYS:HE2	35:DA:153:C:OP1	1.87	0.75
7:AG:145:ALA:O	7:AG:146:GLU:HB2	1.85	0.75
18:AR:31:LEU:HD23	18:AR:31:LEU:H	1.51	0.75
19:AS:14:HIS:HD2	19:AS:15:LEU:HD23	1.52	0.75
19:AS:44:MET:SD	19:AS:44:MET:N	2.59	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:215:LYS:O	24:AY:219:VAL:HG23	1.86	0.75
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.68	0.75
41:BG:145:THR:HG23	41:BG:148:MET:HB2	1.66	0.75
42:BH:18:GLU:HB2	42:BH:25:LYS:HB2	1.67	0.75
58:BZ:166:SER:HB2	58:BZ:167:PRO:CA	2.17	0.75
1:CA:178:C:O2'	1:CA:179:A:H5'	1.85	0.75
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.00	0.75
24:CY:170:ARG:HD2	24:CY:170:ARG:N	2.00	0.75
35:DA:395:U:H2'	35:DA:396:G:C8	2.20	0.75
35:DA:2666:C:H5'	35:DA:2667:C:OP2	1.86	0.75
38:DD:132:PRO:HG3	38:DD:190:TYR:CE1	2.21	0.75
40:DF:28:ILE:HD13	40:DF:28:ILE:H	1.49	0.75
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.68	0.75
44:DK:17:ALA:CB	44:DK:38:VAL:HG22	2.17	0.75
50:DR:87:TYR:O	50:DR:89:ASP:N	2.19	0.75
1:AA:1206:G:H4'	3:AC:192:THR:O	1.87	0.75
12:AL:45:PRO:HG3	12:AL:53:ARG:HD3	1.69	0.75
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.12	0.75
24:AY:313:ALA:HA	24:AY:328:ILE:HG22	1.67	0.75
27:B2:25:VAL:C	27:B2:27:GLU:H	1.93	0.75
36:BB:86:G:H2'	36:BB:87:G:C8	2.21	0.75
37:BC:28:ARG:HG2	37:BC:183:PRO:HB3	1.68	0.75
6:CF:45:LEU:O	6:CF:46:ARG:HG3	1.87	0.75
14:CN:41:ARG:HG2	14:CN:41:ARG:HH11	1.52	0.75
24:CY:149:VAL:O	24:CY:152:THR:HG22	1.87	0.75
26:D1:7:ILE:HG22	26:D1:66:HIS:HD2	1.49	0.75
35:DA:2852:G:H2'	35:DA:2853:C:C6	2.22	0.75
36:DB:86:G:H2'	36:DB:87:G:C8	2.22	0.75
46:DN:67:LEU:O	46:DN:68:GLU:HB2	1.85	0.75
48:DP:126:VAL:HA	48:DP:145:PRO:CB	2.16	0.75
1:AA:382:A:H2'	1:AA:383:A:C8	2.22	0.74
4:AD:160:GLN:O	4:AD:163:GLU:HB3	1.87	0.74
12:AL:80:HIS:O	12:AL:81:SER:HB2	1.86	0.74
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.69	0.74
32:B7:19:ARG:HD3	35:BA:125:G:H5'	1.69	0.74
32:B7:23:ARG:C	32:B7:28:ARG:HH12	1.94	0.74
34:B9:27:CYS:SG	34:B9:28:GLU:N	2.60	0.74
35:BA:654(G):C:H2'	35:BA:654(H):G:H8	1.51	0.74
38:BD:35:LYS:CG	38:BD:63:ARG:HG3	2.17	0.74
41:BG:98:ARG:HG2	41:BG:98:ARG:NH1	2.01	0.74
48:BP:16:ARG:NH1	48:BP:16:ARG:HB2	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:11:ASN:OD1	50:BR:12:ARG:N	2.20	0.74
57:BY:62:GLU:HG2	57:BY:63:LYS:H	1.52	0.74
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.16	0.74
12:CL:27:LEU:O	12:CL:29:GLY:N	2.20	0.74
22:CV:2:G:C5'	25:D0:8:GLY:HA2	2.17	0.74
24:CY:21:ILE:O	24:CY:22:ASP:HB2	1.84	0.74
24:CY:486:THR:O	24:CY:600:VAL:HG12	1.87	0.74
61:CY:702:FUA:H202	61:CY:702:FUA:C5	2.14	0.74
31:D6:35:GLU:CB	31:D6:51:GLU:HB2	2.17	0.74
35:DA:108:U:H2'	35:DA:109:G:H8	1.50	0.74
35:DA:548:A:H2'	35:DA:549:G:H5'	1.67	0.74
35:DA:2195:C:O2'	35:DA:2196:C:H5'	1.87	0.74
37:DC:23:ILE:HB	37:DC:229:SER:OXT	1.87	0.74
48:DP:7:ARG:O	48:DP:10:PRO:HD2	1.86	0.74
52:DT:107:ASP:CG	52:DT:108:ARG:H	1.95	0.74
1:AA:1296:C:H5'	1:AA:1297:C:OP2	1.87	0.74
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.21	0.74
2:AB:153:ARG:C	2:AB:155:LEU:H	1.94	0.74
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.16	0.74
24:AY:428:LEU:CD1	24:AY:440:VAL:HG11	2.17	0.74
35:BA:751:A:H5'	55:BW:90:ARG:HA	1.69	0.74
35:BA:2392:A:H8	48:BP:60:MET:HB3	1.50	0.74
37:BC:23:ILE:HB	37:BC:229:SER:OXT	1.86	0.74
39:BE:49:LEU:N	39:BE:49:LEU:HD22	2.01	0.74
41:BG:60:LEU:O	41:BG:63:ILE:HD11	1.86	0.74
47:BO:17:ARG:NE	47:BO:47:ILE:HD11	2.02	0.74
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.22	0.74
10:CJ:47:PHE:CZ	14:CN:37:PHE:HE2	2.05	0.74
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	1.68	0.74
24:CY:33:LEU:HD23	24:CY:360:ALA:CB	2.16	0.74
24:CY:546:ILE:CD1	24:CY:565:VAL:HG11	2.17	0.74
35:DA:49:A:H5''	35:DA:51:G:O4'	1.88	0.74
35:DA:297:C:H2'	35:DA:298:G:O4'	1.87	0.74
35:DA:2122:U:H2'	35:DA:2123:G:H8	1.51	0.74
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.17	0.74
50:DR:62:ALA:O	50:DR:66:VAL:HG23	1.87	0.74
53:DU:110:VAL:HG12	53:DU:114:LYS:CD	2.17	0.74
12:AL:41:ARG:CG	12:AL:42:THR:H	1.98	0.74
61:AY:702:FUA:H202	61:AY:702:FUA:C5	2.15	0.74
33:B8:2:PRO:HA	35:BA:591:C:O2	1.86	0.74
40:BF:195:ASP:OD1	40:BF:196:LEU:N	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:34:HIS:CE1	51:BS:54:LEU:HB3	2.22	0.74
53:BU:54:LYS:O	53:BU:58:ARG:HG3	1.86	0.74
53:BU:112:ARG:HH22	54:BV:46:VAL:HG11	1.52	0.74
56:BX:27:THR:HB	56:BX:80:ILE:HG22	1.68	0.74
3:CC:86:VAL:O	3:CC:89:GLU:HB3	1.88	0.74
24:CY:25:LYS:HE2	24:CY:86:GLY:H	1.52	0.74
27:D2:47:ASN:ND2	35:DA:94(A):G:H21	1.85	0.74
30:D5:55:ARG:HH22	50:DR:33:ARG:HG2	1.53	0.74
35:DA:1748:G:H5'	35:DA:1748:G:H8	1.51	0.74
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.15	0.74
24:AY:423:LYS:HB3	24:AY:472:VAL:CG2	2.17	0.74
24:AY:446:THR:O	24:AY:448:GLN:HG2	1.87	0.74
24:AY:613:PRO:C	24:AY:615:GLU:H	1.94	0.74
35:BA:83:G:O2'	35:BA:84:A:H8	1.69	0.74
35:BA:548:A:H2'	35:BA:549:G:H5'	1.67	0.74
35:BA:1220:A:H3'	35:BA:1221:C:H5'	1.69	0.74
41:BG:108:ASN:O	41:BG:109:VAL:HG23	1.87	0.74
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.70	0.74
7:CG:145:ALA:O	7:CG:146:GLU:HB2	1.87	0.74
8:CH:41:ARG:HH22	8:CH:123:GLU:CD	1.95	0.74
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.51	0.74
24:CY:529:ILE:HD11	24:CY:567:LEU:HD11	1.68	0.74
35:DA:83:G:O2'	35:DA:84:A:H8	1.68	0.74
35:DA:676:A:H1'	35:DA:2443:C:H1'	1.68	0.74
35:DA:878:A:H2'	35:DA:879:G:O4'	1.87	0.74
35:DA:2150:U:H2'	35:DA:2151:G:C8	2.23	0.74
42:DH:96:ALA:HB1	42:DH:103:LEU:HD11	1.68	0.74
48:DP:47:ASP:HB3	48:DP:48:PRO:HA	1.69	0.74
50:DR:9:LYS:O	50:DR:10:LEU:HD23	1.85	0.74
54:DV:18:LEU:CD2	54:DV:19:LYS:H	2.00	0.74
58:DZ:29:TYR:HB3	58:DZ:34:ASN:CB	2.16	0.74
1:AA:294:U:H2'	1:AA:295:C:H6	1.52	0.74
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.69	0.74
9:AI:47:LEU:HD12	9:AI:47:LEU:N	2.03	0.74
10:AJ:82:ILE:O	10:AJ:86:MET:HB2	1.87	0.74
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.01	0.74
24:AY:25:LYS:HE3	62:AY:703:GDP:PB	2.27	0.74
24:AY:165:GLN:HB2	24:AY:260:LEU:HD11	1.69	0.74
24:AY:177:ILE:C	24:AY:178:ILE:HD12	2.11	0.74
35:BA:2020:A:O2'	35:BA:2021:C:H5''	1.87	0.74
36:BB:7:G:C2'	36:BB:8:U:H5''	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.53	0.74
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.02	0.74
31:D6:6:ARG:N	31:D6:6:ARG:HD2	2.02	0.74
35:DA:1001:A:H2'	35:DA:1002:G:O4'	1.87	0.74
35:DA:2593:U:H2'	35:DA:2594:C:H6	1.51	0.74
42:DH:17:VAL:O	42:DH:45:VAL:HG22	1.87	0.74
1:AA:179:A:H2'	1:AA:180:U:C6	2.22	0.74
1:AA:275:G:H5''	17:AQ:14:LYS:HB2	1.68	0.74
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.17	0.74
4:AD:98:GLU:HG2	4:AD:189:PRO:HG3	1.69	0.74
8:AH:17:THR:HB	8:AH:78:GLN:OE1	1.87	0.74
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.86	0.74
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.53	0.74
19:AS:9:VAL:O	19:AS:11:VAL:N	2.21	0.74
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.69	0.74
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.12	0.74
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.70	0.74
5:CE:9:LYS:CB	5:CE:112:LEU:HD11	2.18	0.74
33:D8:32:LEU:HB3	33:D8:36:LYS:HZ2	1.53	0.74
35:DA:1220:A:H3'	35:DA:1221:C:H5'	1.68	0.74
36:DB:87:G:H3'	36:DB:88:C:H5''	1.69	0.74
58:DZ:97:GLU:HG3	58:DZ:127:LYS:HD3	1.70	0.74
23:AX:19:U:H5''	24:AY:504:ARG:HD3	1.68	0.74
34:B9:18:ARG:HG2	34:B9:18:ARG:O	1.87	0.74
35:BA:2461:C:H5'	35:BA:2462:U:OP2	1.87	0.74
46:BN:1:MET:HE1	46:BN:3:THR:OG1	1.88	0.74
46:BN:2:LYS:HZ3	54:BV:12:TYR:HA	1.52	0.74
51:BS:95:HIS:CG	51:BS:96:GLY:H	2.06	0.74
52:BT:38:ASN:C	52:BT:38:ASN:ND2	2.40	0.74
3:CC:58:GLU:O	3:CC:59:ARG:HG3	1.87	0.74
4:CD:61:LYS:HE2	4:CD:62:GLN:HE21	1.52	0.74
5:CE:76:ILE:HG13	5:CE:142:LEU:HD13	1.70	0.74
28:D3:56:VAL:HG12	28:D3:57:GLU:H	1.52	0.74
32:D7:24:THR:HG23	32:D7:27:GLY:H	1.53	0.74
35:DA:580:C:H2'	35:DA:581:C:H6	1.53	0.74
35:DA:2132:U:C4	37:DC:6:LYS:HD2	2.23	0.74
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.53	0.74
39:DE:11:MET:HB2	39:DE:23:VAL:O	1.88	0.74
40:DF:7:TYR:HB3	40:DF:16:GLY:C	2.12	0.74
3:AC:58:GLU:O	3:AC:59:ARG:HG3	1.86	0.74
35:BA:1996:C:H4'	35:BA:1997:G:H5'	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:171:LEU:CD2	42:BH:172:LYS:O	2.35	0.74
48:BP:97:PRO:O	48:BP:98:GLU:HB3	1.88	0.74
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.53	0.74
24:CY:454:MET:H	24:CY:458:HIS:CD2	2.04	0.74
35:DA:279:C:H2'	35:DA:280:C:H5''	1.70	0.74
44:DK:57:ILE:HD12	44:DK:57:ILE:H	1.52	0.74
47:DO:20:MET:HE3	47:DO:44:LYS:HE3	1.68	0.74
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.52	0.74
1:AA:1004:A:N6	1:AA:1034:G:H2'	2.02	0.74
8:AH:41:ARG:HH22	8:AH:123:GLU:CD	1.94	0.74
27:B2:69:ARG:HG3	27:B2:70:GLN:N	2.03	0.74
30:B5:58:LEU:HD22	30:B5:58:LEU:O	1.88	0.74
31:B6:27:LYS:O	31:B6:27:LYS:HD2	1.87	0.74
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.13	0.74
53:BU:110:VAL:HG12	53:BU:114:LYS:CD	2.18	0.74
1:CA:382:A:H2'	1:CA:383:A:C8	2.23	0.74
4:CD:200:GLU:CD	4:CD:200:GLU:H	1.93	0.74
10:CJ:48:THR:HG23	10:CJ:62:HIS:ND1	2.03	0.74
26:D1:76:ARG:NH2	26:D1:95:LEU:HD13	2.00	0.74
35:DA:745:G:H5'	35:DA:746:A:OP2	1.88	0.74
35:DA:2147:G:H2'	35:DA:2148:G:O4'	1.88	0.74
46:DN:26:LEU:C	46:DN:26:LEU:HD12	2.12	0.74
56:DX:8:ILE:HD12	56:DX:8:ILE:N	2.03	0.74
1:AA:953:G:H5'	1:AA:965:A:H61	1.53	0.74
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.52	0.74
24:AY:343:ASN:C	24:AY:343:ASN:HD22	1.96	0.74
24:AY:512:ILE:HD12	24:AY:589:ALA:HB1	1.69	0.74
31:B6:41:PRO:HD2	31:B6:45:LYS:O	1.88	0.74
35:BA:914:C:H2'	35:BA:915:C:H5'	1.69	0.74
35:BA:2577:A:H5'	35:BA:2578:G:H5'	1.69	0.74
39:BE:36:ARG:HH21	39:BE:88:GLY:CA	2.00	0.74
44:BK:42:ASN:O	44:BK:46:ALA:HB2	1.87	0.74
51:BS:70:GLY:C	51:BS:101:LEU:HD23	2.13	0.74
52:BT:28:VAL:CG2	52:BT:46:GLU:HA	2.17	0.74
54:BV:15:GLU:CB	54:BV:16:PRO:HD2	2.18	0.74
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.50	0.74
1:CA:1239:A:H2'	1:CA:1298:C:N4	2.01	0.74
1:CA:1342:C:O2'	1:CA:1343:G:H5'	1.88	0.74
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.03	0.74
16:CP:21:VAL:O	16:CP:33:ILE:HB	1.88	0.74
24:CY:673:PHE:CG	24:CY:674:ASP:N	2.55	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:60:PHE:HE2	35:DA:2365:G:H4'	1.50	0.74
27:D2:4:SER:HA	27:D2:7:ARG:NH1	2.02	0.74
35:DA:1053:C:H2'	35:DA:1054:A:H5''	1.69	0.74
35:DA:2392:A:H8	48:DP:60:MET:HB3	1.52	0.74
40:DF:65:TRP:HZ3	40:DF:75:HIS:HD2	1.35	0.74
41:DG:46:ALA:CB	41:DG:88:ILE:HB	2.16	0.74
44:DK:42:ASN:O	44:DK:46:ALA:HB2	1.88	0.74
35:BA:419:C:H2'	35:BA:420:C:H6	1.53	0.73
35:BA:580:C:H2'	35:BA:581:C:H6	1.53	0.73
35:BA:1434:A:H61	35:BA:1558:A:H62	1.31	0.73
48:BP:62:LEU:H	48:BP:62:LEU:CD2	2.01	0.73
2:CB:153:ARG:C	2:CB:155:LEU:H	1.95	0.73
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.01	0.73
34:D9:36:GLN:OE1	35:DA:1124:C:H1'	1.87	0.73
35:DA:84:A:H5''	57:DY:9:LYS:NZ	2.02	0.73
35:DA:2470:G:P	49:DQ:56:ARG:HH12	2.11	0.73
38:DD:34:VAL:HG23	38:DD:35:LYS:N	2.03	0.73
41:DG:42:GLY:HA2	41:DG:89:GLY:HA2	1.69	0.73
48:DP:97:PRO:O	48:DP:98:GLU:HB3	1.88	0.73
58:DZ:102:LEU:HD21	58:DZ:124:ILE:CD1	2.18	0.73
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.86	0.73
29:B4:8:LYS:O	29:B4:9:LEU:HB2	1.87	0.73
31:B6:6:ARG:N	31:B6:6:ARG:HD2	2.03	0.73
35:BA:84:A:H5''	57:BY:9:LYS:HZ2	1.53	0.73
35:BA:654(S):G:H3'	35:BA:654(T):C:H5''	1.69	0.73
35:BA:2796:U:H3'	35:BA:2799:C:C5'	2.18	0.73
39:BE:47:VAL:HG12	39:BE:48:GLN:N	2.02	0.73
54:BV:46:VAL:HG22	54:BV:47:VAL:H	1.51	0.73
1:CA:1117:G:O2'	9:CI:104:ARG:HD3	1.88	0.73
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.15	0.73
38:DD:243:GLY:O	38:DD:244:ARG:HB3	1.88	0.73
44:DK:93:ARG:HB2	58:DZ:112:ARG:NE	2.01	0.73
58:DZ:12:GLY:HA2	58:DZ:36:LYS:NZ	2.03	0.73
3:AC:175:LEU:HD21	3:AC:201:TYR:HE2	1.51	0.73
24:AY:406:GLU:HB3	24:AY:407:PRO:HD2	1.71	0.73
30:B5:27:PRO:HG3	55:BW:23:LEU:HD11	1.70	0.73
35:BA:218:A:H2	35:BA:235:U:H4'	1.50	0.73
35:BA:1390:U:O2'	35:BA:1391:U:H5'	1.88	0.73
35:BA:1948:G:C8	35:BA:1948:G:H5'	2.24	0.73
41:BG:77:ILE:CG2	41:BG:80:PHE:H	1.90	0.73
50:BR:62:ALA:O	50:BR:66:VAL:HG23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.23	0.73
3:CC:46:GLU:O	3:CC:47:LEU:HB2	1.85	0.73
27:D2:36:ARG:HA	27:D2:39:ALA:HB3	1.69	0.73
31:D6:41:PRO:HD2	31:D6:45:LYS:O	1.87	0.73
35:DA:1996:C:H4'	35:DA:1997:G:H5'	1.70	0.73
48:DP:47:ASP:HB3	48:DP:48:PRO:CA	2.18	0.73
49:DQ:21:THR:O	49:DQ:22:LYS:HB3	1.88	0.73
5:AE:9:LYS:CB	5:AE:112:LEU:HD11	2.19	0.73
11:AK:122:LYS:O	11:AK:124:LYS:N	2.22	0.73
18:AR:29:PHE:CD2	18:AR:29:PHE:N	2.56	0.73
22:AW:8:U:H3	22:AW:14:A:H62	1.33	0.73
24:AY:128:TYR:O	24:AY:129:LYS:HB2	1.88	0.73
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.22	0.73
36:BB:3:C:N4	36:BB:118:G:H1	1.86	0.73
36:BB:13:A:O2'	36:BB:14:U:H3'	1.87	0.73
52:BT:5:ALA:O	52:BT:7:ILE:N	2.21	0.73
55:BW:78:GLU:OE2	55:BW:99:ARG:HD2	1.89	0.73
56:BX:8:ILE:HD12	56:BX:8:ILE:N	2.02	0.73
1:CA:792:A:O2'	1:CA:794:A:N7	2.20	0.73
2:CB:83:MET:HG3	2:CB:234:PRO:HG3	1.69	0.73
24:CY:102:ASP:O	24:CY:131:PRO:HD2	1.88	0.73
24:CY:428:LEU:HD23	24:CY:428:LEU:H	1.54	0.73
27:D2:40:SER:C	27:D2:42:GLY:H	1.95	0.73
35:DA:288:C:H2'	35:DA:289:A:C8	2.24	0.73
35:DA:662:G:OP1	48:DP:18:ARG:HD2	1.88	0.73
38:DD:65:ILE:HG22	38:DD:104:TYR:CB	2.19	0.73
41:DG:131:TYR:HE2	41:DG:133:LEU:HD23	1.52	0.73
1:AA:447:G:H2'	1:AA:485:G:N2	2.03	0.73
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.69	0.73
13:AM:78:ILE:HA	13:AM:81:LEU:HD23	1.71	0.73
19:AS:22:LEU:O	19:AS:26:GLY:HA2	1.88	0.73
24:AY:90:PHE:HB2	24:AY:454:MET:HE3	1.69	0.73
25:B0:77:ARG:HH22	35:BA:857:C:H5'	1.53	0.73
30:B5:25:LEU:HD12	55:BW:19:LEU:HB3	1.70	0.73
31:B6:15:GLU:OE2	31:B6:44:ARG:NH1	2.21	0.73
35:BA:64:A:C4	56:BX:66:LEU:HD13	2.24	0.73
35:BA:120:U:O2	35:BA:120:U:H2'	1.87	0.73
35:BA:1689:A:H62	35:BA:1698:A:H2	1.33	0.73
35:BA:2470:G:P	49:BQ:56:ARG:HH12	2.11	0.73
38:BD:176:ARG:HH11	38:BD:176:ARG:HG2	1.53	0.73
41:BG:131:TYR:HB3	41:BG:159:VAL:HG13	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:93:ARG:HG3	58:BZ:112:ARG:HE	1.53	0.73
48:BP:47:ASP:HB3	48:BP:48:PRO:HA	1.70	0.73
48:BP:58:THR:O	48:BP:61:ARG:NE	2.19	0.73
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	1.89	0.73
1:CA:731:G:OP1	1:CA:766:A:H1'	1.88	0.73
5:CE:98:THR:HB	5:CE:117:ASP:HB3	1.69	0.73
24:CY:606:MET:O	24:CY:646:PHE:HA	1.89	0.73
35:DA:545:C:C3'	35:DA:547:A:H5''	2.19	0.73
35:DA:1540:U:H3'	35:DA:1541:G:H3'	1.70	0.73
38:DD:172:TYR:HD1	38:DD:186:HIS:HA	1.52	0.73
40:DF:139:PHE:HB2	40:DF:166:ALA:HB1	1.68	0.73
50:DR:11:ASN:OD1	50:DR:12:ARG:N	2.20	0.73
10:AJ:50:ILE:HD11	14:AN:41:ARG:NH1	2.04	0.73
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.69	0.73
22:AW:25:U:H2'	22:AW:26:C:C6	2.23	0.73
32:B7:8:ASN:HD22	32:B7:9:ARG:N	1.86	0.73
40:BF:65:TRP:HZ3	40:BF:75:HIS:HD2	1.34	0.73
44:BK:57:ILE:HA	44:BK:66:THR:O	1.89	0.73
58:BZ:119:GLU:O	58:BZ:121:HIS:N	2.20	0.73
10:CJ:54:PHE:CG	10:CJ:55:LYS:HE3	2.23	0.73
10:CJ:61:GLU:HG3	14:CN:58:LYS:NZ	2.03	0.73
14:CN:23:ARG:HD2	14:CN:28:GLY:O	1.87	0.73
31:D6:5:VAL:HG12	31:D6:6:ARG:O	1.88	0.73
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.23	0.73
42:DH:18:GLU:HB2	42:DH:25:LYS:HB2	1.69	0.73
47:DO:105:GLU:O	47:DO:109:LYS:HG2	1.87	0.73
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD2	1.53	0.73
49:DQ:108:GLY:HA3	58:DZ:116:VAL:HG11	1.69	0.73
52:DT:16:ARG:HD2	52:DT:18:ASP:OD1	1.88	0.73
57:DY:8:LYS:HD2	57:DY:8:LYS:N	2.03	0.73
24:AY:121:VAL:HG23	24:AY:122:TRP:H	1.54	0.73
25:B0:60:PHE:HE2	35:BA:2365:G:H4'	1.52	0.73
28:B3:56:VAL:HG12	28:B3:57:GLU:H	1.51	0.73
35:BA:1171:G:H2'	35:BA:1173:G:H4'	1.70	0.73
36:BB:60:C:H2'	36:BB:61:G:H8	1.52	0.73
40:BF:139:PHE:HB2	40:BF:166:ALA:HB1	1.69	0.73
42:BH:96:ALA:HB1	42:BH:103:LEU:HD11	1.70	0.73
44:BK:57:ILE:H	44:BK:57:ILE:HD12	1.53	0.73
47:BO:105:GLU:O	47:BO:109:LYS:HG2	1.88	0.73
52:BT:16:ARG:HD2	52:BT:18:ASP:OD1	1.88	0.73
58:BZ:115:GLY:H	58:BZ:177:PRO:CG	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:64:GLU:HG2	14:CN:59:ALA:HB2	1.71	0.73
25:D0:25:ARG:HD2	25:D0:29:GLN:NE2	2.04	0.73
26:D1:76:ARG:HH22	26:D1:95:LEU:CD1	2.00	0.73
27:D2:38:GLN:HA	27:D2:41:ILE:HG23	1.69	0.73
31:D6:11:LEU:HD23	31:D6:51:GLU:HG3	1.70	0.73
31:D6:27:LYS:HB3	31:D6:32:ASN:ND2	2.03	0.73
35:DA:533:G:H5''	53:DU:24:TYR:CE2	2.23	0.73
35:DA:991:C:H5'	35:DA:991:C:H6	1.53	0.73
35:DA:2796:U:H3'	35:DA:2799:C:C5'	2.18	0.73
57:DY:96:ILE:HD12	57:DY:99:CYS:SG	2.29	0.73
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.70	0.73
2:AB:204:ASN:HD22	2:AB:204:ASN:C	1.94	0.73
10:AJ:3:LYS:HZ2	10:AJ:76:ASN:HA	1.54	0.73
12:AL:57:LYS:HG2	12:AL:67:THR:HG22	1.71	0.73
18:AR:74:ARG:HB3	18:AR:81:PHE:CE2	2.23	0.73
24:AY:157:LEU:H	24:AY:157:LEU:CD2	1.93	0.73
24:AY:514:VAL:HG21	24:AY:593:ALA:CB	2.18	0.73
24:AY:530:VAL:HG13	24:AY:531:GLY:H	1.53	0.73
35:BA:545:C:C3'	35:BA:547:A:H5''	2.19	0.73
35:BA:2122:U:H2'	35:BA:2123:G:C8	2.23	0.73
55:BW:68:ARG:O	55:BW:109:GLU:HA	1.89	0.73
1:CA:1170:A:H2'	1:CA:1171:G:O4'	1.89	0.73
3:CC:3:ASN:O	3:CC:4:LYS:HB2	1.89	0.73
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.70	0.73
18:CR:74:ARG:HB3	18:CR:81:PHE:CE2	2.24	0.73
25:D0:14:ARG:HB2	25:D0:14:ARG:HH11	1.54	0.73
33:D8:56:GLU:O	33:D8:59:LYS:HE3	1.88	0.73
35:DA:2461:C:O2	35:DA:2461:C:H2'	1.88	0.73
36:DB:13:A:O2'	36:DB:14:U:H3'	1.88	0.73
43:DJ:27:UNK:HA	43:DJ:112:UNK:O	1.87	0.73
44:DK:57:ILE:HA	44:DK:66:THR:O	1.88	0.73
58:DZ:128:VAL:HG21	58:DZ:132:ASN:HB2	1.69	0.73
1:AA:630:G:H2'	1:AA:631:G:C5'	2.19	0.73
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.19	0.73
1:AA:1239:A:H2'	1:AA:1298:C:N4	2.03	0.73
6:AF:16:GLN:CD	6:AF:16:GLN:N	2.47	0.73
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.17	0.73
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.19	0.73
27:B2:50:ILE:C	27:B2:52:ASP:H	1.96	0.73
33:B8:4:MET:O	33:B8:62:LEU:HD12	1.89	0.73
34:B9:32:HIS:O	34:B9:34:GLN:HG3	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:272(H):C:H2'	35:BA:272(I):U:H5''	1.70	0.73
35:BA:2132:U:C4	37:BC:6:LYS:HD2	2.24	0.73
35:BA:2178:C:H4'	37:BC:47:LYS:HD3	1.70	0.73
39:BE:81:ILE:HG22	39:BE:81:ILE:O	1.88	0.73
54:BV:77:ALA:O	54:BV:79:VAL:HG23	1.89	0.73
58:BZ:23:LYS:HD3	58:BZ:38:TYR:CE1	2.23	0.73
1:CA:598:U:H2'	1:CA:599:C:C6	2.24	0.73
35:DA:272(H):C:H2'	35:DA:272(I):U:H5''	1.71	0.73
35:DA:654(G):C:H2'	35:DA:654(H):G:H8	1.51	0.73
35:DA:2807:G:H1	35:DA:2893:G:H1	1.34	0.73
5:AE:76:ILE:HG13	5:AE:142:LEU:HD13	1.70	0.73
22:AW:52:C:H2'	22:AW:53:G:O4'	1.89	0.73
24:AY:225:GLU:O	24:AY:228:MET:HE2	1.88	0.73
24:AY:227:ILE:HD11	24:AY:241:GLU:O	1.88	0.73
24:AY:628:ARG:HH12	24:AY:680:PRO:HG2	1.53	0.73
35:BA:364:C:H2'	35:BA:365:C:H5''	1.68	0.73
35:BA:631:A:OP1	48:BP:64:LYS:HE2	1.88	0.73
35:BA:1080:C:H4'	44:BK:125:ARG:HB3	1.70	0.73
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.51	0.73
38:BD:34:VAL:HG23	38:BD:35:LYS:N	2.04	0.73
49:BQ:62:GLY:HA2	58:BZ:116:VAL:HG21	1.70	0.73
52:BT:107:ASP:CG	52:BT:108:ARG:H	1.96	0.73
54:BV:28:GLU:HB2	54:BV:31:ALA:CB	2.19	0.73
58:BZ:142:SER:H	58:BZ:144:LEU:HD23	1.54	0.73
1:CA:953:G:H5'	1:CA:965:A:H61	1.53	0.73
1:CA:1004:A:N6	1:CA:1034:G:H2'	2.03	0.73
12:CL:80:HIS:O	12:CL:81:SER:HB2	1.87	0.73
19:CS:22:LEU:O	19:CS:26:GLY:HA2	1.89	0.73
24:CY:678:GLU:HG2	24:CY:679:VAL:N	2.03	0.73
25:D0:27:GLU:HA	25:D0:67:VAL:O	1.88	0.73
35:DA:848:G:N3	35:DA:933:A:H1'	2.04	0.73
35:DA:1378:A:H4'	35:DA:1379:A:OP1	1.87	0.73
35:DA:1850:G:H5'	35:DA:1851:U:OP2	1.89	0.73
35:DA:2579:C:C4'	39:DE:134:ILE:HG12	2.17	0.73
1:AA:598:U:H2'	1:AA:599:C:C6	2.24	0.72
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.23	0.72
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	1.71	0.72
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.70	0.72
24:AY:25:LYS:HE3	62:AY:703:GDP:O2B	1.89	0.72
24:AY:227:ILE:HG23	24:AY:237:PRO:CG	2.19	0.72
32:B7:24:THR:HG23	32:B7:27:GLY:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:662:G:OP1	48:BP:18:ARG:HD2	1.89	0.72
42:BH:41:MET:HG3	42:BH:43:VAL:HG13	1.71	0.72
50:BR:9:LYS:O	50:BR:10:LEU:HD23	1.88	0.72
1:CA:630:G:H2'	1:CA:631:G:C5'	2.18	0.72
9:CI:47:LEU:HD12	9:CI:47:LEU:N	2.04	0.72
33:D8:48:PHE:O	33:D8:49:VAL:HG22	1.88	0.72
36:DB:60:C:H2'	36:DB:61:G:H8	1.53	0.72
38:DD:155:LEU:HD23	38:DD:177:LEU:HD22	1.70	0.72
52:DT:5:ALA:O	52:DT:7:ILE:N	2.22	0.72
55:DW:10:VAL:HG23	55:DW:101:SER:O	1.89	0.72
1:AA:103:C:H3'	1:AA:104:G:H8	1.54	0.72
1:AA:178:C:O2'	1:AA:179:A:H5'	1.88	0.72
1:AA:986:A:H1'	19:AS:54:GLY:O	1.89	0.72
24:AY:512:ILE:H	24:AY:512:ILE:HD13	1.53	0.72
27:B2:2:LYS:HB2	35:BA:97:C:H5''	1.69	0.72
35:BA:1540:U:H3'	35:BA:1541:G:H3'	1.70	0.72
35:BA:1850:G:H5'	35:BA:1851:U:OP2	1.88	0.72
1:CA:353:A:H8	1:CA:353:A:H5'	1.54	0.72
1:CA:552:U:H4'	12:CL:86:ARG:HG2	1.69	0.72
1:CA:1404:C:H1'	1:CA:1499:A:C2	2.24	0.72
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.71	0.72
25:D0:77:ARG:HH22	35:DA:857:C:H5'	1.53	0.72
35:DA:139:G:H1	35:DA:142(A):C:H42	1.34	0.72
35:DA:654(S):G:H3'	35:DA:654(T):C:C5'	2.18	0.72
35:DA:1682:G:H2'	35:DA:1683:C:C6	2.23	0.72
36:DB:3:C:N4	36:DB:118:G:H1	1.86	0.72
51:DS:70:GLY:C	51:DS:101:LEU:HD23	2.14	0.72
53:DU:95:LEU:HD13	54:DV:4:ILE:HG23	1.71	0.72
1:AA:269:C:H2'	1:AA:270:A:C8	2.25	0.72
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.53	0.72
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.24	0.72
7:AG:80:VAL:HG23	7:AG:81:GLY:H	1.54	0.72
16:AP:74:LEU:CD2	16:AP:79:VAL:HG21	2.19	0.72
25:B0:27:GLU:CD	25:B0:27:GLU:N	2.41	0.72
28:B3:8:LEU:HD22	28:B3:31:LEU:CD2	2.18	0.72
34:B9:36:GLN:OE1	35:BA:1124:C:H1'	1.90	0.72
35:BA:139:G:H1	35:BA:142(A):C:H42	1.37	0.72
35:BA:654(V):A:H3'	35:BA:655:A:H2'	1.69	0.72
35:BA:1001:A:H2'	35:BA:1002:G:O4'	1.90	0.72
35:BA:1203:G:H3'	35:BA:1204:A:H5''	1.71	0.72
35:BA:2258:C:O2'	35:BA:2426:A:H4'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.71	0.72
42:BH:41:MET:O	42:BH:42:ARG:HB3	1.89	0.72
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.71	0.72
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.69	0.72
35:DA:1171:G:H2'	35:DA:1173:G:H4'	1.70	0.72
39:DE:36:ARG:HH21	39:DE:88:GLY:CA	2.01	0.72
42:DH:41:MET:O	42:DH:42:ARG:HB3	1.89	0.72
53:DU:25:TRP:O	53:DU:28:ARG:HB2	1.89	0.72
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.04	0.72
33:B8:13:ARG:HD3	48:BP:61:ARG:O	1.87	0.72
35:BA:279:C:C3'	35:BA:280:C:H5''	2.20	0.72
35:BA:395:U:H2'	35:BA:396:G:N7	2.05	0.72
35:BA:2732:G:H3'	35:BA:2733:A:H5'	1.72	0.72
39:BE:61:ARG:HG2	39:BE:62:PRO:HD3	1.70	0.72
54:BV:39:LEU:CD1	54:BV:51:VAL:HA	2.20	0.72
1:CA:50:A:N6	1:CA:361:G:H4'	2.04	0.72
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.54	0.72
13:CM:78:ILE:HA	13:CM:81:LEU:HD23	1.70	0.72
33:D8:54:GLU:O	33:D8:58:ILE:HG12	1.88	0.72
35:DA:637:A:H2'	48:DP:117:GLU:OE2	1.89	0.72
35:DA:2315:G:O2'	41:DG:128:ARG:HD2	1.89	0.72
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.25	0.72
1:AA:1442:G:C6	1:AA:1442(B):A:H2	2.06	0.72
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.03	0.72
22:AW:31:G:H2'	22:AW:32:G:C8	2.23	0.72
24:AY:468:ARG:HH11	24:AY:468:ARG:CB	2.01	0.72
35:BA:674:G:H1'	40:BF:74:ARG:HD3	1.71	0.72
35:BA:1265:A:H5'	35:BA:1267:U:H1'	1.70	0.72
35:BA:1827:C:O2'	35:BA:1828:G:H5'	1.89	0.72
35:BA:2425:A:H4'	35:BA:2426:A:H5''	1.71	0.72
37:BC:43:GLU:HG3	37:BC:216:THR:HG23	1.71	0.72
40:BF:53:THR:HG22	40:BF:56:GLU:CG	2.14	0.72
42:BH:17:VAL:O	42:BH:45:VAL:HG22	1.88	0.72
46:BN:65:LYS:HZ3	46:BN:65:LYS:HA	1.54	0.72
52:BT:80:SER:HB3	52:BT:81:PRO:CD	2.19	0.72
1:CA:631:G:H2'	1:CA:632:A:C8	2.23	0.72
15:CO:11:VAL:O	15:CO:14:GLU:HB3	1.90	0.72
22:CV:39:C:H2'	22:CV:40:C:C6	2.23	0.72
24:CY:191:ASP:HA	24:CY:267:LYS:HE3	1.72	0.72
24:CY:238:THR:C	24:CY:240:GLU:H	1.97	0.72
25:D0:20:ARG:H	25:D0:20:ARG:HD2	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:64:A:C4	56:DX:66:LEU:HD13	2.24	0.72
35:DA:176:G:O2'	35:DA:177:G:H5'	1.89	0.72
35:DA:586:A:H5'	40:DF:89:VAL:HG21	1.69	0.72
37:DC:128:LEU:O	37:DC:128:LEU:HG	1.87	0.72
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.18	0.72
58:DZ:65:GLN:HB3	58:DZ:67:LEU:HD11	1.70	0.72
4:AD:158:ILE:O	4:AD:162:LEU:HB2	1.89	0.72
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	1.88	0.72
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.72	0.72
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.52	0.72
31:B6:40:CYS:HB2	31:B6:46:HIS:CE1	2.24	0.72
33:B8:54:GLU:O	33:B8:58:ILE:HG12	1.90	0.72
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.71	0.72
35:BA:739:G:H4'	35:BA:740:U:OP1	1.89	0.72
35:BA:1138:G:H2'	35:BA:1139:G:O4'	1.89	0.72
35:BA:2198:A:H4'	35:BA:2199:A:OP1	1.88	0.72
35:BA:2521:C:H42	35:BA:2544:G:H1	1.36	0.72
38:BD:183:ARG:HG2	38:BD:183:ARG:NH1	2.04	0.72
41:BG:135:LEU:CD1	41:BG:155:MET:HG2	2.18	0.72
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.18	0.72
44:BK:75:SER:O	44:BK:79:ARG:HG3	1.90	0.72
48:BP:108:LYS:C	48:BP:110:TYR:H	1.98	0.72
56:BX:41:ASN:O	56:BX:43:VAL:N	2.22	0.72
24:CY:32:ILE:O	24:CY:36:THR:HG23	1.89	0.72
35:DA:751:A:H5'	55:DW:90:ARG:HA	1.70	0.72
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.25	0.72
35:DA:2198:A:H4'	35:DA:2199:A:OP1	1.89	0.72
39:DE:49:LEU:N	39:DE:49:LEU:HD22	2.03	0.72
41:DG:116:ASP:O	41:DG:117:PHE:HB3	1.89	0.72
53:DU:113:ALA:C	53:DU:115:ALA:H	1.98	0.72
55:DW:15:ARG:HA	55:DW:18:ARG:HD2	1.70	0.72
6:AF:33:TYR:HB2	6:AF:75:LEU:HD13	1.70	0.72
25:B0:14:ARG:HB2	25:B0:14:ARG:HH11	1.55	0.72
26:B1:86:SER:CB	26:B1:89:GLU:HB2	2.18	0.72
35:BA:1053:C:H2'	35:BA:1054:A:H5''	1.70	0.72
46:BN:3:THR:HG22	46:BN:4:TYR:H	1.53	0.72
48:BP:7:ARG:O	48:BP:10:PRO:HD2	1.89	0.72
50:BR:7:GLY:O	50:BR:8:ARG:HB2	1.89	0.72
58:BZ:103:ARG:HD2	58:BZ:136:PHE:CD1	2.24	0.72
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.19	0.72
1:CA:1296:C:H5'	1:CA:1297:C:OP2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:40:LEU:HD11	9:CI:70:LYS:HG2	1.71	0.72
12:CL:41:ARG:CG	12:CL:42:THR:H	2.02	0.72
22:CV:2:G:H5''	25:D0:8:GLY:HA2	1.70	0.72
35:DA:365:C:H5'	35:DA:365:C:H6	1.54	0.72
35:DA:2306:C:H5''	35:DA:2307:G:O4'	1.89	0.72
24:AY:92:ILE:HG12	24:AY:405:PRO:HG2	1.69	0.72
35:BA:2150:U:H2'	35:BA:2151:G:C8	2.24	0.72
35:BA:2461:C:H2'	35:BA:2461:C:O2	1.90	0.72
41:BG:98:ARG:HH11	41:BG:98:ARG:H	1.37	0.72
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.71	0.72
35:DA:320:A:H2'	40:DF:136:THR:OG1	1.90	0.72
35:DA:654(M):C:HO2'	35:DA:654(N):G:H8	1.37	0.72
35:DA:2732:G:H3'	35:DA:2733:A:H5'	1.71	0.72
54:DV:15:GLU:CB	54:DV:16:PRO:HD2	2.20	0.72
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.19	0.72
10:AJ:47:PHE:CZ	14:AN:37:PHE:HE2	2.07	0.72
24:AY:343:ASN:HD22	24:AY:344:THR:N	1.88	0.72
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.24	0.72
45:BL:67:UNK:O	45:BL:69:UNK:N	2.23	0.72
55:BW:4:LYS:HA	55:BW:106:ILE:HG22	1.72	0.72
1:CA:1504:G:OP1	1:CA:1507:A:H4'	1.89	0.72
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.01	0.72
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.72	0.72
16:CP:32:TYR:O	16:CP:32:TYR:HD2	1.72	0.72
29:D4:8:LYS:O	29:D4:9:LEU:HB2	1.87	0.72
35:DA:154(A):C:H3'	35:DA:155:U:C5'	2.20	0.72
35:DA:2103:C:C3'	35:DA:2104:G:H5''	2.20	0.72
44:DK:99:ILE:HD12	44:DK:103:GLN:HB3	1.71	0.72
49:DQ:79:LEU:HD23	49:DQ:80:GLU:H	1.53	0.72
54:DV:28:GLU:HB2	54:DV:31:ALA:CB	2.18	0.72
58:DZ:9:TYR:HE2	58:DZ:61:LEU:HD22	1.54	0.72
1:AA:269:C:H2'	1:AA:270:A:H8	1.55	0.72
1:AA:1126:U:O4'	1:AA:1281:U:H1'	1.90	0.72
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.25	0.72
1:AA:1423:G:C5'	47:BO:49:ARG:HH22	2.02	0.72
10:AJ:64:GLU:HG2	14:AN:59:ALA:HB2	1.71	0.72
12:AL:34:ARG:O	12:AL:61:THR:HG23	1.90	0.72
18:AR:46:GLU:OE2	18:AR:46:GLU:HA	1.89	0.72
35:BA:297:C:H2'	35:BA:298:G:O4'	1.89	0.72
35:BA:839:U:H2'	35:BA:840:C:C6	2.25	0.72
35:BA:1787:A:H5''	35:BA:1788:C:OP2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:11:MET:HB2	39:BE:23:VAL:O	1.89	0.72
40:BF:178:PRO:HG2	40:BF:179:GLU:OE1	1.89	0.72
46:BN:23:LEU:HB3	46:BN:60:ILE:HG21	1.70	0.72
51:BS:96:GLY:O	51:BS:98:VAL:N	2.23	0.72
55:BW:82:LEU:HD12	55:BW:82:LEU:N	2.05	0.72
1:CA:294:U:H2'	1:CA:295:C:H6	1.55	0.72
2:CB:22:LYS:H	2:CB:40:HIS:CE1	2.07	0.72
2:CB:168:THR:HG23	2:CB:192:SER:CB	2.17	0.72
7:CG:80:VAL:HG23	7:CG:81:GLY:H	1.55	0.72
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.70	0.72
19:CS:9:VAL:HG12	19:CS:9:VAL:O	1.90	0.72
31:D6:47:THR:HG23	31:D6:48:VAL:H	1.55	0.72
35:DA:184:C:H2'	35:DA:185:U:C6	2.25	0.72
35:DA:2636:U:H4'	39:DE:80:GLU:OE1	1.90	0.72
40:DF:192:LEU:HD23	40:DF:192:LEU:C	2.15	0.72
53:DU:59:ARG:HH11	53:DU:59:ARG:HG2	1.54	0.72
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.70	0.71
9:AI:79:LEU:HD11	9:AI:83:ARG:HD2	1.72	0.71
25:B0:27:GLU:HA	25:B0:67:VAL:O	1.89	0.71
28:B3:40:THR:OG1	28:B3:43:ILE:HG12	1.89	0.71
35:BA:745:G:H5'	35:BA:746:A:OP2	1.89	0.71
1:CA:1100:C:H2'	1:CA:1101:A:H5''	1.72	0.71
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.72	0.71
10:CJ:4:ILE:HD12	10:CJ:4:ILE:N	2.04	0.71
14:CN:12:ARG:C	14:CN:14:PRO:HD3	2.15	0.71
28:D3:56:VAL:HG12	28:D3:57:GLU:N	2.05	0.71
35:DA:2020:A:O2'	35:DA:2021:C:H5''	1.90	0.71
36:DB:7:G:C2'	36:DB:8:U:H5''	2.19	0.71
41:DG:98:ARG:NH1	41:DG:98:ARG:HG2	2.04	0.71
44:DK:99:ILE:HG23	44:DK:103:GLN:CB	2.20	0.71
46:DN:3:THR:HG22	46:DN:4:TYR:H	1.55	0.71
46:DN:96:GLU:N	46:DN:96:GLU:OE2	2.22	0.71
56:DX:41:ASN:O	56:DX:43:VAL:N	2.22	0.71
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.01	0.71
16:AP:32:TYR:O	16:AP:32:TYR:HD2	1.72	0.71
24:AY:613:PRO:O	24:AY:615:GLU:N	2.23	0.71
31:B6:11:LEU:HG	31:B6:26:ASN:HD21	1.55	0.71
38:BD:243:GLY:O	38:BD:244:ARG:HB3	1.91	0.71
48:BP:47:ASP:HB3	48:BP:48:PRO:CA	2.19	0.71
18:CR:58:LEU:HB3	18:CR:62:GLU:HB3	1.71	0.71
31:D6:40:CYS:HB2	31:D6:46:HIS:CE1	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:279:C:C3'	35:DA:280:C:H5''	2.20	0.71
35:DA:1203:G:H3'	35:DA:1204:A:H5''	1.72	0.71
35:DA:1722:A:O2'	35:DA:1739:U:H5''	1.90	0.71
48:DP:59:LEU:HA	48:DP:61:ARG:CZ	2.20	0.71
55:DW:4:LYS:HA	55:DW:106:ILE:HG22	1.72	0.71
1:AA:108:G:H5'	1:AA:109:A:H5''	1.72	0.71
1:AA:998:G:H2'	1:AA:999:C:C2	2.25	0.71
12:AL:7:ILE:O	12:AL:11:VAL:HG23	1.90	0.71
35:BA:1819:A:H4'	35:BA:1820:U:C5'	2.20	0.71
35:BA:2195:C:O2'	35:BA:2196:C:H5'	1.90	0.71
35:BA:2439:A:H2'	35:BA:2439:A:N3	2.05	0.71
37:BC:101:ILE:HG13	37:BC:128:LEU:HD11	1.71	0.71
38:BD:158:ALA:O	38:BD:196:VAL:HG11	1.90	0.71
1:CA:161:A:H2'	1:CA:162:A:C8	2.24	0.71
1:CA:973:G:H1'	10:CJ:55:LYS:CE	2.20	0.71
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.19	0.71
10:CJ:44:VAL:HG22	10:CJ:66:ARG:HG2	1.71	0.71
10:CJ:61:GLU:OE1	14:CN:49:HIS:HE1	1.74	0.71
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.19	0.71
19:CS:51:VAL:O	19:CS:58:VAL:HG22	1.89	0.71
24:CY:290:LYS:HB3	24:CY:298:VAL:HG23	1.72	0.71
24:CY:605:ILE:HG23	24:CY:646:PHE:HB3	1.71	0.71
31:D6:15:GLU:OE2	31:D6:44:ARG:NH1	2.23	0.71
33:D8:2:PRO:HA	35:DA:591:C:O2	1.89	0.71
35:DA:803:U:C2'	35:DA:804:A:H5'	2.20	0.71
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.25	0.71
41:DG:173:LEU:O	41:DG:178:PHE:HB2	1.90	0.71
42:DH:153:LYS:HG3	42:DH:154:PRO:HD2	1.70	0.71
49:DQ:62:GLY:HA2	58:DZ:116:VAL:HG21	1.72	0.71
51:DS:12:PHE:O	51:DS:14:VAL:HG23	1.90	0.71
52:DT:28:VAL:HG13	52:DT:46:GLU:HA	1.71	0.71
12:AL:34:ARG:HG3	12:AL:105:TYR:HE1	1.56	0.71
35:BA:320:A:H2'	40:BF:136:THR:OG1	1.90	0.71
35:BA:848:G:N3	35:BA:933:A:H1'	2.05	0.71
35:BA:1061:U:H4'	35:BA:1070:A:H1'	1.72	0.71
35:BA:2306:C:H5''	35:BA:2307:G:O4'	1.91	0.71
40:BF:157:VAL:HG21	40:BF:194:MET:HG2	1.72	0.71
40:BF:192:LEU:C	40:BF:192:LEU:HD23	2.16	0.71
42:BH:169:VAL:HG13	42:BH:170:ARG:N	2.04	0.71
48:BP:27:HIS:CD2	48:BP:28:GLY:N	2.58	0.71
48:BP:62:LEU:CD2	48:BP:62:LEU:N	2.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:62:LEU:N	48:BP:62:LEU:HD23	2.06	0.71
53:BU:113:ALA:C	53:BU:115:ALA:H	1.97	0.71
54:BV:18:LEU:CD2	54:BV:19:LYS:H	2.02	0.71
58:BZ:179:ASP:HB3	58:BZ:182:LYS:HD2	1.71	0.71
1:CA:461:A:O2'	1:CA:470:C:H5'	1.91	0.71
3:CC:84:ILE:O	3:CC:88:ARG:HG3	1.90	0.71
4:CD:158:ILE:O	4:CD:162:LEU:HB2	1.89	0.71
6:CF:33:TYR:HB2	6:CF:75:LEU:HD13	1.72	0.71
22:CV:3:C:H42	22:CV:70:G:H1	1.35	0.71
24:CY:343:ASN:HD22	24:CY:343:ASN:C	1.99	0.71
35:DA:582:G:H2'	35:DA:583:G:C8	2.26	0.71
35:DA:624:C:H41	48:DP:107:LYS:NZ	1.88	0.71
46:DN:22:THR:O	46:DN:25:ARG:HB2	1.91	0.71
57:DY:31:LEU:HB2	57:DY:32:PRO:HA	1.72	0.71
1:AA:353:A:H5'	1:AA:353:A:H8	1.53	0.71
1:AA:736:C:H2'	1:AA:737:A:C8	2.26	0.71
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.55	0.71
19:AS:15:LEU:HD21	19:AS:33:THR:OG1	1.90	0.71
24:AY:180:VAL:HG23	24:AY:181:LEU:H	1.54	0.71
29:B4:13:ARG:HB3	29:B4:13:ARG:NH1	2.06	0.71
30:B5:55:ARG:HH22	50:BR:33:ARG:HG2	1.55	0.71
31:B6:15:GLU:OE2	31:B6:44:ARG:NH2	2.23	0.71
35:BA:500:G:N2	35:BA:502:A:H3'	2.06	0.71
35:BA:756:C:O2'	35:BA:757:U:H5'	1.89	0.71
35:BA:955:C:OP2	49:BQ:14:ARG:HD2	1.91	0.71
35:BA:1682:G:H2'	35:BA:1683:C:C6	2.26	0.71
35:BA:2466:C:O2'	35:BA:2467:C:H5'	1.91	0.71
39:BE:34:VAL:O	39:BE:35:GLN:HB2	1.88	0.71
1:CA:1298:C:O2	1:CA:1298:C:H2'	1.91	0.71
1:CA:1382:C:H2'	1:CA:1383:C:H6	1.56	0.71
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.04	0.71
15:CO:5:LYS:O	15:CO:9:GLN:HG2	1.90	0.71
18:CR:46:GLU:OE2	18:CR:46:GLU:HA	1.89	0.71
24:CY:168:ILE:HD12	24:CY:176:GLY:HA3	1.72	0.71
24:CY:608:VAL:O	24:CY:644:ARG:HA	1.91	0.71
30:D5:4:HIS:CB	30:D5:5:PRO:HD3	2.19	0.71
35:DA:654(V):A:H3'	35:DA:655:A:H2'	1.69	0.71
35:DA:2055:C:H4'	35:DA:2056:G:H5''	1.72	0.71
38:DD:123:ALA:HB3	38:DD:131:LEU:HG	1.70	0.71
39:DE:34:VAL:O	39:DE:35:GLN:HB2	1.89	0.71
39:DE:61:ARG:HG2	39:DE:62:PRO:HD3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:1:MET:HE1	46:DN:3:THR:OG1	1.90	0.71
47:DO:17:ARG:NE	47:DO:47:ILE:HD11	2.04	0.71
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.04	0.71
1:AA:461:A:O2'	1:AA:470:C:H5'	1.90	0.71
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.05	0.71
7:AG:151:TYR:HH	11:AK:54:ARG:HD3	1.53	0.71
10:AJ:92:THR:HG23	10:AJ:93:GLY:H	1.54	0.71
14:AN:12:ARG:C	14:AN:14:PRO:HD3	2.16	0.71
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.54	0.71
24:AY:459:LEU:H	24:AY:459:LEU:HD12	1.55	0.71
29:B4:30:GLU:O	29:B4:31:ILE:HD12	1.90	0.71
39:BE:38:THR:HG22	39:BE:40:GLU:N	2.03	0.71
41:BG:56:ALA:HB1	41:BG:153:ARG:CZ	2.20	0.71
47:BO:1:MET:HG3	47:BO:67:LYS:HG2	1.73	0.71
51:BS:12:PHE:O	51:BS:14:VAL:HG23	1.90	0.71
53:BU:20:LEU:H	53:BU:20:LEU:CD2	2.03	0.71
12:CL:7:ILE:O	12:CL:11:VAL:HG23	1.90	0.71
19:CS:9:VAL:O	19:CS:11:VAL:N	2.22	0.71
26:D1:94:LEU:O	26:D1:96:LYS:N	2.23	0.71
35:DA:1190:G:H5'	48:DP:35:HIS:H	1.56	0.71
38:DD:27:THR:HG23	38:DD:83:GLU:HG2	1.72	0.71
41:DG:62:LEU:H	41:DG:62:LEU:CD1	2.00	0.71
49:DQ:35:VAL:HG23	49:DQ:101:ARG:O	1.91	0.71
51:DS:85:VAL:C	51:DS:106:ARG:HG2	2.16	0.71
52:DT:28:VAL:HG22	52:DT:46:GLU:CA	2.21	0.71
1:AA:973:G:H1'	10:AJ:55:LYS:HZ3	1.54	0.71
5:AE:98:THR:HB	5:AE:117:ASP:HB3	1.70	0.71
10:AJ:61:GLU:OE1	14:AN:49:HIS:HE1	1.73	0.71
16:AP:21:VAL:O	16:AP:33:ILE:HB	1.90	0.71
19:AS:9:VAL:O	19:AS:9:VAL:HG12	1.88	0.71
24:AY:180:VAL:CG2	24:AY:216:LEU:HD12	2.20	0.71
24:AY:620:VAL:O	24:AY:624:LEU:HD13	1.89	0.71
31:B6:5:VAL:CG2	35:BA:2283:C:H5'	2.18	0.71
31:B6:47:THR:HG23	31:B6:48:VAL:H	1.56	0.71
35:BA:614(A):U:H4'	35:BA:614(B):G:C5'	2.20	0.71
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.54	0.71
38:BD:155:LEU:HD23	38:BD:177:LEU:HD22	1.72	0.71
44:BK:99:ILE:HD12	44:BK:103:GLN:HB3	1.71	0.71
57:BY:47:LYS:HG3	57:BY:60:PHE:HE2	1.54	0.71
24:CY:84:THR:CA	61:CY:702:FUA:H322	2.20	0.71
27:D2:22:GLU:O	27:D2:26:ARG:HG3	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:28:A:N6	35:DA:512:G:H1'	2.06	0.71
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.26	0.71
35:DA:2171:A:H1'	35:DA:2172:U:C6	2.26	0.71
37:DC:43:GLU:HG3	37:DC:216:THR:HG23	1.73	0.71
38:DD:16:MET:HE1	38:DD:208:LYS:HE2	1.72	0.71
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.91	0.71
48:DP:108:LYS:C	48:DP:110:TYR:H	1.98	0.71
51:DS:104:GLY:C	51:DS:106:ARG:H	1.99	0.71
52:DT:85:LYS:HB3	52:DT:85:LYS:HZ3	1.56	0.71
57:DY:47:LYS:HG3	57:DY:60:PHE:HE2	1.54	0.71
1:AA:1342:C:O2'	1:AA:1343:G:H5'	1.91	0.71
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.72	0.71
15:AO:11:VAL:O	15:AO:14:GLU:HB3	1.90	0.71
35:BA:1582:C:H2'	35:BA:1583:A:H8	1.56	0.71
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.26	0.71
35:BA:2103:C:C3'	35:BA:2104:G:H5''	2.20	0.71
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.56	0.71
44:BK:93:ARG:CG	58:BZ:112:ARG:HE	2.04	0.71
49:BQ:21:THR:O	49:BQ:22:LYS:HB3	1.90	0.71
51:BS:85:VAL:C	51:BS:106:ARG:HG2	2.16	0.71
53:BU:25:TRP:O	53:BU:28:ARG:HB2	1.90	0.71
57:BY:28:LYS:C	57:BY:38:ILE:HG22	2.16	0.71
1:CA:998:G:H2'	1:CA:999:C:C2	2.25	0.71
1:CA:1133:G:H22	1:CA:1143:G:H1'	1.53	0.71
6:CF:16:GLN:CD	6:CF:16:GLN:N	2.49	0.71
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.05	0.71
25:D0:30:VAL:HG12	25:D0:66:VAL:HG22	1.72	0.71
35:DA:955:C:OP2	49:DQ:14:ARG:HD2	1.89	0.71
44:DK:115:LEU:HD13	44:DK:126:MET:SD	2.30	0.71
46:DN:65:LYS:HB3	46:DN:65:LYS:HZ2	1.55	0.71
51:DS:89:ARG:HG3	51:DS:92:TYR:HA	1.73	0.71
51:DS:95:HIS:CG	51:DS:96:GLY:H	2.07	0.71
1:AA:1299:A:H2'	1:AA:1299:A:N3	2.05	0.71
4:AD:30:LYS:C	4:AD:32:ALA:N	2.47	0.71
10:AJ:44:VAL:HG22	10:AJ:66:ARG:HG2	1.71	0.71
27:B2:2:LYS:CB	35:BA:97:C:H5''	2.21	0.71
35:BA:288:C:H2'	35:BA:289:A:C8	2.25	0.71
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.25	0.71
35:BA:2055:C:H4'	35:BA:2056:G:H5''	1.71	0.71
36:BB:82:G:O2'	36:BB:83:G:H5'	1.91	0.71
53:BU:90:VAL:O	53:BU:92:ARG:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:12:VAL:HG12	56:BX:27:THR:HG23	1.71	0.71
1:CA:1486:G:H2'	1:CA:1487:G:O4'	1.90	0.71
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.73	0.71
25:D0:7:LEU:CD1	49:DQ:85:LYS:HE2	2.21	0.71
31:D6:6:ARG:O	31:D6:7:ILE:HB	1.91	0.71
33:D8:33:ASN:O	33:D8:34:TRP:HB3	1.91	0.71
35:DA:500:G:N2	35:DA:502:A:H3'	2.06	0.71
35:DA:803:U:O2'	35:DA:804:A:H5'	1.90	0.71
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.25	0.71
41:DG:34:LEU:HD12	41:DG:34:LEU:N	2.04	0.71
50:DR:63:ARG:NH2	50:DR:77:ARG:HG2	2.06	0.71
53:DU:90:VAL:O	53:DU:92:ARG:N	2.24	0.71
9:AI:53:VAL:C	9:AI:55:ALA:H	1.99	0.71
13:AM:90:LEU:O	13:AM:93:ARG:N	2.24	0.71
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.71	0.71
20:AT:12:ALA:O	20:AT:15:ARG:HB2	1.90	0.71
33:B8:13:ARG:HH12	48:BP:59:LEU:HG	1.56	0.71
35:BA:954:G:H4'	49:BQ:13:GLN:NE2	2.05	0.71
38:BD:77:ALA:HB2	38:BD:97:TYR:CD2	2.25	0.71
38:BD:147:LEU:HD13	38:BD:155:LEU:HD11	1.71	0.71
38:BD:153:ALA:C	38:BD:154:LYS:HG3	2.16	0.71
46:BN:22:THR:HB	46:BN:25:ARG:HB2	1.73	0.71
57:BY:51:VAL:C	57:BY:53:PRO:HD2	2.16	0.71
26:D1:61:ARG:HH11	26:D1:61:ARG:HB3	1.56	0.71
27:D2:32:LEU:HD11	27:D2:54:LYS:HG2	1.73	0.71
35:DA:2521:C:H42	35:DA:2544:G:H1	1.37	0.71
39:DE:38:THR:HG22	39:DE:40:GLU:N	2.03	0.71
41:DG:109:VAL:HG11	41:DG:142:PRO:HD3	1.72	0.71
49:DQ:51:ARG:O	49:DQ:54:MET:HB3	1.89	0.71
1:AA:973:G:H1'	10:AJ:55:LYS:CE	2.20	0.70
10:AJ:61:GLU:HG3	14:AN:58:LYS:NZ	2.06	0.70
15:AO:5:LYS:O	15:AO:9:GLN:HG2	1.91	0.70
24:AY:154:GLN:HA	24:AY:158:GLY:HA2	1.72	0.70
35:BA:28:A:N6	35:BA:512:G:H1'	2.06	0.70
35:BA:695:G:OP1	35:BA:1380:G:H4'	1.89	0.70
35:BA:733:G:H8	35:BA:733:G:O5'	1.74	0.70
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.26	0.70
35:BA:2668:G:O2'	35:BA:2669:G:H5'	1.91	0.70
40:BF:187:VAL:HG13	48:BP:5:ASP:O	1.91	0.70
51:BS:98:VAL:HG12	51:BS:100:ALA:H	1.55	0.70
55:BW:15:ARG:HA	55:BW:18:ARG:HD2	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:82:GLU:O	3:CC:86:VAL:HG13	1.90	0.70
10:CJ:50:ILE:HD11	14:CN:41:ARG:NH1	2.05	0.70
27:D2:61:LEU:HD12	35:DA:72:U:C6	2.26	0.70
35:DA:914:C:H2'	35:DA:915:C:H5'	1.71	0.70
35:DA:1790:C:H5''	35:DA:1791:A:OP1	1.91	0.70
41:DG:60:LEU:HD22	41:DG:63:ILE:HD11	1.73	0.70
44:DK:75:SER:O	44:DK:79:ARG:HG3	1.90	0.70
48:DP:27:HIS:CD2	48:DP:28:GLY:N	2.59	0.70
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.91	0.70
22:AV:71:C:H2'	22:AV:71:C:O2	1.90	0.70
24:AY:431:LEU:HD22	24:AY:466:LEU:HD13	1.72	0.70
35:BA:158:U:H2'	35:BA:171:G:O4'	1.91	0.70
35:BA:582:G:H2'	35:BA:583:G:C8	2.26	0.70
35:BA:970:C:H2'	35:BA:971:C:C6	2.25	0.70
35:BA:2133:G:C2'	35:BA:2157:G:H22	2.02	0.70
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.27	0.70
36:BB:15:A:H3'	36:BB:16:G:H5'	1.73	0.70
48:BP:79:ARG:O	48:BP:111:ARG:HB2	1.91	0.70
58:BZ:29:TYR:HB3	58:BZ:34:ASN:HB2	1.73	0.70
1:CA:630:G:H2'	1:CA:631:G:H5'	1.73	0.70
1:CA:1126:U:O4'	1:CA:1281:U:H1'	1.89	0.70
24:CY:568:TYR:CE2	24:CY:569:ASP:HB2	2.27	0.70
35:DA:85:G:OP1	57:DY:30:VAL:HB	1.92	0.70
35:DA:799:G:H3'	35:DA:800:A:H5''	1.73	0.70
35:DA:958:U:OP2	49:DQ:14:ARG:NH1	2.25	0.70
35:DA:1080:C:H4'	44:DK:125:ARG:HB3	1.72	0.70
35:DA:1138:G:H2'	35:DA:1139:G:O4'	1.90	0.70
35:DA:1323:U:H3	35:DA:1331:A:H61	1.39	0.70
35:DA:1367:A:H2'	35:DA:1368:G:H5'	1.72	0.70
35:DA:1528(A):A:H62	35:DA:1541:G:N2	1.88	0.70
35:DA:1819:A:H4'	35:DA:1820:U:C5'	2.21	0.70
35:DA:1963:U:O2	35:DA:1963:U:H2'	1.89	0.70
35:DA:2312:U:H2'	35:DA:2313:C:H5''	1.73	0.70
41:DG:76:SER:HB2	41:DG:83:ARG:CB	2.20	0.70
41:DG:123:ASN:C	41:DG:125:PHE:H	1.99	0.70
48:DP:34:GLY:O	48:DP:35:HIS:HB2	1.90	0.70
10:AJ:48:THR:HG23	10:AJ:62:HIS:ND1	2.06	0.70
15:AO:39:LEU:HD13	15:AO:56:LEU:HB2	1.73	0.70
26:B1:4:VAL:HG23	26:B1:10:LYS:O	1.92	0.70
42:BH:175:LYS:O	42:BH:176:ALA:HB3	1.91	0.70
58:BZ:82:ARG:O	58:BZ:83:PRO:C	2.32	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:269:C:H2'	1:CA:270:A:H8	1.57	0.70
1:CA:390:C:H2'	1:CA:391:G:C8	2.26	0.70
10:CJ:82:ILE:O	10:CJ:86:MET:HB2	1.92	0.70
24:CY:168:ILE:HD11	24:CY:178:ILE:CD1	2.22	0.70
31:D6:16:CYS:SG	31:D6:48:VAL:HG21	2.31	0.70
35:DA:158:U:H2'	35:DA:171:G:O4'	1.91	0.70
35:DA:1061:U:H4'	35:DA:1070:A:H1'	1.72	0.70
35:DA:1775:U:H2'	35:DA:1776:G:H5'	1.74	0.70
46:DN:58:ASP:O	46:DN:60:ILE:N	2.24	0.70
47:DO:1:MET:HG3	47:DO:67:LYS:HG2	1.74	0.70
48:DP:16:ARG:HB2	48:DP:16:ARG:NH1	2.05	0.70
51:DS:83:LYS:HG2	51:DS:105:ALA:HB3	1.73	0.70
53:DU:107:ALA:HA	53:DU:110:VAL:CG2	2.22	0.70
58:DZ:18:LEU:H	58:DZ:18:LEU:CD1	2.03	0.70
58:DZ:18:LEU:HD12	58:DZ:18:LEU:N	2.06	0.70
22:AW:14:A:C2'	22:AW:15:G:H5''	2.16	0.70
24:AY:401:SER:O	24:AY:403:GLU:HG3	1.91	0.70
35:BA:1190:G:H5'	48:BP:35:HIS:H	1.55	0.70
35:BA:2579:C:C4'	39:BE:134:ILE:HG12	2.19	0.70
47:BO:20:MET:HE3	47:BO:44:LYS:HE3	1.73	0.70
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.90	0.70
7:CG:89:MET:HE1	7:CG:156:TRP:OXT	1.91	0.70
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	1.91	0.70
13:CM:90:LEU:O	13:CM:93:ARG:N	2.24	0.70
16:CP:49:LEU:HD22	16:CP:73:LEU:HD22	1.73	0.70
24:CY:409:ILE:HD11	24:CY:656:ALA:HB3	1.72	0.70
35:DA:654(S):G:H3'	35:DA:654(T):C:H5''	1.71	0.70
35:DA:839:U:H2'	35:DA:840:C:C6	2.25	0.70
35:DA:894:C:O2'	35:DA:895:U:H5'	1.91	0.70
35:DA:1265:A:H5'	35:DA:1267:U:H1'	1.72	0.70
35:DA:2258:C:O2'	35:DA:2426:A:H4'	1.90	0.70
35:DA:2308:G:O6	35:DA:2310:A:H2'	1.90	0.70
35:DA:2672:G:H2'	35:DA:2673:G:H5''	1.72	0.70
37:DC:134:PRO:C	37:DC:135:ARG:HD2	2.15	0.70
41:DG:131:TYR:HB3	41:DG:159:VAL:HG13	1.73	0.70
48:DP:95:VAL:HG23	48:DP:125:VAL:HG23	1.73	0.70
50:DR:10:LEU:HB3	50:DR:17:ARG:CD	2.21	0.70
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	2.06	0.70
55:DW:68:ARG:O	55:DW:109:GLU:HA	1.91	0.70
58:DZ:23:LYS:HD3	58:DZ:38:TYR:HE1	1.56	0.70
58:DZ:128:VAL:HG22	58:DZ:129:SER:H	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:142:SER:H	58:DZ:144:LEU:HD23	1.54	0.70
1:AA:161:A:H2'	1:AA:162:A:C8	2.26	0.70
1:AA:1117:G:O2'	9:AI:104:ARG:HD3	1.90	0.70
1:AA:1170:A:H2'	1:AA:1171:G:O4'	1.91	0.70
2:AB:22:LYS:H	2:AB:40:HIS:HE1	1.39	0.70
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.06	0.70
22:AW:7:G:H3'	22:AW:8:U:H5'	1.73	0.70
22:AW:69:C:H2'	22:AW:70:C:C6	2.27	0.70
24:AY:9:LEU:HD23	24:AY:9:LEU:C	2.17	0.70
31:B6:15:GLU:CD	31:B6:44:ARG:NH1	2.50	0.70
31:B6:35:GLU:CB	31:B6:51:GLU:HB2	2.21	0.70
41:BG:68:PRO:HA	41:BG:92:VAL:CG1	2.16	0.70
42:BH:43:VAL:CG1	42:BH:52:VAL:HA	2.22	0.70
44:BK:99:ILE:HG23	44:BK:103:GLN:CB	2.20	0.70
44:BK:115:LEU:HD13	44:BK:126:MET:SD	2.31	0.70
49:BQ:87:LYS:HG2	49:BQ:88:GLY:H	1.56	0.70
1:CA:973:G:H1'	10:CJ:55:LYS:HZ3	1.57	0.70
35:DA:954:G:H4'	49:DQ:13:GLN:NE2	2.06	0.70
38:DD:77:ALA:HB2	38:DD:97:TYR:CD2	2.27	0.70
38:DD:129:ASN:O	38:DD:193:VAL:HG12	1.91	0.70
1:AA:630:G:H2'	1:AA:631:G:H5'	1.74	0.70
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.72	0.70
22:AV:20:U:C3'	22:AV:21:A:H5'	2.20	0.70
22:AW:71:G:H2'	22:AW:71:G:N3	2.07	0.70
25:B0:73:GLY:O	25:B0:75:LEU:N	2.24	0.70
29:B4:9:LEU:CD2	41:BG:65:GLY:HA3	2.21	0.70
35:BA:894:C:O2'	35:BA:895:U:H5'	1.91	0.70
35:BA:2202:C:H2'	38:BD:151:LYS:HZ1	1.55	0.70
37:BC:84:ILE:O	37:BC:95:VAL:HG11	1.91	0.70
37:BC:134:PRO:C	37:BC:135:ARG:HD2	2.16	0.70
38:BD:65:ILE:HG22	38:BD:104:TYR:CB	2.18	0.70
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.91	0.70
47:BO:115:VAL:HG13	47:BO:121:VAL:HG21	1.72	0.70
48:BP:16:ARG:NE	48:BP:18:ARG:HB2	2.07	0.70
48:BP:85:LEU:CD1	48:BP:120:ALA:HB2	2.21	0.70
48:BP:101:VAL:HG12	48:BP:106:LEU:HB3	1.74	0.70
51:BS:83:LYS:HG2	51:BS:105:ALA:HB3	1.73	0.70
1:CA:60:A:H5''	1:CA:331:G:H22	1.56	0.70
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.90	0.70
8:CH:17:THR:HB	8:CH:78:GLN:OE1	1.91	0.70
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:34:ARG:HG3	12:CL:105:TYR:HE1	1.57	0.70
20:CT:73:HIS:H	20:CT:76:ALA:HB3	1.55	0.70
22:CW:74:A:C2'	22:CW:75:C:H5''	2.21	0.70
25:D0:51:VAL:HG22	25:D0:81:VAL:HG23	1.72	0.70
29:D4:1:MET:HG2	41:DG:98:ARG:NE	2.07	0.70
29:D4:13:ARG:HB3	29:D4:13:ARG:NH1	2.07	0.70
35:DA:88:G:OP1	35:DA:90:U:H5	1.74	0.70
35:DA:120:U:H2'	35:DA:120:U:O2	1.89	0.70
46:DN:22:THR:HB	46:DN:25:ARG:HB2	1.73	0.70
47:DO:3:GLN:HB2	47:DO:4:PRO:HD2	1.73	0.70
2:AB:107:THR:HA	2:AB:110:GLN:HE21	1.57	0.70
2:AB:189:ASP:OD1	2:AB:205:ASP:HB3	1.91	0.70
7:AG:120:ILE:HG22	7:AG:124:LEU:HD12	1.74	0.70
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.32	0.70
24:AY:14:ASN:HB2	24:AY:102:ASP:OD1	1.91	0.70
51:BS:104:GLY:C	51:BS:106:ARG:H	2.00	0.70
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.06	0.70
12:CL:57:LYS:HG2	12:CL:67:THR:HG22	1.74	0.70
13:CM:15:VAL:O	13:CM:19:LEU:HD23	1.92	0.70
24:CY:146:LEU:O	24:CY:149:VAL:HB	1.92	0.70
27:D2:58:ALA:HB1	35:DA:76:C:H4'	1.74	0.70
35:DA:144:C:H2'	35:DA:145:G:H8	1.55	0.70
35:DA:671:C:O2'	35:DA:672:C:H5'	1.91	0.70
35:DA:742:G:O2'	35:DA:743:G:H5'	1.92	0.70
35:DA:2415:G:O3'	48:DP:66:GLY:HA3	1.89	0.70
42:DH:169:VAL:HG13	42:DH:170:ARG:N	2.05	0.70
52:DT:80:SER:HB3	52:DT:81:PRO:CD	2.20	0.70
54:DV:39:LEU:CD1	54:DV:51:VAL:HA	2.22	0.70
58:DZ:115:GLY:N	58:DZ:177:PRO:HG3	2.04	0.70
1:AA:390:C:H2'	1:AA:391:G:C8	2.26	0.70
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	1.92	0.70
11:AK:126:ARG:O	11:AK:128:ALA:N	2.25	0.70
61:AY:702:FUA:H122	61:AY:702:FUA:H231	1.73	0.70
35:BA:49:A:H5''	35:BA:51:G:O4'	1.92	0.70
35:BA:2171:A:H1'	35:BA:2172:U:C6	2.26	0.70
38:BD:16:MET:HE1	38:BD:208:LYS:HE2	1.74	0.70
1:CA:986:A:H1'	19:CS:54:GLY:O	1.92	0.70
12:CL:86:ARG:NH2	12:CL:99:HIS:CD2	2.59	0.70
20:CT:49:ALA:HB1	20:CT:99:LEU:HG	1.72	0.70
24:CY:492:ASP:OD1	24:CY:513:LYS:HA	1.92	0.70
35:DA:1380:G:O2'	35:DA:1381:G:H5'	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:96:GLY:O	51:DS:98:VAL:HG23	1.91	0.70
53:DU:55:ARG:HA	53:DU:58:ARG:CG	2.22	0.70
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	1.92	0.70
25:B0:25:ARG:HD2	25:B0:29:GLN:NE2	2.06	0.70
35:BA:1775:U:H2'	35:BA:1776:G:H5'	1.73	0.70
39:BE:179:GLU:O	39:BE:180:ASN:HB2	1.92	0.70
49:BQ:51:ARG:O	49:BQ:54:MET:HB3	1.91	0.70
51:BS:74:ALA:HB1	51:BS:103:GLU:HB2	1.74	0.70
51:BS:89:ARG:HG3	51:BS:92:TYR:HA	1.74	0.70
55:BW:33:ARG:O	55:BW:37:ARG:HB2	1.92	0.70
1:CA:108:G:H5'	1:CA:109:A:H5''	1.74	0.70
1:CA:975:A:H5'	1:CA:975:A:C8	2.27	0.70
1:CA:1490:C:H2'	1:CA:1491:G:H5'	1.73	0.70
9:CI:79:LEU:HD11	9:CI:83:ARG:HD2	1.72	0.70
24:CY:165:GLN:C	24:CY:166:LEU:HD12	2.17	0.70
24:CY:339:SER:O	24:CY:351:ARG:HD2	1.91	0.70
24:CY:487:ILE:HG22	24:CY:594:VAL:HG13	1.73	0.70
26:D1:44:PRO:HG2	26:D1:46:LEU:CD2	2.19	0.70
35:DA:695:G:OP1	35:DA:1380:G:H4'	1.92	0.70
42:DH:41:MET:HG3	42:DH:43:VAL:HG13	1.72	0.70
50:DR:87:TYR:C	50:DR:89:ASP:H	1.99	0.70
1:AA:812:C:HO2'	1:AA:813:U:P	2.15	0.70
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.73	0.70
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.73	0.70
22:AW:30:G:H2'	22:AW:31:G:C8	2.27	0.70
35:BA:144:C:H2'	35:BA:145:G:H8	1.56	0.70
35:BA:2262:U:C2'	35:BA:2263:C:C5'	2.70	0.70
42:BH:89:ILE:HG23	42:BH:129:THR:O	1.91	0.70
51:BS:96:GLY:O	51:BS:98:VAL:HG23	1.92	0.70
54:BV:24:LYS:HA	54:BV:92:THR:HG23	1.73	0.70
12:CL:45:PRO:HG3	12:CL:53:ARG:HD3	1.74	0.70
24:CY:7:TYR:OH	24:CY:9:LEU:HD12	1.92	0.70
31:D6:15:GLU:OE2	31:D6:44:ARG:NH2	2.24	0.70
35:DA:1846:G:H5'	35:DA:1846:G:C8	2.23	0.70
42:DH:89:ILE:HG23	42:DH:129:THR:O	1.92	0.70
54:DV:28:GLU:OE1	54:DV:31:ALA:HB2	1.92	0.70
1:AA:1100:C:H2'	1:AA:1101:A:H5''	1.72	0.69
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.32	0.69
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.57	0.69
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.75	0.69
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:23:PRO:C	21:AU:25:LYS:H	2.00	0.69
24:AY:252:ASP:HB2	24:AY:254:LYS:HG2	1.73	0.69
35:BA:1323:U:H3	35:BA:1331:A:H61	1.40	0.69
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.91	0.69
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.20	0.69
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.72	0.69
36:BB:106:G:H5''	58:BZ:31:ARG:HB3	1.71	0.69
38:BD:172:TYR:HD1	38:BD:186:HIS:HA	1.55	0.69
41:BG:68:PRO:HB3	41:BG:90:LEU:HD11	1.74	0.69
47:BO:2:ILE:HD11	47:BO:82:ASN:HD22	1.57	0.69
47:BO:76:ALA:HB3	52:BT:75:ILE:HB	1.73	0.69
48:BP:34:GLY:O	48:BP:35:HIS:HB2	1.92	0.69
53:BU:95:LEU:HD13	54:BV:4:ILE:HG23	1.73	0.69
55:BW:29:LEU:CD1	55:BW:51:LEU:HD11	2.21	0.69
58:BZ:84:GLU:O	58:BZ:85:HIS:HB2	1.91	0.69
58:BZ:171:ILE:HG13	58:BZ:172:ALA:N	2.05	0.69
1:CA:269:C:H2'	1:CA:270:A:C8	2.27	0.69
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.26	0.69
1:CA:1299:A:H2'	1:CA:1299:A:N3	2.06	0.69
29:D4:30:GLU:O	29:D4:31:ILE:HD12	1.92	0.69
36:DB:15:A:H3'	36:DB:16:G:H5'	1.72	0.69
48:DP:16:ARG:NE	48:DP:18:ARG:HB2	2.06	0.69
52:DT:24:PRO:HD3	52:DT:52:ILE:HD11	1.74	0.69
3:AC:84:ILE:O	3:AC:88:ARG:HG3	1.92	0.69
13:AM:23:TYR:HB3	13:AM:67:GLU:HB3	1.74	0.69
33:B8:23:VAL:HG12	33:B8:46:ARG:HH11	1.57	0.69
35:BA:154(A):C:H3'	35:BA:155:U:C5'	2.20	0.69
35:BA:1599:C:H2'	35:BA:1600:C:H6	1.58	0.69
35:BA:1607:C:H4'	35:BA:1608:A:O5'	1.92	0.69
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.27	0.69
46:BN:22:THR:O	46:BN:25:ARG:HB2	1.91	0.69
53:BU:59:ARG:HH11	53:BU:59:ARG:HG2	1.57	0.69
1:CA:736:C:H2'	1:CA:737:A:C8	2.27	0.69
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.07	0.69
1:CA:1490:C:C2'	1:CA:1491:G:H5'	2.22	0.69
24:CY:514:VAL:HG21	24:CY:593:ALA:HB1	1.73	0.69
25:D0:16:SER:HB2	35:DA:2262:U:H5	1.56	0.69
25:D0:27:GLU:CD	25:D0:27:GLU:N	2.41	0.69
26:D1:30:VAL:HG23	26:D1:31:GLY:H	1.56	0.69
35:DA:1948:G:C8	35:DA:1948:G:H5'	2.27	0.69
1:AA:793:U:C3'	1:AA:794:A:H5''	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.58	0.69
2:AB:83:MET:HG3	2:AB:234:PRO:HG3	1.73	0.69
11:AK:84:VAL:HG11	11:AK:95:ILE:HD11	1.74	0.69
22:AV:5:G:N2	22:AV:69:C:C2	2.59	0.69
25:B0:30:VAL:HG12	25:B0:66:VAL:HG22	1.74	0.69
30:B5:3:LYS:HD2	30:B5:5:PRO:HD2	1.72	0.69
35:BA:799:G:H3'	35:BA:800:A:H5''	1.74	0.69
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.74	0.69
46:BN:96:GLU:CD	46:BN:96:GLU:H	2.00	0.69
52:BT:28:VAL:HG22	52:BT:46:GLU:CA	2.23	0.69
1:CA:35:G:H2'	1:CA:36:C:C6	2.27	0.69
1:CA:66:G:H4'	1:CA:173:U:C5	2.27	0.69
4:CD:98:GLU:CG	4:CD:189:PRO:HG3	2.21	0.69
10:CJ:71:LEU:HD12	10:CJ:72:VAL:H	1.57	0.69
11:CK:126:ARG:O	11:CK:128:ALA:N	2.26	0.69
15:CO:80:ALA:HB1	15:CO:84:LYS:HE2	1.73	0.69
26:D1:56:GLN:HE22	26:D1:87:PRO:HB3	1.57	0.69
35:DA:566:U:O2'	35:DA:567:A:H5'	1.91	0.69
35:DA:1607:C:H4'	35:DA:1608:A:O5'	1.92	0.69
35:DA:2133:G:C2'	35:DA:2157:G:H22	2.02	0.69
36:DB:77:U:OP1	58:DZ:19:ARG:NH2	2.25	0.69
37:DC:74:ARG:H	37:DC:112:ASP:HB2	1.57	0.69
38:DD:261:LYS:HZ2	38:DD:263:ARG:HH12	1.38	0.69
39:DE:81:ILE:HG22	39:DE:81:ILE:O	1.90	0.69
41:DG:110:ALA:HB1	41:DG:140:ILE:HD13	1.75	0.69
42:DH:171:LEU:HD23	42:DH:172:LYS:O	1.90	0.69
51:DS:17:ARG:O	51:DS:20:ARG:HG2	1.90	0.69
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.27	0.69
1:AA:1473:A:O2'	1:AA:1474:G:H5'	1.92	0.69
7:AG:89:MET:HE1	7:AG:156:TRP:OXT	1.92	0.69
12:AL:18:VAL:HG23	12:AL:19:ARG:N	2.05	0.69
25:B0:7:LEU:HD22	49:BQ:81:VAL:HG23	1.74	0.69
35:BA:528:A:H2	35:BA:2043:C:H4'	1.56	0.69
35:BA:825:C:O2'	35:BA:826:U:H5'	1.92	0.69
35:BA:962:G:O2'	35:BA:963:U:H5'	1.92	0.69
37:BC:115:VAL:HG12	37:BC:145:THR:HG23	1.74	0.69
38:BD:35:LYS:HD2	38:BD:36:PRO:CA	2.22	0.69
38:BD:153:ALA:O	38:BD:154:LYS:HG3	1.93	0.69
38:BD:261:LYS:HZ2	38:BD:263:ARG:HH12	1.39	0.69
42:BH:137:ASP:HB2	42:BH:140:LYS:HD2	1.74	0.69
52:BT:28:VAL:HG13	52:BT:46:GLU:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.57	0.69
25:D0:7:LEU:HD22	49:DQ:81:VAL:HG23	1.75	0.69
26:D1:58:ILE:HD11	26:D1:91:LYS:HB2	1.74	0.69
28:D3:40:THR:OG1	28:D3:43:ILE:HG12	1.92	0.69
35:DA:1053:C:C2'	35:DA:1054:A:H5''	2.22	0.69
35:DA:1582:C:H2'	35:DA:1583:A:H8	1.56	0.69
35:DA:1787:A:H5''	35:DA:1788:C:OP2	1.92	0.69
35:DA:2174:C:H1'	37:DC:219:MET:HE1	1.74	0.69
35:DA:2761:G:C3'	35:DA:2762:G:H5''	2.22	0.69
43:DJ:13:UNK:C	43:DJ:15:UNK:H	2.05	0.69
47:DO:76:ALA:HB3	52:DT:75:ILE:HB	1.73	0.69
47:DO:115:VAL:HG13	47:DO:121:VAL:HG21	1.72	0.69
49:DQ:3:MET:HB2	49:DQ:4:PRO:HD2	1.75	0.69
50:DR:2:ARG:CD	50:DR:5:LYS:HE2	2.23	0.69
1:AA:35:G:H2'	1:AA:36:C:C6	2.28	0.69
1:AA:731:G:OP1	1:AA:766:A:H1'	1.93	0.69
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.06	0.69
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.02	0.69
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.75	0.69
6:AF:71:ARG:HG3	6:AF:71:ARG:HH11	1.57	0.69
19:AS:20:LEU:HA	19:AS:23:ASN:HB2	1.74	0.69
35:BA:88:G:OP1	35:BA:90:U:H5	1.74	0.69
35:BA:965:C:H5'	35:BA:2273:A:C1'	2.21	0.69
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.28	0.69
35:BA:2262:U:C2'	35:BA:2263:C:H5'	2.22	0.69
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.27	0.69
39:BE:78:LEU:O	39:BE:79:ARG:HD2	1.91	0.69
41:BG:95:ARG:O	41:BG:96:ARG:O	2.10	0.69
47:BO:69:ILE:HD12	47:BO:69:ILE:N	2.08	0.69
48:BP:84:ASN:HA	48:BP:115:LEU:O	1.92	0.69
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD2	1.56	0.69
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	2.08	0.69
10:CJ:13:HIS:O	10:CJ:17:ASP:HB2	1.93	0.69
21:CU:23:PRO:C	21:CU:25:LYS:H	2.00	0.69
24:CY:84:THR:N	24:CY:85:PRO:HD3	2.05	0.69
32:D7:8:ASN:HD22	32:D7:9:ARG:N	1.89	0.69
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.20	0.69
42:DH:137:ASP:HB2	42:DH:140:LYS:HD2	1.75	0.69
56:DX:41:ASN:C	56:DX:43:VAL:H	2.00	0.69
1:AA:50:A:N6	1:AA:361:G:H4'	2.08	0.69
2:AB:223:ILE:HA	2:AB:226:ARG:NE	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:671:C:O2'	35:BA:672:C:H5'	1.92	0.69
35:BA:2236:C:H2'	35:BA:2237:G:O4'	1.93	0.69
35:BA:2801(A):A:H4'	35:BA:2802:G:C8	2.28	0.69
37:BC:29:LEU:O	37:BC:32:GLU:HG2	1.93	0.69
38:BD:27:THR:HG21	38:BD:83:GLU:HG2	1.72	0.69
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	1.74	0.69
53:BU:83:LEU:H	53:BU:83:LEU:CD1	2.06	0.69
55:BW:10:VAL:HG23	55:BW:101:SER:O	1.93	0.69
2:CB:107:THR:HA	2:CB:110:GLN:HE21	1.57	0.69
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.73	0.69
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.73	0.69
24:CY:90:PHE:HZ	61:CY:702:FUA:H121	1.57	0.69
24:CY:281:PRO:HB2	24:CY:286:ILE:HD11	1.74	0.69
25:D0:40:GLN:HE22	25:D0:43:THR:HA	1.57	0.69
30:D5:4:HIS:O	35:DA:2056:G:N2	2.25	0.69
35:DA:395:U:H2'	35:DA:396:G:N7	2.06	0.69
38:DD:172:TYR:CD1	38:DD:186:HIS:HA	2.27	0.69
40:DF:32:LEU:HD23	40:DF:32:LEU:C	2.17	0.69
53:DU:95:LEU:HD12	54:DV:11:GLN:HG3	1.75	0.69
1:AA:1490:C:H6	1:AA:1490:C:C5'	2.06	0.69
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.74	0.69
18:AR:58:LEU:HB3	18:AR:62:GLU:HB3	1.73	0.69
24:AY:71:THR:HG22	24:AY:80:ASN:OD1	1.93	0.69
25:B0:19:LYS:HD3	25:B0:41:ARG:HH22	1.56	0.69
31:B6:6:ARG:O	31:B6:7:ILE:HB	1.92	0.69
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.56	0.69
35:BA:176:G:O2'	35:BA:177:G:H5'	1.93	0.69
35:BA:582:G:H2'	35:BA:583:G:H8	1.58	0.69
41:BG:131:TYR:HE2	41:BG:133:LEU:HB3	1.57	0.69
50:BR:10:LEU:HB3	50:BR:17:ARG:CD	2.22	0.69
50:BR:87:TYR:C	50:BR:89:ASP:H	1.99	0.69
58:BZ:30:ASN:ND2	58:BZ:31:ARG:HG3	2.08	0.69
1:CA:491:G:H2'	1:CA:492:G:H8	1.58	0.69
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.73	0.69
3:CC:70:VAL:HG12	3:CC:72:LYS:N	2.00	0.69
7:CG:120:ILE:HG22	7:CG:124:LEU:HD12	1.72	0.69
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.23	0.69
19:CS:15:LEU:HD21	19:CS:33:THR:OG1	1.92	0.69
24:CY:616:TYR:HE2	24:CY:664:GLN:HE21	1.40	0.69
35:DA:614(A):U:H4'	35:DA:614(B):G:C5'	2.21	0.69
38:DD:130:ALA:C	38:DD:131:LEU:HD12	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:20:LEU:HD23	40:DF:21:ALA:N	2.08	0.69
41:DG:16:ARG:O	41:DG:20:ILE:HG13	1.93	0.69
41:DG:75:LYS:O	41:DG:76:SER:HB3	1.92	0.69
48:DP:62:LEU:CD2	48:DP:62:LEU:H	2.06	0.69
51:DS:97:ARG:C	51:DS:97:ARG:HE	2.01	0.69
52:DT:129:ARG:O	52:DT:131:ALA:N	2.21	0.69
55:DW:33:ARG:O	55:DW:37:ARG:HB2	1.92	0.69
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.28	0.69
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.57	0.69
1:AA:1226:C:H5'	13:AM:96:LEU:HD13	1.74	0.69
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.27	0.69
19:AS:51:VAL:O	19:AS:58:VAL:HG22	1.93	0.69
20:AT:49:ALA:HB1	20:AT:99:LEU:HG	1.73	0.69
22:AW:2:G:H1	22:AW:72:C:H42	1.40	0.69
22:AW:10:G:H2'	22:AW:11:A:H8	1.57	0.69
24:AY:261:GLY:HA3	24:AY:267:LYS:O	1.93	0.69
24:AY:272:LEU:O	24:AY:275:ALA:HB3	1.92	0.69
24:AY:416:LYS:HD3	24:AY:417:THR:H	1.56	0.69
24:AY:554:PRO:HG3	24:AY:594:VAL:HG12	1.74	0.69
24:AY:555:LEU:HD11	24:AY:599:PRO:HB2	1.75	0.69
29:B4:12:ALA:CB	29:B4:29:PRO:HA	2.23	0.69
30:B5:45:VAL:HG22	30:B5:51:TYR:CE1	2.28	0.69
31:B6:45:LYS:HD3	35:BA:2371:G:O3'	1.93	0.69
35:BA:365:C:H5'	35:BA:365:C:H6	1.58	0.69
35:BA:528:A:C2	35:BA:2043:C:H4'	2.27	0.69
35:BA:910:A:C5	49:BQ:13:GLN:HG3	2.27	0.69
35:BA:2012:G:C4'	55:BW:96:ILE:HD11	2.15	0.69
35:BA:2415:G:O3'	48:BP:66:GLY:HA3	1.91	0.69
36:BB:20:C:O2'	36:BB:21:G:H5''	1.92	0.69
37:BC:29:LEU:C	37:BC:29:LEU:HD23	2.17	0.69
39:BE:179:GLU:HB3	39:BE:181:LEU:HD23	1.73	0.69
40:BF:154:VAL:HG11	40:BF:193:VAL:HG23	1.75	0.69
41:BG:32:PRO:HA	41:BG:162:THR:HB	1.75	0.69
44:BK:17:ALA:O	44:BK:35:MET:HE1	1.93	0.69
1:CA:1310:G:O2'	1:CA:1311:G:H5'	1.93	0.69
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.56	0.69
5:CE:20:GLN:O	5:CE:21:ALA:C	2.36	0.69
8:CH:10:LEU:HD22	8:CH:83:ILE:HD11	1.73	0.69
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.57	0.69
12:CL:23:LYS:O	12:CL:24:VAL:HG23	1.92	0.69
14:CN:27:CYS:SG	14:CN:29:ARG:HB2	2.31	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:29:PHE:N	18:CR:29:PHE:CD2	2.56	0.69
20:CT:12:ALA:O	20:CT:15:ARG:HB2	1.93	0.69
20:CT:93:GLU:C	20:CT:95:ALA:H	2.01	0.69
24:CY:157:LEU:H	24:CY:157:LEU:CD2	2.05	0.69
24:CY:210:ARG:HH11	24:CY:210:ARG:HG2	1.56	0.69
24:CY:228:MET:O	24:CY:231:TYR:HB3	1.93	0.69
24:CY:612:THR:C	24:CY:640:ALA:HB1	2.17	0.69
30:D5:45:VAL:HG22	30:D5:51:TYR:CE1	2.28	0.69
35:DA:272(I):U:H3'	35:DA:272(I):U:O2	1.93	0.69
35:DA:582:G:H2'	35:DA:583:G:H8	1.56	0.69
35:DA:1099:G:H2'	35:DA:1100:C:O4'	1.93	0.69
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.74	0.69
35:DA:2236:C:H2'	35:DA:2237:G:O4'	1.93	0.69
35:DA:2524:G:H5'	35:DA:2524:G:C8	2.25	0.69
35:DA:2753:A:O2'	35:DA:2754:U:H5'	1.92	0.69
37:DC:29:LEU:O	37:DC:32:GLU:HG2	1.93	0.69
37:DC:78:ILE:O	37:DC:120:VAL:HG21	1.93	0.69
37:DC:84:ILE:O	37:DC:95:VAL:HG11	1.93	0.69
38:DD:27:THR:HG21	38:DD:83:GLU:HG2	1.72	0.69
38:DD:106:ILE:HD11	38:DD:196:VAL:HG13	1.75	0.69
41:DG:41:GLN:HG2	41:DG:155:MET:HB3	1.73	0.69
42:DH:43:VAL:CG1	42:DH:52:VAL:HA	2.22	0.69
46:DN:45:ASN:HD22	46:DN:45:ASN:N	1.86	0.69
55:DW:78:GLU:OE2	55:DW:99:ARG:HD2	1.93	0.69
55:DW:82:LEU:HD12	55:DW:82:LEU:N	2.07	0.69
57:DY:51:VAL:C	57:DY:53:PRO:HD2	2.17	0.69
58:DZ:10:ARG:NH2	58:DZ:26:GLY:N	2.40	0.69
1:AA:627:G:O2'	1:AA:628:G:H5'	1.93	0.69
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.56	0.69
24:AY:539:ILE:HA	24:AY:542:VAL:HG12	1.74	0.69
35:BA:184:C:H2'	35:BA:185:U:C6	2.27	0.69
35:BA:2105:C:H42	35:BA:2184:G:H1	1.40	0.69
38:BD:27:THR:HG23	38:BD:83:GLU:HG2	1.74	0.69
38:BD:123:ALA:HB3	38:BD:131:LEU:HG	1.75	0.69
49:BQ:3:MET:HB2	49:BQ:4:PRO:HD2	1.75	0.69
56:BX:12:VAL:HB	56:BX:17:ALA:CB	2.12	0.69
57:BY:31:LEU:HB2	57:BY:32:PRO:HA	1.73	0.69
1:CA:627:G:O2'	1:CA:628:G:H5'	1.91	0.69
1:CA:1226:C:H5'	13:CM:96:LEU:HD13	1.74	0.69
2:CB:222:ILE:HB	2:CB:226:ARG:HH21	1.57	0.69
10:CJ:16:LEU:HD13	10:CJ:16:LEU:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:23:ALA:HB1	11:CK:88:GLY:HA3	1.73	0.69
19:CS:13:ASP:C	19:CS:15:LEU:H	2.01	0.69
24:CY:103:GLY:O	24:CY:104:ALA:HB2	1.92	0.69
25:D0:19:LYS:HD3	25:D0:41:ARG:HH22	1.58	0.69
25:D0:73:GLY:O	25:D0:75:LEU:N	2.23	0.69
27:D2:33:MET:O	27:D2:37:PHE:HB2	1.92	0.69
35:DA:1010:A:H1'	35:DA:1153:C:H1'	1.75	0.69
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.92	0.69
35:DA:1779:U:C5	35:DA:1784:A:N7	2.58	0.69
36:DB:20:C:O2'	36:DB:21:G:H5''	1.92	0.69
38:DD:91:ARG:HG2	38:DD:91:ARG:NH1	2.04	0.69
12:AL:17:LYS:HD3	12:AL:18:VAL:HG22	1.74	0.69
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.93	0.69
19:AS:6:LYS:H	19:AS:6:LYS:CE	2.05	0.69
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	2.23	0.69
35:BA:1504:C:H2'	35:BA:1505:C:H5''	1.74	0.69
40:BF:43:LYS:HA	40:BF:98:SER:HB3	1.74	0.69
41:BG:67:LYS:HD3	41:BG:68:PRO:N	2.08	0.69
41:BG:138:GLN:OE1	41:BG:153:ARG:HG2	1.92	0.69
50:BR:2:ARG:CD	50:BR:5:LYS:HE2	2.23	0.69
1:CA:1325:C:H2'	1:CA:1326:C:H6	1.56	0.69
3:CC:148:GLY:HA3	3:CC:172:ARG:O	1.92	0.69
3:CC:150:LYS:HB2	3:CC:169:ALA:HB1	1.75	0.69
4:CD:160:GLN:O	4:CD:163:GLU:HB3	1.91	0.69
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.08	0.69
19:CS:44:MET:N	19:CS:44:MET:SD	2.66	0.69
26:D1:19:GLN:O	26:D1:35:THR:HG22	1.92	0.69
26:D1:76:ARG:NH2	26:D1:95:LEU:HB2	2.08	0.69
35:DA:419:C:H2'	35:DA:420:C:H6	1.56	0.69
35:DA:2262:U:C2'	35:DA:2263:C:C5'	2.71	0.69
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.22	0.69
40:DF:187:VAL:HG13	48:DP:5:ASP:O	1.92	0.69
40:DF:195:ASP:OD1	40:DF:196:LEU:N	2.22	0.69
51:DS:74:ALA:HB1	51:DS:103:GLU:HB2	1.74	0.69
1:AA:975:A:H5'	1:AA:975:A:C8	2.28	0.68
1:AA:1358:U:P	14:AN:35:ARG:HG3	2.33	0.68
13:AM:78:ILE:O	13:AM:82:MET:HG2	1.93	0.68
20:AT:73:HIS:H	20:AT:76:ALA:HB3	1.56	0.68
24:AY:12:LEU:O	24:AY:283:PRO:HD3	1.92	0.68
31:B6:30:THR:O	31:B6:32:ASN:N	2.25	0.68
33:B8:56:GLU:O	33:B8:59:LYS:HE3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:1:MET:O	34:B9:34:GLN:HG2	1.93	0.68
35:BA:2753:A:O2'	35:BA:2754:U:H5'	1.93	0.68
40:BF:20:LEU:HD23	40:BF:21:ALA:N	2.08	0.68
41:BG:111:LEU:HA	41:BG:114:ILE:CD1	2.22	0.68
48:BP:59:LEU:HA	48:BP:61:ARG:CZ	2.22	0.68
52:BT:23:ARG:HB2	52:BT:24:PRO:HD2	1.75	0.68
52:BT:45:PHE:CE2	52:BT:74:ARG:HB2	2.28	0.68
58:BZ:120:ILE:O	58:BZ:121:HIS:HB2	1.93	0.68
58:BZ:137:ILE:HG21	58:BZ:155:LEU:HD12	1.75	0.68
1:CA:460:G:H5'	1:CA:461:A:OP2	1.93	0.68
13:CM:23:TYR:HB3	13:CM:67:GLU:HB3	1.75	0.68
13:CM:78:ILE:O	13:CM:82:MET:HG2	1.94	0.68
24:CY:392:GLU:HG3	24:CY:393:ASP:OD1	1.93	0.68
27:D2:55:ARG:O	27:D2:58:ALA:HB3	1.92	0.68
35:DA:1345:C:O2'	35:DA:1346:G:H5'	1.94	0.68
35:DA:2439:A:H2'	35:DA:2439:A:N3	2.07	0.68
35:DA:2801(A):A:H4'	35:DA:2802:G:C8	2.28	0.68
40:DF:157:VAL:HG21	40:DF:194:MET:HG2	1.74	0.68
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.75	0.68
54:DV:24:LYS:HA	54:DV:92:THR:HG23	1.73	0.68
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.73	0.68
1:AA:697:U:C2'	1:AA:698:G:H5'	2.23	0.68
4:AD:162:LEU:HD11	4:AD:181:MET:HG2	1.73	0.68
24:AY:252:ASP:O	24:AY:254:LYS:HE3	1.93	0.68
24:AY:491:VAL:HG11	24:AY:596:LYS:HD3	1.75	0.68
27:B2:66:GLU:O	27:B2:69:ARG:HG2	1.93	0.68
35:BA:1378:A:H4'	35:BA:1379:A:OP1	1.92	0.68
35:BA:2393:A:H5''	48:BP:62:LEU:HB3	1.73	0.68
42:BH:67:LEU:O	42:BH:71:LEU:HD12	1.93	0.68
49:BQ:35:VAL:HG23	49:BQ:101:ARG:O	1.92	0.68
50:BR:72:ASP:OD1	50:BR:75:LEU:HB2	1.93	0.68
52:BT:75:ILE:HD12	52:BT:75:ILE:N	2.08	0.68
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.09	0.68
9:CI:104:ARG:O	9:CI:105:ASP:HB3	1.92	0.68
11:CK:122:LYS:O	11:CK:124:LYS:N	2.26	0.68
40:DF:53:THR:HG22	40:DF:56:GLU:CG	2.17	0.68
50:DR:55:ALA:HA	50:DR:80:PHE:CE2	2.29	0.68
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.28	0.68
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	1.74	0.68
32:B7:6:GLN:O	35:BA:686:G:H1'	1.92	0.68
35:BA:1120:G:H2'	35:BA:1121:C:C6	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2068:U:N3	35:BA:2430:A:C2	2.61	0.68
35:BA:2122:U:H2'	35:BA:2123:G:H8	1.57	0.68
38:BD:61:LEU:O	38:BD:63:ARG:NH1	2.26	0.68
51:BS:17:ARG:O	51:BS:20:ARG:HG2	1.92	0.68
52:BT:57:PHE:O	52:BT:59:THR:HG23	1.92	0.68
24:CY:91:THR:O	24:CY:93:GLU:N	2.26	0.68
24:CY:316:ILE:HD12	24:CY:326:THR:HG22	1.74	0.68
31:D6:30:THR:O	31:D6:32:ASN:N	2.26	0.68
31:D6:37:ARG:NH2	35:DA:2286:A:H62	1.90	0.68
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	1.75	0.68
48:DP:101:VAL:HG12	48:DP:106:LEU:HB3	1.75	0.68
3:AC:123:GLN:HB3	3:AC:128:PHE:HD2	1.57	0.68
12:AL:70:ILE:HD12	12:AL:75:HIS:CD2	2.28	0.68
24:AY:343:ASN:HD21	24:AY:345:THR:HB	1.57	0.68
31:B6:15:GLU:HG3	31:B6:47:THR:HG21	1.76	0.68
35:BA:654:A:N7	35:BA:654(V):A:H4'	2.08	0.68
35:BA:1053:C:C2'	35:BA:1054:A:H5''	2.24	0.68
35:BA:1099:G:H2'	35:BA:1100:C:O4'	1.94	0.68
35:BA:1779:U:C5	35:BA:1784:A:N7	2.61	0.68
35:BA:2464:C:HO2'	35:BA:2465:C:H6	1.41	0.68
41:BG:57:ALA:O	41:BG:68:PRO:HG2	1.93	0.68
41:BG:173:LEU:HA	41:BG:176:LEU:HD12	1.74	0.68
51:BS:28:VAL:HG12	51:BS:29:PHE:N	2.07	0.68
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.76	0.68
57:BY:81:LYS:HD3	57:BY:97:ARG:O	1.92	0.68
1:CA:474:G:H2'	1:CA:475:G:H8	1.58	0.68
1:CA:793:U:C3'	1:CA:794:A:H5''	2.19	0.68
5:CE:91:LEU:HD13	5:CE:120:THR:CG2	2.24	0.68
31:D6:37:ARG:HH22	35:DA:2286:A:H62	1.41	0.68
33:D8:23:VAL:HG12	33:D8:46:ARG:HH11	1.57	0.68
35:DA:389:G:H1	48:DP:71:VAL:HG12	1.58	0.68
35:DA:733:G:H8	35:DA:733:G:O5'	1.75	0.68
35:DA:940:G:H3'	35:DA:941:A:H5''	1.75	0.68
35:DA:1223:G:C3'	35:DA:1224:C:H5''	2.23	0.68
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.58	0.68
40:DF:154:VAL:HG11	40:DF:193:VAL:HG23	1.76	0.68
51:DS:64:GLU:CD	51:DS:64:GLU:H	2.02	0.68
52:DT:24:PRO:HD3	52:DT:52:ILE:CD1	2.24	0.68
53:DU:20:LEU:H	53:DU:20:LEU:CD2	2.06	0.68
57:DY:84:ARG:HG2	57:DY:84:ARG:HH11	1.59	0.68
58:DZ:81:ARG:HB3	58:DZ:81:ARG:CZ	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:118:LEU:CB	2:AB:142:LEU:HD12	2.23	0.68
4:AD:98:GLU:CG	4:AD:189:PRO:HG3	2.24	0.68
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	1.94	0.68
26:B1:80:LEU:CD2	26:B1:81:LYS:H	2.04	0.68
28:B3:28:LEU:HA	28:B3:33:GLN:OE1	1.94	0.68
35:BA:900:A:H5'	35:BA:900:A:H8	1.59	0.68
35:BA:1242:A:N1	48:BP:8:PRO:HG2	2.08	0.68
35:BA:2761:G:C3'	35:BA:2762:G:H5''	2.22	0.68
41:BG:34:LEU:HB2	41:BG:99:MET:HE1	1.74	0.68
41:BG:34:LEU:HD11	41:BG:100:TRP:CH2	2.28	0.68
41:BG:116:ASP:O	41:BG:117:PHE:HB3	1.94	0.68
41:BG:131:TYR:HB3	41:BG:159:VAL:CG1	2.24	0.68
46:BN:65:LYS:HB3	46:BN:65:LYS:HZ2	1.58	0.68
54:BV:6:LYS:O	54:BV:37:VAL:HG21	1.94	0.68
56:BX:41:ASN:C	56:BX:43:VAL:H	2.01	0.68
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.33	0.68
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.74	0.68
10:CJ:92:THR:HG23	10:CJ:93:GLY:H	1.57	0.68
11:CK:59:TYR:CE2	11:CK:63:LEU:HD11	2.28	0.68
12:CL:34:ARG:O	12:CL:61:THR:HG23	1.93	0.68
12:CL:75:HIS:HD2	12:CL:77:LEU:HD12	1.59	0.68
24:CY:114:VAL:O	24:CY:114:VAL:HG13	1.94	0.68
24:CY:226:ASN:C	24:CY:228:MET:H	2.02	0.68
24:CY:238:THR:HG22	24:CY:241:GLU:HG2	1.74	0.68
29:D4:2:LYS:HB2	36:DB:40:U:O4	1.93	0.68
35:DA:2262:U:C2'	35:DA:2263:C:H5'	2.24	0.68
35:DA:2307:G:N2	35:DA:2308:G:H5''	2.07	0.68
38:DD:71:ASP:HB2	38:DD:103:ARG:NH2	2.01	0.68
38:DD:76:PRO:HG2	38:DD:98:VAL:HG21	1.76	0.68
39:DE:179:GLU:HB3	39:DE:181:LEU:HD23	1.74	0.68
50:DR:7:GLY:O	50:DR:8:ARG:HB2	1.92	0.68
57:DY:27:VAL:HG12	57:DY:29:GLU:H	1.59	0.68
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ1	1.57	0.68
1:AA:1298:C:H2'	1:AA:1298:C:O2	1.92	0.68
2:AB:19:HIS:O	2:AB:20:GLU:O	2.12	0.68
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.74	0.68
11:AK:23:ALA:HB1	11:AK:88:GLY:HA3	1.76	0.68
22:AV:3:C:H2'	22:AV:4:G:H5'	1.76	0.68
27:B2:38:GLN:O	27:B2:41:ILE:HG12	1.93	0.68
35:BA:272(I):U:O2	35:BA:272(I):U:H3'	1.93	0.68
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:170:LEU:H	39:BE:170:LEU:HD12	1.58	0.68
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.18	0.68
41:BG:60:LEU:C	41:BG:63:ILE:HD11	2.17	0.68
58:BZ:109:ALA:C	58:BZ:111:VAL:H	1.98	0.68
1:CA:176:C:H2'	1:CA:177:C:H6	1.59	0.68
3:CC:137:ALA:HA	3:CC:140:ARG:NH2	2.08	0.68
4:CD:10:ARG:O	4:CD:13:ARG:HB2	1.93	0.68
24:CY:339:SER:HB2	24:CY:352:VAL:CG1	2.24	0.68
27:D2:2:LYS:O	27:D2:6:VAL:HG23	1.94	0.68
31:D6:15:GLU:CD	31:D6:44:ARG:NH1	2.52	0.68
33:D8:50:LEU:C	33:D8:53:PRO:HD2	2.19	0.68
35:DA:528:A:C2	35:DA:2043:C:H4'	2.28	0.68
35:DA:528:A:H2	35:DA:2043:C:H4'	1.57	0.68
35:DA:2393:A:H5''	48:DP:62:LEU:HB3	1.76	0.68
38:DD:146:GLU:HG2	38:DD:152:GLY:C	2.19	0.68
40:DF:178:PRO:HG2	40:DF:179:GLU:OE1	1.93	0.68
47:DO:2:ILE:HD11	47:DO:82:ASN:HD22	1.59	0.68
52:DT:45:PHE:CE2	52:DT:74:ARG:HB2	2.28	0.68
52:DT:75:ILE:HD12	52:DT:75:ILE:N	2.09	0.68
58:DZ:132:ASN:O	58:DZ:133:ILE:HD13	1.92	0.68
1:AA:376:G:H2'	1:AA:377:G:H8	1.59	0.68
1:AA:1234:C:O2'	1:AA:1235:U:H5'	1.94	0.68
3:AC:34:LEU:HD22	3:AC:38:ARG:HD2	1.74	0.68
16:AP:8:ARG:HB3	16:AP:28:ARG:NH1	2.09	0.68
19:AS:13:ASP:C	19:AS:15:LEU:H	2.02	0.68
22:AV:17:C:H6	22:AV:17(A):U:C5	2.11	0.68
24:AY:113:GLY:C	24:AY:115:GLU:N	2.48	0.68
24:AY:121:VAL:HG23	24:AY:122:TRP:N	2.09	0.68
30:B5:4:HIS:O	35:BA:2056:G:N2	2.26	0.68
35:BA:191:A:H2'	35:BA:192:C:C6	2.29	0.68
35:BA:279:C:C2'	35:BA:280:C:H5''	2.24	0.68
35:BA:1542:A:H5'	35:BA:1543:C:OP2	1.93	0.68
35:BA:1656:C:H2'	35:BA:1657:C:H6	1.58	0.68
35:BA:2307:G:N2	35:BA:2308:G:H5''	2.08	0.68
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.76	0.68
57:BY:84:ARG:HH11	57:BY:84:ARG:HG2	1.58	0.68
58:BZ:150:LEU:HD23	58:BZ:150:LEU:N	2.09	0.68
1:CA:183:G:H2'	1:CA:184:G:C8	2.29	0.68
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.28	0.68
2:CB:223:ILE:HA	2:CB:226:ARG:NE	2.08	0.68
3:CC:35:GLU:O	3:CC:38:ARG:HG2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:162:LEU:HD11	4:CD:181:MET:HG2	1.75	0.68
12:CL:113:ARG:HD2	12:CL:115:LYS:H	1.58	0.68
13:CM:37:THR:HG21	13:CM:56:LEU:HD22	1.75	0.68
18:CR:87:ARG:HB3	18:CR:87:ARG:NH1	2.09	0.68
24:CY:265:LYS:O	24:CY:267:LYS:HG3	1.93	0.68
24:CY:381:LYS:HD2	24:CY:381:LYS:N	2.07	0.68
61:CY:702:FUA:O1	61:CY:702:FUA:H12	1.93	0.68
35:DA:191:A:H2'	35:DA:192:C:C6	2.29	0.68
35:DA:548:A:C2'	35:DA:549:G:H5'	2.24	0.68
35:DA:654(M):C:O2'	35:DA:654(N):G:H8	1.77	0.68
35:DA:2039:C:H2'	35:DA:2040:C:C6	2.29	0.68
35:DA:2631:G:N2	39:DE:61:ARG:HH12	1.91	0.68
41:DG:141:PHE:HB2	41:DG:144:ILE:HG22	1.74	0.68
42:DH:67:LEU:O	42:DH:71:LEU:HD12	1.94	0.68
42:DH:86:GLU:CB	42:DH:132:ARG:HB3	2.24	0.68
44:DK:17:ALA:O	44:DK:35:MET:HE1	1.93	0.68
46:DN:21:LYS:HB3	46:DN:26:LEU:HD23	1.76	0.68
48:DP:23:PRO:HB2	48:DP:33:ARG:CG	2.23	0.68
50:DR:30:THR:OG1	50:DR:75:LEU:HD21	1.93	0.68
1:AA:1014:A:H4'	19:AS:14:HIS:ND1	2.09	0.68
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	1.93	0.68
1:AA:1442:G:H1	1:AA:1461:G:H21	1.42	0.68
13:AM:15:VAL:O	13:AM:19:LEU:HD23	1.94	0.68
22:AV:61:C:O2'	22:AV:62:C:H5'	1.94	0.68
23:AX:19:U:C5'	24:AY:504:ARG:HB3	2.23	0.68
35:BA:85:G:OP1	57:BY:30:VAL:HB	1.93	0.68
35:BA:1058:G:N2	35:BA:1081:U:H1'	2.08	0.68
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.74	0.68
41:BG:42:GLY:O	41:BG:44:GLY:N	2.25	0.68
46:BN:102:ALA:O	46:BN:106:MET:HE2	1.93	0.68
50:BR:55:ALA:HA	50:BR:80:PHE:CE2	2.29	0.68
57:BY:31:LEU:N	57:BY:31:LEU:HD22	2.09	0.68
1:CA:1358:U:OP1	14:CN:35:ARG:HG3	1.94	0.68
5:CE:7:GLU:HG2	5:CE:112:LEU:CD2	2.23	0.68
16:CP:60:LEU:HA	16:CP:64:ALA:HB3	1.76	0.68
24:CY:84:THR:HA	61:CY:702:FUA:C32	2.21	0.68
24:CY:424:LEU:HD12	24:CY:427:ALA:HB3	1.76	0.68
35:DA:756:C:O2'	35:DA:757:U:H5'	1.94	0.68
35:DA:1541:G:H4'	35:DA:1542:A:C5'	2.24	0.68
35:DA:1599:C:H2'	35:DA:1600:C:H6	1.58	0.68
35:DA:2105:C:H42	35:DA:2184:G:H1	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:28:ARG:HG2	37:DC:183:PRO:HB3	1.76	0.68
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.75	0.68
48:DP:58:THR:O	48:DP:61:ARG:NE	2.19	0.68
48:DP:79:ARG:O	48:DP:111:ARG:HB2	1.93	0.68
48:DP:84:ASN:HA	48:DP:115:LEU:O	1.93	0.68
5:AE:101:ILE:HD13	5:AE:118:ILE:O	1.94	0.68
19:AS:58:VAL:O	19:AS:58:VAL:HG23	1.93	0.68
24:AY:92:ILE:HG21	24:AY:454:MET:HE1	1.76	0.68
24:AY:367:GLU:HG2	24:AY:367:GLU:O	1.94	0.68
26:B1:84:GLY:O	26:B1:86:SER:N	2.27	0.68
35:BA:606:U:H2'	35:BA:606:U:O2	1.93	0.68
39:BE:48:GLN:HE21	39:BE:78:LEU:HD22	1.59	0.68
42:BH:86:GLU:CB	42:BH:132:ARG:HB3	2.24	0.68
46:BN:3:THR:HG22	46:BN:4:TYR:N	2.09	0.68
53:BU:107:ALA:HA	53:BU:110:VAL:CG2	2.24	0.68
1:CA:793:U:H3'	1:CA:794:A:C5'	2.21	0.68
1:CA:1324:A:H2'	1:CA:1325:C:C6	2.28	0.68
4:CD:24:GLU:O	4:CD:27:TYR:HB2	1.94	0.68
21:CU:2:GLY:O	21:CU:4:GLY:N	2.26	0.68
24:CY:487:ILE:HB	24:CY:597:GLY:O	1.94	0.68
31:D6:11:LEU:HG	31:D6:26:ASN:ND2	2.09	0.68
35:DA:612:C:H2'	35:DA:613:G:C5'	2.13	0.68
35:DA:631:A:OP1	48:DP:64:LYS:HE2	1.94	0.68
35:DA:900:A:H8	35:DA:900:A:H5'	1.59	0.68
35:DA:2720:U:H2'	35:DA:2721:A:H8	1.57	0.68
40:DF:4:VAL:HG13	40:DF:19:GLU:OE2	1.93	0.68
41:DG:98:ARG:HG2	41:DG:98:ARG:HH11	1.59	0.68
48:DP:7:ARG:CB	48:DP:8:PRO:HD3	2.23	0.68
52:DT:129:ARG:O	52:DT:129:ARG:HG2	1.93	0.68
58:DZ:7:ALA:CB	58:DZ:61:LEU:HD23	2.23	0.68
3:AC:82:GLU:O	3:AC:86:VAL:HG13	1.93	0.68
11:AK:108:ILE:HD12	11:AK:108:ILE:N	2.08	0.68
24:AY:21:ILE:O	24:AY:22:ASP:HB2	1.93	0.68
24:AY:39:ILE:HG23	24:AY:41:LYS:HE3	1.75	0.68
24:AY:309:LEU:O	24:AY:390:VAL:HA	1.93	0.68
25:B0:7:LEU:CD1	49:BQ:85:LYS:HE2	2.22	0.68
26:B1:82:LEU:O	26:B1:83:GLU:HG3	1.94	0.68
35:BA:2720:U:H2'	35:BA:2721:A:H8	1.57	0.68
38:BD:35:LYS:O	38:BD:36:PRO:C	2.37	0.68
40:BF:107:LYS:O	40:BF:110:LEU:N	2.27	0.68
48:BP:23:PRO:HB2	48:BP:33:ARG:CG	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:129:ARG:HG2	52:BT:129:ARG:O	1.92	0.68
1:CA:332:G:H2'	1:CA:333:G:H8	1.60	0.68
1:CA:376:G:H2'	1:CA:377:G:H8	1.59	0.68
1:CA:1358:U:P	14:CN:35:ARG:HG3	2.34	0.68
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.76	0.68
11:CK:84:VAL:HG11	11:CK:95:ILE:HD11	1.76	0.68
30:D5:2:ALA:N	35:DA:2014:A:HO2'	1.92	0.68
30:D5:44:THR:HG22	30:D5:45:VAL:N	2.09	0.68
31:D6:15:GLU:HG3	31:D6:47:THR:HG21	1.75	0.68
35:DA:739:G:H4'	35:DA:740:U:OP1	1.94	0.68
35:DA:1395:A:H4'	35:DA:1397:U:C5	2.29	0.68
35:DA:1697:G:H3'	35:DA:1698:A:H5''	1.75	0.68
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.29	0.68
35:DA:2308:G:N2	41:DG:79:ASN:HB2	2.09	0.68
35:DA:2476:A:N1	35:DA:2477:C:C5	2.62	0.68
39:DE:170:LEU:HD12	39:DE:170:LEU:H	1.60	0.68
48:DP:13:ASN:O	48:DP:14:LYS:HB2	1.93	0.68
53:DU:112:ARG:NH2	54:DV:46:VAL:HG11	2.08	0.68
1:AA:267:C:H2'	1:AA:268:C:H6	1.59	0.67
1:AA:1231:G:O2'	1:AA:1232:U:H5'	1.94	0.67
1:AA:1308:U:H5''	13:AM:98:VAL:HG23	1.77	0.67
2:AB:233:SER:HB2	2:AB:234:PRO:CD	2.24	0.67
15:AO:83:GLU:C	15:AO:85:LEU:H	2.02	0.67
24:AY:335:LEU:HD11	24:AY:352:VAL:HG11	1.73	0.67
25:B0:51:VAL:HG22	25:B0:81:VAL:HG23	1.74	0.67
35:BA:1567:A:H2'	38:BD:84:TYR:HE2	1.59	0.67
35:BA:1865:G:H2'	35:BA:1866:C:H5''	1.76	0.67
51:BS:95:HIS:CG	51:BS:96:GLY:N	2.61	0.67
52:BT:115:ARG:HH11	52:BT:115:ARG:CB	2.03	0.67
57:BY:88:LYS:HZ3	57:BY:93:GLY:C	2.03	0.67
1:CA:160:A:H1'	1:CA:344:A:C5	2.29	0.67
1:CA:267:C:H2'	1:CA:268:C:H6	1.58	0.67
22:CV:47:U:H3'	22:CV:48:C:C5'	2.22	0.67
24:CY:264:LEU:HD23	24:CY:264:LEU:C	2.19	0.67
24:CY:467:LYS:O	24:CY:471:LYS:HA	1.94	0.67
26:D1:56:GLN:NE2	26:D1:87:PRO:HB3	2.08	0.67
26:D1:81:LYS:HZ2	35:DA:271(H):G:H4'	1.59	0.67
28:D3:28:LEU:HA	28:D3:33:GLN:OE1	1.93	0.67
32:D7:6:GLN:O	35:DA:686:G:H1'	1.94	0.67
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.56	0.67
35:DA:142:A:H5'	35:DA:142(A):C:OP2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:555:U:H2'	35:DA:556:G:C8	2.29	0.67
35:DA:1538:G:H2'	35:DA:1539:G:H8	1.59	0.67
35:DA:1831:G:H2'	35:DA:1832:C:C6	2.29	0.67
40:DF:167:ALA:HB1	40:DF:173:VAL:CG1	2.21	0.67
42:DH:124:GLU:HB2	42:DH:132:ARG:HG3	1.77	0.67
42:DH:154:PRO:O	42:DH:156:ALA:N	2.25	0.67
49:DQ:27:VAL:HG23	49:DQ:137:TYR:CD2	2.30	0.67
53:DU:68:ALA:O	53:DU:71:GLN:HB3	1.93	0.67
1:AA:332:G:H2'	1:AA:333:G:H8	1.58	0.67
1:AA:522:C:H41	12:AL:53:ARG:HH22	1.41	0.67
3:AC:35:GLU:O	3:AC:38:ARG:HG2	1.94	0.67
4:AD:13:ARG:HA	4:AD:33:MET:CE	2.24	0.67
10:AJ:13:HIS:O	10:AJ:17:ASP:HB2	1.94	0.67
25:B0:20:ARG:HD2	25:B0:20:ARG:H	1.56	0.67
35:BA:518:G:H4'	55:BW:18:ARG:NH1	2.09	0.67
35:BA:566:U:O2'	35:BA:567:A:H5'	1.93	0.67
35:BA:769:G:O2'	35:BA:770:G:H5'	1.94	0.67
37:BC:4:HIS:ND1	37:BC:8:TYR:HE2	1.92	0.67
39:BE:63:LEU:O	39:BE:63:LEU:HD23	1.93	0.67
41:BG:106:LEU:HA	41:BG:110:ALA:CB	2.23	0.67
46:BN:58:ASP:O	46:BN:60:ILE:N	2.27	0.67
49:BQ:45:GLN:H	49:BQ:45:GLN:CD	2.00	0.67
50:BR:63:ARG:NH2	50:BR:77:ARG:HG2	2.08	0.67
52:BT:129:ARG:O	52:BT:131:ALA:N	2.22	0.67
58:BZ:156:LYS:O	58:BZ:158:PRO:HD3	1.94	0.67
4:CD:88:VAL:O	4:CD:92:VAL:HG23	1.95	0.67
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.09	0.67
10:CJ:61:GLU:OE2	14:CN:45:ARG:HD2	1.94	0.67
12:CL:17:LYS:HD3	12:CL:18:VAL:HG22	1.74	0.67
19:CS:41:VAL:C	19:CS:43:GLU:H	2.02	0.67
24:CY:454:MET:H	24:CY:458:HIS:HD2	1.41	0.67
28:D3:17:LYS:HZ2	28:D3:20:LYS:HE3	1.58	0.67
35:DA:654:A:N7	35:DA:654(V):A:H4'	2.09	0.67
35:DA:2591:C:OP2	38:DD:239:ARG:HB3	1.94	0.67
35:DA:2712:U:HO2'	35:DA:2712(A):A:H8	0.74	0.67
35:DA:2713:A:H3'	35:DA:2714:G:C5'	2.25	0.67
38:DD:11:PRO:C	38:DD:13:ARG:H	2.02	0.67
38:DD:39:LYS:NZ	38:DD:87:ASN:HB3	2.09	0.67
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.24	0.67
51:DS:66:ALA:O	51:DS:99:LYS:HA	1.94	0.67
52:DT:55:ASN:H	52:DT:59:THR:CG2	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:30:VAL:HG22	56:DX:77:LYS:O	1.94	0.67
1:AA:60:A:H5''	1:AA:331:G:H22	1.58	0.67
1:AA:1190:G:OP1	3:AC:5:ILE:HD12	1.94	0.67
12:AL:86:ARG:NH2	12:AL:99:HIS:CD2	2.63	0.67
22:AW:1:C:H2'	22:AW:2:G:H8	1.59	0.67
28:B3:28:LEU:HD23	28:B3:28:LEU:N	2.09	0.67
28:B3:59:VAL:HG12	28:B3:60:GLU:N	2.09	0.67
35:BA:548:A:C2'	35:BA:549:G:H5'	2.24	0.67
35:BA:555:U:H2'	35:BA:556:G:C8	2.29	0.67
35:BA:581:C:H2'	35:BA:582:G:C8	2.29	0.67
35:BA:1528(A):A:H62	35:BA:1541:G:N2	1.92	0.67
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.94	0.67
35:BA:1819:A:H4'	35:BA:1820:U:H5'	1.76	0.67
38:BD:267:SER:CA	38:BD:270:ILE:HD11	2.25	0.67
40:BF:152:GLU:O	40:BF:154:VAL:HG23	1.94	0.67
53:BU:55:ARG:HA	53:BU:58:ARG:CG	2.24	0.67
1:CA:473:G:H2'	1:CA:474:G:H8	1.59	0.67
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.58	0.67
24:CY:65:ILE:O	24:CY:67:ALA:N	2.26	0.67
24:CY:211:GLU:HB2	24:CY:215:LYS:HZ1	1.58	0.67
24:CY:388:THR:CG2	24:CY:399:LEU:HD13	2.24	0.67
27:D2:46:GLN:OE1	35:DA:95:G:H4'	1.94	0.67
30:D5:25:LEU:CD1	55:DW:19:LEU:HB3	2.25	0.67
34:D9:17:ILE:HG21	34:D9:19:ARG:HH21	1.60	0.67
35:DA:970:C:H2'	35:DA:971:C:C6	2.29	0.67
35:DA:1718:G:H5'	35:DA:1718:G:H8	1.60	0.67
38:DD:183:ARG:HG2	38:DD:183:ARG:NH1	2.08	0.67
40:DF:43:LYS:HA	40:DF:98:SER:HB3	1.74	0.67
41:DG:60:LEU:O	41:DG:63:ILE:HG13	1.93	0.67
46:DN:96:GLU:CD	46:DN:96:GLU:H	2.01	0.67
51:DS:28:VAL:HG12	51:DS:29:PHE:N	2.07	0.67
51:DS:85:VAL:HG23	51:DS:106:ARG:HG3	1.76	0.67
57:DY:31:LEU:N	57:DY:31:LEU:HD22	2.08	0.67
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.94	0.67
3:AC:150:LYS:HB2	3:AC:169:ALA:HB1	1.76	0.67
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	1.93	0.67
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.29	0.67
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.10	0.67
12:AL:113:ARG:HD2	12:AL:115:LYS:H	1.58	0.67
24:AY:165:GLN:C	24:AY:166:LEU:HD12	2.20	0.67
25:B0:16:SER:HB2	35:BA:2262:U:H5	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:1:MET:HG2	41:BG:98:ARG:NE	2.09	0.67
30:B5:19:ARG:HA	35:BA:2046:G:H5'	1.76	0.67
35:BA:20:C:O2'	35:BA:21:A:H5'	1.93	0.67
35:BA:624:C:H41	48:BP:107:LYS:NZ	1.91	0.67
35:BA:903:C:H2'	35:BA:904:C:C5'	2.18	0.67
35:BA:2346:A:H1'	35:BA:2383:G:C8	2.29	0.67
41:BG:173:LEU:HA	41:BG:176:LEU:CD1	2.25	0.67
50:BR:28:LEU:HD23	50:BR:28:LEU:C	2.20	0.67
51:BS:89:ARG:O	51:BS:92:TYR:HB3	1.94	0.67
51:BS:97:ARG:C	51:BS:97:ARG:HE	2.03	0.67
2:CB:21:ARG:HD2	2:CB:39:ILE:HG12	1.74	0.67
3:CC:123:GLN:HB3	3:CC:128:PHE:HD2	1.58	0.67
4:CD:5:ILE:HA	4:CD:115:ARG:HH12	1.57	0.67
19:CS:40:ILE:HG21	19:CS:66:MET:O	1.95	0.67
20:CT:48:LYS:HB3	20:CT:51:GLU:HG2	1.77	0.67
27:D2:32:LEU:HB2	27:D2:53:LEU:HD22	1.75	0.67
35:DA:2329:G:H2'	35:DA:2330:G:C8	2.29	0.67
35:DA:2466:C:O2'	35:DA:2467:C:H5'	1.94	0.67
39:DE:78:LEU:O	39:DE:79:ARG:HD2	1.93	0.67
50:DR:10:LEU:HD22	50:DR:17:ARG:HD3	1.76	0.67
53:DU:83:LEU:CD1	53:DU:83:LEU:H	2.08	0.67
58:DZ:153:SER:HB2	58:DZ:163:LEU:CD1	2.23	0.67
1:AA:584:G:H2'	1:AA:585:G:H8	1.59	0.67
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.24	0.67
4:AD:18:LYS:C	4:AD:19:LEU:HD12	2.20	0.67
16:AP:49:LEU:HD22	16:AP:73:LEU:HD22	1.74	0.67
33:B8:51:ALA:C	33:B8:53:PRO:HD2	2.19	0.67
35:BA:807:U:OP2	48:BP:39:LYS:HG3	1.95	0.67
35:BA:2524:G:H5'	35:BA:2524:G:C8	2.28	0.67
39:BE:131:ALA:CB	39:BE:134:ILE:HD11	2.15	0.67
41:BG:54:GLU:O	41:BG:57:ALA:HB3	1.94	0.67
41:BG:61:ALA:HB1	41:BG:66:GLN:O	1.95	0.67
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.09	0.67
46:BN:45:ASN:H	46:BN:45:ASN:ND2	1.90	0.67
51:BS:49:VAL:HG12	51:BS:50:SER:N	2.08	0.67
54:BV:28:GLU:OE1	54:BV:31:ALA:HB2	1.94	0.67
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.94	0.67
24:CY:259:PHE:C	24:CY:260:LEU:HD13	2.19	0.67
24:CY:438:PHE:C	24:CY:438:PHE:HD2	2.01	0.67
24:CY:601:ILE:C	24:CY:602:LEU:HD23	2.20	0.67
24:CY:680:PRO:O	24:CY:682:GLN:HG2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:14:ILE:HD12	29:D4:14:ILE:N	2.10	0.67
35:DA:364:C:C2'	35:DA:365:C:H5''	2.24	0.67
35:DA:1030:G:OP2	49:DQ:128:LYS:HE2	1.95	0.67
39:DE:63:LEU:O	39:DE:63:LEU:HD23	1.93	0.67
40:DF:107:LYS:O	40:DF:110:LEU:N	2.26	0.67
48:DP:62:LEU:CD2	48:DP:62:LEU:N	2.58	0.67
1:AA:1325:C:H2'	1:AA:1326:C:H6	1.58	0.67
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.06	0.67
5:AE:155:GLU:N	8:AH:46:LYS:HG2	2.09	0.67
24:AY:72:CYS:SG	24:AY:79:ILE:HB	2.34	0.67
24:AY:606:MET:HE2	24:AY:671:MET:HE3	1.77	0.67
31:B6:10:LEU:H	31:B6:10:LEU:HD23	1.58	0.67
33:B8:33:ASN:O	33:B8:34:TRP:HB3	1.93	0.67
35:BA:363(B):G:H2'	35:BA:363(C):G:H8	1.58	0.67
35:BA:559:G:H22	53:BU:49:HIS:CD2	2.13	0.67
35:BA:958:U:OP2	49:BQ:14:ARG:NH1	2.27	0.67
35:BA:1113:U:H2'	35:BA:1114:G:C8	2.29	0.67
35:BA:1395:A:H4'	35:BA:1397:U:C5	2.30	0.67
40:BF:25:PRO:HG3	40:BF:119:ARG:HB2	1.76	0.67
41:BG:82:LEU:HD11	41:BG:87:PRO:HB3	1.76	0.67
46:BN:48:MET:H	46:BN:48:MET:CE	2.06	0.67
49:BQ:27:VAL:HG23	49:BQ:137:TYR:CD2	2.29	0.67
54:BV:39:LEU:O	54:BV:40:LEU:HB2	1.93	0.67
55:BW:68:ARG:HA	55:BW:110:LYS:HG2	1.76	0.67
1:CA:1459:C:H2'	1:CA:1460:A:C8	2.30	0.67
2:CB:118:LEU:CB	2:CB:142:LEU:HD12	2.21	0.67
12:CL:70:ILE:HD12	12:CL:75:HIS:CD2	2.29	0.67
24:CY:293:THR:HB	24:CY:294:PRO:HD2	1.76	0.67
31:D6:38:LYS:HD3	35:DA:2344:U:OP1	1.94	0.67
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.29	0.67
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.09	0.67
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.10	0.67
41:DG:121:ASN:HB3	41:DG:124:SER:CB	2.22	0.67
48:DP:85:LEU:CD1	48:DP:120:ALA:HB2	2.22	0.67
52:DT:23:ARG:HB2	52:DT:24:PRO:HD2	1.77	0.67
54:DV:6:LYS:O	54:DV:37:VAL:HG21	1.94	0.67
1:AA:973:G:H3'	1:AA:974:A:H5''	1.76	0.67
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.60	0.67
2:AB:21:ARG:HD2	2:AB:39:ILE:HG12	1.75	0.67
4:AD:33:MET:O	4:AD:37:PRO:HG3	1.94	0.67
8:AH:103:VAL:CG2	8:AH:110:ALA:HB2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:4:ILE:HD12	10:AJ:4:ILE:N	2.09	0.67
13:AM:37:THR:HG21	13:AM:56:LEU:HD22	1.76	0.67
27:B2:21:LEU:O	27:B2:24:LEU:HB3	1.95	0.67
33:B8:50:LEU:C	33:B8:53:PRO:HD2	2.19	0.67
35:BA:1790:C:H5''	35:BA:1791:A:OP1	1.95	0.67
39:BE:4:ILE:HD11	39:BE:28:ALA:HB1	1.77	0.67
39:BE:113:PHE:CE2	39:BE:158:GLY:HA2	2.30	0.67
51:BS:74:ALA:HB1	51:BS:103:GLU:CB	2.24	0.67
52:BT:82:LEU:HD12	52:BT:82:LEU:N	2.10	0.67
53:BU:20:LEU:HD22	53:BU:20:LEU:N	2.08	0.67
1:CA:584:G:H2'	1:CA:585:G:C8	2.30	0.67
2:CB:43:ASP:OD2	2:CB:46:LYS:HB2	1.95	0.67
2:CB:233:SER:HB2	2:CB:234:PRO:CD	2.24	0.67
24:CY:82:ILE:HD12	24:CY:101:LEU:HD23	1.75	0.67
24:CY:453:GLY:HA3	24:CY:459:LEU:HD23	1.77	0.67
27:D2:58:ALA:HB1	35:DA:76:C:C4'	2.24	0.67
33:D8:4:MET:O	33:D8:62:LEU:HD12	1.95	0.67
35:DA:27:G:HO2'	35:DA:28:A:H8	1.40	0.67
35:DA:139(A):G:H22	56:DX:44:GLU:CD	2.03	0.67
35:DA:271(J):C:O2	35:DA:271(J):C:H2'	1.94	0.67
35:DA:813:U:H2'	35:DA:814:C:H6	1.59	0.67
35:DA:1504:C:H2'	35:DA:1505:C:H5''	1.75	0.67
35:DA:2186:G:H2'	35:DA:2187:G:H5''	1.77	0.67
35:DA:2832:U:H1'	35:DA:2834:G:N3	2.10	0.67
39:DE:117:MET:HG2	39:DE:117:MET:O	1.94	0.67
58:DZ:153:SER:C	58:DZ:155:LEU:HD23	2.20	0.67
1:AA:160:A:H1'	1:AA:344:A:C5	2.29	0.67
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.29	0.67
4:AD:5:ILE:HA	4:AD:115:ARG:HH12	1.60	0.67
37:BC:78:ILE:O	37:BC:120:VAL:HG21	1.95	0.67
38:BD:172:TYR:CD1	38:BD:186:HIS:HA	2.30	0.67
46:BN:43:THR:O	46:BN:46:VAL:HG12	1.94	0.67
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.74	0.67
49:BQ:79:LEU:HD23	49:BQ:80:GLU:H	1.58	0.67
51:BS:85:VAL:HG23	51:BS:106:ARG:HG3	1.76	0.67
54:BV:18:LEU:HD13	54:BV:19:LYS:H	1.59	0.67
2:CB:19:HIS:O	2:CB:20:GLU:O	2.12	0.67
3:CC:134:ILE:HD11	3:CC:153:VAL:HG23	1.76	0.67
10:CJ:32:ALA:HB2	10:CJ:76:ASN:ND2	2.10	0.67
17:CQ:47:PRO:HG2	17:CQ:48:GLU:OE2	1.94	0.67
24:CY:137:ASN:HD21	24:CY:263:ALA:CB	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:293:THR:C	24:CY:295:GLU:H	2.02	0.67
24:CY:631:ILE:HG21	35:DA:1067:A:C4	2.30	0.67
35:DA:581:C:H2'	35:DA:582:G:C8	2.29	0.67
35:DA:825:C:O2'	35:DA:826:U:H5'	1.94	0.67
35:DA:910:A:C5	49:DQ:13:GLN:HG3	2.30	0.67
35:DA:1081:U:H5''	44:DK:122:ALA:HB1	1.77	0.67
35:DA:1435:G:H5'	35:DA:1436:G:OP2	1.93	0.67
39:DE:4:ILE:HD11	39:DE:28:ALA:HB1	1.77	0.67
52:DT:106:SER:HA	52:DT:110:ILE:HG12	1.77	0.67
1:AA:176:C:H2'	1:AA:177:C:H6	1.59	0.67
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.60	0.67
18:AR:87:ARG:HB3	18:AR:87:ARG:NH1	2.10	0.67
20:AT:82:SER:O	20:AT:86:ARG:HB2	1.95	0.67
21:AU:2:GLY:O	21:AU:4:GLY:N	2.28	0.67
24:AY:395:PRO:O	24:AY:397:VAL:N	2.27	0.67
35:BA:419:C:H2'	35:BA:420:C:C6	2.29	0.67
35:BA:1367:A:H2'	35:BA:1368:G:H5'	1.75	0.67
51:BS:30:ARG:HD3	51:BS:97:ARG:HG2	1.75	0.67
1:CA:522:C:H41	12:CL:53:ARG:HH22	1.42	0.67
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.76	0.67
16:CP:74:LEU:CD2	16:CP:79:VAL:HG21	2.24	0.67
22:CV:49:G:H1	22:CV:65:C:N4	1.92	0.67
24:CY:145:ASP:O	24:CY:149:VAL:HG23	1.93	0.67
24:CY:553:GLY:H	24:CY:557:GLY:HA2	1.60	0.67
24:CY:655:TYR:OH	24:CY:659:LEU:HD23	1.95	0.67
27:D2:2:LYS:CB	35:DA:97:C:H5''	2.25	0.67
28:D3:17:LYS:HZ3	28:D3:20:LYS:HE3	1.57	0.67
35:DA:491:G:H2'	35:DA:492:A:H8	1.60	0.67
35:DA:1183:G:O2'	35:DA:1184:G:H5'	1.94	0.67
37:DC:128:LEU:HD12	37:DC:131:ILE:HB	1.76	0.67
39:DE:179:GLU:O	39:DE:180:ASN:HB2	1.94	0.67
42:DH:76:VAL:O	42:DH:79:VAL:HG22	1.95	0.67
46:DN:48:MET:CE	46:DN:48:MET:H	2.07	0.67
48:DP:30:THR:CG2	48:DP:31:ALA:H	2.07	0.67
48:DP:38:GLN:HG3	48:DP:39:LYS:N	2.08	0.67
48:DP:62:LEU:N	48:DP:62:LEU:HD23	2.09	0.67
58:DZ:95:PRO:HA	58:DZ:129:SER:HA	1.77	0.67
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.92	0.67
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.59	0.67
9:AI:40:LEU:HD11	9:AI:70:LYS:HG2	1.75	0.67
10:AJ:3:LYS:O	10:AJ:100:THR:HG23	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:9:LEU:C	24:AY:11:ARG:H	2.03	0.67
24:AY:404:VAL:N	24:AY:405:PRO:HD3	2.11	0.67
24:AY:526:VAL:HB	24:AY:566:THR:HA	1.77	0.67
26:B1:26:ARG:HG3	26:B1:27:GLU:H	1.60	0.67
33:B8:50:LEU:CD1	33:B8:51:ALA:H	2.08	0.67
35:BA:1541:G:H4'	35:BA:1542:A:C5'	2.25	0.67
41:BG:112:PRO:O	41:BG:113:ARG:CA	2.36	0.67
51:BS:19:LYS:HB3	51:BS:20:ARG:NH2	2.10	0.67
51:BS:58:LEU:HD12	51:BS:59:LYS:H	1.59	0.67
54:BV:19:LYS:HE2	54:BV:20:LEU:H	1.61	0.67
1:CA:294:U:H2'	1:CA:295:C:C6	2.30	0.67
1:CA:980:C:C5	1:CA:981:U:C2	2.83	0.67
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.30	0.67
1:CA:1308:U:H5''	13:CM:98:VAL:HG23	1.75	0.67
9:CI:4:TYR:CD2	9:CI:88:TYR:HB2	2.29	0.67
24:CY:21:ILE:H	24:CY:21:ILE:HD13	1.60	0.67
35:DA:1058:G:N2	35:DA:1081:U:H1'	2.10	0.67
35:DA:1494:A:H2'	35:DA:1495:A:H5''	1.76	0.67
35:DA:1644:C:H2'	35:DA:1644:C:O2	1.94	0.67
35:DA:2241:A:H2'	35:DA:2242:G:C8	2.30	0.67
35:DA:2408:U:H2'	35:DA:2409:G:H8	1.60	0.67
44:DK:7:VAL:O	44:DK:7:VAL:HG13	1.94	0.67
51:DS:58:LEU:HD12	51:DS:59:LYS:H	1.60	0.67
51:DS:98:VAL:HG12	51:DS:100:ALA:H	1.59	0.67
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.30	0.66
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.03	0.66
22:AV:17:C:H6	22:AV:17(A):U:H5	1.40	0.66
24:AY:230:LYS:HE2	24:AY:241:GLU:OE1	1.95	0.66
35:BA:389:G:H1	48:BP:71:VAL:HG12	1.60	0.66
35:BA:936:C:H2'	35:BA:937:U:C6	2.30	0.66
35:BA:1656:C:H2'	35:BA:1657:C:C6	2.29	0.66
35:BA:1902:C:H4'	38:BD:244:ARG:HB2	1.77	0.66
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.09	0.66
44:BK:14:ALA:HA	44:BK:41:PHE:CE2	2.30	0.66
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.77	0.66
53:BU:95:LEU:HD12	54:BV:11:GLN:HG3	1.76	0.66
53:BU:112:ARG:NH2	54:BV:46:VAL:HG11	2.10	0.66
1:CA:1190:G:OP1	3:CC:5:ILE:HD12	1.94	0.66
1:CA:1368:G:O2'	1:CA:1369:C:H5'	1.95	0.66
6:CF:80:ARG:HH11	6:CF:88:VAL:HB	1.59	0.66
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:97:PRO:CA	13:CM:110:ARG:HD3	2.25	0.66
16:CP:74:LEU:HD23	16:CP:79:VAL:HG21	1.74	0.66
19:CS:20:LEU:HA	19:CS:23:ASN:HB2	1.75	0.66
26:D1:30:VAL:HG23	26:D1:31:GLY:N	2.08	0.66
28:D3:6:VAL:HB	28:D3:54:VAL:HG11	1.77	0.66
35:DA:1242:A:N1	48:DP:8:PRO:HG2	2.09	0.66
35:DA:1567:A:H2'	38:DD:84:TYR:HE2	1.58	0.66
35:DA:1682:G:H2'	35:DA:1683:C:H6	1.59	0.66
38:DD:241:PRO:C	38:DD:242:ARG:HG3	2.20	0.66
39:DE:26:ILE:HG21	39:DE:196:VAL:HG21	1.77	0.66
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.19	0.66
44:DK:77:LEU:HD23	44:DK:77:LEU:N	2.10	0.66
51:DS:19:LYS:HB3	51:DS:20:ARG:NH2	2.10	0.66
51:DS:74:ALA:HB1	51:DS:103:GLU:CB	2.24	0.66
52:DT:115:ARG:HH11	52:DT:115:ARG:CB	2.04	0.66
55:DW:64:MET:O	55:DW:65:LEU:HB3	1.94	0.66
1:AA:491:G:H2'	1:AA:492:G:H8	1.59	0.66
13:AM:10:PRO:HG2	13:AM:11:ARG:H	1.61	0.66
29:B4:14:ILE:HD12	29:B4:14:ILE:N	2.10	0.66
35:BA:142:A:H5'	35:BA:142(A):C:OP2	1.95	0.66
35:BA:229:A:H3'	35:BA:230:U:H5'	1.77	0.66
35:BA:940:G:H3'	35:BA:941:A:H5''	1.77	0.66
35:BA:1115:G:H5'	35:BA:1115:G:H8	1.60	0.66
35:BA:1788:C:O2'	35:BA:1789:A:H5'	1.95	0.66
35:BA:1846:G:H5'	35:BA:1846:G:C8	2.24	0.66
35:BA:2408:U:H2'	35:BA:2409:G:H8	1.59	0.66
35:BA:2476:A:N1	35:BA:2477:C:C5	2.63	0.66
38:BD:166:GLN:HE21	38:BD:166:GLN:HA	1.61	0.66
48:BP:122:PRO:HB3	48:BP:141:ALA:HB1	1.77	0.66
50:BR:18:LEU:C	50:BR:18:LEU:HD23	2.20	0.66
52:BT:30:VAL:HG21	52:BT:84:GLN:H	1.61	0.66
1:CA:1160:G:H2'	1:CA:1160:G:N3	2.10	0.66
2:CB:27:LYS:HD3	2:CB:195:ASP:OD1	1.95	0.66
24:CY:489:LYS:HD3	24:CY:598:ASP:OD1	1.93	0.66
35:DA:657:U:H2'	35:DA:658:C:C6	2.31	0.66
40:DF:152:GLU:O	40:DF:154:VAL:HG23	1.94	0.66
44:DK:23:VAL:HG13	44:DK:27:LEU:HD22	1.76	0.66
44:DK:109:LYS:O	44:DK:112:MET:HG2	1.94	0.66
51:DS:19:LYS:HB3	51:DS:20:ARG:HH22	1.60	0.66
52:DT:28:VAL:HG21	52:DT:46:GLU:CG	2.22	0.66
52:DT:57:PHE:O	52:DT:59:THR:HG23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:107:ALA:HA	53:DU:110:VAL:HG23	1.77	0.66
1:AA:473:G:H2'	1:AA:474:G:H8	1.60	0.66
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.76	0.66
13:AM:108:ARG:HA	13:AM:108:ARG:HH11	1.59	0.66
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.38	0.66
24:AY:84:THR:N	24:AY:85:PRO:CD	2.55	0.66
24:AY:100:VAL:HG23	24:AY:329:ARG:HG2	1.76	0.66
61:AY:702:FUA:H201	61:AY:702:FUA:O1	1.95	0.66
26:B1:73:LEU:HD23	26:B1:94:LEU:HD23	1.78	0.66
35:BA:139(A):G:H22	56:BX:44:GLU:CD	2.02	0.66
35:BA:1028:A:N6	35:BA:1125:G:H2'	2.10	0.66
35:BA:1917:U:C2'	35:BA:1918:A:H5'	2.25	0.66
46:BN:58:ASP:OD2	46:BN:59:LYS:HG2	1.95	0.66
48:BP:7:ARG:CB	48:BP:8:PRO:HD3	2.23	0.66
48:BP:115:LEU:N	48:BP:115:LEU:HD23	2.10	0.66
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.10	0.66
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.78	0.66
15:CO:83:GLU:C	15:CO:85:LEU:H	2.03	0.66
35:DA:363(B):G:H2'	35:DA:363(C):G:H8	1.59	0.66
35:DA:1514:U:H2'	35:DA:1515:G:H8	1.61	0.66
35:DA:1656:C:H2'	35:DA:1657:C:C6	2.31	0.66
35:DA:2346:A:C2	35:DA:2383:G:C2	2.84	0.66
41:DG:45:GLU:O	41:DG:51:ARG:HB3	1.96	0.66
2:AB:27:LYS:HD3	2:AB:195:ASP:OD1	1.94	0.66
2:AB:222:ILE:HB	2:AB:226:ARG:HH21	1.59	0.66
3:AC:137:ALA:HA	3:AC:140:ARG:NH2	2.09	0.66
9:AI:5:TYR:CD2	9:AI:6:GLY:N	2.64	0.66
9:AI:104:ARG:C	9:AI:105:ASP:N	2.54	0.66
11:AK:16:SER:O	11:AK:35:PRO:HG3	1.95	0.66
20:AT:48:LYS:HB3	20:AT:51:GLU:HG2	1.78	0.66
24:AY:119:GLU:O	24:AY:121:VAL:HG22	1.96	0.66
26:B1:45:ASN:HD22	26:B1:46:LEU:N	1.92	0.66
26:B1:45:ASN:C	26:B1:45:ASN:ND2	2.49	0.66
26:B1:64:ALA:HA	26:B1:67:ILE:HG13	1.76	0.66
27:B2:13:ALA:HA	27:B2:16:LEU:CD1	2.26	0.66
28:B3:6:VAL:HB	28:B3:54:VAL:HG11	1.76	0.66
35:BA:191:A:H2'	35:BA:192:C:H6	1.60	0.66
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.25	0.66
36:BB:26:A:H2'	36:BB:27:C:C6	2.30	0.66
39:BE:199:ARG:HB3	39:BE:200:GLU:OE2	1.95	0.66
40:BF:65:TRP:CZ3	40:BF:75:HIS:HD2	2.12	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:90:LEU:HD12	41:BG:91:ARG:H	1.59	0.66
50:BR:10:LEU:HD22	50:BR:17:ARG:HD3	1.77	0.66
1:CA:1294:G:O2'	1:CA:1295:G:H5'	1.95	0.66
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.61	0.66
24:CY:17:ILE:HD12	24:CY:17:ILE:N	2.08	0.66
26:D1:80:LEU:HB3	26:D1:82:LEU:HD11	1.76	0.66
31:D6:45:LYS:HD3	35:DA:2371:G:O3'	1.96	0.66
33:D8:61:LEU:C	33:D8:63:PRO:HD2	2.20	0.66
35:DA:2425:A:H4'	35:DA:2426:A:H5''	1.75	0.66
35:DA:2668:G:O2'	35:DA:2669:G:H5'	1.95	0.66
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	1.77	0.66
44:DK:21:PRO:HG3	44:DK:25:PRO:HD3	1.77	0.66
51:DS:97:ARG:C	51:DS:97:ARG:NE	2.53	0.66
54:DV:19:LYS:HE2	54:DV:20:LEU:H	1.59	0.66
1:AA:474:G:H2'	1:AA:475:G:H8	1.58	0.66
1:AA:584:G:H2'	1:AA:585:G:C8	2.30	0.66
1:AA:748:C:OP2	1:AA:748:C:H6	1.79	0.66
9:AI:104:ARG:O	9:AI:105:ASP:HB3	1.94	0.66
16:AP:33:ILE:O	16:AP:34:GLU:HB2	1.94	0.66
29:B4:9:LEU:HD23	41:BG:65:GLY:HA3	1.76	0.66
35:BA:1010:A:H1'	35:BA:1153:C:H1'	1.76	0.66
35:BA:2631:G:N2	39:BE:61:ARG:HH12	1.93	0.66
38:BD:91:ARG:HG2	38:BD:91:ARG:NH1	2.04	0.66
40:BF:32:LEU:HD13	40:BF:112:MET:HE1	1.78	0.66
42:BH:76:VAL:O	42:BH:79:VAL:HG22	1.95	0.66
43:BJ:73:UNK:C	43:BJ:75:UNK:N	2.53	0.66
44:BK:109:LYS:O	44:BK:112:MET:HG2	1.95	0.66
1:CA:748:C:H6	1:CA:748:C:OP2	1.78	0.66
7:CG:27:ILE:CD1	7:CG:40:ALA:HA	2.26	0.66
12:CL:28:LYS:O	12:CL:29:GLY:C	2.38	0.66
24:CY:632:LEU:CG	24:CY:645:ALA:HA	2.26	0.66
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.24	0.66
35:DA:2531:A:OP1	42:DH:177:GLY:C	2.39	0.66
42:DH:124:GLU:CB	42:DH:132:ARG:HG3	2.25	0.66
49:DQ:55:VAL:CG1	49:DQ:56:ARG:N	2.59	0.66
51:DS:40:ILE:HG22	51:DS:41:ASP:N	2.09	0.66
53:DU:61:TRP:O	53:DU:65:ILE:HG13	1.95	0.66
55:DW:5:ALA:O	55:DW:6:ILE:HB	1.93	0.66
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ3	1.61	0.66
58:DZ:77:ASP:HB2	58:DZ:82:ARG:HB3	1.78	0.66
1:AA:294:U:H2'	1:AA:295:C:C6	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1160:G:N3	1:AA:1160:G:H2'	2.09	0.66
10:AJ:32:ALA:HB2	10:AJ:76:ASN:ND2	2.10	0.66
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.76	0.66
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.03	0.66
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE2	1.96	0.66
31:B6:10:LEU:H	31:B6:10:LEU:HD22	1.59	0.66
35:BA:1223:G:C3'	35:BA:1224:C:H5''	2.24	0.66
35:BA:1917:U:O2'	35:BA:1918:A:H5'	1.95	0.66
35:BA:2162:G:H2'	35:BA:2163:C:C6	2.31	0.66
35:BA:2196:C:O2'	35:BA:2197:U:H5'	1.96	0.66
35:BA:2591:C:OP2	38:BD:239:ARG:HB3	1.96	0.66
37:BC:48:LEU:HD12	37:BC:48:LEU:N	2.11	0.66
46:BN:21:LYS:HB3	46:BN:26:LEU:HD23	1.78	0.66
46:BN:67:LEU:HB3	46:BN:88:GLU:CG	2.26	0.66
48:BP:114:ILE:HD12	48:BP:115:LEU:N	2.11	0.66
57:BY:105:ALA:C	57:BY:107:ASP:H	2.04	0.66
3:CC:58:GLU:N	3:CC:65:ALA:HB3	2.06	0.66
29:D4:1:MET:HG2	41:DG:98:ARG:CZ	2.25	0.66
35:DA:145:G:H2'	35:DA:146:G:H8	1.61	0.66
35:DA:580:C:H2'	35:DA:581:C:C6	2.31	0.66
35:DA:807:U:OP2	48:DP:39:LYS:HG3	1.94	0.66
35:DA:1113:U:H2'	35:DA:1114:G:C8	2.30	0.66
35:DA:1268:A:H2'	35:DA:1269:A:O4'	1.96	0.66
35:DA:2346:A:H1'	35:DA:2383:G:C8	2.30	0.66
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.78	0.66
38:DD:117:VAL:HG23	38:DD:129:ASN:HA	1.75	0.66
38:DD:158:ALA:O	38:DD:196:VAL:HG11	1.96	0.66
39:DE:11:MET:CB	39:DE:24:THR:HA	2.25	0.66
48:DP:114:ILE:HD12	48:DP:115:LEU:N	2.09	0.66
51:DS:15:ARG:HB3	51:DS:18:ILE:CD1	2.24	0.66
53:DU:111:GLU:O	53:DU:115:ALA:HB2	1.95	0.66
58:DZ:143:GLY:O	58:DZ:144:LEU:HD13	1.96	0.66
1:AA:191:G:C4	20:AT:105:SER:HB3	2.30	0.66
1:AA:1261:A:H2'	1:AA:1262:C:H5'	1.76	0.66
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.31	0.66
4:AD:24:GLU:O	4:AD:27:TYR:HB2	1.96	0.66
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.10	0.66
12:AL:25:PRO:C	12:AL:27:LEU:N	2.54	0.66
16:AP:8:ARG:HB3	16:AP:28:ARG:HH12	1.60	0.66
31:B6:27:LYS:HD2	31:B6:30:THR:HB	1.78	0.66
32:B7:46:VAL:HG12	32:B7:47:ARG:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2241:A:H2'	35:BA:2242:G:C8	2.30	0.66
38:BD:11:PRO:C	38:BD:13:ARG:H	2.04	0.66
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.20	0.66
41:BG:28:VAL:O	41:BG:31:VAL:HG12	1.95	0.66
48:BP:41:ARG:HH21	48:BP:41:ARG:CA	2.05	0.66
58:BZ:4:ARG:NH1	58:BZ:66:SER:HB2	2.10	0.66
58:BZ:18:LEU:O	58:BZ:21:ALA:HB3	1.96	0.66
1:CA:20:U:H2'	1:CA:21:G:O4'	1.95	0.66
1:CA:1347:G:H3'	9:CI:108:VAL:O	1.95	0.66
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.29	0.66
11:CK:16:SER:O	11:CK:35:PRO:HG3	1.95	0.66
19:CS:6:LYS:CE	19:CS:6:LYS:H	2.09	0.66
26:D1:8:SER:HB3	26:D1:66:HIS:CE1	2.31	0.66
28:D3:28:LEU:N	28:D3:28:LEU:HD23	2.10	0.66
31:D6:19:ARG:O	31:D6:20:ASN:O	2.14	0.66
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	2.25	0.66
35:DA:784:A:H5''	38:DD:227:ASN:ND2	2.11	0.66
35:DA:903:C:H2'	35:DA:904:C:C5'	2.18	0.66
35:DA:2206:G:N2	35:DA:2207:G:H5'	2.11	0.66
36:DB:26:A:H2'	36:DB:27:C:C6	2.31	0.66
47:DO:64:ARG:O	47:DO:82:ASN:HA	1.96	0.66
54:DV:19:LYS:CE	54:DV:20:LEU:H	2.09	0.66
1:AA:715:A:H2'	1:AA:716:A:C8	2.30	0.66
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.11	0.66
24:AY:466:LEU:HA	24:AY:470:PHE:HD2	1.58	0.66
32:B7:28:ARG:HH11	32:B7:28:ARG:HG3	1.60	0.66
35:BA:1217:C:OP2	53:BU:15:LYS:NZ	2.23	0.66
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.11	0.66
40:BF:125:LEU:H	40:BF:125:LEU:HD23	1.60	0.66
44:BK:57:ILE:HD12	44:BK:57:ILE:N	2.11	0.66
1:CA:1234:C:O2'	1:CA:1235:U:H5'	1.96	0.66
16:CP:33:ILE:O	16:CP:34:GLU:HB2	1.94	0.66
38:DD:35:LYS:HD2	38:DD:36:PRO:CA	2.25	0.66
40:DF:125:LEU:HD23	40:DF:125:LEU:H	1.61	0.66
51:DS:67:ARG:HB3	51:DS:71:ARG:HH22	1.61	0.66
51:DS:95:HIS:CG	51:DS:96:GLY:N	2.62	0.66
57:DY:76:CYS:HB3	57:DY:96:ILE:CD1	2.22	0.66
1:AA:630:G:C2'	1:AA:631:G:H5''	2.26	0.66
1:AA:1321:C:H5''	1:AA:1322:C:C5'	2.26	0.66
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.11	0.66
3:AC:11:ARG:O	3:AC:13:GLY:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.07	0.66
4:AD:58:LEU:HD23	4:AD:58:LEU:C	2.21	0.66
5:AE:91:LEU:HD13	5:AE:120:THR:CG2	2.25	0.66
6:AF:80:ARG:HH11	6:AF:88:VAL:HB	1.60	0.66
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.24	0.66
12:AL:18:VAL:O	12:AL:19:ARG:HB3	1.96	0.66
24:AY:84:THR:O	24:AY:85:PRO:C	2.39	0.66
24:AY:485:GLU:HG3	24:AY:553:GLY:HA3	1.77	0.66
24:AY:517:LEU:HB3	24:AY:521:SER:CB	2.26	0.66
30:B5:44:THR:HG22	30:B5:45:VAL:N	2.08	0.66
35:BA:1080:C:O2'	35:BA:1081:U:H5'	1.96	0.66
35:BA:2069:G:O2'	35:BA:2070:G:H5'	1.96	0.66
35:BA:2241:A:H2'	35:BA:2242:G:H8	1.60	0.66
39:BE:26:ILE:HG21	39:BE:196:VAL:HG21	1.77	0.66
40:BF:4:VAL:HG13	40:BF:19:GLU:OE2	1.95	0.66
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.11	0.66
41:BG:56:ALA:HB1	41:BG:153:ARG:NE	2.11	0.66
42:BH:154:PRO:O	42:BH:156:ALA:N	2.27	0.66
44:BK:6:ALA:CB	44:BK:59:ILE:HG22	2.21	0.66
44:BK:93:ARG:HB2	58:BZ:112:ARG:NE	2.09	0.66
52:BT:106:SER:HA	52:BT:110:ILE:HG12	1.78	0.66
54:BV:1:MET:HE2	54:BV:1:MET:HA	1.78	0.66
1:CA:41:G:H2'	1:CA:42:G:H8	1.59	0.66
1:CA:1261:A:H2'	1:CA:1262:C:H5'	1.77	0.66
2:CB:54:THR:O	2:CB:58:ILE:HG13	1.95	0.66
2:CB:189:ASP:OD1	2:CB:205:ASP:HB3	1.95	0.66
3:CC:70:VAL:CG1	3:CC:72:LYS:H	2.03	0.66
10:CJ:3:LYS:O	10:CJ:100:THR:HG23	1.96	0.66
22:CW:37:U:H3	23:CX:13:A:H61	1.44	0.66
22:CW:52:C:H3'	22:CW:53:G:H5''	1.77	0.66
24:CY:26:THR:HA	24:CY:83:ASP:OD1	1.95	0.66
24:CY:99:ARG:HE	24:CY:128:TYR:HB2	1.61	0.66
24:CY:115:GLU:OE1	24:CY:152:THR:HG21	1.96	0.66
24:CY:530:VAL:HG12	24:CY:533:VAL:HG23	1.78	0.66
30:D5:19:ARG:HA	35:DA:2046:G:H5'	1.78	0.66
35:DA:191:A:H2'	35:DA:192:C:H6	1.60	0.66
35:DA:279:C:C2'	35:DA:280:C:H5''	2.25	0.66
35:DA:1278:A:H5''	50:DR:36:THR:HG22	1.77	0.66
38:DD:35:LYS:HG2	38:DD:63:ARG:CA	2.24	0.66
41:DG:62:LEU:HD12	41:DG:62:LEU:N	2.04	0.66
41:DG:139:LEU:HA	41:DG:144:ILE:HG21	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:56:GLU:O	44:DK:67:PHE:HA	1.96	0.66
44:DK:57:ILE:HD12	44:DK:57:ILE:N	2.10	0.66
46:DN:41:ASP:C	53:DU:64:ARG:HH22	2.03	0.66
51:DS:49:VAL:HG12	51:DS:50:SER:N	2.11	0.66
56:DX:35:THR:HB	56:DX:38:GLU:HB2	1.77	0.66
57:DY:88:LYS:O	57:DY:90:LEU:HD23	1.95	0.66
1:AA:188:C:H2'	1:AA:189:G:H8	1.61	0.66
6:AF:1:MET:HE1	6:AF:68:PRO:HD3	1.78	0.66
8:AH:10:LEU:CD2	8:AH:83:ILE:HD11	2.24	0.66
24:AY:12:LEU:HB3	24:AY:283:PRO:HG2	1.78	0.66
24:AY:17:ILE:O	24:AY:85:PRO:HG2	1.96	0.66
25:B0:16:SER:OG	35:BA:2261:C:H3'	1.96	0.66
35:BA:295:G:H2'	35:BA:296:C:H6	1.61	0.66
35:BA:1081:U:H5''	44:BK:122:ALA:HB1	1.77	0.66
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.78	0.66
38:BD:24:ILE:HD13	38:BD:25:THR:N	2.10	0.66
38:BD:146:GLU:HG2	38:BD:152:GLY:C	2.20	0.66
42:BH:124:GLU:HB2	42:BH:132:ARG:HG3	1.78	0.66
44:BK:23:VAL:HG13	44:BK:27:LEU:HD22	1.77	0.66
47:BO:104:ARG:HH21	52:BT:33:LYS:HE3	1.61	0.66
48:BP:13:ASN:O	48:BP:14:LYS:HB2	1.96	0.66
50:BR:30:THR:OG1	50:BR:75:LEU:HD21	1.95	0.66
57:BY:74:PRO:O	57:BY:80:GLY:HA2	1.96	0.66
58:BZ:99:TYR:HE2	58:BZ:125:LEU:HD13	1.61	0.66
1:CA:584:G:H2'	1:CA:585:G:H8	1.59	0.66
1:CA:686:U:O2'	1:CA:687:A:H8	1.78	0.66
1:CA:1038:C:H2'	1:CA:1039:C:C5	2.30	0.66
3:CC:58:GLU:H	3:CC:65:ALA:CB	2.06	0.66
26:D1:46:LEU:H	26:D1:46:LEU:CD2	2.07	0.66
26:D1:86:SER:HB2	26:D1:90:ILE:HG12	1.78	0.66
35:DA:139:G:C6	35:DA:140:G:H2'	2.30	0.66
35:DA:229:A:H3'	35:DA:230:U:H5'	1.77	0.66
35:DA:545:C:H3'	35:DA:547:A:H5''	1.78	0.66
35:DA:559:G:H22	53:DU:49:HIS:CD2	2.14	0.66
35:DA:606:U:H2'	35:DA:606:U:O2	1.96	0.66
35:DA:814:C:H2'	35:DA:815:C:C6	2.30	0.66
35:DA:1028:A:N6	35:DA:1125:G:H2'	2.11	0.66
35:DA:1052:C:H2'	35:DA:1053:C:C6	2.31	0.66
35:DA:1115:G:H8	35:DA:1115:G:H5'	1.61	0.66
35:DA:1516:C:H2'	35:DA:1517:G:H5'	1.78	0.66
35:DA:1865:G:H2'	35:DA:1866:C:H5''	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.44	0.66
38:DD:43:ARG:HB3	38:DD:54:ARG:HB2	1.78	0.66
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.29	0.66
39:DE:11:MET:HB3	39:DE:24:THR:HA	1.78	0.66
42:DH:37:VAL:HG12	42:DH:38:SER:N	2.10	0.66
42:DH:137:ASP:HB3	42:DH:140:LYS:HB2	1.77	0.66
42:DH:175:LYS:O	42:DH:176:ALA:HB3	1.97	0.66
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.54	0.66
54:DV:39:LEU:O	54:DV:40:LEU:HB2	1.95	0.66
55:DW:109:GLU:CD	55:DW:109:GLU:H	2.04	0.66
57:DY:62:GLU:CG	57:DY:63:LYS:H	2.09	0.66
4:AD:36:ARG:HH11	4:AD:36:ARG:CB	2.09	0.65
25:B0:40:GLN:HE22	25:B0:43:THR:HA	1.60	0.65
31:B6:17:LYS:HB2	31:B6:44:ARG:HH12	1.60	0.65
35:BA:271(J):C:H2'	35:BA:271(J):C:O2	1.94	0.65
35:BA:643:A:O2'	35:BA:644:A:H5'	1.96	0.65
35:BA:759:G:H2'	35:BA:760:G:H8	1.61	0.65
35:BA:803:U:O2'	35:BA:804:A:H5'	1.96	0.65
35:BA:848:G:H5'	35:BA:849:A:OP2	1.97	0.65
35:BA:1814:G:C3'	35:BA:1815:A:H5''	2.25	0.65
35:BA:2186:G:H2'	35:BA:2187:G:H5''	1.78	0.65
38:BD:35:LYS:NZ	38:BD:36:PRO:HD3	2.01	0.65
39:BE:101:ARG:NH1	39:BE:169:ASN:HD22	1.94	0.65
41:BG:31:VAL:CG2	41:BG:32:PRO:HD2	2.26	0.65
49:BQ:55:VAL:CG1	49:BQ:56:ARG:N	2.59	0.65
54:BV:19:LYS:CE	54:BV:20:LEU:H	2.09	0.65
1:CA:625:G:H4'	16:CP:16:HIS:CD2	2.31	0.65
1:CA:630:G:C2'	1:CA:631:G:H5''	2.26	0.65
1:CA:943:U:H2'	1:CA:944:G:H5'	1.79	0.65
1:CA:1068:G:OP2	1:CA:1094:G:H5'	1.96	0.65
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.11	0.65
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.78	0.65
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.21	0.65
5:CE:36:ASP:O	5:CE:37:ARG:HB2	1.96	0.65
9:CI:104:ARG:C	9:CI:105:ASP:N	2.54	0.65
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	1.95	0.65
24:CY:388:THR:HG21	24:CY:399:LEU:CD1	2.25	0.65
31:D6:17:LYS:HB2	31:D6:44:ARG:HH12	1.61	0.65
35:DA:2852:G:H2'	35:DA:2853:C:H6	1.60	0.65
37:DC:4:HIS:ND1	37:DC:8:TYR:HE2	1.94	0.65
41:DG:48:GLU:OE1	41:DG:81:LYS:HE3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:19:PRO:CB	44:DK:34:ILE:HD12	2.23	0.65
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.78	0.65
47:DO:104:ARG:HH21	52:DT:33:LYS:HE3	1.61	0.65
48:DP:122:PRO:HB3	48:DP:141:ALA:HB1	1.78	0.65
49:DQ:75:THR:HG22	49:DQ:76:LYS:N	2.11	0.65
49:DQ:76:LYS:HB3	49:DQ:91:GLU:HG3	1.78	0.65
51:DS:30:ARG:HD3	51:DS:97:ARG:HG2	1.78	0.65
57:DY:81:LYS:HD3	57:DY:97:ARG:O	1.95	0.65
58:DZ:137:ILE:CG2	58:DZ:155:LEU:HD12	2.26	0.65
1:AA:490:G:H2'	1:AA:491:G:H8	1.60	0.65
3:AC:136:GLN:HG3	3:AC:139:GLN:HB3	1.78	0.65
4:AD:36:ARG:HH11	4:AD:36:ARG:HB3	1.61	0.65
6:AF:19:LEU:O	6:AF:19:LEU:HD23	1.96	0.65
24:AY:388:THR:HG21	24:AY:399:LEU:H	1.61	0.65
26:B1:81:LYS:NZ	35:BA:271(H):G:O3'	2.29	0.65
31:B6:38:LYS:HD3	35:BA:2344:U:OP1	1.96	0.65
35:BA:272(B):G:H2'	35:BA:272(C):G:H8	1.61	0.65
35:BA:545:C:H3'	35:BA:547:A:H5''	1.79	0.65
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.31	0.65
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.60	0.65
55:BW:5:ALA:O	55:BW:6:ILE:HB	1.95	0.65
1:CA:865:A:H5'	1:CA:1078:U:O4	1.96	0.65
1:CA:1231:G:O2'	1:CA:1232:U:H5'	1.96	0.65
1:CA:1321:C:H5''	1:CA:1322:C:C5'	2.26	0.65
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.31	0.65
4:CD:30:LYS:C	4:CD:32:ALA:N	2.48	0.65
14:CN:12:ARG:O	14:CN:14:PRO:HD3	1.96	0.65
16:CP:28:ARG:HG2	16:CP:29:ASP:OD2	1.96	0.65
24:CY:438:PHE:C	24:CY:438:PHE:CD2	2.74	0.65
31:D6:10:LEU:H	31:D6:10:LEU:HD23	1.61	0.65
35:DA:284:U:H2'	35:DA:285:C:H6	1.61	0.65
35:DA:1012:U:O4	46:DN:28:THR:HG21	1.96	0.65
46:DN:43:THR:O	46:DN:46:VAL:HG12	1.94	0.65
46:DN:102:ALA:O	46:DN:106:MET:HE2	1.97	0.65
50:DR:18:LEU:HD21	50:DR:22:ARG:NE	2.10	0.65
55:DW:68:ARG:HA	55:DW:110:LYS:HG2	1.77	0.65
57:DY:88:LYS:HZ3	57:DY:93:GLY:C	2.04	0.65
1:AA:66:G:H4'	1:AA:173:U:C5	2.32	0.65
1:AA:686:U:O2'	1:AA:687:A:H8	1.79	0.65
1:AA:1248:A:C2'	1:AA:1249:C:H5'	2.27	0.65
2:AB:54:THR:O	2:AB:58:ILE:HG13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	1.78	0.65
24:AY:400:GLU:O	24:AY:402:ILE:HD12	1.96	0.65
24:AY:424:LEU:O	24:AY:427:ALA:HB3	1.95	0.65
35:BA:301:G:H1'	35:BA:302:C:C6	2.30	0.65
35:BA:364:C:C2'	35:BA:365:C:H5''	2.25	0.65
35:BA:657:U:H2'	35:BA:658:C:C6	2.32	0.65
35:BA:796:C:H2'	35:BA:797:C:C6	2.31	0.65
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.31	0.65
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.78	0.65
41:BG:34:LEU:HA	41:BG:161:THR:HA	1.78	0.65
42:BH:124:GLU:CB	42:BH:132:ARG:HG3	2.26	0.65
44:BK:58:THR:O	44:BK:66:THR:HG22	1.96	0.65
48:BP:84:ASN:C	48:BP:86:LYS:H	2.04	0.65
53:BU:92:ARG:HD3	53:BU:94:ASN:HB3	1.78	0.65
58:BZ:24:LEU:HD12	58:BZ:41:LEU:CD2	2.27	0.65
58:BZ:130:PRO:O	58:BZ:133:ILE:HD11	1.96	0.65
1:CA:191:G:C4	20:CT:105:SER:HB3	2.31	0.65
1:CA:490:G:H2'	1:CA:491:G:H8	1.61	0.65
1:CA:664:G:H22	1:CA:741:G:H1	1.44	0.65
1:CA:697:U:C2'	1:CA:698:G:H5'	2.25	0.65
4:CD:121:VAL:O	4:CD:134:ASP:HA	1.96	0.65
4:CD:152:SER:O	4:CD:154:ASN:N	2.29	0.65
24:CY:225:GLU:O	24:CY:228:MET:HB3	1.96	0.65
26:D1:29:GLY:HA3	35:DA:2396:G:O2'	1.95	0.65
35:DA:1080:C:O2'	35:DA:1081:U:H5'	1.97	0.65
35:DA:2039:C:H2'	35:DA:2040:C:H6	1.60	0.65
36:DB:15:A:H3'	36:DB:16:G:C5'	2.25	0.65
52:DT:30:VAL:HG21	52:DT:84:GLN:H	1.62	0.65
53:DU:92:ARG:HD3	53:DU:94:ASN:HB3	1.77	0.65
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.28	0.65
13:AM:4:ILE:HG22	13:AM:5:ALA:N	2.11	0.65
16:AP:60:LEU:HA	16:AP:64:ALA:HB3	1.78	0.65
35:BA:637:A:H2'	48:BP:117:GLU:OE2	1.95	0.65
35:BA:803:U:C2'	35:BA:804:A:H5'	2.27	0.65
35:BA:2347:C:H2'	35:BA:2348:U:C6	2.31	0.65
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.26	0.65
53:BU:61:TRP:O	53:BU:65:ILE:HG13	1.96	0.65
56:BX:35:THR:HB	56:BX:38:GLU:HB2	1.79	0.65
58:BZ:24:LEU:HD12	58:BZ:41:LEU:HD21	1.78	0.65
7:CG:80:VAL:HG23	7:CG:81:GLY:N	2.12	0.65
13:CM:90:LEU:O	13:CM:91:ARG:C	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CX:16:A:H2'	23:CX:17:U:C6	2.31	0.65
24:CY:84:THR:HG22	24:CY:84:THR:O	1.96	0.65
24:CY:448:GLN:OE1	24:CY:480:GLN:HG2	1.97	0.65
35:DA:143(A):C:H4'	56:DX:38:GLU:OE1	1.96	0.65
35:DA:1386:C:H2'	35:DA:1387:C:H6	1.62	0.65
35:DA:1812:A:H2'	35:DA:1813:G:H8	1.62	0.65
35:DA:2498:C:O2'	35:DA:2499:C:H5'	1.95	0.65
35:DA:2750:A:H2'	35:DA:2752:C:H41	1.61	0.65
43:DJ:21:UNK:CB	43:DJ:88:UNK:HA	2.26	0.65
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.62	0.65
57:DY:28:LYS:C	57:DY:38:ILE:HG22	2.20	0.65
58:DZ:101:PRO:O	58:DZ:102:LEU:HD23	1.96	0.65
2:AB:168:THR:CG2	2:AB:192:SER:HB3	2.20	0.65
5:AE:20:GLN:O	5:AE:21:ALA:C	2.39	0.65
14:AN:29:ARG:HH11	14:AN:29:ARG:HG3	1.62	0.65
20:AT:93:GLU:C	20:AT:95:ALA:H	2.02	0.65
23:AX:11:U:H2'	23:AX:11:U:O2	1.97	0.65
24:AY:416:LYS:HD2	24:AY:417:THR:H	1.60	0.65
31:B6:11:LEU:HD23	31:B6:51:GLU:HG3	1.77	0.65
36:BB:30:C:OP2	51:BS:32:LEU:HD11	1.97	0.65
36:BB:48:A:H4'	51:BS:95:HIS:CD2	2.30	0.65
39:BE:11:MET:CB	39:BE:24:THR:HA	2.27	0.65
40:BF:4:VAL:HG22	40:BF:19:GLU:OE1	1.96	0.65
41:BG:90:LEU:HD12	41:BG:91:ARG:N	2.10	0.65
43:BJ:26:UNK:HA	43:BJ:84:UNK:HA	1.78	0.65
44:BK:21:PRO:HG3	44:BK:25:PRO:HD3	1.78	0.65
48:BP:95:VAL:HG23	48:BP:125:VAL:HG23	1.77	0.65
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.25	0.65
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.62	0.65
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.77	0.65
2:CB:155:LEU:C	2:CB:155:LEU:HD13	2.21	0.65
24:CY:12:LEU:O	24:CY:283:PRO:HD3	1.96	0.65
24:CY:25:LYS:HE2	24:CY:86:GLY:N	2.11	0.65
24:CY:312:LEU:HD22	24:CY:313:ALA:O	1.96	0.65
29:D4:12:ALA:CB	29:D4:29:PRO:HA	2.26	0.65
31:D6:27:LYS:HD2	31:D6:30:THR:HB	1.78	0.65
33:D8:51:ALA:C	33:D8:53:PRO:HD2	2.22	0.65
35:DA:2068:U:N3	35:DA:2430:A:C2	2.63	0.65
35:DA:2396:G:O2'	35:DA:2397:G:H5'	1.96	0.65
35:DA:2408:U:H2'	35:DA:2409:G:C8	2.32	0.65
40:DF:65:TRP:CZ3	40:DF:75:HIS:HD2	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:6:LEU:HB3	48:DP:9:ASN:HD21	1.59	0.65
49:DQ:97:VAL:CG1	49:DQ:103:MET:HE3	2.24	0.65
50:DR:28:LEU:C	50:DR:28:LEU:HD23	2.21	0.65
52:DT:88:ILE:HG22	52:DT:89:VAL:HG23	1.79	0.65
58:DZ:166:SER:HB2	58:DZ:168:GLU:H	1.59	0.65
1:AA:460:G:H5'	1:AA:461:A:OP2	1.96	0.65
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.10	0.65
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.61	0.65
6:AF:68:PRO:HG2	6:AF:71:ARG:HB2	1.78	0.65
16:AP:28:ARG:HG2	16:AP:29:ASP:OD2	1.97	0.65
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.77	0.65
24:AY:192:LEU:HD13	24:AY:192:LEU:O	1.96	0.65
35:BA:613:G:H8	35:BA:613:G:H5'	1.60	0.65
35:BA:2497:A:H8	35:BA:2497:A:OP2	1.80	0.65
37:BC:74:ARG:H	37:BC:112:ASP:HB2	1.60	0.65
53:BU:107:ALA:HA	53:BU:110:VAL:HG23	1.79	0.65
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.61	0.65
4:CD:18:LYS:C	4:CD:19:LEU:HD12	2.22	0.65
4:CD:129:ASN:HD21	4:CD:145:GLU:N	1.92	0.65
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.26	0.65
16:CP:8:ARG:HB3	16:CP:28:ARG:NH1	2.10	0.65
24:CY:21:ILE:HG23	24:CY:86:GLY:O	1.96	0.65
24:CY:69:VAL:HA	24:CY:81:ILE:O	1.97	0.65
24:CY:400:GLU:O	24:CY:402:ILE:HD12	1.96	0.65
26:D1:50:ARG:HG2	26:D1:57:GLU:OE2	1.97	0.65
35:DA:613:G:H5'	35:DA:613:G:H8	1.62	0.65
35:DA:1142(A):A:O2'	35:DA:1143:A:H2'	1.96	0.65
44:DK:14:ALA:HA	44:DK:41:PHE:CE2	2.31	0.65
48:DP:41:ARG:HH21	48:DP:41:ARG:CA	2.04	0.65
50:DR:72:ASP:OD1	50:DR:75:LEU:HB2	1.96	0.65
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.78	0.65
7:AG:80:VAL:HG23	7:AG:81:GLY:N	2.11	0.65
19:AS:64:GLU:HG2	29:B4:48:ARG:HH22	1.59	0.65
24:AY:115:GLU:CD	24:AY:118:SER:HB3	2.22	0.65
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.77	0.65
28:B3:36:VAL:O	28:B3:37:LEU:HD23	1.96	0.65
29:B4:56:VAL:O	29:B4:57:GLU:HB2	1.97	0.65
30:B5:36:CYS:SG	30:B5:48:GLU:O	2.52	0.65
31:B6:15:GLU:CD	31:B6:44:ARG:HH12	2.05	0.65
35:BA:2346:A:C2	35:BA:2383:G:C2	2.85	0.65
38:BD:186:HIS:HD2	38:BD:188:GLU:H	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:154:VAL:HG13	40:BF:191:ARG:O	1.96	0.65
40:BF:198:ALA:O	40:BF:201:VAL:HG12	1.96	0.65
1:CA:973:G:H3'	1:CA:974:A:H5''	1.79	0.65
13:CM:108:ARG:HH11	13:CM:108:ARG:HA	1.60	0.65
20:CT:82:SER:O	20:CT:86:ARG:HB2	1.96	0.65
24:CY:5:VAL:HG13	24:CY:6:GLU:N	2.12	0.65
35:DA:20:C:O2'	35:DA:21:A:H5'	1.97	0.65
35:DA:195:A:H5''	35:DA:196:A:OP2	1.96	0.65
35:DA:1917:U:O2'	35:DA:1918:A:H5'	1.97	0.65
38:DD:267:SER:CA	38:DD:270:ILE:HD11	2.26	0.65
39:DE:113:PHE:CE2	39:DE:158:GLY:HA2	2.31	0.65
41:DG:112:PRO:C	41:DG:113:ARG:HA	2.21	0.65
57:DY:105:ALA:C	57:DY:107:ASP:H	2.02	0.65
1:AA:183:G:H2'	1:AA:184:G:C8	2.31	0.65
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.32	0.65
24:AY:21:ILE:HD13	24:AY:21:ILE:N	2.11	0.65
24:AY:334:THR:HG21	24:AY:370:LYS:HG2	1.79	0.65
24:AY:637:ARG:HH11	24:AY:637:ARG:HG3	1.61	0.65
31:B6:47:THR:HG23	31:B6:48:VAL:N	2.12	0.65
31:B6:48:VAL:CG2	31:B6:49:HIS:H	2.08	0.65
35:BA:84:A:H5'	57:BY:9:LYS:HB3	1.79	0.65
35:BA:139:G:C6	35:BA:140:G:H2'	2.32	0.65
35:BA:1329:U:H5'	35:BA:1330:C:H5	1.62	0.65
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.45	0.65
36:BB:15:A:H3'	36:BB:16:G:C5'	2.25	0.65
58:BZ:54:HIS:HA	58:BZ:98:MET:HE1	1.79	0.65
1:CA:737:A:H2'	1:CA:738:C:C6	2.32	0.65
1:CA:773:G:O2'	1:CA:774:G:H5'	1.97	0.65
1:CA:1328:C:H2'	1:CA:1329:A:H8	1.61	0.65
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.32	0.65
2:CB:22:LYS:H	2:CB:40:HIS:HE1	1.43	0.65
3:CC:25:GLY:C	3:CC:27:LYS:H	2.05	0.65
12:CL:28:LYS:HE2	12:CL:33:ARG:HH12	1.62	0.65
30:D5:20:ARG:HG2	30:D5:23:HIS:CD2	2.31	0.65
35:DA:83:G:N2	35:DA:102:G:H2'	2.12	0.65
35:DA:666:G:H4'	48:DP:49:ARG:HH21	1.62	0.65
35:DA:1542:A:H5'	35:DA:1543:C:OP2	1.95	0.65
35:DA:1819:A:H4'	35:DA:1820:U:H5'	1.78	0.65
35:DA:2196:C:O2'	35:DA:2197:U:H5'	1.97	0.65
35:DA:2202:C:H2'	38:DD:151:LYS:NZ	2.11	0.65
36:DB:48:A:H2'	36:DB:49:C:H6	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:48:LEU:HD12	37:DC:48:LEU:N	2.12	0.65
44:DK:103:GLN:O	44:DK:106:GLU:HG2	1.97	0.65
1:AA:270:A:H2'	1:AA:271:C:C6	2.32	0.65
24:AY:21:ILE:CG2	24:AY:88:VAL:HG13	2.27	0.65
24:AY:606:MET:CE	24:AY:671:MET:HE3	2.27	0.65
26:B1:32:LYS:C	26:B1:33:LYS:HG3	2.21	0.65
33:B8:48:PHE:C	33:B8:49:VAL:HG22	2.21	0.65
35:BA:1345:C:O2'	35:BA:1346:G:H5'	1.97	0.65
35:BA:1514:U:H2'	35:BA:1515:G:C8	2.32	0.65
35:BA:2462:U:H2'	35:BA:2463:C:H6	1.61	0.65
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.62	0.65
51:BS:89:ARG:HH11	51:BS:89:ARG:HG2	1.62	0.65
52:BT:24:PRO:HD3	52:BT:52:ILE:CD1	2.27	0.65
52:BT:33:LYS:HE2	52:BT:43:GLN:OE1	1.97	0.65
56:BX:70:LEU:HD23	56:BX:71:GLY:N	2.12	0.65
58:BZ:115:GLY:CA	58:BZ:177:PRO:HG3	2.26	0.65
1:CA:1104:G:O5'	2:CB:111:ARG:HD2	1.96	0.65
13:CM:90:LEU:O	13:CM:92:HIS:N	2.30	0.65
16:CP:8:ARG:HB3	16:CP:28:ARG:HH12	1.62	0.65
24:CY:496:LYS:HE2	24:CY:498:ILE:HD13	1.78	0.65
33:D8:13:ARG:HH12	48:DP:59:LEU:HG	1.60	0.65
35:DA:936:C:H2'	35:DA:937:U:C6	2.32	0.65
35:DA:1127:A:H2'	35:DA:1128:A:H5''	1.79	0.65
35:DA:2241:A:H2'	35:DA:2242:G:H8	1.62	0.65
38:DD:148:GLU:HB2	38:DD:151:LYS:HG3	1.79	0.65
38:DD:153:ALA:C	38:DD:154:LYS:HG3	2.21	0.65
41:DG:55:LYS:HA	41:DG:58:GLN:HG3	1.78	0.65
50:DR:45:ARG:HG3	50:DR:46:GLY:N	2.11	0.65
52:DT:57:PHE:C	52:DT:58:ASN:HD22	2.04	0.65
52:DT:82:LEU:HD12	52:DT:82:LEU:N	2.11	0.65
1:AA:163:C:O2'	1:AA:164:U:H5'	1.97	0.65
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.97	0.65
1:AA:1305:G:OP1	21:AU:2:GLY:N	2.30	0.65
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.62	0.65
11:AK:33:THR:HA	11:AK:40:ILE:HG12	1.79	0.65
13:AM:4:ILE:HG22	13:AM:5:ALA:H	1.62	0.65
24:AY:530:VAL:HG22	24:AY:531:GLY:N	2.11	0.65
35:BA:564:C:O2'	35:BA:565:C:H5'	1.97	0.65
35:BA:1012:U:C5	46:BN:28:THR:HG21	2.32	0.65
35:BA:1183:G:O2'	35:BA:1184:G:H5'	1.96	0.65
35:BA:2039:C:H2'	35:BA:2040:C:C6	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2726:U:H4'	47:BO:1:MET:HE1	1.79	0.65
35:BA:2832:U:H1'	35:BA:2834:G:N3	2.12	0.65
35:BA:2855:C:H2'	35:BA:2856:C:H6	1.63	0.65
39:BE:11:MET:HB3	39:BE:24:THR:HA	1.79	0.65
44:BK:19:PRO:CB	44:BK:34:ILE:HD12	2.23	0.65
46:BN:48:MET:H	46:BN:48:MET:HE3	1.60	0.65
53:BU:68:ALA:O	53:BU:71:GLN:HB3	1.96	0.65
57:BY:88:LYS:O	57:BY:90:LEU:HD23	1.97	0.65
1:CA:687:A:N6	1:CA:703:G:H1'	2.12	0.65
1:CA:715:A:H2'	1:CA:716:A:C8	2.32	0.65
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.12	0.65
8:CH:103:VAL:CG2	8:CH:110:ALA:HB2	2.27	0.65
26:D1:8:SER:HB3	26:D1:66:HIS:CD2	2.32	0.65
35:DA:272(B):G:H2'	35:DA:272(C):G:H8	1.62	0.65
35:DA:295:G:H2'	35:DA:296:C:H6	1.62	0.65
35:DA:422:A:H2'	35:DA:423:A:C8	2.32	0.65
35:DA:796:C:H2'	35:DA:797:C:C6	2.31	0.65
35:DA:1217:C:OP2	53:DU:15:LYS:NZ	2.23	0.65
35:DA:1946:U:H2'	35:DA:1947:C:H6	1.60	0.65
35:DA:2162:G:H2'	35:DA:2163:C:C6	2.32	0.65
35:DA:2345:G:C5'	35:DA:2346:A:H5'	2.27	0.65
35:DA:2455:G:H2'	35:DA:2456:C:C6	2.31	0.65
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.32	0.65
41:DG:40:ASN:HD22	41:DG:41:GLN:H	1.45	0.65
2:AB:220:ASP:O	2:AB:223:ILE:HG13	1.98	0.64
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.61	0.64
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.97	0.64
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.10	0.64
22:AW:66:C:H4'	31:B6:28:ARG:HH22	1.61	0.64
24:AY:342:TYR:CE2	24:AY:396:ARG:HD2	2.31	0.64
24:AY:434:GLU:OE1	24:AY:465:ARG:NH2	2.30	0.64
24:AY:628:ARG:NH1	24:AY:680:PRO:HG2	2.12	0.64
26:B1:76:ARG:HH22	26:B1:95:LEU:HD13	1.62	0.64
35:BA:284:U:H2'	35:BA:285:C:H6	1.63	0.64
35:BA:1029:A:H5''	49:BQ:128:LYS:HE3	1.79	0.64
35:BA:1052:C:H2'	35:BA:1053:C:C6	2.31	0.64
35:BA:1657:C:O2'	35:BA:1658:C:H5'	1.97	0.64
35:BA:2815:C:H2'	35:BA:2816:C:C6	2.32	0.64
41:BG:82:LEU:CD1	41:BG:87:PRO:HB3	2.28	0.64
51:BS:19:LYS:HB3	51:BS:20:ARG:HH22	1.60	0.64
56:BX:30:VAL:HG22	56:BX:77:LYS:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:942:G:H21	9:CI:124:GLN:HE22	1.43	0.64
4:CD:33:MET:O	4:CD:37:PRO:HG3	1.95	0.64
5:CE:72:GLN:HE22	5:CE:144:THR:HG22	1.62	0.64
19:CS:58:VAL:O	19:CS:58:VAL:HG23	1.97	0.64
22:CV:59:A:H2'	22:CV:60:U:H5'	1.79	0.64
24:CY:227:ILE:HD12	24:CY:245:ALA:HB2	1.78	0.64
31:D6:47:THR:HG23	31:D6:48:VAL:N	2.12	0.64
35:DA:221:A:H61	35:DA:265:A:H8	1.43	0.64
35:DA:419:C:H2'	35:DA:420:C:C6	2.32	0.64
35:DA:1514:U:H2'	35:DA:1515:G:C8	2.32	0.64
35:DA:2312:U:O2'	41:DG:71:THR:HG21	1.98	0.64
35:DA:2347:C:H2'	35:DA:2348:U:C6	2.31	0.64
39:DE:131:ALA:CB	39:DE:134:ILE:HD11	2.14	0.64
46:DN:35:ARG:O	46:DN:36:GLY:C	2.39	0.64
1:AA:999:C:H2'	1:AA:1000:U:C5	2.32	0.64
1:AA:1310:G:O2'	1:AA:1311:G:H5'	1.97	0.64
3:AC:178:LEU:O	3:AC:180:ALA:N	2.30	0.64
20:AT:43:LEU:O	20:AT:46:GLU:N	2.30	0.64
22:AV:17:C:C6	22:AV:17(A):U:H5	2.15	0.64
30:B5:2:ALA:N	35:BA:2014:A:HO2'	1.95	0.64
35:BA:267:C:H2'	35:BA:268:C:H6	1.63	0.64
36:BB:48:A:H2'	36:BB:49:C:H6	1.61	0.64
36:BB:50:G:OP1	51:BS:63:THR:HG23	1.97	0.64
37:BC:176:VAL:HG21	37:BC:190:ILE:CD1	2.27	0.64
38:BD:39:LYS:NZ	38:BD:87:ASN:HB3	2.13	0.64
38:BD:43:ARG:HB3	38:BD:54:ARG:HB2	1.79	0.64
38:BD:267:SER:O	38:BD:269:PHE:N	2.29	0.64
41:BG:68:PRO:CB	41:BG:90:LEU:HD11	2.26	0.64
49:BQ:56:ARG:HE	49:BQ:56:ARG:HA	1.62	0.64
49:BQ:75:THR:HG22	49:BQ:76:LYS:N	2.11	0.64
52:BT:55:ASN:H	52:BT:59:THR:CG2	2.10	0.64
1:CA:1248:A:C2'	1:CA:1249:C:H5'	2.26	0.64
4:CD:30:LYS:O	4:CD:32:ALA:N	2.30	0.64
5:CE:78:HIS:O	5:CE:93:PRO:HD3	1.97	0.64
6:CF:1:MET:HE1	6:CF:68:PRO:HD3	1.79	0.64
14:CN:16:PHE:CD1	14:CN:16:PHE:N	2.61	0.64
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.78	0.64
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.39	0.64
33:D8:50:LEU:HD12	33:D8:51:ALA:N	2.12	0.64
33:D8:50:LEU:CD1	33:D8:51:ALA:H	2.08	0.64
35:DA:272(H):C:H2'	35:DA:272(I):U:C5'	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2205:C:H5'	35:DA:2206:G:OP2	1.98	0.64
35:DA:2591:C:H2'	35:DA:2592:G:H8	1.62	0.64
35:DA:2632:A:N3	39:DE:61:ARG:NH1	2.46	0.64
35:DA:2762:G:C8	35:DA:2762:G:H5'	2.32	0.64
38:DD:35:LYS:O	38:DD:36:PRO:C	2.40	0.64
38:DD:232:PRO:HD2	38:DD:249:PRO:HA	1.80	0.64
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.12	0.64
41:DG:152:LEU:HD23	41:DG:152:LEU:H	1.63	0.64
46:DN:46:VAL:O	46:DN:47:ALA:CB	2.44	0.64
46:DN:67:LEU:HB3	46:DN:88:GLU:CG	2.28	0.64
54:DV:1:MET:HE2	54:DV:1:MET:HA	1.79	0.64
55:DW:107:LEU:H	55:DW:107:LEU:HD22	1.62	0.64
58:DZ:70:LEU:HG	58:DZ:91:LEU:HD11	1.79	0.64
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.33	0.64
1:AA:1319:A:OP1	19:AS:10:PHE:CE1	2.50	0.64
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.61	0.64
3:AC:25:GLY:C	3:AC:27:LYS:H	2.05	0.64
12:AL:28:LYS:O	12:AL:29:GLY:C	2.38	0.64
18:AR:44:LEU:O	18:AR:45:SER:C	2.39	0.64
19:AS:41:VAL:C	19:AS:43:GLU:H	2.04	0.64
35:BA:195:A:H5''	35:BA:196:A:OP2	1.98	0.64
35:BA:580:C:H2'	35:BA:581:C:C6	2.31	0.64
35:BA:666:G:H4'	48:BP:49:ARG:HH21	1.59	0.64
35:BA:2329:G:H2'	35:BA:2330:G:C8	2.31	0.64
36:BB:115:G:O4'	51:BS:47:THR:HB	1.98	0.64
38:BD:9:TYR:C	38:BD:10:THR:HG22	2.23	0.64
40:BF:195:ASP:CG	40:BF:196:LEU:H	2.06	0.64
42:BH:156:ALA:O	42:BH:158:HIS:N	2.30	0.64
46:BN:35:ARG:O	46:BN:36:GLY:C	2.39	0.64
56:BX:18:TYR:C	56:BX:20:GLY:H	2.05	0.64
57:BY:97:ARG:HH11	57:BY:97:ARG:HG3	1.62	0.64
1:CA:382:A:H2'	1:CA:383:A:H8	1.61	0.64
1:CA:1334:G:H5'	1:CA:1335:C:OP2	1.98	0.64
4:CD:13:ARG:HA	4:CD:33:MET:CE	2.27	0.64
6:CF:16:GLN:CD	6:CF:16:GLN:H	2.04	0.64
11:CK:48:ILE:N	11:CK:48:ILE:HD13	2.12	0.64
12:CL:27:LEU:HD21	12:CL:64:TYR:CE1	2.32	0.64
31:D6:48:VAL:CG2	31:D6:49:HIS:H	2.09	0.64
32:D7:46:VAL:HG12	32:D7:47:ARG:N	2.12	0.64
35:DA:301:G:H1'	35:DA:302:C:C6	2.32	0.64
35:DA:2168:G:N2	35:DA:2170:A:H3'	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2344:U:O2'	35:DA:2345:G:H5''	1.97	0.64
35:DA:2472:G:H3'	35:DA:2475:C:H42	1.63	0.64
48:DP:16:ARG:HD3	48:DP:16:ARG:C	2.23	0.64
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	1.97	0.64
52:DT:80:SER:CB	52:DT:81:PRO:HD3	2.26	0.64
1:AA:20:U:H2'	1:AA:21:G:O4'	1.97	0.64
1:AA:666:G:H5'	1:AA:726:C:H1'	1.79	0.64
3:AC:52:LEU:H	3:AC:52:LEU:CD2	2.09	0.64
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.06	0.64
20:AT:84:LEU:C	20:AT:86:ARG:H	2.06	0.64
24:AY:276:VAL:CA	24:AY:280:LEU:HD23	2.24	0.64
24:AY:343:ASN:ND2	24:AY:345:THR:H	1.95	0.64
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.27	0.64
34:B9:17:ILE:HG21	34:B9:19:ARG:HH21	1.61	0.64
35:BA:83:G:N2	35:BA:102:G:H2'	2.13	0.64
35:BA:1380:G:O2'	35:BA:1381:G:H5'	1.98	0.64
35:BA:2172:U:H1'	35:BA:2173:A:OP1	1.97	0.64
35:BA:2205:C:H5'	35:BA:2206:G:OP2	1.97	0.64
35:BA:2408:U:H2'	35:BA:2409:G:C8	2.32	0.64
36:BB:65:C:H41	36:BB:109:C:H2'	1.61	0.64
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	1.79	0.64
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.78	0.64
42:BH:92:ILE:O	42:BH:94:TYR:N	2.28	0.64
48:BP:16:ARG:HD3	48:BP:16:ARG:C	2.22	0.64
49:BQ:76:LYS:HB3	49:BQ:91:GLU:HG3	1.79	0.64
57:BY:27:VAL:HG12	57:BY:29:GLU:H	1.59	0.64
2:CB:14:GLY:O	2:CB:15:VAL:HG13	1.98	0.64
2:CB:80:ILE:H	2:CB:80:ILE:HD12	1.61	0.64
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	1.79	0.64
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.97	0.64
9:CI:53:VAL:C	9:CI:55:ALA:H	2.05	0.64
23:CX:15:A:H5'	23:CX:16:A:OP1	1.98	0.64
31:D6:16:CYS:SG	31:D6:48:VAL:CG2	2.85	0.64
35:DA:629:G:H5''	35:DA:650:C:O2'	1.96	0.64
35:DA:723:G:H2'	35:DA:724:U:C6	2.32	0.64
35:DA:1012:U:C5	46:DN:28:THR:HG21	2.32	0.64
35:DA:2573:C:O2	35:DA:2573:C:H2'	1.96	0.64
38:DD:76:PRO:O	38:DD:98:VAL:HG23	1.97	0.64
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.27	0.64
39:DE:7:VAL:HG12	39:DE:27:LEU:HB3	1.80	0.64
39:DE:199:ARG:HB3	39:DE:200:GLU:OE2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:78:ILE:HD11	44:DK:136:VAL:HG11	1.79	0.64
48:DP:41:ARG:HA	48:DP:41:ARG:NH2	2.06	0.64
53:DU:20:LEU:HD22	53:DU:20:LEU:N	2.10	0.64
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD13	1.79	0.64
1:AA:1068:G:OP2	1:AA:1094:G:H5'	1.97	0.64
1:AA:1284:C:H3'	1:AA:1285:A:C5'	2.27	0.64
5:AE:7:GLU:HG2	5:AE:112:LEU:CD2	2.28	0.64
13:AM:90:LEU:O	13:AM:92:HIS:N	2.31	0.64
24:AY:485:GLU:HB2	24:AY:560:VAL:HG22	1.80	0.64
29:B4:5:ILE:HG12	29:B4:5:ILE:O	1.96	0.64
29:B4:42:PHE:N	29:B4:42:PHE:CD1	2.65	0.64
35:BA:272(H):C:H2'	35:BA:272(I):U:C5'	2.27	0.64
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.62	0.64
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.62	0.64
35:BA:2348:U:C2'	35:BA:2349:G:H5''	2.27	0.64
35:BA:2392:A:C8	48:BP:60:MET:HB3	2.31	0.64
44:BK:109:LYS:HA	44:BK:112:MET:CE	2.22	0.64
47:BO:18:LYS:HB2	47:BO:45:GLU:HG2	1.80	0.64
52:BT:11:GLU:C	52:BT:13:ARG:H	2.06	0.64
58:BZ:41:LEU:O	58:BZ:44:PHE:N	2.30	0.64
58:BZ:115:GLY:N	58:BZ:177:PRO:CG	2.60	0.64
1:CA:194:C:C2'	1:CA:195:A:H5''	2.27	0.64
9:CI:8:GLY:HA2	9:CI:79:LEU:HD12	1.78	0.64
11:CK:33:THR:HA	11:CK:40:ILE:HG12	1.80	0.64
12:CL:28:LYS:HE2	12:CL:33:ARG:NH1	2.13	0.64
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.13	0.64
20:CT:50:GLU:HB3	20:CT:99:LEU:HB2	1.80	0.64
24:CY:198:GLU:O	24:CY:198:GLU:HG3	1.97	0.64
24:CY:539:ILE:HA	24:CY:542:VAL:HG12	1.79	0.64
26:D1:6:GLU:C	26:D1:7:ILE:HD12	2.22	0.64
30:D5:36:CYS:SG	30:D5:48:GLU:O	2.55	0.64
31:D6:6:ARG:HD2	31:D6:6:ARG:H	1.62	0.64
33:D8:25:MET:HG3	48:DP:64:LYS:HB2	1.79	0.64
35:DA:1223:G:H5'	35:DA:1224:C:OP2	1.98	0.64
35:DA:1814:G:C3'	35:DA:1815:A:H5''	2.27	0.64
35:DA:2228:G:H2'	35:DA:2229:C:C6	2.33	0.64
35:DA:2726:U:H4'	47:DO:1:MET:HE1	1.80	0.64
40:DF:25:PRO:HG3	40:DF:119:ARG:HB2	1.79	0.64
41:DG:111:LEU:HD23	41:DG:114:ILE:HD11	1.79	0.64
48:DP:115:LEU:N	48:DP:115:LEU:HD23	2.13	0.64
58:DZ:10:ARG:HB3	58:DZ:36:LYS:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:40:ASP:OD1	58:DZ:42:VAL:HG12	1.96	0.64
1:AA:477:A:O2'	1:AA:479:C:H5'	1.98	0.64
1:AA:980:C:C5	1:AA:981:U:C2	2.84	0.64
1:AA:1489:G:C3'	1:AA:1490:C:H5''	2.27	0.64
4:AD:88:VAL:O	4:AD:92:VAL:HG23	1.98	0.64
4:AD:121:VAL:O	4:AD:134:ASP:HA	1.97	0.64
12:AL:76:ASN:O	12:AL:76:ASN:CG	2.41	0.64
15:AO:76:GLU:C	15:AO:78:TYR:H	2.05	0.64
20:AT:13:LEU:HD12	20:AT:13:LEU:N	2.10	0.64
22:AV:6:G:H1	22:AV:67:C:H42	1.44	0.64
24:AY:20:HIS:HB2	24:AY:87:HIS:HD2	1.61	0.64
29:B4:2:LYS:HG2	36:BB:44:G:OP2	1.98	0.64
31:B6:43:CYS:O	31:B6:44:ARG:HB2	1.97	0.64
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.22	0.64
35:BA:392:C:H5''	35:BA:409:C:H5''	1.80	0.64
35:BA:1362:C:O2'	35:BA:1363:C:H5'	1.98	0.64
35:BA:2523:G:H2'	35:BA:2524:G:C5'	2.24	0.64
36:BB:92:C:H2'	36:BB:93:G:H8	1.62	0.64
44:BK:93:ARG:HB2	58:BZ:112:ARG:NH2	2.12	0.64
48:BP:33:ARG:O	48:BP:34:GLY:C	2.40	0.64
48:BP:58:THR:C	48:BP:61:ARG:HE	2.06	0.64
51:BS:59:LYS:HD2	51:BS:61:ASN:HB2	1.79	0.64
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.62	0.64
52:BT:24:PRO:HD3	52:BT:52:ILE:HD11	1.79	0.64
1:CA:41:G:H2'	1:CA:42:G:C8	2.33	0.64
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.62	0.64
3:CC:136:GLN:HG3	3:CC:139:GLN:HB3	1.79	0.64
4:CD:58:LEU:C	4:CD:58:LEU:HD23	2.22	0.64
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.10	0.64
25:D0:73:GLY:C	25:D0:75:LEU:H	2.06	0.64
26:D1:8:SER:HB3	26:D1:66:HIS:NE2	2.13	0.64
28:D3:15:TYR:HB3	28:D3:19:GLN:NE2	2.13	0.64
29:D4:42:PHE:N	29:D4:42:PHE:CD1	2.66	0.64
35:DA:1012:U:H3	46:DN:25:ARG:HE	1.46	0.64
1:AA:72:C:H2'	1:AA:73:G:H8	1.63	0.64
1:AA:559:A:H4'	1:AA:560:U:C5'	2.27	0.64
5:AE:6:PHE:HB3	5:AE:35:GLY:O	1.98	0.64
19:AS:40:ILE:HG21	19:AS:66:MET:O	1.97	0.64
35:BA:1036:G:OP1	42:BH:59:ARG:HD2	1.96	0.64
35:BA:1053:C:H3'	35:BA:1054:A:H5''	1.79	0.64
35:BA:2442:C:H2'	35:BA:2443:C:H6	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:24:VAL:CG2	47:BO:30:ALA:HB3	2.27	0.64
47:BO:104:ARG:HH21	52:BT:33:LYS:CE	2.11	0.64
55:BW:64:MET:O	55:BW:65:LEU:HB3	1.96	0.64
58:BZ:98:MET:HE2	58:BZ:99:TYR:O	1.96	0.64
10:CJ:18:ALA:C	10:CJ:20:ALA:H	2.06	0.64
31:D6:5:VAL:CG2	35:DA:2283:C:H5'	2.22	0.64
35:DA:272(J):C:C3'	35:DA:274:G:H5''	2.25	0.64
35:DA:781:A:C8	38:DD:219:PRO:HG3	2.33	0.64
35:DA:1038:C:C3'	35:DA:1039:G:H5''	2.26	0.64
35:DA:1438:U:O2'	35:DA:1439:A:H5'	1.97	0.64
35:DA:1902:C:H4'	38:DD:244:ARG:HB2	1.79	0.64
35:DA:2186:G:C2'	35:DA:2187:G:H5''	2.27	0.64
35:DA:2815:C:H2'	35:DA:2816:C:C6	2.32	0.64
36:DB:65:C:H41	36:DB:109:C:H2'	1.61	0.64
38:DD:158:ALA:HB3	38:DD:161:THR:CG2	2.25	0.64
40:DF:4:VAL:HG22	40:DF:19:GLU:OE1	1.97	0.64
40:DF:78:ILE:HA	40:DF:83:PHE:CD1	2.33	0.64
41:DG:40:ASN:HD22	41:DG:41:GLN:N	1.94	0.64
44:DK:41:PHE:CE1	44:DK:45:THR:HG21	2.32	0.64
46:DN:58:ASP:OD2	46:DN:59:LYS:HG2	1.96	0.64
52:DT:132:LYS:HD3	52:DT:132:LYS:N	2.13	0.64
58:DZ:61:LEU:C	58:DZ:63:ASP:H	2.06	0.64
1:AA:346:G:OP1	52:BT:41:ARG:NH2	2.31	0.64
1:AA:1320:C:OP1	19:AS:70:LYS:NZ	2.31	0.64
2:AB:140:HIS:O	2:AB:143:GLU:HB2	1.96	0.64
4:AD:16:GLY:HA2	4:AD:33:MET:CE	2.28	0.64
16:AP:50:LYS:HG2	16:AP:51:VAL:N	2.12	0.64
24:AY:534:ILE:HD12	24:AY:567:LEU:HD11	1.80	0.64
27:B2:64:LEU:O	27:B2:64:LEU:HD22	1.98	0.64
35:BA:145:G:H2'	35:BA:146:G:H8	1.63	0.64
35:BA:814:C:H2'	35:BA:815:C:C6	2.31	0.64
35:BA:1514:U:H2'	35:BA:1515:G:H8	1.63	0.64
35:BA:1718:G:H8	35:BA:1718:G:H5'	1.62	0.64
38:BD:117:VAL:HG23	38:BD:129:ASN:HA	1.79	0.64
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.27	0.64
40:BF:123:LEU:HD13	40:BF:192:LEU:HD22	1.79	0.64
44:BK:34:ILE:O	44:BK:35:MET:HE2	1.97	0.64
48:BP:6:LEU:HB3	48:BP:9:ASN:HD21	1.61	0.64
51:BS:66:ALA:O	51:BS:99:LYS:HA	1.98	0.64
51:BS:97:ARG:C	51:BS:97:ARG:NE	2.56	0.64
52:BT:11:GLU:CD	52:BT:11:GLU:H	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:88:ILE:HG22	52:BT:89:VAL:HG23	1.79	0.64
58:BZ:145:GLU:O	58:BZ:146:ILE:C	2.39	0.64
1:CA:54:C:H2'	1:CA:352:C:H41	1.63	0.64
1:CA:60:A:H5''	1:CA:331:G:N2	2.13	0.64
1:CA:188:C:H2'	1:CA:189:G:H8	1.62	0.64
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.32	0.64
12:CL:69:TYR:O	12:CL:71:PRO:HD3	1.98	0.64
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.27	0.64
20:CT:43:LEU:HB3	20:CT:48:LYS:HB2	1.80	0.64
24:CY:104:ALA:O	24:CY:132:ARG:HB2	1.98	0.64
61:CY:702:FUA:H122	61:CY:702:FUA:C23	2.28	0.64
25:D0:26:TYR:HE2	35:DA:857:C:H1'	1.63	0.64
27:D2:33:MET:SD	56:DX:5:TYR:HD2	2.21	0.64
31:D6:45:LYS:HG2	35:DA:2371:G:H4'	1.80	0.64
35:DA:322:A:OP2	40:DF:169:ASN:HB2	1.98	0.64
35:DA:2497:A:H8	35:DA:2497:A:OP2	1.80	0.64
38:DD:24:ILE:HD13	38:DD:25:THR:N	2.11	0.64
40:DF:16:GLY:O	40:DF:17:ARG:HG3	1.98	0.64
40:DF:198:ALA:O	40:DF:201:VAL:HG12	1.97	0.64
44:DK:34:ILE:O	44:DK:35:MET:HE2	1.98	0.64
46:DN:3:THR:HG22	46:DN:4:TYR:N	2.11	0.64
56:DX:18:TYR:C	56:DX:20:GLY:H	2.05	0.64
57:DY:95:LYS:HD3	57:DY:100:ALA:HB1	1.79	0.64
1:AA:176:C:H2'	1:AA:177:C:C6	2.32	0.64
24:AY:9:LEU:CD2	24:AY:284:LEU:HB2	2.25	0.64
61:AY:702:FUA:H5	61:AY:702:FUA:C20	2.12	0.64
28:B3:15:TYR:HB3	28:B3:19:GLN:NE2	2.13	0.64
35:BA:1237:A:O2'	35:BA:1238:G:O4'	2.16	0.64
35:BA:1538:G:H2'	35:BA:1539:G:H8	1.60	0.64
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.28	0.64
35:BA:2750:A:H2'	35:BA:2752:C:H41	1.62	0.64
37:BC:28:ARG:NH1	37:BC:183:PRO:HB2	2.12	0.64
38:BD:10:THR:HG23	38:BD:13:ARG:HB3	1.79	0.64
41:BG:98:ARG:HH11	41:BG:98:ARG:N	1.95	0.64
42:BH:137:ASP:HB3	42:BH:140:LYS:HB2	1.78	0.64
44:BK:6:ALA:O	44:BK:58:THR:HG23	1.97	0.64
44:BK:77:LEU:HD23	44:BK:77:LEU:N	2.11	0.64
49:BQ:56:ARG:HA	49:BQ:56:ARG:NE	2.13	0.64
49:BQ:108:GLY:HA3	58:BZ:116:VAL:HG11	1.80	0.64
52:BT:132:LYS:HD3	52:BT:132:LYS:N	2.12	0.64
57:BY:51:VAL:HG12	57:BY:53:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:633:G:H5'	1:CA:634:C:OP2	1.98	0.64
4:CD:36:ARG:HH11	4:CD:36:ARG:CB	2.10	0.64
5:CE:101:ILE:HD13	5:CE:118:ILE:O	1.98	0.64
24:CY:90:PHE:HE2	61:CY:702:FUA:H9	1.62	0.64
24:CY:137:ASN:O	24:CY:262:SER:HA	1.97	0.64
24:CY:289:ILE:HG22	24:CY:290:LYS:H	1.62	0.64
24:CY:519:ARG:HD3	24:CY:676:TYR:O	1.98	0.64
24:CY:530:VAL:O	24:CY:531:GLY:C	2.41	0.64
28:D3:59:VAL:HG12	28:D3:60:GLU:N	2.13	0.64
30:D5:40:LYS:HZ1	30:D5:46:CYS:H	1.44	0.64
35:DA:267:C:H2'	35:DA:268:C:H6	1.63	0.64
35:DA:848:G:O6	35:DA:928:G:H2'	1.98	0.64
35:DA:1036:G:OP1	42:DH:59:ARG:HD2	1.98	0.64
35:DA:1943:U:H2'	35:DA:1943:U:O2	1.98	0.64
35:DA:2442:C:H2'	35:DA:2443:C:H6	1.63	0.64
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.63	0.64
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.62	0.64
46:DN:134:ARG:O	46:DN:136:GLU:N	2.31	0.64
52:DT:83:ILE:HG13	52:DT:84:GLN:H	1.62	0.64
57:DY:74:PRO:O	57:DY:80:GLY:HA2	1.97	0.64
1:AA:1132:C:O2'	1:AA:1133:G:H5'	1.97	0.64
4:AD:152:SER:O	4:AD:154:ASN:N	2.30	0.64
6:AF:16:GLN:HA	6:AF:19:LEU:HB3	1.80	0.64
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	1.98	0.64
26:B1:41:ARG:HH22	35:BA:1365:A:H5'	1.61	0.64
26:B1:76:ARG:HH22	26:B1:95:LEU:HD22	1.63	0.64
26:B1:90:ILE:HG22	26:B1:94:LEU:CD1	2.28	0.64
31:B6:37:ARG:HH22	35:BA:2286:A:H62	1.45	0.64
33:B8:32:LEU:HB3	33:B8:36:LYS:HZ2	1.63	0.64
35:BA:1386:C:H2'	35:BA:1387:C:H6	1.63	0.64
41:BG:91:ARG:HD2	41:BG:91:ARG:C	2.23	0.64
41:BG:180:PHE:O	41:BG:182:LYS:N	2.31	0.64
42:BH:156:ALA:O	42:BH:158:HIS:CD2	2.50	0.64
42:BH:169:VAL:HG22	42:BH:170:ARG:N	2.12	0.64
42:BH:171:LEU:CD2	42:BH:171:LEU:C	2.71	0.64
46:BN:55:VAL:HG21	46:BN:127:ASP:N	2.13	0.64
50:BR:18:LEU:HD21	50:BR:22:ARG:NE	2.12	0.64
52:BT:90:GLN:O	52:BT:91:ARG:C	2.40	0.64
53:BU:19:LYS:HB3	53:BU:20:LEU:HD22	1.80	0.64
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.12	0.64
1:CA:718:G:C8	11:CK:116:HIS:HB3	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1348:U:H4'	9:CI:120:ARG:HG3	1.80	0.64
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.24	0.64
13:CM:27:LYS:HE2	13:CM:31:LYS:CE	2.23	0.64
14:CN:29:ARG:HG3	14:CN:29:ARG:HH11	1.63	0.64
16:CP:18:ARG:HD3	16:CP:35:LYS:HD2	1.80	0.64
24:CY:117:GLN:HE22	24:CY:120:THR:HG23	1.63	0.64
24:CY:678:GLU:HG2	24:CY:679:VAL:H	1.62	0.64
35:DA:654(R):C:HO2'	35:DA:654(S):G:H8	1.45	0.64
35:DA:965:C:H5'	35:DA:2273:A:C1'	2.23	0.64
35:DA:1656:C:H2'	35:DA:1657:C:H6	1.61	0.64
37:DC:29:LEU:HD23	37:DC:29:LEU:C	2.22	0.64
37:DC:57:GLN:HE21	37:DC:205:ALA:HA	1.63	0.64
40:DF:123:LEU:HD13	40:DF:192:LEU:HD22	1.78	0.64
44:DK:109:LYS:HA	44:DK:112:MET:CE	2.20	0.64
44:DK:112:MET:HG3	44:DK:113:PRO:HD3	1.80	0.64
49:DQ:87:LYS:HG2	49:DQ:88:GLY:H	1.60	0.64
50:DR:117:VAL:HG12	50:DR:118:GLU:N	2.12	0.64
52:DT:1:MET:N	52:DT:7:ILE:HD11	2.13	0.64
58:DZ:65:GLN:HB3	58:DZ:67:LEU:CD1	2.28	0.64
19:AS:24:ALA:O	19:AS:25:LYS:HB2	1.98	0.63
22:AW:8:U:H3	22:AW:14:A:N6	1.95	0.63
27:B2:63:VAL:HA	27:B2:66:GLU:HG2	1.80	0.63
35:BA:35:G:O2'	35:BA:36:G:H5'	1.98	0.63
35:BA:1142(A):A:O2'	35:BA:1143:A:H2'	1.98	0.63
35:BA:1278:A:H5''	50:BR:36:THR:HG22	1.79	0.63
35:BA:1435:G:H5'	35:BA:1436:G:OP2	1.97	0.63
35:BA:2186:G:C2'	35:BA:2187:G:H5''	2.28	0.63
35:BA:2639:A:H2'	35:BA:2640:G:O4'	1.97	0.63
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.98	0.63
39:BE:117:MET:O	39:BE:117:MET:HG2	1.97	0.63
41:BG:76:SER:CA	41:BG:83:ARG:HB3	2.28	0.63
53:BU:83:LEU:H	53:BU:83:LEU:HD12	1.63	0.63
55:BW:107:LEU:HD22	55:BW:107:LEU:H	1.63	0.63
1:CA:163:C:O2'	1:CA:164:U:H5'	1.97	0.63
1:CA:992:U:H1'	1:CA:993:G:C2	2.33	0.63
4:CD:36:ARG:HH11	4:CD:36:ARG:HB3	1.61	0.63
7:CG:7:ALA:O	7:CG:8:GLU:HB2	1.98	0.63
22:CW:7:G:H3'	22:CW:8:U:C5'	2.28	0.63
24:CY:388:THR:C	24:CY:389:LEU:HD12	2.22	0.63
24:CY:512:ILE:HD13	24:CY:512:ILE:H	1.63	0.63
25:D0:16:SER:HB2	35:DA:2262:U:C5	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:392:C:H5''	35:DA:409:C:H5''	1.79	0.63
35:DA:643:A:O2'	35:DA:644:A:H5'	1.97	0.63
35:DA:1245:G:H5''	40:DF:34:TRP:HZ2	1.63	0.63
35:DA:1775:U:H2'	35:DA:1776:G:C5'	2.28	0.63
35:DA:2832:U:H1'	35:DA:2834:G:C2	2.33	0.63
37:DC:213:VAL:HG12	37:DC:225:ILE:HD11	1.80	0.63
38:DD:147:LEU:HD13	38:DD:155:LEU:CD1	2.26	0.63
49:DQ:24:GLY:O	49:DQ:102:VAL:HG23	1.98	0.63
49:DQ:137:TYR:OH	58:DZ:81:ARG:HD3	1.99	0.63
51:DS:59:LYS:HD2	51:DS:61:ASN:HB2	1.80	0.63
1:AA:41:G:H2'	1:AA:42:G:H8	1.63	0.63
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.16	0.63
1:AA:301:G:O2'	1:AA:302:G:H5'	1.98	0.63
1:AA:382:A:H2'	1:AA:383:A:H8	1.61	0.63
1:AA:737:A:H2'	1:AA:738:C:C6	2.33	0.63
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.32	0.63
4:AD:30:LYS:O	4:AD:32:ALA:N	2.31	0.63
10:AJ:16:LEU:HD13	10:AJ:16:LEU:O	1.97	0.63
26:B1:7:ILE:HG22	26:B1:8:SER:N	2.13	0.63
26:B1:82:LEU:HD23	26:B1:90:ILE:HG23	1.81	0.63
31:B6:19:ARG:O	31:B6:20:ASN:O	2.14	0.63
35:BA:1064:C:H4'	44:BK:89:HIS:HD2	1.63	0.63
35:BA:1831:G:H2'	35:BA:1832:C:C6	2.33	0.63
35:BA:1948:G:H5'	35:BA:1948:G:H8	1.63	0.63
38:BD:35:LYS:HG2	38:BD:63:ARG:CA	2.25	0.63
39:BE:36:ARG:HG2	39:BE:36:ARG:NH1	2.12	0.63
40:BF:78:ILE:HA	40:BF:83:PHE:CD1	2.32	0.63
41:BG:10:LYS:HE2	41:BG:14:GLU:OE2	1.98	0.63
41:BG:85:GLY:C	41:BG:87:PRO:HD3	2.22	0.63
47:BO:3:GLN:HB2	47:BO:4:PRO:HD2	1.81	0.63
52:BT:57:PHE:C	52:BT:58:ASN:HD22	2.06	0.63
1:CA:477:A:O2'	1:CA:479:C:H5'	1.97	0.63
1:CA:1281:U:H5''	1:CA:1282:C:H5	1.64	0.63
2:CB:140:HIS:O	2:CB:143:GLU:HB2	1.97	0.63
9:CI:93:ARG:C	9:CI:95:LYS:H	2.06	0.63
12:CL:25:PRO:C	12:CL:27:LEU:N	2.57	0.63
24:CY:148:LEU:HD13	24:CY:151:ARG:HH11	1.63	0.63
24:CY:193:GLY:HA3	24:CY:266:ASN:CB	2.27	0.63
33:D8:48:PHE:C	33:D8:49:VAL:HG22	2.23	0.63
35:DA:240:G:C3'	35:DA:241:A:H5''	2.25	0.63
35:DA:365:C:H5'	35:DA:365:C:C6	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1029:A:H5''	49:DQ:128:LYS:HE3	1.81	0.63
35:DA:1747(A):G:O2'	35:DA:1748:G:H5''	1.97	0.63
35:DA:2018:G:H21	53:DU:34:LYS:NZ	1.96	0.63
35:DA:2795:G:H21	35:DA:2796:U:H5	1.47	0.63
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.63	0.63
42:DH:156:ALA:O	42:DH:158:HIS:N	2.31	0.63
42:DH:171:LEU:CD2	42:DH:171:LEU:C	2.71	0.63
44:DK:17:ALA:HB3	44:DK:38:VAL:HG13	1.80	0.63
54:DV:18:LEU:HD13	54:DV:19:LYS:H	1.61	0.63
56:DX:12:VAL:CB	56:DX:17:ALA:HB1	2.11	0.63
1:AA:129(A):G:H5''	1:AA:129(A):G:H8	1.63	0.63
11:AK:59:TYR:CE2	11:AK:63:LEU:HD11	2.34	0.63
33:B8:50:LEU:HD12	33:B8:51:ALA:N	2.13	0.63
35:BA:26:G:H1'	35:BA:515:A:H61	1.64	0.63
35:BA:203:C:C3'	35:BA:204:A:H5''	2.28	0.63
35:BA:322:A:OP2	40:BF:169:ASN:HB2	1.98	0.63
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.63	0.63
35:BA:2396:G:O2'	35:BA:2397:G:H5'	1.99	0.63
35:BA:2462:U:H2'	35:BA:2463:C:C6	2.34	0.63
38:BD:130:ALA:C	38:BD:131:LEU:HD12	2.24	0.63
40:BF:38:ARG:O	40:BF:42:ALA:HB2	1.98	0.63
41:BG:139:LEU:HA	41:BG:144:ILE:HG21	1.81	0.63
42:BH:149:ARG:HA	42:BH:162:ILE:CD1	2.29	0.63
44:BK:112:MET:CE	44:BK:120:LEU:HD21	2.28	0.63
46:BN:23:LEU:HD23	46:BN:23:LEU:O	1.97	0.63
46:BN:41:ASP:C	53:BU:64:ARG:HH22	2.05	0.63
50:BR:100:LEU:HD22	50:BR:100:LEU:N	2.12	0.63
53:BU:111:GLU:O	53:BU:115:ALA:HB2	1.98	0.63
57:BY:95:LYS:HD3	57:BY:100:ALA:HB1	1.79	0.63
6:CF:19:LEU:O	6:CF:19:LEU:HD23	1.97	0.63
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.29	0.63
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.98	0.63
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.06	0.63
20:CT:84:LEU:C	20:CT:86:ARG:H	2.06	0.63
24:CY:15:ILE:O	24:CY:81:ILE:HA	1.99	0.63
27:D2:48:HIS:HD1	35:DA:95:G:HO2'	1.45	0.63
29:D4:7:PRO:CG	41:DG:61:ALA:HB1	2.29	0.63
35:DA:947:G:H2'	35:DA:948:G:H8	1.63	0.63
35:DA:2131:G:H5'	35:DA:2133:G:H1'	1.80	0.63
35:DA:2428:G:H5'	35:DA:2429:G:OP1	1.98	0.63
7:AG:27:ILE:CD1	7:AG:40:ALA:HA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:5:G:O2'	22:AW:6:G:H5'	1.99	0.63
24:AY:662:LYS:NZ	42:BH:175:LYS:CD	2.61	0.63
35:BA:779:U:OP1	38:BD:49:ILE:HG23	1.98	0.63
35:BA:2009:G:H1'	50:BR:107:ASP:O	1.98	0.63
35:BA:2345:G:C5'	35:BA:2346:A:H5'	2.28	0.63
36:BB:40:U:O2	36:BB:43:C:H5''	1.99	0.63
42:BH:153:LYS:HG3	42:BH:154:PRO:CD	2.28	0.63
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.55	0.63
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.46	0.63
55:BW:109:GLU:CD	55:BW:109:GLU:H	2.07	0.63
57:BY:88:LYS:NZ	57:BY:93:GLY:O	2.29	0.63
1:CA:974:A:OP1	1:CA:974:A:H8	1.82	0.63
6:CF:67:MET:HE2	6:CF:72:VAL:HA	1.79	0.63
12:CL:18:VAL:O	12:CL:19:ARG:HB3	1.98	0.63
13:CM:81:LEU:HD12	13:CM:86:CYS:SG	2.39	0.63
24:CY:157:LEU:HD23	24:CY:157:LEU:N	2.09	0.63
27:D2:16:LEU:CB	27:D2:20:GLU:HG2	2.26	0.63
35:DA:480:A:OP2	57:DY:46:LYS:HE2	1.99	0.63
35:DA:1059:G:H2'	35:DA:1060:U:C6	2.33	0.63
35:DA:1061:U:O4	44:DK:52:ILE:HG21	1.99	0.63
35:DA:2672:G:C2'	35:DA:2673:G:H5''	2.28	0.63
37:DC:128:LEU:CD2	37:DC:132:LEU:CD1	2.75	0.63
37:DC:176:VAL:HG21	37:DC:190:ILE:CD1	2.28	0.63
39:DE:36:ARG:NH2	39:DE:88:GLY:H	1.97	0.63
39:DE:98:PRO:HG3	39:DE:175:VAL:HG12	1.80	0.63
52:DT:30:VAL:HG21	52:DT:83:ILE:HG12	1.79	0.63
58:DZ:35:ARG:HG3	58:DZ:35:ARG:HH11	1.64	0.63
1:AA:192:U:H2'	1:AA:193:C:C6	2.33	0.63
1:AA:1003:G:C2	1:AA:1004:A:H1'	2.33	0.63
1:AA:1281:U:H5''	1:AA:1282:C:H5	1.63	0.63
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.33	0.63
2:AB:223:ILE:HA	2:AB:226:ARG:HB3	1.81	0.63
9:AI:93:ARG:C	9:AI:95:LYS:H	2.06	0.63
12:AL:79:GLU:HB2	24:AY:442:THR:HG21	1.79	0.63
19:AS:64:GLU:C	29:B4:48:ARG:HH22	2.07	0.63
24:AY:122:TRP:C	24:AY:124:GLN:H	2.03	0.63
24:AY:553:GLY:HA2	24:AY:560:VAL:CG2	2.28	0.63
27:B2:69:ARG:CG	27:B2:70:GLN:N	2.59	0.63
35:BA:55:G:H2'	35:BA:56:A:H8	1.63	0.63
35:BA:1644:C:O2	35:BA:1644:C:H2'	1.98	0.63
35:BA:2472:G:H3'	35:BA:2475:C:H42	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:71:LYS:HG2	37:BC:72:GLN:H	1.63	0.63
37:BC:99:GLU:O	37:BC:100:ILE:HD13	1.98	0.63
37:BC:115:VAL:HA	37:BC:145:THR:HG22	1.80	0.63
38:BD:34:VAL:C	38:BD:36:PRO:HD2	2.24	0.63
48:BP:80:TYR:CD1	48:BP:111:ARG:HB3	2.34	0.63
51:BS:98:VAL:HG12	51:BS:100:ALA:N	2.13	0.63
58:BZ:153:SER:HB2	58:BZ:163:LEU:HD13	1.79	0.63
1:CA:176:C:H2'	1:CA:177:C:C6	2.33	0.63
1:CA:191:G:N3	20:CT:105:SER:HB3	2.14	0.63
1:CA:666:G:H5'	1:CA:726:C:H1'	1.80	0.63
1:CA:1269:A:C2	1:CA:1313:U:O4'	2.52	0.63
5:CE:64:ARG:HH11	5:CE:64:ARG:CG	2.09	0.63
6:CF:33:TYR:HA	6:CF:71:ARG:NH2	2.11	0.63
18:CR:44:LEU:O	18:CR:45:SER:C	2.39	0.63
20:CT:43:LEU:O	20:CT:46:GLU:N	2.32	0.63
28:D3:29:ARG:HB2	28:D3:29:ARG:NH1	2.14	0.63
35:DA:710:G:H2'	35:DA:711:G:H8	1.63	0.63
35:DA:848:G:H5'	35:DA:849:A:OP2	1.98	0.63
35:DA:958:U:H5'	49:DQ:14:ARG:HH11	1.62	0.63
35:DA:1012:U:C4	46:DN:28:THR:HG21	2.33	0.63
35:DA:2454:G:O2'	35:DA:2455:G:H5'	1.98	0.63
35:DA:2855:C:H2'	35:DA:2856:C:H6	1.64	0.63
38:DD:161:THR:O	38:DD:196:VAL:HG23	1.98	0.63
40:DF:38:ARG:O	40:DF:42:ALA:HB2	1.98	0.63
41:DG:11:TYR:O	41:DG:15:VAL:HB	1.99	0.63
47:DO:24:VAL:CG2	47:DO:30:ALA:HB3	2.27	0.63
52:DT:33:LYS:HE2	52:DT:43:GLN:OE1	1.98	0.63
53:DU:83:LEU:H	53:DU:83:LEU:HD12	1.64	0.63
53:DU:88:ILE:O	53:DU:88:ILE:HG13	1.99	0.63
1:AA:1403:C:H2'	1:AA:1403:C:O2	1.97	0.63
4:AD:8:VAL:HB	4:AD:21:LEU:HD12	1.79	0.63
6:AF:11:ASN:HB3	6:AF:14:LEU:HG	1.80	0.63
16:AP:82:GLN:O	16:AP:84:ALA:N	2.31	0.63
24:AY:139:MET:HE1	24:AY:146:LEU:HB2	1.80	0.63
24:AY:227:ILE:HG22	24:AY:227:ILE:O	1.98	0.63
24:AY:464:ASP:O	24:AY:468:ARG:HB2	1.99	0.63
28:B3:52:HIS:H	28:B3:52:HIS:CD2	2.17	0.63
30:B5:25:LEU:CD1	55:BW:19:LEU:HB3	2.28	0.63
31:B6:11:LEU:HD22	31:B6:12:GLU:N	2.13	0.63
35:BA:252:G:OP2	48:BP:50:ARG:NH1	2.32	0.63
35:BA:2131:G:H5'	35:BA:2133:G:H1'	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.81	0.63
35:BA:2720:U:H2'	35:BA:2721:A:C8	2.33	0.63
38:BD:76:PRO:HG2	38:BD:98:VAL:HG21	1.81	0.63
46:BN:46:VAL:O	46:BN:47:ALA:CB	2.46	0.63
1:CA:559:A:H4'	1:CA:560:U:C5'	2.29	0.63
1:CA:1095:U:P	1:CA:1108:G:H1	2.21	0.63
3:CC:142:MET:CE	3:CC:171:GLY:HA3	2.28	0.63
20:CT:42:GLN:HE21	20:CT:42:GLN:HA	1.64	0.63
24:CY:276:VAL:O	24:CY:280:LEU:HD23	1.98	0.63
35:DA:311:A:H5'	35:DA:332:A:C2	2.33	0.63
35:DA:790:C:H5'	35:DA:791:C:OP2	1.99	0.63
35:DA:1510:G:O2'	35:DA:1511:C:H5'	1.99	0.63
35:DA:2172:U:H1'	35:DA:2173:A:OP1	1.97	0.63
35:DA:2244:U:O2	35:DA:2434:A:H2'	1.98	0.63
35:DA:2348:U:C2'	35:DA:2349:G:H5''	2.28	0.63
44:DK:115:LEU:HD22	44:DK:126:MET:HE2	1.81	0.63
48:DP:16:ARG:CD	48:DP:18:ARG:H	2.08	0.63
48:DP:146:VAL:O	48:DP:148:LEU:N	2.32	0.63
52:DT:90:GLN:O	52:DT:91:ARG:C	2.41	0.63
56:DX:70:LEU:HD23	56:DX:71:GLY:N	2.14	0.63
58:DZ:145:GLU:HG3	58:DZ:146:ILE:HG12	1.79	0.63
1:AA:194:C:C2'	1:AA:195:A:H5''	2.29	0.63
3:AC:181:ASN:HD22	3:AC:204:LEU:HB2	1.64	0.63
9:AI:8:GLY:HA2	9:AI:79:LEU:HD12	1.81	0.63
12:AL:75:HIS:HD2	12:AL:77:LEU:HD12	1.62	0.63
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.29	0.63
13:AM:90:LEU:O	13:AM:91:ARG:C	2.40	0.63
24:AY:18:ALA:O	24:AY:19:ALA:HB2	1.99	0.63
35:BA:221:A:H61	35:BA:265:A:H8	1.46	0.63
35:BA:491:G:H2'	35:BA:492:A:H8	1.62	0.63
35:BA:629:G:H5''	35:BA:650:C:O2'	1.98	0.63
35:BA:710:G:H2'	35:BA:711:G:H8	1.64	0.63
35:BA:2259:G:O2'	35:BA:2260:C:H5'	1.99	0.63
35:BA:2348:U:H2'	35:BA:2349:G:C5'	2.29	0.63
35:BA:2762:G:H5'	35:BA:2762:G:C8	2.34	0.63
35:BA:2876:G:H4'	52:BT:3:ARG:NE	2.12	0.63
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.79	0.63
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.22	0.63
1:CA:370:C:O2'	1:CA:371:G:H5'	1.98	0.63
1:CA:1002:G:H22	1:CA:1039:C:H2'	1.64	0.63
1:CA:1492:A:H2'	1:CA:1493:A:C8	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:70:VAL:CG1	3:CC:71:ALA:H	2.07	0.63
3:CC:113:ALA:HB3	3:CC:183:ASP:OD2	1.98	0.63
9:CI:114:TYR:HE1	10:CJ:60:ARG:N	1.95	0.63
27:D2:69:ARG:O	27:D2:70:GLN:HB2	1.99	0.63
33:D8:42:ARG:O	33:D8:44:LYS:N	2.29	0.63
33:D8:56:GLU:HA	33:D8:59:LYS:HZ3	1.64	0.63
35:DA:84:A:H5'	57:DY:9:LYS:HB3	1.81	0.63
35:DA:769:G:O2'	35:DA:770:G:H5'	1.99	0.63
35:DA:1237:A:O2'	35:DA:1238:G:O4'	2.16	0.63
39:DE:8:LYS:O	39:DE:193:GLY:N	2.32	0.63
50:DR:97:VAL:HG13	50:DR:114:VAL:HG22	1.79	0.63
52:DT:11:GLU:C	52:DT:13:ARG:H	2.06	0.63
57:DY:51:VAL:HG12	57:DY:53:PRO:HD2	1.80	0.63
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.31	0.63
1:AA:512:U:H2'	1:AA:513:C:H6	1.64	0.63
1:AA:824:C:H2'	1:AA:825:G:H8	1.64	0.63
1:AA:1128:C:H2'	1:AA:1129:C:C5'	2.24	0.63
2:AB:111:ARG:HH11	2:AB:111:ARG:HG2	1.64	0.63
2:AB:120:ALA:O	2:AB:121:LEU:HD23	1.99	0.63
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.14	0.63
5:AE:72:GLN:HE22	5:AE:144:THR:HG22	1.62	0.63
8:AH:1:MET:N	8:AH:1:MET:HE2	2.13	0.63
12:AL:27:LEU:HD21	12:AL:64:TYR:CE1	2.34	0.63
22:AW:72:C:H2'	22:AW:73:A:C8	2.34	0.63
25:B0:73:GLY:C	25:B0:75:LEU:H	2.06	0.63
27:B2:47:ASN:HB2	35:BA:95:G:H1'	1.80	0.63
31:B6:37:ARG:NH2	35:BA:2286:A:H62	1.96	0.63
35:BA:286:C:H2'	35:BA:287:C:C6	2.34	0.63
35:BA:603:A:H4'	35:BA:604:G:O5'	1.98	0.63
35:BA:1835:G:H1'	35:BA:1931:U:O2	1.98	0.63
35:BA:2244:U:O2	35:BA:2434:A:H2'	1.98	0.63
35:BA:2312:U:H4'	41:BG:71:THR:OG1	1.98	0.63
35:BA:2344:U:O2'	35:BA:2345:G:H5''	1.98	0.63
38:BD:72:LYS:HE2	38:BD:101:GLU:OE2	1.98	0.63
39:BE:64:LYS:C	39:BE:66:HIS:H	2.07	0.63
51:BS:67:ARG:HB3	51:BS:71:ARG:HH22	1.63	0.63
52:BT:42:ILE:O	52:BT:42:ILE:HG13	1.97	0.63
57:BY:96:ILE:HD12	57:BY:99:CYS:SG	2.37	0.63
1:CA:509:A:C5'	1:CA:510:A:OP2	2.34	0.63
1:CA:1305:G:OP1	21:CU:2:GLY:N	2.32	0.63
3:CC:110:ASN:OD1	3:CC:140:ARG:HD2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:108:LEU:HD21	4:CD:183:GLY:HA3	1.80	0.63
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.13	0.63
19:CS:24:ALA:O	19:CS:25:LYS:HB2	1.98	0.63
23:CX:16:A:H2'	23:CX:17:U:H6	1.63	0.63
24:CY:530:VAL:HG12	24:CY:533:VAL:CG2	2.29	0.63
25:D0:42:GLY:HA3	35:DA:2331:G:O4'	1.98	0.63
35:DA:1141:U:H6	46:DN:63:THR:HG21	1.63	0.63
35:DA:1717:G:C3'	35:DA:1718:G:H5''	2.29	0.63
44:DK:58:THR:O	44:DK:66:THR:HG22	1.98	0.63
47:DO:104:ARG:HH21	52:DT:33:LYS:CE	2.11	0.63
50:DR:100:LEU:HD22	50:DR:100:LEU:N	2.11	0.63
52:DT:35:LYS:NZ	52:DT:41:ARG:HH11	1.96	0.63
54:DV:81:TYR:C	54:DV:82:ARG:HD2	2.24	0.63
56:DX:26:TYR:HD2	56:DX:92:LEU:HD12	1.63	0.63
1:AA:191:G:N3	20:AT:105:SER:HB3	2.14	0.63
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.33	0.63
1:AA:1510:U:O2	1:AA:1526:G:C2	2.52	0.63
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.62	0.63
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.24	0.63
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.29	0.63
10:AJ:71:LEU:HD12	10:AJ:72:VAL:N	2.13	0.63
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.14	0.63
24:AY:316:ILE:HD12	24:AY:326:THR:HG22	1.80	0.63
35:BA:1030:G:OP2	49:BQ:128:LYS:HE2	1.98	0.63
35:BA:2052:G:H4'	39:BE:143:ASN:O	1.99	0.63
35:BA:2131:G:H5'	35:BA:2133:G:C1'	2.29	0.63
39:BE:24:THR:HG22	39:BE:186:GLY:CA	2.27	0.63
39:BE:69:LYS:HE2	39:BE:69:LYS:H	1.64	0.63
39:BE:101:ARG:HH11	39:BE:169:ASN:HD22	1.44	0.63
41:BG:153:ARG:HB3	41:BG:153:ARG:NH1	2.14	0.63
43:BJ:26:UNK:CA	43:BJ:84:UNK:HA	2.28	0.63
54:BV:79:VAL:HG12	54:BV:79:VAL:O	1.98	0.63
58:BZ:120:ILE:O	58:BZ:120:ILE:HG22	1.99	0.63
1:CA:512:U:H2'	1:CA:513:C:H6	1.63	0.63
3:CC:181:ASN:HD22	3:CC:204:LEU:HB2	1.61	0.63
15:CO:76:GLU:C	15:CO:78:TYR:H	2.07	0.63
22:CW:31:G:O2'	22:CW:32:G:H5'	1.99	0.63
31:D6:43:CYS:O	31:D6:44:ARG:HB2	1.97	0.63
35:DA:814:C:H2'	35:DA:815:C:H6	1.62	0.63
35:DA:2348:U:H2'	35:DA:2349:G:C5'	2.29	0.63
36:DB:21:G:H2'	36:DB:21:G:N3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:8:LYS:HG2	39:DE:192:ASN:HA	1.81	0.63
40:DF:32:LEU:HD13	40:DF:112:MET:HE1	1.80	0.63
42:DH:156:ALA:O	42:DH:158:HIS:CD2	2.52	0.63
46:DN:22:THR:HA	46:DN:61:ARG:O	1.99	0.63
46:DN:57:ALA:N	46:DN:124:ALA:HA	2.14	0.63
48:DP:97:PRO:O	48:DP:98:GLU:CB	2.46	0.63
1:AA:384:G:H2'	1:AA:385:C:C6	2.34	0.62
1:AA:579:G:C5'	1:AA:728:A:H1'	2.28	0.62
22:AW:75:C:H2'	22:AW:76:C:O4'	1.99	0.62
24:AY:468:ARG:C	24:AY:470:PHE:H	2.07	0.62
30:B5:40:LYS:HD3	30:B5:44:THR:HB	1.81	0.62
31:B6:35:GLU:HA	31:B6:35:GLU:OE1	1.99	0.62
35:BA:1012:U:H3	46:BN:25:ARG:HE	1.46	0.62
35:BA:1127:A:H2'	35:BA:1128:A:H5''	1.80	0.62
35:BA:1268:A:H2'	35:BA:1269:A:O4'	1.98	0.62
35:BA:1747(A):G:O2'	35:BA:1748:G:H5''	1.97	0.62
36:BB:21:G:N3	36:BB:21:G:H2'	2.13	0.62
40:BF:28:ILE:H	40:BF:28:ILE:CD1	2.12	0.62
44:BK:56:GLU:O	44:BK:67:PHE:HA	1.99	0.62
45:BL:15:UNK:CB	45:Bm:11:UNK:HA	2.28	0.62
52:BT:1:MET:N	52:BT:7:ILE:HD11	2.13	0.62
53:BU:88:ILE:O	53:BU:88:ILE:HG13	1.98	0.62
58:BZ:153:SER:C	58:BZ:155:LEU:HD23	2.24	0.62
1:CA:160:A:H1'	1:CA:344:A:C8	2.34	0.62
1:CA:203:U:H5''	1:CA:204:U:OP1	1.98	0.62
1:CA:1026:G:C2'	1:CA:1027:C:H5'	2.29	0.62
31:D6:35:GLU:HB2	31:D6:51:GLU:HB2	1.80	0.62
35:DA:581:C:H2'	35:DA:582:G:H8	1.63	0.62
35:DA:1053:C:H3'	35:DA:1054:A:H5''	1.79	0.62
35:DA:1748:G:H2'	35:DA:1749:A:O4'	1.99	0.62
35:DA:2131:G:H5'	35:DA:2133:G:C1'	2.29	0.62
38:DD:35:LYS:NZ	38:DD:36:PRO:HD3	2.02	0.62
39:DE:47:VAL:HG23	39:DE:84:PHE:O	1.99	0.62
41:DG:172:LEU:O	41:DG:172:LEU:HD23	1.99	0.62
47:DO:69:ILE:HD12	47:DO:69:ILE:N	2.14	0.62
48:DP:96:THR:O	48:DP:99:LEU:HB3	1.99	0.62
49:DQ:56:ARG:HA	49:DQ:56:ARG:NE	2.14	0.62
57:DY:97:ARG:HG3	57:DY:97:ARG:HH11	1.63	0.62
58:DZ:79:ARG:O	58:DZ:80:ARG:HB2	1.99	0.62
1:AA:332:G:O2'	1:AA:333:G:H5'	1.99	0.62
1:AA:1026:G:C2'	1:AA:1027:C:H5'	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:114:PRO:HD3	3:AC:183:ASP:OD2	1.99	0.62
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.23	0.62
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.64	0.62
10:AJ:3:LYS:NZ	10:AJ:77:PRO:HD2	2.14	0.62
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.34	0.62
24:AY:165:GLN:HB2	24:AY:260:LEU:CD1	2.29	0.62
24:AY:255:ILE:HG12	24:AY:256:THR:N	2.14	0.62
24:AY:573:HIS:CD2	24:AY:576:ASP:H	2.15	0.62
35:BA:11:G:H22	35:BA:2628:C:P	2.22	0.62
35:BA:840:C:C2'	35:BA:841:A:H5''	2.28	0.62
35:BA:1012:U:O4	46:BN:28:THR:HG21	1.98	0.62
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.27	0.62
35:BA:1059:G:H2'	35:BA:1060:U:C6	2.34	0.62
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.30	0.62
35:BA:2795:G:H21	35:BA:2796:U:H5	1.46	0.62
38:BD:28:GLU:HB2	38:BD:29:PRO:CD	2.29	0.62
38:BD:259:THR:O	38:BD:260:ARG:C	2.41	0.62
42:BH:44:VAL:O	42:BH:50:VAL:HG13	1.99	0.62
52:BT:26:ASP:C	52:BT:26:ASP:OD2	2.42	0.62
54:BV:32:THR:HG23	54:BV:59:ALA:O	2.00	0.62
1:CA:383:A:H2'	1:CA:384:G:H5'	1.80	0.62
1:CA:673:G:H2'	1:CA:674:G:C8	2.34	0.62
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.35	0.62
1:CA:1328:C:H2'	1:CA:1329:A:C8	2.34	0.62
1:CA:1452:C:H1'	1:CA:1456:G:C2	2.33	0.62
2:CB:21:ARG:HD2	2:CB:39:ILE:CG1	2.29	0.62
2:CB:168:THR:CG2	2:CB:192:SER:HB3	2.23	0.62
16:CP:50:LYS:HG2	16:CP:51:VAL:N	2.13	0.62
22:CV:1:C:H2'	22:CV:2:G:H8	1.64	0.62
33:D8:14:VAL:HG21	33:D8:22:VAL:HG13	1.80	0.62
33:D8:47:LYS:NZ	33:D8:49:VAL:HG13	2.14	0.62
35:DA:1120:G:H2'	35:DA:1121:C:C6	2.34	0.62
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.33	0.62
35:DA:2552:U:C2	35:DA:2554:U:H5'	2.34	0.62
37:DC:65:LEU:HD13	37:DC:189:ASN:ND2	2.14	0.62
38:DD:28:GLU:HB2	38:DD:29:PRO:CD	2.29	0.62
41:DG:55:LYS:HG2	41:DG:58:GLN:HE21	1.63	0.62
49:DQ:60:ARG:HB2	49:DQ:60:ARG:NH1	2.14	0.62
50:DR:78:LYS:O	50:DR:83:ILE:HG12	1.99	0.62
58:DZ:180:VAL:O	58:DZ:182:LYS:N	2.32	0.62
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.34	0.62
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.81	0.62
22:AW:50:G:H2'	22:AW:51:U:O4'	1.99	0.62
28:B3:4:LEU:HD11	28:B3:39:ASP:OD1	1.99	0.62
31:B6:5:VAL:HG12	31:B6:6:ARG:N	2.14	0.62
35:BA:1061:U:O4	44:BK:52:ILE:HG21	1.99	0.62
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.47	0.62
39:BE:36:ARG:NH2	39:BE:88:GLY:H	1.97	0.62
39:BE:47:VAL:HG23	39:BE:84:PHE:O	1.98	0.62
42:BH:124:GLU:HG3	42:BH:132:ARG:HG3	1.80	0.62
44:BK:79:ARG:HD2	44:BK:85:GLU:O	1.99	0.62
52:BT:132:LYS:H	52:BT:132:LYS:CD	2.11	0.62
57:BY:62:GLU:CG	57:BY:63:LYS:H	2.11	0.62
58:BZ:42:VAL:HG13	58:BZ:43:GLU:N	2.14	0.62
1:CA:781:A:H4'	1:CA:1522:U:O2'	1.98	0.62
4:CD:173:TRP:HB3	4:CD:187:ARG:NH1	2.14	0.62
6:CF:71:ARG:HH11	6:CF:71:ARG:HG3	1.62	0.62
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.64	0.62
22:CW:52:C:C3'	22:CW:53:G:H5''	2.29	0.62
24:CY:90:PHE:CZ	61:CY:702:FUA:H121	2.34	0.62
25:D0:16:SER:OG	35:DA:2261:C:H3'	1.99	0.62
35:DA:1329:U:H5'	35:DA:1330:C:H5	1.63	0.62
35:DA:1380:G:H2'	35:DA:1381:G:H8	1.64	0.62
35:DA:1717:G:H2'	35:DA:1718:G:H5''	1.80	0.62
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.80	0.62
35:DA:2262:U:O2'	35:DA:2263:C:H5''	1.98	0.62
50:DR:97:VAL:HA	50:DR:113:LEU:O	2.00	0.62
52:DT:11:GLU:CD	52:DT:11:GLU:H	2.08	0.62
52:DT:106:SER:O	52:DT:107:ASP:HB3	1.97	0.62
1:AA:8:A:N6	4:AD:209:ARG:HB2	2.12	0.62
1:AA:692:U:OP1	11:AK:124:LYS:HE2	1.99	0.62
1:AA:793:U:H3'	1:AA:794:A:C5'	2.22	0.62
8:AH:104:ARG:O	8:AH:106:GLY:N	2.33	0.62
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.26	0.62
17:AQ:66:SER:O	17:AQ:70:ARG:NH1	2.33	0.62
18:AR:45:SER:H	18:AR:51:LEU:HG	1.62	0.62
24:AY:201:ILE:HD12	24:AY:201:ILE:N	2.13	0.62
26:B1:57:GLU:HG2	26:B1:58:ILE:H	1.64	0.62
26:B1:86:SER:HB2	26:B1:90:ILE:HD11	1.80	0.62
31:B6:11:LEU:HG	31:B6:26:ASN:ND2	2.13	0.62
33:B8:42:ARG:O	33:B8:44:LYS:N	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2228:G:H2'	35:BA:2229:C:C6	2.34	0.62
35:BA:2262:U:O2'	35:BA:2263:C:H5''	1.99	0.62
37:BC:73:VAL:HG11	37:BC:158:LYS:HA	1.81	0.62
38:BD:241:PRO:C	38:BD:242:ARG:HG3	2.24	0.62
39:BE:101:ARG:HH11	39:BE:169:ASN:ND2	1.98	0.62
40:BF:123:LEU:CD1	40:BF:192:LEU:HD22	2.29	0.62
41:BG:16:ARG:NE	41:BG:31:VAL:HG11	2.14	0.62
41:BG:180:PHE:O	41:BG:181:ARG:C	2.41	0.62
48:BP:97:PRO:O	48:BP:98:GLU:CB	2.46	0.62
50:BR:117:VAL:HG12	50:BR:118:GLU:N	2.13	0.62
55:BW:88:ARG:HB3	55:BW:92:ARG:HB3	1.81	0.62
1:CA:384:G:H2'	1:CA:385:C:C6	2.34	0.62
1:CA:692:U:OP1	11:CK:124:LYS:HE2	2.00	0.62
1:CA:740:U:O2'	1:CA:741:G:H5'	1.99	0.62
1:CA:955:U:O2'	1:CA:956:U:H5'	1.99	0.62
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.34	0.62
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.14	0.62
3:CC:11:ARG:O	3:CC:13:GLY:N	2.33	0.62
21:CU:6:ARG:HH21	21:CU:15:ARG:NH2	1.97	0.62
24:CY:242:LEU:O	24:CY:245:ALA:HB3	1.99	0.62
35:DA:1332:G:H22	35:DA:1609:A:H3'	1.64	0.62
35:DA:1917:U:C2'	35:DA:1918:A:H5'	2.28	0.62
35:DA:2345:G:O2'	35:DA:2381:C:H2'	2.00	0.62
36:DB:54:G:O2'	36:DB:55:U:H5'	1.99	0.62
38:DD:34:VAL:C	38:DD:36:PRO:HD2	2.24	0.62
40:DF:53:THR:CG2	40:DF:56:GLU:HG3	2.21	0.62
52:DT:38:ASN:ND2	52:DT:40:THR:H	1.98	0.62
58:DZ:37:VAL:HG23	58:DZ:38:TYR:N	2.13	0.62
1:AA:662:G:H2'	1:AA:663:A:H8	1.64	0.62
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.13	0.62
1:AA:1334:G:H5'	1:AA:1335:C:OP2	1.99	0.62
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.00	0.62
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.13	0.62
4:AD:173:TRP:HB3	4:AD:187:ARG:NH1	2.15	0.62
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.13	0.62
18:AR:40:LEU:O	18:AR:42:ARG:N	2.33	0.62
24:AY:662:LYS:NZ	42:BH:175:LYS:CG	2.63	0.62
25:B0:26:TYR:HE2	35:BA:857:C:H1'	1.65	0.62
35:BA:581:C:H2'	35:BA:582:G:H8	1.62	0.62
35:BA:589:C:O2'	35:BA:590:A:H5'	1.99	0.62
35:BA:947:G:H2'	35:BA:948:G:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2428:G:H5'	35:BA:2429:G:OP1	2.00	0.62
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.29	0.62
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.63	0.62
38:BD:158:ALA:HB3	38:BD:161:THR:CG2	2.29	0.62
42:BH:136:ILE:HD12	42:BH:136:ILE:N	2.14	0.62
44:BK:41:PHE:CE1	44:BK:45:THR:HG21	2.34	0.62
44:BK:115:LEU:HD22	44:BK:126:MET:HE2	1.81	0.62
50:BR:97:VAL:HG13	50:BR:114:VAL:HG22	1.81	0.62
52:BT:10:VAL:O	52:BT:12:SER:N	2.33	0.62
53:BU:80:ILE:O	53:BU:84:LYS:HB2	2.00	0.62
54:BV:81:TYR:C	54:BV:82:ARG:HD2	2.24	0.62
58:BZ:59:LEU:HD11	58:BZ:88:PHE:CD2	2.35	0.62
1:CA:579:G:C5'	1:CA:728:A:H1'	2.28	0.62
1:CA:1003:G:C2	1:CA:1004:A:H1'	2.35	0.62
2:CB:120:ALA:O	2:CB:121:LEU:HD23	2.00	0.62
2:CB:220:ASP:O	2:CB:223:ILE:HG13	1.99	0.62
2:CB:223:ILE:HA	2:CB:226:ARG:HB3	1.81	0.62
4:CD:121:VAL:HA	4:CD:126:ILE:HD13	1.81	0.62
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	1.99	0.62
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	1.99	0.62
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.81	0.62
10:CJ:75:ILE:CG1	10:CJ:76:ASN:H	2.04	0.62
19:CS:9:VAL:HG23	29:D4:53:GLU:OE2	1.99	0.62
24:CY:541:ALA:HB2	24:CY:579:GLU:HG2	1.81	0.62
28:D3:36:VAL:O	28:D3:37:LEU:HD23	2.00	0.62
35:DA:310:A:OP2	57:DY:18:GLY:HA2	1.99	0.62
35:DA:840:C:C2'	35:DA:841:A:H5''	2.29	0.62
35:DA:1504:C:C2'	35:DA:1505:C:H5''	2.30	0.62
35:DA:2298:A:H62	35:DA:2318:G:H8	1.47	0.62
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.80	0.62
35:DA:2639:A:H2'	35:DA:2640:G:O4'	1.99	0.62
39:DE:59:VAL:HG22	39:DE:62:PRO:O	1.99	0.62
39:DE:64:LYS:C	39:DE:66:HIS:H	2.06	0.62
40:DF:195:ASP:CG	40:DF:196:LEU:H	2.07	0.62
42:DH:19:VAL:HG12	42:DH:20:ALA:N	2.13	0.62
46:DN:67:LEU:CD2	46:DN:87:LEU:HB3	2.30	0.62
51:DS:67:ARG:HB3	51:DS:71:ARG:NH2	2.14	0.62
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.14	0.62
54:DV:79:VAL:HG12	54:DV:79:VAL:O	1.99	0.62
1:AA:291:C:O2'	1:AA:292:G:H5'	1.99	0.62
1:AA:633:G:H5'	1:AA:634:C:OP2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.14	0.62
3:AC:113:ALA:HB3	3:AC:183:ASP:OD2	1.98	0.62
12:AL:23:LYS:O	12:AL:24:VAL:HG23	2.00	0.62
13:AM:83:ASP:CG	13:AM:84:ILE:N	2.58	0.62
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.08	0.62
20:AT:43:LEU:HB3	20:AT:48:LYS:HB2	1.82	0.62
22:AV:47:U:H3'	22:AV:48:C:H5'	1.82	0.62
26:B1:47:GLN:HG3	35:BA:2091:U:O2'	2.00	0.62
28:B3:29:ARG:HB2	28:B3:29:ARG:NH1	2.14	0.62
33:B8:25:MET:HG3	48:BP:64:LYS:HB2	1.82	0.62
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.00	0.62
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.65	0.62
35:BA:2168:G:N2	35:BA:2170:A:H3'	2.14	0.62
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.65	0.62
35:BA:2344:U:H4'	35:BA:2345:G:OP1	1.98	0.62
42:BH:98:LEU:HD12	42:BH:102:ALA:O	1.99	0.62
48:BP:41:ARG:HA	48:BP:41:ARG:NH2	2.07	0.62
51:BS:106:ARG:HB3	51:BS:106:ARG:NH1	2.13	0.62
52:BT:25:GLY:HA2	52:BT:92:GLY:CA	2.29	0.62
56:BX:26:TYR:HD2	56:BX:92:LEU:HD12	1.65	0.62
1:CA:250:A:H4'	1:CA:251:G:O5'	1.99	0.62
1:CA:1148:U:O3'	9:CI:14:VAL:HG11	2.00	0.62
2:CB:215:LEU:O	2:CB:219:VAL:HG23	2.00	0.62
3:CC:114:PRO:HD3	3:CC:183:ASP:OD2	1.99	0.62
4:CD:8:VAL:HB	4:CD:21:LEU:HD12	1.82	0.62
6:CF:69:GLU:O	6:CF:72:VAL:HG12	2.00	0.62
20:CT:29:LYS:O	20:CT:33:ILE:HG13	2.00	0.62
20:CT:33:ILE:HD13	20:CT:63:ILE:HG12	1.81	0.62
23:CX:12:A:H2	23:CX:13:A:H5'	1.64	0.62
24:CY:243:VAL:HG13	24:CY:279:TYR:CE1	2.35	0.62
24:CY:630:GLN:HE22	24:CY:646:PHE:HD2	1.46	0.62
35:DA:52:A:O2'	35:DA:53:A:H5'	1.99	0.62
35:DA:336:C:H4'	57:DY:7:VAL:HG21	1.80	0.62
35:DA:570:G:H2'	35:DA:2030:A:N7	2.14	0.62
35:DA:748:G:O6	35:DA:751:A:H4'	1.98	0.62
37:DC:115:VAL:HG12	37:DC:145:THR:HG23	1.81	0.62
38:DD:72:LYS:HE2	38:DD:101:GLU:OE2	1.99	0.62
41:DG:77:ILE:CG2	41:DG:80:PHE:HB2	2.29	0.62
46:DN:45:ASN:H	46:DN:45:ASN:ND2	1.93	0.62
48:DP:23:PRO:C	48:DP:33:ARG:CZ	2.73	0.62
48:DP:23:PRO:O	48:DP:33:ARG:HD2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:96:THR:HG22	48:DP:126:VAL:HB	1.81	0.62
1:AA:250:A:H4'	1:AA:251:G:O5'	1.99	0.62
1:AA:718:G:C8	11:AK:116:HIS:HB3	2.34	0.62
2:AB:80:ILE:HD12	2:AB:80:ILE:H	1.63	0.62
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.99	0.62
15:AO:74:ASP:C	15:AO:76:GLU:H	2.06	0.62
24:AY:17:ILE:HD12	24:AY:17:ILE:N	2.14	0.62
24:AY:111:SER:O	24:AY:113:GLY:N	2.33	0.62
30:B5:56:LYS:HG3	30:B5:57:VAL:N	2.11	0.62
31:B6:6:ARG:HD2	31:B6:6:ARG:H	1.64	0.62
31:B6:45:LYS:HG2	35:BA:2371:G:H4'	1.80	0.62
35:BA:965:C:C4'	35:BA:2273:A:H1'	2.29	0.62
42:BH:30:LYS:CD	42:BH:81:GLU:HG2	2.29	0.62
46:BN:82:LEU:HD23	46:BN:82:LEU:C	2.24	0.62
52:BT:106:SER:O	52:BT:107:ASP:HB3	2.00	0.62
54:BV:47:VAL:HB	54:BV:50:PRO:O	1.99	0.62
1:CA:1152:A:H5''	10:CJ:13:HIS:CD2	2.34	0.62
1:CA:1284:C:H3'	1:CA:1285:A:C5'	2.28	0.62
2:CB:156:LYS:O	2:CB:157:ARG:HB3	1.98	0.62
3:CC:150:LYS:HB2	3:CC:169:ALA:HB2	1.80	0.62
5:CE:51:VAL:O	5:CE:55:VAL:HG23	2.00	0.62
6:CF:16:GLN:HA	6:CF:19:LEU:HB3	1.81	0.62
6:CF:69:GLU:CD	6:CF:69:GLU:H	2.07	0.62
13:CM:15:VAL:HG12	13:CM:45:VAL:CG2	2.28	0.62
15:CO:74:ASP:C	15:CO:76:GLU:H	2.08	0.62
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.82	0.62
24:CY:128:TYR:CE2	24:CY:130:VAL:HG23	2.33	0.62
24:CY:289:ILE:CG2	24:CY:290:LYS:H	2.12	0.62
24:CY:512:ILE:HG22	24:CY:567:LEU:HA	1.81	0.62
24:CY:646:PHE:O	24:CY:647:VAL:HG13	1.99	0.62
24:CY:688:ILE:HG22	24:CY:688:ILE:O	1.98	0.62
30:D5:40:LYS:HE2	30:D5:46:CYS:HB3	1.81	0.62
35:DA:272(B):G:H2'	35:DA:272(C):G:C8	2.34	0.62
35:DA:896:A:O4'	58:DZ:146:ILE:HD12	2.00	0.62
38:DD:186:HIS:HD2	38:DD:188:GLU:H	1.46	0.62
39:DE:48:GLN:HE21	39:DE:78:LEU:HD22	1.64	0.62
48:DP:84:ASN:C	48:DP:86:LYS:H	2.05	0.62
52:DT:132:LYS:H	52:DT:132:LYS:CD	2.13	0.62
58:DZ:55:HIS:O	58:DZ:57:ILE:HD12	2.00	0.62
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.82	0.62
13:AM:81:LEU:HD12	13:AM:86:CYS:SG	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:47:U:H3'	22:AV:48:C:C5'	2.30	0.62
35:BA:1223:G:H5'	35:BA:1224:C:OP2	1.98	0.62
35:BA:1541:G:O2'	35:BA:1542:A:H5''	1.99	0.62
35:BA:1842:G:H2'	35:BA:1843:C:C6	2.34	0.62
35:BA:1946:U:H2'	35:BA:1947:C:H6	1.64	0.62
38:BD:232:PRO:HD2	38:BD:249:PRO:HA	1.82	0.62
39:BE:59:VAL:HG22	39:BE:62:PRO:O	2.00	0.62
41:BG:77:ILE:HG21	41:BG:80:PHE:HB2	1.79	0.62
58:BZ:105:VAL:O	58:BZ:105:VAL:HG13	1.99	0.62
1:CA:72:C:H2'	1:CA:73:G:H8	1.64	0.62
1:CA:1303:C:H2'	1:CA:1304:G:H5'	1.81	0.62
9:CI:47:LEU:C	9:CI:49:PRO:HD2	2.24	0.62
12:CL:18:VAL:HG23	12:CL:19:ARG:N	2.07	0.62
13:CM:4:ILE:HG22	13:CM:5:ALA:H	1.64	0.62
16:CP:82:GLN:O	16:CP:84:ALA:N	2.32	0.62
20:CT:13:LEU:HD12	20:CT:13:LEU:N	2.13	0.62
24:CY:289:ILE:CG2	24:CY:290:LYS:N	2.62	0.62
35:DA:94:C:H5'	35:DA:94(A):G:OP2	1.99	0.62
35:DA:363(D):G:O2'	35:DA:363(E):U:H5'	2.00	0.62
35:DA:2720:U:H2'	35:DA:2721:A:C8	2.34	0.62
38:DD:9:TYR:C	38:DD:10:THR:HG22	2.24	0.62
39:DE:69:LYS:HE2	39:DE:69:LYS:H	1.64	0.62
45:DL:62:UNK:HA	45:DL:120:UNK:CB	2.29	0.62
46:DN:82:LEU:HD23	46:DN:82:LEU:C	2.25	0.62
54:DV:18:LEU:HD13	54:DV:19:LYS:N	2.15	0.62
54:DV:32:THR:HG1	54:DV:60:GLU:HG3	1.65	0.62
55:DW:88:ARG:HB3	55:DW:92:ARG:HB3	1.82	0.62
58:DZ:109:ALA:C	58:DZ:111:VAL:H	2.05	0.62
1:AA:203:U:H5''	1:AA:204:U:OP1	2.00	0.62
1:AA:383:A:H2'	1:AA:384:G:H5'	1.82	0.62
1:AA:1415:G:H2'	1:AA:1416:G:H8	1.65	0.62
2:AB:155:LEU:C	2:AB:155:LEU:HD13	2.24	0.62
4:AD:108:LEU:O	4:AD:165:MET:HE2	2.00	0.62
24:AY:162:VAL:O	24:AY:164:MET:HG2	1.98	0.62
24:AY:416:LYS:HD3	24:AY:417:THR:N	2.15	0.62
24:AY:460:GLU:O	24:AY:463:VAL:HB	2.00	0.62
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	1.81	0.62
35:BA:492:A:C2'	35:BA:493:G:H5'	2.30	0.62
35:BA:1012:U:C4	46:BN:28:THR:HG21	2.35	0.62
40:BF:59:TYR:HE1	40:BF:85:GLY:O	1.83	0.62
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:17:ALA:HB3	44:BK:38:VAL:HG13	1.81	0.62
46:BN:17:ASP:CG	46:BN:56:ASN:HB3	2.25	0.62
46:BN:39:ARG:HB2	46:BN:41:ASP:OD1	1.98	0.62
51:BS:106:ARG:HD2	51:BS:106:ARG:C	2.24	0.62
52:BT:28:VAL:HG22	52:BT:47:GLY:N	2.14	0.62
1:CA:999:C:H2'	1:CA:1000:U:C5	2.34	0.62
3:CC:52:LEU:H	3:CC:52:LEU:CD2	2.11	0.62
13:CM:63:THR:HG22	13:CM:64:TRP:N	2.14	0.62
15:CO:56:LEU:O	15:CO:60:VAL:HG23	2.00	0.62
24:CY:21:ILE:HD13	24:CY:21:ILE:N	2.15	0.62
27:D2:39:ALA:HA	27:D2:45:SER:HB3	1.82	0.62
32:D7:24:THR:HG23	32:D7:27:GLY:N	2.15	0.62
35:DA:271(R):G:O2'	35:DA:271(S):G:H5'	2.00	0.62
35:DA:965:C:C4'	35:DA:2273:A:H1'	2.30	0.62
35:DA:2312:U:C2'	35:DA:2313:C:H5''	2.30	0.62
35:DA:2876:G:H4'	52:DT:3:ARG:NE	2.12	0.62
38:DD:24:ILE:O	38:DD:25:THR:O	2.18	0.62
40:DF:123:LEU:CD1	40:DF:192:LEU:HD22	2.29	0.62
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.80	0.62
42:DH:98:LEU:HD12	42:DH:102:ALA:O	2.00	0.62
46:DN:23:LEU:O	46:DN:23:LEU:HD23	1.99	0.62
47:DO:26:LYS:HB3	47:DO:30:ALA:HB2	1.82	0.62
51:DS:42:ASP:C	51:DS:44:LYS:H	2.08	0.62
51:DS:89:ARG:CG	51:DS:92:TYR:HA	2.28	0.62
1:AA:1275:A:O2'	1:AA:1276:G:H5'	1.99	0.62
2:AB:31:TYR:CE1	2:AB:200:ILE:HD12	2.32	0.62
2:AB:43:ASP:OD2	2:AB:46:LYS:HB2	2.00	0.62
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	1.99	0.62
13:AM:63:THR:HG22	13:AM:64:TRP:N	2.14	0.62
14:AN:12:ARG:O	14:AN:14:PRO:HD3	1.98	0.62
20:AT:33:ILE:HD13	20:AT:63:ILE:HG12	1.82	0.62
27:B2:64:LEU:O	27:B2:68:ARG:HB2	1.99	0.62
30:B5:40:LYS:HE2	30:B5:46:CYS:HB3	1.82	0.62
33:B8:8:LYS:HE3	35:BA:245:G:O6	2.00	0.62
35:BA:481:G:H2'	35:BA:507:A:N1	2.14	0.62
35:BA:781:A:C8	38:BD:219:PRO:HG3	2.35	0.62
35:BA:1062:G:H21	44:BK:133:SER:HA	1.63	0.62
35:BA:2039:C:H2'	35:BA:2040:C:H6	1.65	0.62
35:BA:2286:A:H4'	35:BA:2287:A:C5'	2.25	0.62
38:BD:43:ARG:HD2	38:BD:44:ASN:OD1	1.99	0.62
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:85:LYS:HD3	42:BH:85:LYS:O	1.99	0.62
44:BK:134:MET:HG3	44:BK:136:VAL:HG12	1.82	0.62
46:BN:120:LEU:HD11	46:BN:122:VAL:HG23	1.82	0.62
48:BP:24:GLY:CA	48:BP:33:ARG:NH1	2.63	0.62
48:BP:96:THR:O	48:BP:99:LEU:HB3	1.99	0.62
51:BS:40:ILE:HG22	51:BS:41:ASP:N	2.14	0.62
51:BS:42:ASP:C	51:BS:44:LYS:H	2.07	0.62
51:BS:64:GLU:CD	51:BS:64:GLU:H	2.07	0.62
53:BU:92:ARG:NH1	54:BV:11:GLN:HG3	2.15	0.62
57:BY:23:ARG:O	57:BY:24:VAL:O	2.18	0.62
1:CA:101:A:O2'	1:CA:102:G:H5'	2.00	0.62
1:CA:332:G:O2'	1:CA:333:G:H5'	1.99	0.62
1:CA:687:A:H62	1:CA:703:G:H1'	1.65	0.62
1:CA:1082:G:O2'	1:CA:1083:U:H5'	2.00	0.62
1:CA:1144:G:H21	1:CA:1146:A:H62	1.48	0.62
1:CA:1239:A:H62	1:CA:1299:A:N6	1.97	0.62
1:CA:1279:A:H5'	1:CA:1280:A:OP1	2.00	0.62
4:CD:11:LEU:O	4:CD:12:CYS:C	2.42	0.62
4:CD:108:LEU:O	4:CD:165:MET:HE2	1.99	0.62
27:D2:32:LEU:O	27:D2:32:LEU:HD23	2.00	0.62
35:DA:2531:A:OP1	42:DH:177:GLY:N	2.33	0.62
42:DH:149:ARG:HA	42:DH:162:ILE:CD1	2.29	0.62
46:DN:39:ARG:HB2	46:DN:41:ASP:OD1	2.00	0.62
47:DO:18:LYS:HB2	47:DO:45:GLU:HG2	1.82	0.62
53:DU:55:ARG:HA	53:DU:58:ARG:HG3	1.81	0.62
1:AA:539:A:H2'	1:AA:540:G:C8	2.35	0.61
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.64	0.61
1:AA:1294:G:O2'	1:AA:1295:G:H5'	1.99	0.61
1:AA:1316:G:O2'	14:AN:18:VAL:HG11	2.00	0.61
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.64	0.61
5:AE:36:ASP:O	5:AE:37:ARG:HB2	2.00	0.61
24:AY:168:ILE:HD11	24:AY:178:ILE:HD11	1.82	0.61
35:BA:322:A:H3'	40:BF:169:ASN:HD21	1.64	0.61
35:BA:336:C:H4'	57:BY:7:VAL:HG21	1.81	0.61
35:BA:363(D):G:O2'	35:BA:363(E):U:H5'	2.00	0.61
35:BA:742:G:O2'	35:BA:743:G:H5'	1.99	0.61
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.80	0.61
36:BB:7:G:H5'	51:BS:29:PHE:CE1	2.34	0.61
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.25	0.61
46:BN:14:VAL:HG11	46:BN:137:LYS:HD2	1.80	0.61
48:BP:102:ARG:HB3	48:BP:102:ARG:CZ	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:99:LYS:H	50:BR:99:LYS:CD	1.89	0.61
51:BS:89:ARG:CG	51:BS:92:TYR:HA	2.30	0.61
52:BT:38:ASN:ND2	52:BT:40:THR:H	1.97	0.61
52:BT:91:ARG:O	52:BT:117:ASP:HB2	2.00	0.61
56:BX:36:LYS:HB3	56:BX:56:THR:HG21	1.82	0.61
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	1.99	0.61
1:CA:820:U:H4'	1:CA:821:G:OP2	1.99	0.61
1:CA:943:U:C2'	1:CA:944:G:H5'	2.30	0.61
1:CA:1160:G:O6	1:CA:1181:G:O6	2.18	0.61
2:CB:194:PRO:O	2:CB:197:VAL:HG23	2.00	0.61
11:CK:59:TYR:O	11:CK:62:GLN:HB3	2.00	0.61
24:CY:84:THR:N	24:CY:85:PRO:CD	2.62	0.61
33:D8:61:LEU:CD1	33:D8:62:LEU:H	2.09	0.61
35:DA:608:A:H2'	35:DA:609:A:C8	2.35	0.61
35:DA:1775:U:C2'	35:DA:1776:G:H5'	2.30	0.61
35:DA:1942:C:H3'	35:DA:1943:U:H5''	1.81	0.61
36:DB:68:C:H2'	36:DB:69:G:H8	1.65	0.61
37:DC:132:LEU:HB3	37:DC:138:LEU:N	2.15	0.61
39:DE:77:ILE:HG22	39:DE:78:LEU:CD1	2.29	0.61
46:DN:46:VAL:HG13	46:DN:47:ALA:N	2.08	0.61
52:DT:65:LYS:CE	52:DT:66:VAL:H	2.07	0.61
1:AA:773:G:O2'	1:AA:774:G:H5'	1.99	0.61
1:AA:943:U:H2'	1:AA:944:G:H5'	1.81	0.61
1:AA:1002:G:H22	1:AA:1039:C:H2'	1.64	0.61
6:AF:67:MET:HE2	6:AF:72:VAL:HA	1.81	0.61
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.00	0.61
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.29	0.61
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.82	0.61
20:AT:42:GLN:HA	20:AT:42:GLN:HE21	1.65	0.61
24:AY:117:GLN:HE22	24:AY:120:THR:HG23	1.65	0.61
24:AY:491:VAL:HG12	24:AY:492:ASP:N	2.15	0.61
24:AY:647:VAL:HG21	24:AY:652:MET:SD	2.40	0.61
24:AY:655:TYR:OH	24:AY:659:LEU:HD23	1.99	0.61
35:BA:52:A:O2'	35:BA:53:A:H5'	2.01	0.61
35:BA:650:C:H2'	35:BA:651:G:H5''	1.82	0.61
35:BA:1075:C:H5'	35:BA:1076:C:OP2	2.00	0.61
35:BA:1885:A:H8	35:BA:1885:A:H5'	1.65	0.61
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.00	0.61
39:BE:4:ILE:HG13	39:BE:5:LEU:N	2.15	0.61
41:BG:34:LEU:HD13	41:BG:99:MET:HE2	1.82	0.61
48:BP:83:VAL:H	48:BP:115:LEU:CD2	2.12	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:15:ARG:HB3	51:BS:18:ILE:CD1	2.28	0.61
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.07	0.61
51:BS:98:VAL:HG12	51:BS:100:ALA:HB2	1.82	0.61
1:CA:161:A:H2'	1:CA:162:A:H8	1.65	0.61
1:CA:1119:C:O2'	1:CA:1120:G:H5'	2.00	0.61
24:CY:14:ASN:HB2	24:CY:102:ASP:OD1	2.00	0.61
24:CY:580:MET:O	24:CY:584:ILE:HG12	2.00	0.61
24:CY:605:ILE:CD1	24:CY:677:GLN:HG2	2.29	0.61
31:D6:15:GLU:CD	31:D6:44:ARG:HH12	2.08	0.61
35:DA:406:G:HO2'	35:DA:407:G:H8	1.48	0.61
35:DA:583:G:OP2	53:DU:10:ARG:HD2	2.00	0.61
35:DA:1068:G:H21	35:DA:1096:A:H5'	1.64	0.61
35:DA:1541:G:O2'	35:DA:1542:A:H5''	2.00	0.61
35:DA:1815:A:OP2	35:DA:1822:G:H5''	2.00	0.61
35:DA:1887:C:H3'	35:DA:1888:G:H5''	1.80	0.61
35:DA:1921:G:O2'	35:DA:1922:G:H5'	2.00	0.61
38:DD:153:ALA:O	38:DD:154:LYS:HG3	1.99	0.61
39:DE:9:VAL:CG2	39:DE:10:GLY:N	2.63	0.61
39:DE:101:ARG:NH1	39:DE:169:ASN:HD22	1.97	0.61
39:DE:101:ARG:HH11	39:DE:169:ASN:HD22	1.47	0.61
40:DF:133:ASN:H	40:DF:162:LEU:HD23	1.65	0.61
44:DK:115:LEU:HB3	44:DK:126:MET:HE1	1.82	0.61
50:DR:18:LEU:HD23	50:DR:18:LEU:C	2.24	0.61
57:DY:8:LYS:HE2	57:DY:72:VAL:HG23	1.82	0.61
1:AA:723:U:H5'	1:AA:724:G:OP2	2.00	0.61
1:AA:740:U:O2'	1:AA:741:G:H5'	2.00	0.61
2:AB:32:ILE:HD11	2:AB:40:HIS:HB3	1.82	0.61
2:AB:223:ILE:C	2:AB:225:ALA:H	2.07	0.61
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.63	0.61
12:AL:126:LYS:HG3	12:AL:128:ALA:H	1.64	0.61
22:AW:18:U:H2'	22:AW:19:G:H5''	1.80	0.61
24:AY:209:ALA:O	24:AY:210:ARG:C	2.43	0.61
24:AY:630:GLN:HE22	24:AY:646:PHE:HD2	1.48	0.61
35:BA:271(R):G:O2'	35:BA:271(S):G:H5'	2.00	0.61
35:BA:311:A:H5'	35:BA:332:A:C2	2.36	0.61
35:BA:1163:G:O2'	35:BA:1164:G:H5'	2.00	0.61
35:BA:1504:C:C2'	35:BA:1505:C:H5''	2.30	0.61
35:BA:1943:U:H2'	35:BA:1943:U:O2	2.00	0.61
35:BA:2200:C:H42	35:BA:2223:G:H1	1.48	0.61
35:BA:2312:U:C2'	35:BA:2313:C:H5''	2.30	0.61
39:BE:7:VAL:HG12	39:BE:27:LEU:HB3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:111:LEU:HA	41:BG:114:ILE:HD11	1.82	0.61
42:BH:19:VAL:HG12	42:BH:20:ALA:N	2.14	0.61
42:BH:44:VAL:O	42:BH:46:GLU:HG2	2.00	0.61
47:BO:91:LEU:N	47:BO:91:LEU:HD22	2.15	0.61
50:BR:117:VAL:CG1	50:BR:118:GLU:N	2.64	0.61
54:BV:18:LEU:HD13	54:BV:19:LYS:N	2.15	0.61
57:BY:55:TYR:N	57:BY:55:TYR:CD2	2.68	0.61
57:BY:55:TYR:N	57:BY:55:TYR:HD2	1.98	0.61
58:BZ:167:PRO:O	58:BZ:168:GLU:HB2	2.00	0.61
1:CA:189:G:H2'	1:CA:189(A):C:C6	2.35	0.61
1:CA:192:U:H2'	1:CA:193:C:C6	2.35	0.61
1:CA:1319:A:OP1	19:CS:10:PHE:CE1	2.53	0.61
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.62	0.61
4:CD:92:VAL:O	4:CD:96:LEU:HD22	2.00	0.61
4:CD:126:ILE:HD12	4:CD:126:ILE:N	2.15	0.61
8:CH:1:MET:HE2	8:CH:1:MET:N	2.15	0.61
9:CI:5:TYR:CD2	9:CI:6:GLY:N	2.65	0.61
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.29	0.61
24:CY:71:THR:HB	24:CY:78:ARG:NH1	2.15	0.61
24:CY:181:LEU:HD11	24:CY:242:LEU:HB3	1.81	0.61
24:CY:546:ILE:CG2	24:CY:590:ILE:HG13	2.21	0.61
35:DA:55:G:H2'	35:DA:56:A:H8	1.64	0.61
35:DA:1649:G:O2'	35:DA:1650:G:H5'	2.00	0.61
35:DA:2523:G:H2'	35:DA:2524:G:C5'	2.26	0.61
35:DA:2672:G:C3'	35:DA:2673:G:H5''	2.30	0.61
37:DC:191:ARG:HH11	37:DC:191:ARG:HG3	1.64	0.61
41:DG:9:ARG:HG2	41:DG:13:GLU:OE1	2.00	0.61
41:DG:68:PRO:HA	41:DG:92:VAL:HG11	1.82	0.61
42:DH:65:HIS:HE1	42:DH:69:ARG:HH11	1.46	0.61
46:DN:17:ASP:CG	46:DN:56:ASN:HB3	2.26	0.61
46:DN:48:MET:H	46:DN:48:MET:HE3	1.64	0.61
48:DP:83:VAL:H	48:DP:115:LEU:CD2	2.13	0.61
49:DQ:63:LYS:HA	58:DZ:178:GLU:OE1	1.99	0.61
52:DT:50:ILE:HD12	52:DT:50:ILE:N	2.15	0.61
57:DY:55:TYR:HD2	57:DY:55:TYR:N	1.98	0.61
58:DZ:9:TYR:CE2	58:DZ:61:LEU:HD22	2.33	0.61
1:AA:59:A:H2'	1:AA:59:A:N3	2.14	0.61
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.35	0.61
10:AJ:61:GLU:OE2	14:AN:45:ARG:HD2	2.00	0.61
11:AK:18:ARG:HH21	11:AK:37:GLY:N	1.98	0.61
22:AW:17:C:H5'	22:AW:62:C:OP1	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:37:U:H3	23:AX:13:A:N6	1.98	0.61
24:AY:337:SER:HA	24:AY:355:LEU:HD23	1.80	0.61
24:AY:603:GLU:O	24:AY:676:TYR:HA	2.00	0.61
25:B0:16:SER:HB2	35:BA:2262:U:C5	2.34	0.61
30:B5:19:ARG:HA	35:BA:2046:G:C5'	2.29	0.61
30:B5:36:CYS:SG	30:B5:38:ALA:HB3	2.40	0.61
35:BA:480:A:OP2	57:BY:46:LYS:HE2	2.00	0.61
35:BA:1068:G:H21	35:BA:1096:A:H5'	1.65	0.61
35:BA:1142(A):A:O2'	35:BA:1143:A:H5''	2.00	0.61
35:BA:1510:G:O2'	35:BA:1511:C:H5'	2.00	0.61
35:BA:1775:U:H2'	35:BA:1776:G:C5'	2.30	0.61
40:BF:152:GLU:O	40:BF:153:SER:C	2.43	0.61
41:BG:91:ARG:C	41:BG:91:ARG:CD	2.73	0.61
48:BP:124:LYS:HD3	48:BP:143:GLY:HA3	1.81	0.61
49:BQ:135:ASP:CG	58:BZ:49:ARG:NH1	2.58	0.61
52:BT:35:LYS:NZ	52:BT:41:ARG:HH11	1.98	0.61
52:BT:126:ALA:C	52:BT:128:GLU:H	2.08	0.61
53:BU:33:ARG:C	53:BU:35:ALA:N	2.56	0.61
55:BW:9:TYR:H	55:BW:102:HIS:HD2	1.48	0.61
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.18	0.61
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.25	0.61
5:CE:36:ASP:OD1	5:CE:38:GLN:N	2.26	0.61
9:CI:4:TYR:CE2	9:CI:88:TYR:HB2	2.36	0.61
12:CL:126:LYS:HG3	12:CL:128:ALA:H	1.64	0.61
22:CV:21:A:N6	22:CV:46:G:H2'	2.14	0.61
24:CY:416:LYS:HG2	24:CY:417:THR:H	1.64	0.61
35:DA:286:C:H2'	35:DA:287:C:C6	2.35	0.61
35:DA:364:C:H2'	35:DA:365:C:C5'	2.30	0.61
35:DA:603:A:H4'	35:DA:604:G:O5'	1.99	0.61
35:DA:1062:G:H21	44:DK:133:SER:HA	1.65	0.61
35:DA:1516:C:H2'	35:DA:1517:G:C5'	2.30	0.61
35:DA:1827:C:O2'	35:DA:1828:G:H5'	1.99	0.61
37:DC:29:LEU:O	37:DC:30:VAL:C	2.43	0.61
37:DC:115:VAL:HA	37:DC:145:THR:HG22	1.82	0.61
39:DE:4:ILE:HG13	39:DE:5:LEU:N	2.16	0.61
44:DK:134:MET:HG3	44:DK:136:VAL:HG12	1.81	0.61
48:DP:91:PHE:N	48:DP:91:PHE:CD1	2.69	0.61
52:DT:42:ILE:O	52:DT:42:ILE:HG13	2.00	0.61
52:DT:91:ARG:O	52:DT:117:ASP:HB2	2.00	0.61
53:DU:76:TYR:C	53:DU:76:TYR:CD2	2.78	0.61
57:DY:55:TYR:N	57:DY:55:TYR:CD2	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:61:LEU:HD23	2:AB:68:ILE:HD11	1.83	0.61
4:AD:10:ARG:O	4:AD:13:ARG:HB2	1.99	0.61
4:AD:26:CYS:HA	4:AD:31:CYS:HA	1.83	0.61
6:AF:36:ARG:HB3	6:AF:36:ARG:CZ	2.30	0.61
20:AT:29:LYS:O	20:AT:33:ILE:HG13	2.00	0.61
24:AY:443:HIS:CE1	24:AY:445:GLU:HB2	2.36	0.61
61:AY:702:FUA:H211	61:AY:702:FUA:O2	2.00	0.61
25:B0:24:LYS:O	25:B0:25:ARG:HD3	2.01	0.61
35:BA:272(B):G:H2'	35:BA:272(C):G:C8	2.34	0.61
35:BA:422:A:H2'	35:BA:423:A:C8	2.35	0.61
35:BA:528:A:H2	35:BA:2043:C:C4'	2.13	0.61
35:BA:570:G:H2'	35:BA:2030:A:N7	2.16	0.61
35:BA:1516:C:C2'	35:BA:1517:G:H5''	2.30	0.61
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.35	0.61
35:BA:1578:U:C2'	35:BA:1579:A:H5''	2.31	0.61
35:BA:1748:G:H2'	35:BA:1749:A:O4'	2.00	0.61
35:BA:2345:G:O2'	35:BA:2381:C:H2'	2.00	0.61
35:BA:2443:C:H2'	35:BA:2443:C:O2	2.00	0.61
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.30	0.61
36:BB:54:G:O2'	36:BB:55:U:H5'	2.00	0.61
39:BE:184:VAL:O	39:BE:186:GLY:N	2.29	0.61
40:BF:16:GLY:O	40:BF:17:ARG:HG3	2.00	0.61
44:BK:4:VAL:HG12	44:BK:5:VAL:N	2.05	0.61
45:BL:100:UNK:O	45:BL:101:UNK:CB	2.49	0.61
47:BO:64:ARG:O	47:BO:82:ASN:HA	2.00	0.61
47:BO:87:ILE:HD13	47:BO:87:ILE:N	2.15	0.61
1:CA:22:G:O2'	1:CA:23:C:H5'	2.01	0.61
1:CA:954:G:H2'	1:CA:955:U:C6	2.35	0.61
1:CA:1423:G:C5'	47:DO:49:ARG:HH22	2.14	0.61
4:CD:16:GLY:HA2	4:CD:33:MET:CE	2.28	0.61
19:CS:31:ILE:HG23	19:CS:49:ILE:HG23	1.83	0.61
24:CY:355:LEU:HD12	24:CY:369:LEU:HD13	1.81	0.61
24:CY:510:VAL:CG1	24:CY:567:LEU:HD13	2.30	0.61
35:DA:11:G:H2'	35:DA:12:U:C6	2.35	0.61
35:DA:764:A:N3	38:DD:213:ARG:NH1	2.49	0.61
35:DA:2040:C:H2'	35:DA:2041:U:C6	2.36	0.61
35:DA:2286:A:H4'	35:DA:2287:A:C5'	2.26	0.61
40:DF:89:VAL:HG12	40:DF:90:PHE:H	1.65	0.61
47:DO:97:ARG:HH11	47:DO:97:ARG:HG3	1.64	0.61
48:DP:80:TYR:CD1	48:DP:111:ARG:HB3	2.35	0.61
49:DQ:56:ARG:HA	49:DQ:56:ARG:HE	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:19:LYS:O	51:DS:20:ARG:NH2	2.33	0.61
51:DS:98:VAL:HG12	51:DS:100:ALA:N	2.16	0.61
52:DT:1:MET:H2	52:DT:7:ILE:HD11	1.66	0.61
52:DT:35:LYS:NZ	52:DT:41:ARG:NH1	2.47	0.61
56:DX:36:LYS:HB3	56:DX:56:THR:HG21	1.83	0.61
1:AA:160:A:H1'	1:AA:344:A:C8	2.35	0.61
1:AA:1269:A:C2	1:AA:1313:U:O4'	2.53	0.61
1:AA:1348:U:H4'	9:AI:120:ARG:HG3	1.82	0.61
3:AC:142:MET:CE	3:AC:171:GLY:HA3	2.30	0.61
3:AC:150:LYS:HB2	3:AC:169:ALA:HB2	1.83	0.61
19:AS:14:HIS:CD2	19:AS:15:LEU:HD23	2.36	0.61
24:AY:67:ALA:HB1	24:AY:327:PHE:HZ	1.66	0.61
24:AY:491:VAL:HG12	24:AY:492:ASP:H	1.65	0.61
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.81	0.61
33:B8:47:LYS:NZ	33:B8:49:VAL:HG13	2.15	0.61
35:BA:30:G:O2'	35:BA:31:C:H5'	2.00	0.61
35:BA:2037:G:H2'	35:BA:2038:G:C8	2.36	0.61
39:BE:8:LYS:O	39:BE:193:GLY:N	2.31	0.61
41:BG:98:ARG:HH11	41:BG:98:ARG:CG	2.13	0.61
44:BK:37:PHE:O	44:BK:41:PHE:HB3	2.01	0.61
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.16	0.61
47:BO:47:ILE:HG22	47:BO:48:PRO:HD2	1.82	0.61
48:BP:27:HIS:CD2	48:BP:27:HIS:C	2.77	0.61
50:BR:78:LYS:O	50:BR:83:ILE:HG12	2.01	0.61
51:BS:19:LYS:O	51:BS:20:ARG:NH2	2.33	0.61
51:BS:90:GLY:C	51:BS:92:TYR:H	2.08	0.61
58:BZ:3:TYR:CE2	58:BZ:51:ALA:HB2	2.36	0.61
1:CA:301:G:O2'	1:CA:302:G:H5'	2.00	0.61
1:CA:1128:C:H2'	1:CA:1129:C:C5'	2.25	0.61
4:CD:61:LYS:HD3	4:CD:206:PHE:CE2	2.35	0.61
13:CM:10:PRO:HG2	13:CM:11:ARG:H	1.65	0.61
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.64	0.61
24:CY:553:GLY:N	24:CY:557:GLY:HA2	2.15	0.61
31:D6:15:GLU:CG	31:D6:47:THR:HG21	2.31	0.61
35:DA:759:G:H2'	35:DA:760:G:H8	1.64	0.61
35:DA:1114:G:H2'	35:DA:1115:G:H5'	1.82	0.61
35:DA:1389:G:H2'	35:DA:1390:U:C6	2.36	0.61
35:DA:2175:C:H1'	37:DC:218:THR:O	1.99	0.61
35:DA:2603:G:O2'	35:DA:2604:U:H5'	2.01	0.61
37:DC:73:VAL:HG11	37:DC:158:LYS:HA	1.83	0.61
37:DC:101:ILE:HD12	37:DC:101:ILE:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:10:THR:HG23	38:DD:13:ARG:HB3	1.81	0.61
38:DD:166:GLN:HA	38:DD:166:GLN:HE21	1.66	0.61
42:DH:44:VAL:O	42:DH:46:GLU:HG2	2.01	0.61
48:DP:102:ARG:HB3	48:DP:102:ARG:CZ	2.30	0.61
49:DQ:43:THR:O	49:DQ:47:ILE:HG13	2.00	0.61
1:AA:673:G:H2'	1:AA:674:G:C8	2.35	0.61
1:AA:1160:G:O6	1:AA:1181:G:O6	2.18	0.61
1:AA:1347:G:H3'	9:AI:108:VAL:O	2.00	0.61
4:AD:126:ILE:HD12	4:AD:126:ILE:N	2.16	0.61
5:AE:64:ARG:HH11	5:AE:64:ARG:CG	2.11	0.61
12:AL:69:TYR:O	12:AL:71:PRO:HD3	2.00	0.61
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.15	0.61
17:AQ:57:VAL:HG23	17:AQ:58:GLU:N	2.16	0.61
24:AY:402:ILE:HD12	24:AY:402:ILE:H	1.65	0.61
24:AY:457:LEU:O	24:AY:461:ILE:HG13	2.01	0.61
26:B1:56:GLN:OE1	26:B1:85:LEU:HD23	2.01	0.61
31:B6:28:ARG:HH11	31:B6:28:ARG:CB	2.13	0.61
35:BA:272(J):C:C3'	35:BA:274:G:H5''	2.26	0.61
35:BA:1326:U:O2'	35:BA:1327:C:H5'	2.01	0.61
35:BA:1389:G:H2'	35:BA:1390:U:C6	2.35	0.61
35:BA:1504:C:C3'	35:BA:1505:C:H5''	2.31	0.61
35:BA:2454:G:O2'	35:BA:2455:G:H5'	2.01	0.61
35:BA:2839:G:H1	35:BA:2878:U:H3	1.49	0.61
36:BB:68:C:H2'	36:BB:69:G:H8	1.65	0.61
37:BC:101:ILE:H	37:BC:101:ILE:HD12	1.66	0.61
38:BD:267:SER:HA	38:BD:270:ILE:HD11	1.83	0.61
40:BF:7:TYR:HD2	40:BF:16:GLY:CA	2.13	0.61
41:BG:56:ALA:HA	41:BG:59:GLU:OE1	1.99	0.61
41:BG:157:ILE:HG22	41:BG:158:ALA:N	2.14	0.61
49:BQ:27:VAL:HG12	49:BQ:28:ALA:N	2.16	0.61
52:BT:29:ARG:HD3	52:BT:86:ILE:HG22	1.82	0.61
1:CA:513:C:O2'	1:CA:514:C:H5'	2.01	0.61
1:CA:1124:G:H5'	10:CJ:35:SER:HB2	1.82	0.61
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.36	0.61
6:CF:68:PRO:HG2	6:CF:71:ARG:HB2	1.82	0.61
12:CL:34:ARG:HG3	12:CL:105:TYR:CE1	2.36	0.61
18:CR:37:VAL:C	18:CR:39:VAL:H	2.08	0.61
22:CW:14:A:H3'	22:CW:15:G:H5''	1.83	0.61
24:CY:117:GLN:NE2	24:CY:120:THR:HG23	2.15	0.61
24:CY:209:ALA:O	24:CY:210:ARG:C	2.43	0.61
28:D3:4:LEU:HD11	28:D3:39:ASP:OD1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:28:ARG:HH11	31:D6:28:ARG:CB	2.13	0.61
35:DA:184:C:H2'	35:DA:185:U:H6	1.63	0.61
35:DA:1322:A:OP1	55:DW:11:ARG:HG3	2.01	0.61
38:DD:11:PRO:O	38:DD:13:ARG:N	2.33	0.61
44:DK:112:MET:CE	44:DK:120:LEU:HD21	2.30	0.61
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.07	0.61
57:DY:23:ARG:O	57:DY:24:VAL:O	2.18	0.61
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.61
1:AA:974:A:H8	1:AA:974:A:OP1	1.82	0.61
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.36	0.61
2:AB:194:PRO:O	2:AB:197:VAL:HG23	2.00	0.61
10:AJ:18:ALA:C	10:AJ:20:ALA:H	2.08	0.61
22:AW:37:U:H3	23:AX:13:A:H62	1.49	0.61
24:AY:530:VAL:HG13	24:AY:531:GLY:N	2.16	0.61
25:B0:43:THR:HG22	35:BA:2331:G:O3'	1.99	0.61
30:B5:48:GLU:O	30:B5:49:CYS:CB	2.49	0.61
35:BA:240:G:C3'	35:BA:241:A:H5''	2.29	0.61
35:BA:2832:U:H1'	35:BA:2834:G:C2	2.36	0.61
37:BC:29:LEU:O	37:BC:30:VAL:C	2.43	0.61
37:BC:138:LEU:HD22	37:BC:139:PRO:HD2	1.83	0.61
37:BC:211:ARG:HG3	37:BC:211:ARG:HH11	1.66	0.61
40:BF:28:ILE:O	40:BF:30:PRO:HD3	2.00	0.61
48:BP:23:PRO:C	48:BP:33:ARG:CZ	2.73	0.61
49:BQ:59:ARG:HB3	58:BZ:180:VAL:CG2	2.31	0.61
54:BV:32:THR:HG1	54:BV:60:GLU:HG3	1.65	0.61
1:CA:487:A:H2'	1:CA:488:C:O4'	2.01	0.61
2:CB:31:TYR:CE1	2:CB:200:ILE:HD12	2.34	0.61
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.83	0.61
24:CY:66:THR:O	24:CY:67:ALA:HB2	2.00	0.61
24:CY:491:VAL:CG1	24:CY:492:ASP:H	2.12	0.61
27:D2:58:ALA:CB	35:DA:76:C:H4'	2.31	0.61
29:D4:2:LYS:HG2	36:DB:44:G:OP2	2.01	0.61
29:D4:56:VAL:O	29:D4:57:GLU:HB2	1.99	0.61
30:D5:40:LYS:HD3	30:D5:44:THR:HB	1.83	0.61
31:D6:35:GLU:HB3	31:D6:51:GLU:HB2	1.83	0.61
31:D6:54:ILE:HD13	35:DA:2420:C:H4'	1.82	0.61
35:DA:252:G:OP2	48:DP:50:ARG:NH1	2.34	0.61
35:DA:693:C:O2'	35:DA:694:U:H5'	2.01	0.61
35:DA:1064:C:H4'	44:DK:89:HIS:HD2	1.64	0.61
35:DA:1094:U:H2'	35:DA:1096:A:OP2	2.01	0.61
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1638:C:H2'	35:DA:1639:U:O4'	2.01	0.61
35:DA:1930:G:O2'	35:DA:1931:U:P	2.57	0.61
42:DH:30:LYS:CD	42:DH:81:GLU:HG2	2.30	0.61
42:DH:86:GLU:HA	42:DH:132:ARG:HA	1.82	0.61
42:DH:169:VAL:HG22	42:DH:170:ARG:N	2.12	0.61
48:DP:9:ASN:H	48:DP:10:PRO:HD2	1.65	0.61
51:DS:89:ARG:HH11	51:DS:89:ARG:HG2	1.66	0.61
52:DT:33:LYS:HE2	52:DT:43:GLN:CD	2.26	0.61
53:DU:19:LYS:HB3	53:DU:20:LEU:HD22	1.82	0.61
57:DY:31:LEU:HB2	57:DY:32:PRO:CA	2.31	0.61
1:AA:100:C:H2'	1:AA:101:A:C8	2.36	0.61
1:AA:101:A:O2'	1:AA:102:G:H5'	2.00	0.61
4:AD:107:ARG:HH21	4:AD:194:LEU:CD1	2.14	0.61
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.66	0.61
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.82	0.61
5:AE:60:TYR:CE1	5:AE:64:ARG:NH2	2.68	0.61
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.01	0.61
22:AV:3:C:H42	22:AV:70:G:H1	1.47	0.61
22:AW:60:A:H2'	22:AW:61:U:H5'	1.81	0.61
22:AW:75:C:H5'	22:AW:75:C:H6	1.66	0.61
23:AX:17:U:O2'	23:AX:18:G:H5'	2.01	0.61
24:AY:82:ILE:HD12	24:AY:101:LEU:CD2	2.31	0.61
24:AY:215:LYS:HA	24:AY:218:GLU:HB3	1.82	0.61
26:B1:73:LEU:CD2	26:B1:94:LEU:HD23	2.31	0.61
35:BA:813:U:H2'	35:BA:814:C:H6	1.66	0.61
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.36	0.61
35:BA:1993:U:H4'	39:BE:128:SER:OG	2.00	0.61
35:BA:2151:G:O2'	35:BA:2152:G:H5'	2.01	0.61
35:BA:2298:A:H62	35:BA:2318:G:H8	1.49	0.61
41:BG:125:PHE:HB3	41:BG:166:ASP:HB3	1.82	0.61
42:BH:41:MET:HG2	42:BH:43:VAL:HG13	1.83	0.61
44:BK:103:GLN:O	44:BK:106:GLU:HG2	2.00	0.61
48:BP:9:ASN:H	48:BP:10:PRO:HD2	1.65	0.61
48:BP:30:THR:CG2	48:BP:31:ALA:H	2.07	0.61
51:BS:67:ARG:HB3	51:BS:71:ARG:NH2	2.16	0.61
52:BT:134:GLU:O	52:BT:135:ALA:HB2	2.00	0.61
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	1.99	0.61
2:CB:220:ASP:O	2:CB:223:ILE:N	2.34	0.61
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.15	0.61
12:CL:84:LEU:HD23	12:CL:101:VAL:HG21	1.82	0.61
24:CY:315:LYS:HZ3	24:CY:317:MET:HG2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:27:PRO:CG	55:DW:23:LEU:HD11	2.31	0.61
31:D6:35:GLU:HA	31:D6:35:GLU:OE1	2.00	0.61
34:D9:29:ASN:O	34:D9:29:ASN:ND2	2.33	0.61
35:DA:11:G:H22	35:DA:2628:C:P	2.24	0.61
35:DA:30:G:O2'	35:DA:31:C:H5'	2.01	0.61
35:DA:589:C:O2'	35:DA:590:A:H5'	2.01	0.61
35:DA:811:U:O2'	35:DA:812:C:H5''	2.01	0.61
35:DA:986:C:O2'	35:DA:987:G:H5'	2.01	0.61
35:DA:2009:G:H1'	50:DR:107:ASP:O	2.00	0.61
35:DA:2186:G:C3'	35:DA:2187:G:H5''	2.31	0.61
35:DA:2454:G:C2'	35:DA:2455:G:H5'	2.30	0.61
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.00	0.61
36:DB:91:C:O2'	36:DB:92:C:H5'	2.01	0.61
38:DD:134:ARG:HG3	38:DD:135:PHE:CD1	2.36	0.61
42:DH:44:VAL:O	42:DH:50:VAL:HG13	2.01	0.61
46:DN:43:THR:HB	46:DN:46:VAL:HG11	1.82	0.61
46:DN:46:VAL:O	46:DN:47:ALA:HB3	2.01	0.61
48:DP:24:GLY:HA2	48:DP:33:ARG:NH1	2.16	0.61
50:DR:117:VAL:CG1	50:DR:118:GLU:N	2.63	0.61
1:AA:54:C:H2'	1:AA:352:C:H41	1.66	0.61
1:AA:882:C:O2'	1:AA:883:C:H5'	2.00	0.61
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.16	0.61
3:AC:99:VAL:O	3:AC:99:VAL:HG23	2.01	0.61
3:AC:110:ASN:OD1	3:AC:140:ARG:HD2	2.01	0.61
3:AC:148:GLY:HA3	3:AC:172:ARG:O	2.01	0.61
5:AE:12:LEU:C	5:AE:12:LEU:HD13	2.25	0.61
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.82	0.61
22:AV:46:G:O3'	22:AV:47:U:C6	2.51	0.61
24:AY:238:THR:CG2	24:AY:241:GLU:H	2.14	0.61
24:AY:634:MET:HA	24:AY:642:VAL:O	2.01	0.61
26:B1:45:ASN:CB	35:BA:2230:G:H1'	2.28	0.61
30:B5:20:ARG:HG2	30:B5:23:HIS:CD2	2.35	0.61
30:B5:40:LYS:HZ3	30:B5:46:CYS:H	1.47	0.61
35:BA:364:C:H2'	35:BA:365:C:C5'	2.30	0.61
35:BA:514:A:H2'	35:BA:515:A:C8	2.36	0.61
35:BA:710:G:H1	35:BA:721:C:H42	1.47	0.61
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.66	0.61
35:BA:1516:C:H2'	35:BA:1517:G:C5'	2.30	0.61
35:BA:1717:G:H2'	35:BA:1718:G:H5''	1.81	0.61
35:BA:1775:U:C2'	35:BA:1776:G:H5'	2.31	0.61
35:BA:2000:G:O2'	35:BA:2001:A:H5'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2573:C:H2'	35:BA:2573:C:O2	2.00	0.61
36:BB:112:U:H2'	36:BB:113:G:C8	2.34	0.61
39:BE:44:TYR:O	39:BE:45:THR:HB	1.99	0.61
41:BG:39:ILE:CG1	41:BG:92:VAL:HG22	2.30	0.61
44:BK:3:LYS:HD3	44:BK:29:GLN:HG2	1.82	0.61
47:BO:114:ILE:HD12	47:BO:114:ILE:N	2.14	0.61
54:BV:39:LEU:HD12	54:BV:50:PRO:O	2.01	0.61
1:CA:505:G:H2'	1:CA:506:G:H8	1.66	0.61
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.36	0.61
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.64	0.61
18:CR:37:VAL:CG2	18:CR:38:GLU:H	2.07	0.61
24:CY:281:PRO:HB2	24:CY:286:ILE:CD1	2.31	0.61
24:CY:341:VAL:HG23	24:CY:342:TYR:N	2.15	0.61
25:D0:43:THR:HG22	35:DA:2331:G:O3'	2.01	0.61
31:D6:15:GLU:CB	31:D6:47:THR:HG21	2.31	0.61
34:D9:1:MET:O	34:D9:34:GLN:HG2	2.01	0.61
34:D9:22:ARG:HB2	34:D9:24:TYR:HE1	1.66	0.61
35:DA:537:C:H2'	35:DA:538:G:H8	1.65	0.61
35:DA:1105:U:H2'	35:DA:1106:G:O4'	2.00	0.61
35:DA:2021:C:H4'	35:DA:2022:U:OP2	2.01	0.61
35:DA:2069:G:O2'	35:DA:2070:G:H5'	2.01	0.61
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.36	0.61
37:DC:71:LYS:HG2	37:DC:72:GLN:H	1.66	0.61
49:DQ:45:GLN:H	49:DQ:45:GLN:CD	2.01	0.61
52:DT:28:VAL:HG22	52:DT:47:GLY:N	2.16	0.61
1:AA:339:C:OP2	47:BO:97:ARG:NH1	2.34	0.60
1:AA:487:A:H2'	1:AA:488:C:O4'	2.01	0.60
1:AA:687:A:N6	1:AA:703:G:H1'	2.14	0.60
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.36	0.60
2:AB:153:ARG:C	2:AB:155:LEU:N	2.57	0.60
7:AG:7:ALA:O	7:AG:8:GLU:HB2	1.99	0.60
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.82	0.60
20:AT:50:GLU:HB3	20:AT:99:LEU:HB2	1.82	0.60
25:B0:42:GLY:HA3	35:BA:2331:G:O4'	2.00	0.60
35:BA:321:G:C2	35:BA:341:G:H4'	2.36	0.60
35:BA:1080:C:O2'	44:BK:126:MET:HG3	2.01	0.60
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.53	0.60
35:BA:2312:U:OP1	41:BG:73:ALA:HA	2.00	0.60
40:BF:63:LYS:HG3	40:BF:76:GLY:HA2	1.83	0.60
40:BF:89:VAL:HG12	40:BF:90:PHE:H	1.66	0.60
44:BK:78:ILE:HD11	44:BK:136:VAL:HG11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:128:HIS:HE1	46:BN:134:ARG:HH11	1.47	0.60
46:BN:134:ARG:O	46:BN:136:GLU:N	2.31	0.60
48:BP:24:GLY:HA2	48:BP:33:ARG:NH1	2.16	0.60
48:BP:146:VAL:O	48:BP:148:LEU:N	2.34	0.60
49:BQ:60:ARG:NH1	49:BQ:60:ARG:HB2	2.16	0.60
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.00	0.60
57:BY:28:LYS:O	57:BY:38:ILE:HG22	2.00	0.60
1:CA:390:C:H2'	1:CA:391:G:H8	1.66	0.60
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.33	0.60
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.01	0.60
1:CA:1425:U:O2'	1:CA:1426:C:H5'	2.01	0.60
2:CB:32:ILE:HD11	2:CB:40:HIS:HB3	1.83	0.60
4:CD:15:GLU:O	4:CD:17:VAL:HG23	2.00	0.60
18:CR:74:ARG:HD3	18:CR:81:PHE:CD2	2.36	0.60
24:CY:153:MET:O	24:CY:157:LEU:HG	2.01	0.60
24:CY:238:THR:C	24:CY:240:GLU:N	2.59	0.60
26:D1:80:LEU:CD2	26:D1:81:LYS:H	2.14	0.60
29:D4:9:LEU:CD2	41:DG:65:GLY:HA3	2.31	0.60
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.19	0.60
35:DA:1833:U:H2'	35:DA:1834:U:H6	1.66	0.60
35:DA:1885:A:H5'	35:DA:1885:A:H8	1.65	0.60
35:DA:2151:G:O2'	35:DA:2152:G:H5'	2.01	0.60
35:DA:2891:G:H4'	35:DA:2892:A:OP1	2.01	0.60
36:DB:92:C:H2'	36:DB:93:G:H8	1.65	0.60
40:DF:181:LEU:HB3	40:DF:205:ARG:HH11	1.65	0.60
41:DG:107:LEU:HD11	41:DG:178:PHE:HE1	1.65	0.60
42:DH:85:LYS:HD3	42:DH:85:LYS:O	2.01	0.60
42:DH:153:LYS:HG3	42:DH:154:PRO:CD	2.31	0.60
49:DQ:97:VAL:HG11	49:DQ:103:MET:CE	2.23	0.60
52:DT:10:VAL:O	52:DT:12:SER:N	2.34	0.60
55:DW:95:ILE:O	55:DW:95:ILE:HG13	1.99	0.60
1:AA:41:G:H2'	1:AA:42:G:C8	2.36	0.60
1:AA:165:C:O2'	1:AA:166:G:H5'	2.01	0.60
5:AE:78:HIS:O	5:AE:93:PRO:HD3	2.01	0.60
11:AK:59:TYR:O	11:AK:62:GLN:HB3	2.01	0.60
14:AN:16:PHE:CD1	14:AN:16:PHE:N	2.62	0.60
22:AW:15:G:H21	22:AW:22:A:H1'	1.66	0.60
24:AY:613:PRO:C	24:AY:615:GLU:N	2.59	0.60
61:AY:702:FUA:O1	61:AY:702:FUA:H12	2.00	0.60
31:B6:15:GLU:OE2	31:B6:20:ASN:ND2	2.33	0.60
35:BA:11:G:H2'	35:BA:12:U:C6	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:134:C:H2'	35:BA:135:G:H8	1.64	0.60
35:BA:1125:G:H3'	35:BA:1126:A:H5''	1.83	0.60
35:BA:2056:G:H2'	35:BA:2056:G:N3	2.14	0.60
35:BA:2262:U:C2'	35:BA:2263:C:H5''	2.32	0.60
38:BD:148:GLU:HB2	38:BD:151:LYS:HG3	1.83	0.60
38:BD:166:GLN:HE21	38:BD:166:GLN:CA	2.13	0.60
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.66	0.60
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.00	0.60
2:CB:223:ILE:C	2:CB:225:ALA:H	2.08	0.60
3:CC:14:ILE:O	3:CC:15:THR:HB	2.01	0.60
3:CC:94:LEU:O	3:CC:95:THR:HG23	2.01	0.60
6:CF:38:GLU:O	6:CF:39:LYS:O	2.18	0.60
13:CM:4:ILE:HG22	13:CM:5:ALA:N	2.14	0.60
24:CY:187:THR:HG22	24:CY:197:ARG:O	2.01	0.60
33:D8:30:ARG:O	33:D8:31:HIS:HB3	2.02	0.60
35:DA:6:A:HO2'	46:DN:130:HIS:HB2	1.64	0.60
35:DA:481:G:H2'	35:DA:507:A:N1	2.16	0.60
35:DA:605:C:H2'	35:DA:606:U:H6	1.66	0.60
35:DA:622:G:O2'	35:DA:623:G:H5'	2.01	0.60
35:DA:779:U:OP1	38:DD:49:ILE:HG23	2.00	0.60
35:DA:2259:G:O2'	35:DA:2260:C:H5'	2.01	0.60
35:DA:2712:U:O2'	35:DA:2712(A):A:O5'	2.19	0.60
38:DD:76:PRO:HG2	38:DD:98:VAL:CG2	2.31	0.60
40:DF:9:ILE:HG23	40:DF:13:SER:O	2.00	0.60
40:DF:63:LYS:HG3	40:DF:76:GLY:HA2	1.82	0.60
40:DF:185:ASP:OD1	40:DF:188:ARG:HD3	2.01	0.60
42:DH:173:PRO:C	42:DH:175:LYS:H	2.08	0.60
46:DN:55:VAL:HG21	46:DN:127:ASP:N	2.16	0.60
49:DQ:11:LYS:NZ	49:DQ:88:GLY:O	2.34	0.60
49:DQ:21:THR:HG23	49:DQ:101:ARG:HB2	1.82	0.60
52:DT:134:GLU:O	52:DT:135:ALA:HB2	1.99	0.60
57:DY:88:LYS:NZ	57:DY:93:GLY:O	2.31	0.60
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.82	0.60
1:AA:1117:G:H8	1:AA:1117:G:H5'	1.64	0.60
9:AI:3:GLN:NE2	9:AI:20:ARG:HH21	1.99	0.60
35:BA:92:A:H2'	35:BA:93:G:C8	2.36	0.60
35:BA:797:C:OP1	40:BF:62:ARG:HG3	2.01	0.60
35:BA:990:A:N6	35:BA:1186:G:H1'	2.16	0.60
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.66	0.60
35:BA:1380:G:H2'	35:BA:1381:G:H8	1.65	0.60
39:BE:98:PRO:HG3	39:BE:175:VAL:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:14:ALA:HA	44:BK:41:PHE:CZ	2.36	0.60
46:BN:67:LEU:HB3	46:BN:88:GLU:HG3	1.81	0.60
50:BR:12:ARG:HH11	50:BR:12:ARG:HG3	1.66	0.60
52:BT:30:VAL:HG21	52:BT:83:ILE:HG12	1.83	0.60
52:BT:50:ILE:HD12	52:BT:50:ILE:N	2.16	0.60
1:CA:925:G:H5'	1:CA:926:G:OP1	2.01	0.60
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.02	0.60
1:CA:1303:C:C2'	1:CA:1304:G:H5'	2.31	0.60
12:CL:41:ARG:HB3	12:CL:41:ARG:NH1	2.13	0.60
20:CT:36:LEU:HD12	20:CT:59:ALA:HB2	1.82	0.60
22:CW:68:C:H2'	22:CW:69:C:C6	2.37	0.60
24:CY:28:THR:O	24:CY:32:ILE:HG13	2.01	0.60
24:CY:308:PRO:O	24:CY:332:SER:HB2	2.02	0.60
26:D1:25:LYS:HB2	35:DA:388:G:H5'	1.83	0.60
26:D1:41:ARG:NH2	35:DA:1365:A:H5'	2.16	0.60
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.65	0.60
35:DA:1290:C:H2'	35:DA:1291:C:C6	2.37	0.60
35:DA:2040:C:H2'	35:DA:2041:U:H6	1.67	0.60
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.02	0.60
35:DA:2462:U:H2'	35:DA:2463:C:H6	1.66	0.60
35:DA:2762:G:H5'	35:DA:2762:G:H8	1.67	0.60
40:DF:28:ILE:O	40:DF:30:PRO:HD3	2.01	0.60
40:DF:152:GLU:O	40:DF:153:SER:C	2.44	0.60
40:DF:154:VAL:HG13	40:DF:191:ARG:O	2.01	0.60
41:DG:110:ALA:CB	41:DG:140:ILE:HD13	2.32	0.60
41:DG:122:PRO:HG2	41:DG:123:ASN:OD1	2.01	0.60
42:DH:28:GLY:HA3	42:DH:79:VAL:CG2	2.31	0.60
46:DN:65:LYS:HZ3	46:DN:65:LYS:HA	1.67	0.60
47:DO:87:ILE:N	47:DO:87:ILE:HD13	2.16	0.60
48:DP:27:HIS:CD2	48:DP:27:HIS:C	2.79	0.60
48:DP:124:LYS:HD3	48:DP:143:GLY:HA3	1.81	0.60
1:AA:72:C:H2'	1:AA:73:G:C8	2.37	0.60
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.84	0.60
2:AB:156:LYS:O	2:AB:157:ARG:HB3	2.01	0.60
17:AQ:76:LEU:HD12	17:AQ:77:VAL:N	2.16	0.60
18:AR:58:LEU:HD12	18:AR:58:LEU:N	2.17	0.60
24:AY:180:VAL:HG23	24:AY:181:LEU:N	2.17	0.60
24:AY:438:PHE:CD2	24:AY:438:PHE:C	2.77	0.60
24:AY:512:ILE:H	24:AY:512:ILE:CD1	2.14	0.60
30:B5:55:ARG:HH12	50:BR:33:ARG:HD2	1.66	0.60
31:B6:45:LYS:HE3	35:BA:2371:G:H5''	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:693:C:O2'	35:BA:694:U:H5'	2.01	0.60
35:BA:723:G:H2'	35:BA:724:U:C6	2.36	0.60
35:BA:1467:C:H5	35:BA:1546:C:H2'	1.66	0.60
35:BA:2787:C:H1'	39:BE:61:ARG:CG	2.30	0.60
37:BC:213:VAL:HG12	37:BC:225:ILE:HD11	1.82	0.60
39:BE:170:LEU:HD12	39:BE:170:LEU:N	2.16	0.60
40:BF:157:VAL:HG22	40:BF:194:MET:HG2	1.83	0.60
42:BH:156:ALA:O	42:BH:158:HIS:HD2	1.84	0.60
44:BK:115:LEU:HB3	44:BK:126:MET:HE1	1.83	0.60
46:BN:22:THR:HA	46:BN:61:ARG:O	2.00	0.60
47:BO:104:ARG:NE	52:BT:33:LYS:HE3	2.14	0.60
49:BQ:66:ILE:O	49:BQ:66:ILE:HG13	2.01	0.60
53:BU:55:ARG:HA	53:BU:58:ARG:HG3	1.82	0.60
53:BU:83:LEU:HD12	53:BU:83:LEU:N	2.16	0.60
54:BV:2:PHE:O	54:BV:3:ALA:HB3	2.01	0.60
58:BZ:108:PRO:HG2	58:BZ:111:VAL:HG23	1.82	0.60
1:CA:1101:A:H4'	1:CA:1102:A:C4'	2.32	0.60
1:CA:1254:C:H2'	1:CA:1255:G:C8	2.36	0.60
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.67	0.60
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.16	0.60
19:CS:14:HIS:CD2	19:CS:15:LEU:HD23	2.33	0.60
24:CY:185:ALA:HB3	24:CY:199:ILE:O	2.01	0.60
31:D6:15:GLU:OE2	31:D6:20:ASN:ND2	2.34	0.60
35:DA:279:C:H3'	35:DA:280:C:H5''	1.82	0.60
35:DA:518:G:H4'	55:DW:18:ARG:NH1	2.15	0.60
35:DA:892:G:H2'	35:DA:893:C:C6	2.36	0.60
35:DA:1075:C:H5'	35:DA:1076:C:OP2	2.01	0.60
37:DC:128:LEU:HD11	37:DC:132:LEU:HG	1.83	0.60
38:DD:31:LYS:NZ	38:DD:33:LEU:HB2	2.16	0.60
41:DG:61:ALA:HA	41:DG:64:THR:HG22	1.83	0.60
48:DP:58:THR:C	48:DP:61:ARG:HE	2.06	0.60
52:DT:25:GLY:HA2	52:DT:92:GLY:CA	2.32	0.60
57:DY:44:ILE:HG22	57:DY:45:VAL:N	2.16	0.60
58:DZ:158:PRO:HD2	58:DZ:161:VAL:HG21	1.82	0.60
1:AA:22:G:O2'	1:AA:23:C:H5'	2.01	0.60
1:AA:201:C:H2'	1:AA:202:U:H5''	1.83	0.60
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.31	0.60
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.36	0.60
5:AE:15:ARG:HG3	5:AE:28:PHE:CE2	2.37	0.60
6:AF:33:TYR:HA	6:AF:71:ARG:NH2	2.16	0.60
8:AH:1:MET:HE2	8:AH:1:MET:H3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:3:LYS:NZ	10:AJ:76:ASN:HA	2.16	0.60
35:BA:175:G:O2'	35:BA:176:G:H5'	2.02	0.60
35:BA:481:G:OP2	57:BY:47:LYS:HD3	2.01	0.60
35:BA:510:C:H3'	35:BA:510:C:OP1	2.01	0.60
35:BA:848:G:O6	35:BA:928:G:H2'	2.01	0.60
35:BA:1022:G:N2	35:BA:1142(A):A:H2	1.99	0.60
35:BA:1094:U:H2'	35:BA:1096:A:OP2	2.00	0.60
35:BA:1682:G:H2'	35:BA:1683:C:H6	1.64	0.60
35:BA:2040:C:H2'	35:BA:2041:U:C6	2.36	0.60
37:BC:65:LEU:HD13	37:BC:189:ASN:ND2	2.16	0.60
38:BD:155:LEU:HD12	38:BD:155:LEU:N	2.16	0.60
40:BF:53:THR:CG2	40:BF:56:GLU:HG3	2.17	0.60
40:BF:181:LEU:HB3	40:BF:205:ARG:HH11	1.64	0.60
52:BT:98:LYS:HB3	52:BT:100:TYR:HE1	1.66	0.60
53:BU:76:TYR:CD2	53:BU:76:TYR:C	2.79	0.60
56:BX:10:ALA:O	56:BX:28:PHE:HB2	2.00	0.60
58:BZ:63:ASP:HB2	58:BZ:65:GLN:HE21	1.66	0.60
1:CA:1348:U:H2'	1:CA:1349:A:H8	1.67	0.60
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.12	0.60
3:CC:133:ALA:O	3:CC:137:ALA:HB2	2.02	0.60
6:CF:42:GLU:O	6:CF:44:GLY:N	2.34	0.60
12:CL:117:ARG:NH2	12:CL:124:LYS:HB2	2.17	0.60
24:CY:119:GLU:C	24:CY:120:THR:HG1	2.10	0.60
24:CY:415:PRO:HA	24:CY:474:ALA:CB	2.32	0.60
24:CY:489:LYS:CG	24:CY:598:ASP:HB2	2.31	0.60
33:D8:33:ASN:N	33:D8:36:LYS:HD2	2.16	0.60
35:DA:363(A):A:H2'	35:DA:363(B):G:H8	1.67	0.60
35:DA:1168:G:H2'	35:DA:1169:G:C8	2.37	0.60
35:DA:1971:A:C4	38:DD:241:PRO:HD3	2.37	0.60
35:DA:2377:A:H2'	35:DA:2378:A:C8	2.36	0.60
35:DA:2572:A:H5'	35:DA:2574:G:C4'	2.29	0.60
39:DE:179:GLU:HB3	39:DE:181:LEU:CD2	2.31	0.60
40:DF:18:ARG:HG2	40:DF:19:GLU:H	1.67	0.60
40:DF:185:ASP:HA	40:DF:188:ARG:HG2	1.83	0.60
41:DG:120:LEU:HD12	41:DG:180:PHE:HE2	1.66	0.60
44:DK:79:ARG:HD2	44:DK:85:GLU:O	2.00	0.60
47:DO:47:ILE:HG22	47:DO:48:PRO:HD2	1.83	0.60
48:DP:23:PRO:HB2	48:DP:33:ARG:NE	2.16	0.60
52:DT:29:ARG:HD3	52:DT:86:ILE:HG22	1.82	0.60
53:DU:80:ILE:O	53:DU:84:LYS:HB2	2.02	0.60
58:DZ:150:LEU:N	58:DZ:150:LEU:HD23	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:45:U:H2'	1:AA:46:G:H8	1.66	0.60
9:AI:53:VAL:HG23	9:AI:55:ALA:HB3	1.82	0.60
10:AJ:3:LYS:HZ3	10:AJ:77:PRO:HD2	1.67	0.60
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.23	0.60
10:AJ:55:LYS:CE	10:AJ:55:LYS:N	2.62	0.60
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.83	0.60
26:B1:90:ILE:O	26:B1:94:LEU:HD12	2.01	0.60
31:B6:15:GLU:CD	31:B6:44:ARG:NH2	2.60	0.60
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.17	0.60
35:BA:198:C:H42	35:BA:248:G:H1	1.49	0.60
35:BA:214:G:H1'	35:BA:216:A:O2'	2.01	0.60
35:BA:748:G:O6	35:BA:751:A:H4'	2.02	0.60
35:BA:1649:G:O2'	35:BA:1650:G:H5'	2.02	0.60
35:BA:2186:G:C3'	35:BA:2187:G:H5''	2.31	0.60
41:BG:29:TRP:C	41:BG:31:VAL:H	2.10	0.60
41:BG:34:LEU:HB2	41:BG:99:MET:CE	2.31	0.60
41:BG:99:MET:O	41:BG:102:PHE:HB3	2.00	0.60
48:BP:96:THR:HG22	48:BP:126:VAL:HB	1.84	0.60
49:BQ:2:LEU:HG	49:BQ:69:PHE:HE1	1.66	0.60
49:BQ:52:VAL:O	49:BQ:55:VAL:HG12	2.01	0.60
50:BR:28:LEU:CD2	50:BR:29:LEU:HD12	2.31	0.60
52:BT:65:LYS:CE	52:BT:66:VAL:H	2.05	0.60
58:BZ:69:THR:HG22	58:BZ:90:VAL:CA	2.23	0.60
1:CA:449:C:O2	16:CP:42:ARG:HD2	2.01	0.60
1:CA:539:A:H2'	1:CA:540:G:C8	2.36	0.60
2:CB:233:SER:CB	2:CB:234:PRO:CD	2.80	0.60
4:CD:107:ARG:HH21	4:CD:194:LEU:CD1	2.14	0.60
6:CF:8:ILE:HG23	6:CF:85:VAL:HG13	1.82	0.60
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.02	0.60
13:CM:68:GLY:H	13:CM:71:ARG:CB	2.14	0.60
17:CQ:57:VAL:HG23	17:CQ:58:GLU:N	2.16	0.60
18:CR:45:SER:H	18:CR:51:LEU:HG	1.65	0.60
24:CY:439:ARG:H	24:CY:452:SER:HB3	1.67	0.60
26:D1:86:SER:HA	26:D1:89:GLU:OE2	2.01	0.60
30:D5:27:PRO:HG3	55:DW:23:LEU:CD1	2.30	0.60
31:D6:30:THR:HG22	31:D6:32:ASN:ND2	2.16	0.60
35:DA:26:G:H1'	35:DA:515:A:H61	1.65	0.60
35:DA:92:A:H2'	35:DA:93:G:C8	2.37	0.60
35:DA:389:G:O4'	35:DA:2413:G:H4'	2.02	0.60
35:DA:786:C:O2'	35:DA:787:U:H5'	2.02	0.60
35:DA:1328:G:H8	35:DA:1328:G:O5'	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1504:C:C3'	35:DA:1505:C:H5''	2.32	0.60
35:DA:1677:A:H2'	35:DA:1678:G:C8	2.37	0.60
41:DG:94:LEU:HD22	41:DG:98:ARG:HB3	1.83	0.60
42:DH:124:GLU:HG3	42:DH:132:ARG:HG3	1.83	0.60
48:DP:24:GLY:CA	48:DP:33:ARG:NH1	2.65	0.60
50:DR:7:GLY:C	50:DR:8:ARG:NE	2.59	0.60
52:DT:26:ASP:C	52:DT:26:ASP:OD2	2.44	0.60
52:DT:126:ALA:C	52:DT:128:GLU:H	2.08	0.60
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.37	0.60
1:AA:1239:A:H62	1:AA:1299:A:N6	1.99	0.60
1:AA:1490:C:H5'	1:AA:1490:C:C6	2.37	0.60
2:AB:60:ASP:O	2:AB:64:ARG:NH2	2.35	0.60
3:AC:154:SER:O	3:AC:165:THR:HA	2.02	0.60
4:AD:92:VAL:O	4:AD:96:LEU:HD22	2.01	0.60
13:AM:11:ARG:O	13:AM:13:LYS:N	2.35	0.60
22:AW:28:U:H2'	22:AW:29:C:C6	2.36	0.60
27:B2:25:VAL:C	27:B2:27:GLU:N	2.59	0.60
34:B9:29:ASN:ND2	34:B9:29:ASN:O	2.34	0.60
35:BA:406:G:O2'	35:BA:407:G:H8	1.83	0.60
35:BA:1516:C:H2'	35:BA:1517:G:H5'	1.84	0.60
35:BA:1827:C:C2'	35:BA:1828:G:H5'	2.31	0.60
35:BA:2552:U:O2	35:BA:2554:U:H5'	2.02	0.60
37:BC:132:LEU:HB3	37:BC:138:LEU:N	2.17	0.60
47:BO:26:LYS:HB3	47:BO:30:ALA:HB2	1.83	0.60
48:BP:16:ARG:HB2	48:BP:16:ARG:HH11	1.65	0.60
52:BT:33:LYS:HE2	52:BT:43:GLN:CD	2.26	0.60
58:BZ:119:GLU:C	58:BZ:121:HIS:H	2.09	0.60
1:CA:677:U:H3	1:CA:713:G:H22	1.49	0.60
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.37	0.60
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.36	0.60
5:CE:12:LEU:HD13	5:CE:12:LEU:C	2.26	0.60
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.27	0.60
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.83	0.60
14:CN:14:PRO:O	14:CN:15:LYS:O	2.20	0.60
16:CP:21:VAL:HG11	16:CP:59:TRP:NE1	2.17	0.60
18:CR:37:VAL:O	18:CR:39:VAL:N	2.33	0.60
24:CY:459:LEU:HD12	24:CY:460:GLU:N	2.17	0.60
35:DA:212:G:H5'	35:DA:212:G:C8	2.33	0.60
35:DA:1467:C:H5	35:DA:1546:C:H2'	1.65	0.60
35:DA:2299:G:O2'	35:DA:2300:G:H5'	2.02	0.60
36:DB:106:G:H2'	36:DB:107:G:H8	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:185:ASP:HA	40:DF:188:ARG:CG	2.31	0.60
41:DG:43:LEU:HD22	41:DG:43:LEU:N	2.17	0.60
42:DH:171:LEU:CD2	42:DH:172:LYS:O	2.50	0.60
46:DN:14:VAL:HG11	46:DN:137:LYS:HD2	1.82	0.60
48:DP:33:ARG:O	48:DP:34:GLY:C	2.43	0.60
51:DS:89:ARG:HG3	51:DS:92:TYR:CB	2.31	0.60
51:DS:90:GLY:C	51:DS:92:TYR:H	2.09	0.60
51:DS:106:ARG:HD2	51:DS:106:ARG:C	2.26	0.60
52:DT:90:GLN:HG2	52:DT:120:ARG:NH2	2.16	0.60
53:DU:92:ARG:NH1	54:DV:11:GLN:HG3	2.16	0.60
54:DV:39:LEU:HD12	54:DV:50:PRO:O	2.02	0.60
1:AA:60:A:H5''	1:AA:331:G:N2	2.16	0.60
1:AA:189:G:H2'	1:AA:189(A):C:C6	2.36	0.60
1:AA:505:G:H2'	1:AA:506:G:H8	1.66	0.60
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.65	0.60
7:AG:64:GLN:O	7:AG:67:GLU:HB3	2.02	0.60
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.66	0.60
10:AJ:32:ALA:HB3	10:AJ:76:ASN:O	2.02	0.60
24:AY:150:ILE:C	24:AY:152:THR:H	2.10	0.60
24:AY:215:LYS:O	24:AY:219:VAL:N	2.34	0.60
24:AY:248:LYS:O	24:AY:248:LYS:HG2	2.02	0.60
24:AY:605:ILE:HG23	24:AY:646:PHE:HB3	1.82	0.60
25:B0:5:LYS:HB2	49:BQ:80:GLU:O	2.02	0.60
26:B1:6:GLU:OE1	26:B1:60:PHE:HA	2.02	0.60
35:BA:144:C:H2'	35:BA:145:G:C8	2.37	0.60
35:BA:296:C:O2'	35:BA:297:C:H5'	2.02	0.60
35:BA:1105:U:H2'	35:BA:1106:G:O4'	2.01	0.60
35:BA:1245:G:H5''	40:BF:34:TRP:HZ2	1.66	0.60
36:BB:48:A:H2'	36:BB:49:C:C6	2.37	0.60
39:BE:179:GLU:HB3	39:BE:181:LEU:CD2	2.31	0.60
42:BH:105:LEU:CD2	42:BH:113:VAL:HB	2.32	0.60
46:BN:57:ALA:N	46:BN:124:ALA:HA	2.16	0.60
49:BQ:56:ARG:HH21	58:BZ:180:VAL:CG2	2.12	0.60
52:BT:51:ARG:HG3	52:BT:98:LYS:HE3	1.84	0.60
1:CA:723:U:H5'	1:CA:724:G:OP2	2.01	0.60
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.31	0.60
1:CA:1320:C:OP1	19:CS:70:LYS:NZ	2.35	0.60
2:CB:12:GLU:HA	2:CB:16:HIS:ND1	2.16	0.60
7:CG:27:ILE:HD11	7:CG:40:ALA:HA	1.84	0.60
9:CI:53:VAL:HG23	9:CI:55:ALA:HB3	1.83	0.60
24:CY:377:VAL:HG21	24:CY:380:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:24:LYS:O	25:D0:25:ARG:HD3	2.01	0.60
26:D1:60:PHE:CE1	26:D1:91:LYS:HE3	2.36	0.60
28:D3:11:SER:HB3	35:DA:988:A:P	2.42	0.60
35:DA:84:A:C5'	57:DY:9:LYS:HZ2	2.12	0.60
35:DA:144:C:H2'	35:DA:145:G:C8	2.36	0.60
35:DA:552:G:H5'	35:DA:552:G:H8	1.67	0.60
35:DA:1125:G:H3'	35:DA:1126:A:H5''	1.84	0.60
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.66	0.60
38:DD:23:GLU:HA	38:DD:23:GLU:OE1	2.02	0.60
38:DD:71:ASP:CB	38:DD:103:ARG:HH22	2.04	0.60
38:DD:145:VAL:HG22	38:DD:191:ALA:CB	2.31	0.60
38:DD:259:THR:O	38:DD:260:ARG:C	2.43	0.60
40:DF:84:VAL:O	40:DF:86:GLY:N	2.32	0.60
48:DP:146:VAL:HG22	48:DP:147:LEU:N	2.11	0.60
52:DT:38:ASN:C	52:DT:38:ASN:ND2	2.40	0.60
52:DT:98:LYS:HB3	52:DT:100:TYR:HE1	1.67	0.60
54:DV:32:THR:HG23	54:DV:59:ALA:O	2.01	0.60
1:AA:161:A:H2'	1:AA:162:A:H8	1.67	0.60
1:AA:1119:C:O2'	1:AA:1120:G:H5'	2.01	0.60
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.63	0.60
12:AL:34:ARG:HG3	12:AL:105:TYR:CE1	2.35	0.60
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.17	0.60
24:AY:176:GLY:CA	24:AY:187:THR:HA	2.32	0.60
24:AY:389:LEU:HD12	24:AY:389:LEU:N	2.16	0.60
27:B2:36:ARG:HA	27:B2:39:ALA:HB3	1.82	0.60
35:BA:143:G:H4'	56:BX:35:THR:HG21	1.84	0.60
35:BA:143(A):C:H4'	56:BX:38:GLU:OE1	2.01	0.60
35:BA:259:G:H21	35:BA:621:A:H8	1.50	0.60
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	2.01	0.60
35:BA:1847:A:H3'	35:BA:1848:A:H5'	1.82	0.60
35:BA:2175:C:H1'	37:BC:218:THR:O	2.02	0.60
35:BA:2202:C:H2'	38:BD:151:LYS:NZ	2.16	0.60
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.02	0.60
44:BK:112:MET:HG3	44:BK:113:PRO:HD3	1.84	0.60
1:CA:129(A):G:H5''	1:CA:129(A):G:H8	1.65	0.60
1:CA:445:G:H2'	1:CA:446:G:H8	1.66	0.60
1:CA:861:G:O2'	1:CA:862:C:H5'	2.02	0.60
1:CA:1356:G:H2'	1:CA:1357:A:H8	1.66	0.60
1:CA:1479:C:O2'	1:CA:1480:G:H5'	2.02	0.60
3:CC:178:LEU:O	3:CC:180:ALA:N	2.34	0.60
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:82:ALA:HA	9:CI:85:LEU:HD11	1.83	0.60
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.16	0.60
19:CS:53:ASN:C	19:CS:55:LYS:H	2.10	0.60
24:CY:276:VAL:HA	24:CY:280:LEU:HD23	1.82	0.60
24:CY:609:GLU:H	24:CY:670:VAL:HG22	1.67	0.60
24:CY:636:PRO:HB3	24:CY:641:GLN:OE1	2.02	0.60
25:D0:36:ILE:O	25:D0:36:ILE:HG13	2.02	0.60
31:D6:10:LEU:H	31:D6:10:LEU:HD22	1.64	0.60
31:D6:11:LEU:HD22	31:D6:12:GLU:N	2.17	0.60
31:D6:48:VAL:O	31:D6:49:HIS:HB2	2.02	0.60
35:DA:78:A:O2'	35:DA:79:G:H5'	2.02	0.60
35:DA:322:A:H3'	40:DF:169:ASN:HD21	1.66	0.60
35:DA:1657:C:O2'	35:DA:1658:C:H5'	2.01	0.60
35:DA:2450:A:O2'	35:DA:2451:A:H5'	2.01	0.60
35:DA:2472:G:H3'	35:DA:2475:C:N4	2.17	0.60
35:DA:2794:C:H42	35:DA:2801(A):A:H61	1.50	0.60
40:DF:28:ILE:H	40:DF:28:ILE:CD1	2.15	0.60
44:DK:14:ALA:HA	44:DK:41:PHE:CZ	2.37	0.60
46:DN:3:THR:C	46:DN:4:TYR:CG	2.80	0.60
47:DO:60:ALA:HA	47:DO:87:ILE:CD1	2.32	0.60
48:DP:23:PRO:CB	48:DP:33:ARG:HG3	2.32	0.60
51:DS:34:HIS:NE2	51:DS:54:LEU:HB3	2.16	0.60
52:DT:83:ILE:HG13	52:DT:84:GLN:HG2	1.83	0.60
1:AA:445:G:H2'	1:AA:446:G:H8	1.67	0.60
1:AA:499:A:H4'	1:AA:500:G:OP1	2.02	0.60
1:AA:664:G:H22	1:AA:741:G:H1	1.48	0.60
1:AA:1005:A:OP1	1:AA:1006:C:N3	2.35	0.60
2:AB:151:GLY:O	2:AB:153:ARG:N	2.35	0.60
11:AK:122:LYS:O	11:AK:123:LYS:C	2.44	0.60
16:AP:1:MET:HE2	16:AP:65:GLN:HG3	1.82	0.60
24:AY:106:VAL:HG23	24:AY:132:ARG:HG3	1.84	0.60
24:AY:293:THR:HB	24:AY:294:PRO:HD2	1.84	0.60
26:B1:45:ASN:HD21	26:B1:47:GLN:NE2	1.98	0.60
27:B2:47:ASN:ND2	35:BA:94(A):G:H21	2.00	0.60
29:B4:27:THR:O	29:B4:28:LYS:HB3	2.02	0.60
32:B7:34:ARG:HH12	32:B7:39:ARG:HD2	1.67	0.60
35:BA:389:G:O4'	35:BA:2413:G:H4'	2.02	0.60
35:BA:484:C:OP1	57:BY:50:ARG:HG3	2.01	0.60
35:BA:975(A):G:O2'	35:BA:976:C:H5'	2.02	0.60
35:BA:1558:A:H4'	35:BA:1559:G:O5'	2.02	0.60
35:BA:1833:U:H2'	35:BA:1834:U:H6	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2348:U:H2'	35:BA:2349:G:H5''	1.83	0.60
35:BA:2472:G:H3'	35:BA:2475:C:N4	2.17	0.60
36:BB:106:G:H2'	36:BB:107:G:H8	1.65	0.60
37:BC:14:LYS:HD3	37:BC:14:LYS:H	1.66	0.60
42:BH:105:LEU:HD23	42:BH:105:LEU:H	1.67	0.60
42:BH:170:ARG:O	42:BH:171:LEU:CB	2.47	0.60
55:BW:59:VAL:O	55:BW:59:VAL:CG1	2.50	0.60
1:CA:201:C:H2'	1:CA:202:U:H5''	1.83	0.60
1:CA:270:A:H2'	1:CA:271:C:C6	2.36	0.60
1:CA:1004:A:H61	1:CA:1034:G:C2'	2.14	0.60
1:CA:1108:G:H5'	3:CC:176:HIS:CD2	2.37	0.60
1:CA:1441:G:H4'	1:CA:1442:G:C4	2.37	0.60
4:CD:176:LEU:HD12	4:CD:177:ASP:H	1.66	0.60
5:CE:6:PHE:HB3	5:CE:35:GLY:O	2.02	0.60
13:CM:83:ASP:CG	13:CM:84:ILE:N	2.60	0.60
24:CY:71:THR:HG22	24:CY:80:ASN:OD1	2.01	0.60
24:CY:191:ASP:C	24:CY:193:GLY:H	2.08	0.60
27:D2:69:ARG:CG	27:D2:70:GLN:H	2.15	0.60
30:D5:3:LYS:NZ	35:DA:2613:U:H2'	2.16	0.60
30:D5:36:CYS:SG	30:D5:38:ALA:HB3	2.42	0.60
33:D8:25:MET:HG3	48:DP:64:LYS:CB	2.32	0.60
34:D9:19:ARG:CB	35:DA:2756:U:H5'	2.31	0.60
35:DA:134:C:H2'	35:DA:135:G:H8	1.65	0.60
35:DA:406:G:O2'	35:DA:407:G:H8	1.84	0.60
35:DA:910:A:H62	49:DQ:12:GLN:HA	1.67	0.60
35:DA:990:A:N6	35:DA:1186:G:H1'	2.17	0.60
35:DA:1452:A:C3'	35:DA:1453:U:C5'	2.72	0.60
35:DA:1899:G:H22	35:DA:1902:C:H41	1.21	0.60
35:DA:2392:A:C8	48:DP:60:MET:HB3	2.34	0.60
35:DA:2583:G:H2'	35:DA:2584:U:O2	2.02	0.60
35:DA:2839:G:H1	35:DA:2878:U:H3	1.49	0.60
39:DE:133:LYS:C	39:DE:134:ILE:HG13	2.27	0.60
42:DH:170:ARG:O	42:DH:171:LEU:CB	2.49	0.60
50:DR:10:LEU:HD22	50:DR:17:ARG:CD	2.32	0.60
54:DV:47:VAL:HB	54:DV:50:PRO:O	2.01	0.60
55:DW:68:ARG:CA	55:DW:110:LYS:HG2	2.32	0.60
56:DX:10:ALA:O	56:DX:28:PHE:HB2	2.02	0.60
58:DZ:127:LYS:O	58:DZ:162:GLU:HG2	2.02	0.60
1:AA:96:U:HO2'	1:AA:97:G:H8	1.50	0.59
1:AA:853:G:O2'	1:AA:854:G:H5'	2.02	0.59
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1415:G:H2'	1:AA:1416:G:C8	2.37	0.59
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.16	0.59
5:AE:33:VAL:HG12	5:AE:34:VAL:N	2.16	0.59
10:AJ:32:ALA:HB3	10:AJ:78:ASN:HD21	1.67	0.59
24:AY:201:ILE:H	24:AY:201:ILE:CD1	2.14	0.59
24:AY:228:MET:O	24:AY:231:TYR:HB3	2.02	0.59
24:AY:264:LEU:O	24:AY:264:LEU:HD23	2.01	0.59
27:B2:38:GLN:C	27:B2:40:SER:H	2.10	0.59
30:B5:3:LYS:HG2	35:BA:747:U:O4	2.01	0.59
35:BA:814:C:H2'	35:BA:815:C:H6	1.65	0.59
40:BF:17:ARG:HG3	40:BF:17:ARG:HH11	1.67	0.59
41:BG:114:ILE:HG12	41:BG:140:ILE:HG21	1.85	0.59
48:BP:23:PRO:HB2	48:BP:33:ARG:NE	2.16	0.59
49:BQ:97:VAL:CG1	49:BQ:103:MET:HE3	2.26	0.59
51:BS:99:LYS:O	51:BS:101:LEU:N	2.34	0.59
52:BT:83:ILE:HG13	52:BT:84:GLN:HG2	1.83	0.59
58:BZ:179:ASP:O	58:BZ:180:VAL:C	2.44	0.59
1:CA:483:C:C3'	1:CA:484:G:H5''	2.31	0.59
1:CA:1316:G:O2'	14:CN:18:VAL:HG11	2.02	0.59
9:CI:3:GLN:NE2	9:CI:20:ARG:HH21	2.00	0.59
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.64	0.59
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.02	0.59
10:CJ:3:LYS:NZ	10:CJ:77:PRO:HD2	2.17	0.59
10:CJ:32:ALA:HB3	10:CJ:76:ASN:O	2.02	0.59
12:CL:47:LYS:HD2	12:CL:48:PRO:HD3	1.84	0.59
12:CL:76:ASN:CG	12:CL:76:ASN:O	2.44	0.59
20:CT:73:HIS:O	20:CT:76:ALA:HB3	2.02	0.59
22:CW:31:G:H2'	22:CW:32:G:C8	2.34	0.59
24:CY:15:ILE:C	24:CY:15:ILE:HD12	2.27	0.59
26:D1:86:SER:HA	26:D1:89:GLU:CD	2.27	0.59
35:DA:514:A:H2'	35:DA:515:A:C8	2.37	0.59
35:DA:528:A:H2	35:DA:2043:C:C4'	2.15	0.59
35:DA:654(P):C:C2'	35:DA:654(Q):C:H5'	2.32	0.59
35:DA:1290:C:H2'	35:DA:1291:C:H6	1.67	0.59
35:DA:1326:U:O2'	35:DA:1327:C:H5'	2.01	0.59
35:DA:2052:G:H4'	39:DE:143:ASN:O	2.01	0.59
35:DA:2329:G:H2'	35:DA:2330:G:H8	1.67	0.59
35:DA:2344:U:H4'	35:DA:2345:G:OP1	2.00	0.59
38:DD:43:ARG:HD2	38:DD:44:ASN:OD1	2.02	0.59
42:DH:83:TYR:HB3	42:DH:135:GLY:N	2.17	0.59
45:DL:19:UNK:C	45:DL:21:UNK:N	2.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:64:ARG:NE	52:DT:70:VAL:HG21	2.17	0.59
51:DS:106:ARG:HB3	51:DS:106:ARG:NH1	2.13	0.59
52:DT:51:ARG:HG3	52:DT:98:LYS:HE3	1.83	0.59
57:DY:74:PRO:HG3	57:DY:83:THR:HG22	1.84	0.59
58:DZ:179:ASP:OD1	58:DZ:182:LYS:HG3	2.02	0.59
1:AA:390:C:H2'	1:AA:391:G:H8	1.66	0.59
1:AA:999:C:H2'	1:AA:1000:U:C6	2.37	0.59
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.37	0.59
3:AC:94:LEU:O	3:AC:95:THR:HG23	2.01	0.59
10:AJ:32:ALA:N	10:AJ:78:ASN:ND2	2.49	0.59
13:AM:27:LYS:HE2	13:AM:31:LYS:CE	2.24	0.59
14:AN:14:PRO:O	14:AN:15:LYS:O	2.19	0.59
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.36	0.59
22:AW:10:G:H2'	22:AW:11:A:C8	2.37	0.59
24:AY:337:SER:CA	24:AY:355:LEU:HD23	2.32	0.59
27:B2:67:LYS:O	27:B2:70:GLN:HG3	2.02	0.59
31:B6:35:GLU:HB2	31:B6:51:GLU:HB2	1.84	0.59
32:B7:24:THR:HG23	32:B7:27:GLY:N	2.16	0.59
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.03	0.59
35:BA:1438:U:O2'	35:BA:1439:A:H5'	2.01	0.59
35:BA:2498:C:O2'	35:BA:2499:C:H5'	2.03	0.59
36:BB:7:G:H5'	51:BS:29:PHE:CD1	2.36	0.59
37:BC:4:HIS:ND1	37:BC:8:TYR:CE2	2.70	0.59
39:BE:34:VAL:HG11	39:BE:78:LEU:HD22	1.84	0.59
40:BF:140:LEU:O	40:BF:143:ALA:HB3	2.03	0.59
42:BH:105:LEU:HD23	42:BH:113:VAL:HB	1.84	0.59
46:BN:67:LEU:CD2	46:BN:87:LEU:HB3	2.32	0.59
48:BP:84:ASN:C	48:BP:86:LYS:N	2.57	0.59
50:BR:97:VAL:HA	50:BR:113:LEU:O	2.00	0.59
57:BY:31:LEU:HB2	57:BY:32:PRO:CA	2.31	0.59
1:CA:183:G:H2'	1:CA:184:G:H8	1.65	0.59
1:CA:1270:C:H4'	1:CA:1313:U:O2'	2.02	0.59
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.38	0.59
13:CM:11:ARG:O	13:CM:13:LYS:N	2.35	0.59
24:CY:74:TRP:HB3	24:CY:79:ILE:HD11	1.83	0.59
24:CY:164:MET:HB2	24:CY:258:VAL:O	2.01	0.59
24:CY:499:ARG:HB2	24:CY:506:GLN:HB3	1.84	0.59
35:DA:1022:G:N2	35:DA:1142(A):A:H2	2.00	0.59
35:DA:1842:G:H2'	35:DA:1843:C:C6	2.37	0.59
35:DA:2037:G:H2'	35:DA:2038:G:C8	2.38	0.59
35:DA:2260:C:H2'	35:DA:2261:C:H6	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2756:U:H1'	35:DA:2757:A:C8	2.37	0.59
36:DB:40:U:O2	36:DB:43:C:H5''	2.02	0.59
41:DG:77:ILE:O	41:DG:80:PHE:N	2.32	0.59
44:DK:3:LYS:HD3	44:DK:29:GLN:HG2	1.84	0.59
45:DL:100:UNK:HA	45:DL:105:UNK:CB	2.31	0.59
49:DQ:52:VAL:O	49:DQ:55:VAL:HG12	2.02	0.59
56:DX:8:ILE:HD11	56:DX:42:ALA:O	2.02	0.59
58:DZ:20:ARG:HB2	58:DZ:20:ARG:NH1	2.13	0.59
1:AA:992:U:H1'	1:AA:993:G:C2	2.37	0.59
1:AA:1095:U:P	1:AA:1108:G:H1	2.25	0.59
2:AB:233:SER:CB	2:AB:234:PRO:CD	2.80	0.59
4:AD:15:GLU:O	4:AD:17:VAL:HG23	2.01	0.59
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.18	0.59
9:AI:79:LEU:CD1	9:AI:83:ARG:HB2	2.33	0.59
10:AJ:29:ARG:HB3	10:AJ:29:ARG:CZ	2.31	0.59
12:AL:28:LYS:HE2	12:AL:33:ARG:NH1	2.17	0.59
17:AQ:52:LYS:H	17:AQ:52:LYS:CD	2.12	0.59
22:AW:74:A:H2'	22:AW:75:C:H5''	1.83	0.59
24:AY:97:SER:O	24:AY:100:VAL:HG13	2.02	0.59
24:AY:135:PHE:CD1	24:AY:272:LEU:HD22	2.37	0.59
34:B9:17:ILE:HG22	34:B9:18:ARG:N	2.17	0.59
34:B9:19:ARG:CB	35:BA:2756:U:H5'	2.32	0.59
35:BA:212:G:H8	35:BA:212:G:C5'	2.16	0.59
35:BA:1141:U:H6	46:BN:63:THR:HG21	1.67	0.59
35:BA:1328:G:H8	35:BA:1328:G:O5'	1.85	0.59
35:BA:1921:G:O2'	35:BA:1922:G:H5'	2.02	0.59
42:BH:65:HIS:HE1	42:BH:69:ARG:HH11	1.50	0.59
57:BY:61:ILE:HG12	57:BY:62:GLU:N	2.16	0.59
1:CA:950:U:H2'	1:CA:951:G:H8	1.67	0.59
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.28	0.59
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	1.84	0.59
10:CJ:30:SER:HA	10:CJ:80:LYS:HE2	1.85	0.59
13:CM:70:LEU:C	13:CM:70:LEU:HD23	2.27	0.59
22:CW:37:U:H3	23:CX:13:A:N6	2.00	0.59
23:CX:13:A:H5'	23:CX:14:A:OP2	2.03	0.59
24:CY:537:GLU:O	24:CY:540:PRO:HD2	2.02	0.59
24:CY:578:SER:HB3	24:CY:581:ALA:CB	2.31	0.59
30:D5:3:LYS:HZ2	30:D5:5:PRO:HB2	1.67	0.59
31:D6:5:VAL:HG12	31:D6:6:ARG:N	2.16	0.59
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.01	0.59
35:DA:1788:C:O2'	35:DA:1789:A:H5'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2462:U:H2'	35:DA:2463:C:C6	2.37	0.59
35:DA:2469:A:H2	35:DA:2481:G:H21	1.49	0.59
35:DA:2646:C:OP2	35:DA:2732:G:H2'	2.01	0.59
39:DE:24:THR:HG22	39:DE:186:GLY:CA	2.30	0.59
39:DE:70:ALA:O	39:DE:71:GLY:C	2.46	0.59
41:DG:51:ARG:HA	41:DG:51:ARG:NE	2.13	0.59
42:DH:98:LEU:HD22	42:DH:125:VAL:HG23	1.83	0.59
46:DN:67:LEU:HB3	46:DN:88:GLU:HG3	1.83	0.59
48:DP:16:ARG:HD3	48:DP:18:ARG:N	2.09	0.59
49:DQ:27:VAL:HG11	49:DQ:134:ARG:HD3	1.83	0.59
51:DS:59:LYS:HG2	51:DS:60:GLY:N	2.17	0.59
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.31	0.59
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	2.02	0.59
2:AB:21:ARG:HD2	2:AB:39:ILE:CG1	2.33	0.59
3:AC:101:LEU:HD23	3:AC:101:LEU:C	2.28	0.59
8:AH:104:ARG:HB3	8:AH:108:GLY:H	1.67	0.59
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.67	0.59
21:AU:6:ARG:HH21	21:AU:15:ARG:NH2	1.99	0.59
24:AY:82:ILE:HD12	24:AY:101:LEU:HD22	1.85	0.59
29:B4:9:LEU:CD1	29:B4:10:VAL:H	2.15	0.59
31:B6:7:ILE:HD12	31:B6:7:ILE:N	2.17	0.59
31:B6:40:CYS:HB2	31:B6:46:HIS:ND1	2.18	0.59
31:B6:54:ILE:HD13	35:BA:2420:C:H4'	1.83	0.59
33:B8:30:ARG:O	33:B8:31:HIS:HB3	2.01	0.59
35:BA:139(A):G:N2	56:BX:44:GLU:OE1	2.36	0.59
35:BA:786:C:O2'	35:BA:787:U:H5'	2.02	0.59
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.67	0.59
35:BA:2469:A:H2	35:BA:2481:G:H21	1.49	0.59
35:BA:2801:A:H4'	35:BA:2801(A):A:O4'	2.02	0.59
38:BD:35:LYS:CD	38:BD:36:PRO:N	2.60	0.59
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.02	0.59
39:BE:49:LEU:N	39:BE:49:LEU:CD2	2.66	0.59
41:BG:59:GLU:O	41:BG:63:ILE:HG13	2.03	0.59
48:BP:23:PRO:O	48:BP:33:ARG:HD2	2.01	0.59
49:BQ:43:THR:O	49:BQ:47:ILE:HG13	2.02	0.59
51:BS:89:ARG:HG3	51:BS:92:TYR:CB	2.31	0.59
52:BT:10:VAL:C	52:BT:12:SER:N	2.57	0.59
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	2.17	0.59
1:CA:218:C:H5'	1:CA:470:C:N4	2.18	0.59
1:CA:953:G:O6	1:CA:1228:C:N4	2.35	0.59
1:CA:1005:A:OP1	1:CA:1006:C:N3	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:86:VAL:O	3:CC:90:GLU:HG2	2.02	0.59
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.32	0.59
13:CM:63:THR:HG22	13:CM:64:TRP:H	1.67	0.59
22:CW:14:A:C3'	22:CW:15:G:H5''	2.33	0.59
22:CW:74:A:C3'	22:CW:75:C:H5''	2.32	0.59
24:CY:142:THR:C	24:CY:144:ALA:H	2.10	0.59
24:CY:406:GLU:HB3	24:CY:407:PRO:HD2	1.84	0.59
24:CY:499:ARG:O	24:CY:505:GLY:O	2.19	0.59
35:DA:16:G:H2'	35:DA:17:G:H8	1.67	0.59
35:DA:2287:A:N6	35:DA:2344:U:N3	2.48	0.59
35:DA:2787:C:H1'	39:DE:61:ARG:CG	2.30	0.59
36:DB:18:G:H2'	36:DB:19:G:H8	1.67	0.59
37:DC:99:GLU:O	37:DC:100:ILE:HD13	2.03	0.59
38:DD:267:SER:O	38:DD:269:PHE:N	2.34	0.59
39:DE:170:LEU:HD12	39:DE:170:LEU:N	2.17	0.59
41:DG:114:ILE:O	41:DG:116:ASP:N	2.36	0.59
42:DH:105:LEU:CD2	42:DH:113:VAL:HB	2.32	0.59
47:DO:104:ARG:NE	52:DT:33:LYS:HE3	2.16	0.59
48:DP:84:ASN:C	48:DP:86:LYS:N	2.58	0.59
57:DY:17:SER:OG	57:DY:18:GLY:N	2.35	0.59
57:DY:76:CYS:SG	57:DY:77:PRO:CD	2.82	0.59
4:AD:108:LEU:HD21	4:AD:183:GLY:HA3	1.84	0.59
4:AD:121:VAL:HA	4:AD:126:ILE:HD13	1.83	0.59
5:AE:107:ARG:HG2	5:AE:108:ALA:N	2.18	0.59
5:AE:143:ARG:HH12	8:AH:77:GLU:CD	2.10	0.59
7:AG:113:GLU:HG2	7:AG:119:ARG:HG2	1.85	0.59
9:AI:41:VAL:HG12	9:AI:41:VAL:O	2.02	0.59
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.32	0.59
22:AV:3:C:C2'	22:AV:4:G:H5'	2.32	0.59
24:AY:206:LEU:HD11	24:AY:210:ARG:HH12	1.67	0.59
24:AY:315:LYS:NZ	24:AY:317:MET:HG2	2.17	0.59
31:B6:16:CYS:SG	31:B6:48:VAL:HG21	2.42	0.59
35:BA:654(R):C:HO2'	35:BA:654(S):G:H8	1.49	0.59
35:BA:892:G:H2'	35:BA:893:C:C6	2.37	0.59
35:BA:1102:C:H2'	35:BA:1103:A:C8	2.37	0.59
35:BA:1221(A):C:O2'	35:BA:1222:C:H5'	2.02	0.59
35:BA:2712:U:O2'	35:BA:2712(A):A:O5'	2.20	0.59
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.37	0.59
36:BB:106:G:C5'	58:BZ:31:ARG:HB3	2.33	0.59
38:BD:106:ILE:HD11	38:BD:196:VAL:HG13	1.83	0.59
38:BD:145:VAL:HG12	38:BD:146:GLU:N	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:18:ARG:HG2	40:BF:19:GLU:H	1.68	0.59
40:BF:163:VAL:O	40:BF:166:ALA:HB3	2.03	0.59
44:BK:3:LYS:HB3	44:BK:29:GLN:HB3	1.84	0.59
46:BN:46:VAL:HG13	46:BN:47:ALA:N	2.08	0.59
55:BW:68:ARG:CA	55:BW:110:LYS:HG2	2.32	0.59
57:BY:9:LYS:HD3	57:BY:94:LYS:HE2	1.84	0.59
58:BZ:151:HIS:CA	58:BZ:171:ILE:HG23	2.22	0.59
1:CA:99:U:H2'	1:CA:100:C:C6	2.37	0.59
2:CB:153:ARG:C	2:CB:155:LEU:N	2.58	0.59
7:CG:151:TYR:HH	11:CK:54:ARG:HD3	1.66	0.59
10:CJ:47:PHE:CZ	14:CN:37:PHE:CE2	2.90	0.59
11:CK:18:ARG:HH21	11:CK:37:GLY:N	2.00	0.59
24:CY:555:LEU:HD21	24:CY:599:PRO:HG3	1.84	0.59
24:CY:621:ILE:HD11	24:CY:634:MET:HE1	1.85	0.59
27:D2:65:ASN:ND2	35:DA:112:U:H5'	2.17	0.59
29:D4:25:TYR:O	29:D4:26:SER:HB3	2.03	0.59
35:DA:15:G:O2'	35:DA:16:G:H5'	2.02	0.59
35:DA:214:G:H1'	35:DA:216:A:O2'	2.02	0.59
35:DA:274:G:O2'	35:DA:275:G:H5''	2.03	0.59
35:DA:303:U:H2'	35:DA:304:G:C8	2.38	0.59
35:DA:637:A:OP1	48:DP:133:SER:HB3	2.03	0.59
35:DA:1080:C:O2'	44:DK:126:MET:HG3	2.02	0.59
35:DA:1102:C:H2'	35:DA:1103:A:C8	2.38	0.59
35:DA:1198:U:H2'	35:DA:1198:U:O2	2.01	0.59
35:DA:2008:C:H2'	35:DA:2009:G:H8	1.67	0.59
40:DF:32:LEU:O	40:DF:36:VAL:HG23	2.01	0.59
42:DH:41:MET:HG2	42:DH:43:VAL:HG13	1.84	0.59
46:DN:21:LYS:HD2	46:DN:26:LEU:HB3	1.85	0.59
48:DP:91:PHE:HZ	48:DP:100:LEU:HD11	1.67	0.59
52:DT:125:ARG:HH11	52:DT:125:ARG:CA	2.14	0.59
54:DV:18:LEU:CG	54:DV:19:LYS:H	2.14	0.59
58:DZ:61:LEU:HD12	58:DZ:65:GLN:HB2	1.85	0.59
1:AA:1347:G:O2'	1:AA:1348:U:P	2.60	0.59
1:AA:1409:C:H2'	1:AA:1410:G:H8	1.68	0.59
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.04	0.59
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.83	0.59
12:AL:20:LYS:HD3	12:AL:20:LYS:N	2.16	0.59
13:AM:106:ASN:O	13:AM:107:ALA:HB3	2.02	0.59
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.26	0.59
22:AV:72:A:H2'	22:AV:73:A:C8	2.37	0.59
22:AW:30:G:H2'	22:AW:31:G:H8	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:3:GLU:HG3	36:BB:43:C:OP1	2.03	0.59
35:BA:27:G:N2	35:BA:512:G:C2'	2.64	0.59
35:BA:310:A:OP2	57:BY:18:GLY:HA2	2.02	0.59
35:BA:614(A):U:H5''	35:BA:614(B):G:OP1	2.03	0.59
35:BA:752:A:O2'	35:BA:753:C:OP2	2.18	0.59
35:BA:996:A:O3'	53:BU:92:ARG:HG2	2.03	0.59
35:BA:2756:U:H1'	35:BA:2757:A:C8	2.37	0.59
38:BD:11:PRO:O	38:BD:13:ARG:N	2.36	0.59
40:BF:84:VAL:O	40:BF:86:GLY:N	2.34	0.59
40:BF:133:ASN:H	40:BF:162:LEU:HD23	1.66	0.59
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.51	0.59
51:BS:70:GLY:C	51:BS:72:ALA:H	2.10	0.59
52:BT:3:ARG:O	52:BT:4:GLY:C	2.44	0.59
1:CA:358:U:H4'	24:CY:322:VAL:O	2.02	0.59
1:CA:1381:U:C5	1:CA:1382:C:C5	2.90	0.59
1:CA:1444:C:H2'	1:CA:1445:C:C5	2.37	0.59
2:CB:96:ARG:HD2	2:CB:96:ARG:N	2.18	0.59
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.17	0.59
12:CL:20:LYS:HD3	12:CL:20:LYS:N	2.17	0.59
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.37	0.59
17:CQ:52:LYS:H	17:CQ:52:LYS:CD	2.11	0.59
17:CQ:99:SER:C	17:CQ:100:LYS:HG3	2.27	0.59
22:CW:14:A:H2'	22:CW:15:G:H5''	1.85	0.59
24:CY:388:THR:HG23	24:CY:399:LEU:HD22	1.83	0.59
30:D5:55:ARG:HH12	50:DR:33:ARG:HD2	1.67	0.59
30:D5:56:LYS:HG3	30:D5:57:VAL:N	2.11	0.59
35:DA:212:G:H8	35:DA:212:G:C5'	2.15	0.59
35:DA:975(A):G:O2'	35:DA:976:C:H5'	2.01	0.59
35:DA:1428:C:N4	35:DA:1569:A:H3'	2.18	0.59
35:DA:1467:C:C5	35:DA:1546:C:H2'	2.38	0.59
35:DA:2443:C:H2'	35:DA:2443:C:O2	2.02	0.59
35:DA:2473:U:C3'	35:DA:2474:C:H5''	2.14	0.59
38:DD:201:HIS:O	38:DD:204:ILE:HG12	2.03	0.59
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.17	0.59
48:DP:114:ILE:O	48:DP:130:PHE:HA	2.02	0.59
54:DV:2:PHE:O	54:DV:3:ALA:HB3	2.01	0.59
54:DV:35:LEU:O	54:DV:37:VAL:N	2.36	0.59
1:AA:1190:G:H3'	3:AC:3:ASN:HD22	1.67	0.59
3:AC:70:VAL:CG1	3:AC:72:LYS:H	2.06	0.59
3:AC:79:ARG:HH11	3:AC:79:ARG:CB	2.11	0.59
4:AD:13:ARG:HA	4:AD:33:MET:HE3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.83	0.59
17:AQ:53:LEU:HD21	17:AQ:85:VAL:HG11	1.84	0.59
18:AR:74:ARG:HD3	18:AR:81:PHE:CD2	2.37	0.59
24:AY:529:ILE:HD11	24:AY:567:LEU:HD11	1.84	0.59
24:AY:662:LYS:HZ2	42:BH:175:LYS:CE	2.10	0.59
29:B4:2:LYS:O	29:B4:4:GLY:N	2.33	0.59
35:BA:688:U:H4'	35:BA:1780:A:C2	2.37	0.59
35:BA:1203:G:H3'	35:BA:1204:A:C5'	2.31	0.59
35:BA:2188:C:H2'	35:BA:2189:U:C6	2.38	0.59
38:BD:134:ARG:HG3	38:BD:135:PHE:CD1	2.37	0.59
42:BH:12:PRO:CD	42:BH:49:VAL:HG12	2.24	0.59
48:BP:107:LYS:C	48:BP:109:GLY:H	2.09	0.59
52:BT:90:GLN:HG2	52:BT:120:ARG:NH2	2.17	0.59
1:CA:1226:C:N4	13:CM:104:ARG:HD2	2.17	0.59
6:CF:37:VAL:O	6:CF:38:GLU:HG3	2.03	0.59
7:CG:64:GLN:O	7:CG:67:GLU:HB3	2.02	0.59
20:CT:73:HIS:O	20:CT:74:LYS:C	2.46	0.59
24:CY:71:THR:HG21	24:CY:357:ARG:HD2	1.83	0.59
24:CY:213:HIS:O	24:CY:217:VAL:HG23	2.03	0.59
24:CY:507:TYR:C	24:CY:507:TYR:CD1	2.80	0.59
29:D4:5:ILE:O	29:D4:5:ILE:HG12	2.01	0.59
31:D6:45:LYS:HE3	35:DA:2371:G:H5''	1.85	0.59
31:D6:51:GLU:HG2	31:D6:52:VAL:H	1.68	0.59
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.67	0.59
35:DA:1163:G:O2'	35:DA:1164:G:H5'	2.03	0.59
35:DA:1212:G:O2'	35:DA:1236:G:N2	2.35	0.59
35:DA:1993:U:H4'	39:DE:128:SER:OG	2.02	0.59
35:DA:2495:G:H5''	49:DQ:82:ARG:HG2	1.84	0.59
35:DA:2801:A:H4'	35:DA:2801(A):A:O4'	2.02	0.59
39:DE:36:ARG:HG2	39:DE:36:ARG:NH1	2.14	0.59
40:DF:17:ARG:HG3	40:DF:17:ARG:HH11	1.68	0.59
40:DF:110:LEU:CD1	40:DF:206:ILE:HD11	2.25	0.59
40:DF:158:THR:HG21	40:DF:163:VAL:HB	1.85	0.59
41:DG:40:ASN:ND2	41:DG:41:GLN:N	2.51	0.59
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.51	0.59
49:DQ:12:GLN:NE2	49:DQ:73:PRO:HD2	2.16	0.59
52:DT:29:ARG:CG	52:DT:85:LYS:HA	2.33	0.59
57:DY:90:LEU:HD12	57:DY:91:GLU:OE2	2.03	0.59
58:DZ:142:SER:H	58:DZ:144:LEU:CD2	2.16	0.59
2:AB:7:VAL:O	2:AB:11:LEU:HG	2.02	0.59
17:AQ:80:GLY:O	17:AQ:81:ARG:HD2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:196:ILE:HG13	24:AY:197:ARG:N	2.17	0.59
35:BA:274:G:O2'	35:BA:275:G:H5''	2.01	0.59
35:BA:675:A:OP1	40:BF:63:LYS:HE2	2.03	0.59
35:BA:1168:G:H2'	35:BA:1169:G:C8	2.37	0.59
35:BA:1242:A:C6	48:BP:8:PRO:HG2	2.38	0.59
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.38	0.59
35:BA:2111:C:C2	35:BA:2147:G:N2	2.71	0.59
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.37	0.59
35:BA:2506:U:H4'	35:BA:2507:C:OP1	2.00	0.59
35:BA:2794:C:H42	35:BA:2801(A):A:H61	1.50	0.59
41:BG:130:ASN:OD1	41:BG:160:VAL:HA	2.02	0.59
41:BG:131:TYR:CE2	41:BG:133:LEU:HB3	2.38	0.59
47:BO:61:VAL:HG21	47:BO:111:PHE:CE2	2.38	0.59
48:BP:80:TYR:CE1	48:BP:111:ARG:HG2	2.38	0.59
49:BQ:21:THR:HG23	49:BQ:101:ARG:HB2	1.85	0.59
56:BX:18:TYR:C	56:BX:20:GLY:N	2.59	0.59
58:BZ:107:THR:HG23	58:BZ:111:VAL:HG21	1.83	0.59
58:BZ:152:ALA:HA	58:BZ:167:PRO:HB2	1.84	0.59
1:CA:122:G:O2'	1:CA:123:C:H5'	2.03	0.59
1:CA:630:G:O2'	1:CA:631:G:H5''	2.03	0.59
1:CA:1190:G:H3'	3:CC:3:ASN:HD22	1.68	0.59
2:CB:111:ARG:HH11	2:CB:111:ARG:HG2	1.67	0.59
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.83	0.59
7:CG:121:ALA:O	7:CG:125:MET:HG3	2.03	0.59
10:CJ:29:ARG:CZ	10:CJ:29:ARG:HB3	2.32	0.59
16:CP:25:ARG:HG3	16:CP:25:ARG:NH1	2.18	0.59
24:CY:373:ASP:C	24:CY:374:LEU:HD12	2.28	0.59
31:D6:15:GLU:C	31:D6:16:CYS:O	2.45	0.59
35:DA:1093:G:H21	35:DA:1098:A:H62	1.50	0.59
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.02	0.59
35:DA:1711:C:O2'	35:DA:1712:C:H5'	2.03	0.59
39:DE:184:VAL:O	39:DE:186:GLY:N	2.28	0.59
40:DF:39:TRP:CB	40:DF:101:LEU:HD22	2.32	0.59
42:DH:12:PRO:CD	42:DH:49:VAL:HG12	2.24	0.59
44:DK:109:LYS:CA	44:DK:112:MET:HE3	2.23	0.59
46:DN:128:HIS:HE1	46:DN:134:ARG:HH11	1.50	0.59
51:DS:98:VAL:HG12	51:DS:100:ALA:HB2	1.85	0.59
57:DY:43:ASN:ND2	57:DY:64:GLU:HG3	2.17	0.59
2:AB:89:GLY:O	2:AB:90:MET:HE2	2.02	0.59
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.09	0.59
3:AC:136:GLN:C	3:AC:138:VAL:N	2.58	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:42:GLU:O	6:AF:44:GLY:N	2.36	0.59
12:AL:27:LEU:HG	12:AL:62:SER:HB2	1.85	0.59
15:AO:76:GLU:C	15:AO:78:TYR:N	2.61	0.59
16:AP:21:VAL:HG11	16:AP:59:TRP:NE1	2.18	0.59
16:AP:50:LYS:O	16:AP:51:VAL:HG23	2.03	0.59
18:AR:37:VAL:O	18:AR:39:VAL:N	2.36	0.59
24:AY:87:HIS:O	24:AY:88:VAL:C	2.45	0.59
24:AY:413:ILE:HG22	24:AY:449:THR:O	2.02	0.59
24:AY:487:ILE:H	24:AY:487:ILE:HD13	1.68	0.59
24:AY:606:MET:O	24:AY:646:PHE:HA	2.02	0.59
26:B1:29:GLY:C	26:B1:31:GLY:H	2.10	0.59
35:BA:363(A):A:H2'	35:BA:363(B):G:H8	1.68	0.59
35:BA:1169:G:H1	35:BA:1180:C:H42	1.49	0.59
35:BA:1930:G:O2'	35:BA:1931:U:P	2.61	0.59
35:BA:2495:G:H5''	49:BQ:82:ARG:HG2	1.85	0.59
35:BA:2531:A:OP1	42:BH:177:GLY:C	2.46	0.59
35:BA:2891:G:H4'	35:BA:2892:A:OP1	2.01	0.59
38:BD:24:ILE:O	38:BD:25:THR:O	2.20	0.59
40:BF:32:LEU:O	40:BF:36:VAL:HG23	2.03	0.59
49:BQ:24:GLY:O	49:BQ:102:VAL:HG23	2.02	0.59
52:BT:129:ARG:O	52:BT:129:ARG:CG	2.50	0.59
45:Bm:5:UNK:C	45:Bm:7:UNK:N	2.63	0.59
1:CA:72:C:H2'	1:CA:73:G:C8	2.37	0.59
1:CA:275:G:H5''	17:CQ:14:LYS:CB	2.32	0.59
1:CA:277:C:O2'	1:CA:278:G:H5'	2.02	0.59
1:CA:313:A:O2'	1:CA:314:C:H5'	2.03	0.59
1:CA:434:U:H2'	1:CA:435:C:C6	2.38	0.59
1:CA:1054:C:OP2	1:CA:1197:G:OP2	2.20	0.59
1:CA:1490:C:H6	1:CA:1490:C:C5'	2.13	0.59
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.17	0.59
2:CB:193:ASP:OD2	2:CB:193:ASP:O	2.20	0.59
2:CB:204:ASN:HD22	2:CB:206:ASP:H	1.49	0.59
3:CC:99:VAL:O	3:CC:99:VAL:HG23	2.03	0.59
6:CF:36:ARG:CZ	6:CF:36:ARG:HB3	2.31	0.59
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.38	0.59
11:CK:122:LYS:O	11:CK:123:LYS:C	2.46	0.59
15:CO:65:ARG:HH11	15:CO:65:ARG:HG2	1.67	0.59
19:CS:21:GLU:HG3	19:CS:22:LEU:HD23	1.84	0.59
20:CT:104:LEU:HD23	20:CT:104:LEU:C	2.28	0.59
24:CY:223:PHE:CE2	24:CY:249:GLY:HA3	2.38	0.59
27:D2:29:LYS:HZ2	56:DX:3:THR:N	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:2:LYS:O	29:D4:4:GLY:N	2.35	0.59
29:D4:24:THR:HG21	41:DG:104:GLU:HG2	1.84	0.59
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.83	0.59
35:DA:451:C:H41	35:DA:453:C:H3'	1.68	0.59
35:DA:519:U:H5''	55:DW:25:ARG:NH2	2.17	0.59
35:DA:650:C:H2'	35:DA:651:G:H5''	1.85	0.59
35:DA:1847:A:H3'	35:DA:1848:A:H5'	1.84	0.59
35:DA:1858:G:H2'	35:DA:1883:G:H22	1.66	0.59
37:DC:26:ALA:O	37:DC:30:VAL:HG23	2.03	0.59
55:DW:17:VAL:O	55:DW:20:VAL:HG22	2.03	0.59
56:DX:18:TYR:C	56:DX:20:GLY:N	2.59	0.59
1:AA:183:G:H2'	1:AA:184:G:H8	1.67	0.59
1:AA:1279:A:H5'	1:AA:1280:A:OP1	2.03	0.59
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.38	0.59
4:AD:129:ASN:HD21	4:AD:145:GLU:N	1.96	0.59
4:AD:192:GLU:O	4:AD:193:ASP:C	2.45	0.59
6:AF:38:GLU:O	6:AF:39:LYS:O	2.20	0.59
24:AY:227:ILE:HD11	24:AY:241:GLU:C	2.28	0.59
24:AY:414:GLU:O	24:AY:474:ALA:HB1	2.03	0.59
30:B5:43:HIS:HD2	35:BA:2815:C:O2'	1.85	0.59
31:B6:18:ARG:HG3	31:B6:19:ARG:H	1.68	0.59
35:BA:528:A:H2	35:BA:2043:C:C5'	2.15	0.59
35:BA:1711:C:O2'	35:BA:1712:C:H5'	2.03	0.59
35:BA:2018:G:H21	53:BU:34:LYS:NZ	2.00	0.59
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.38	0.59
36:BB:20:C:H2'	36:BB:21:G:H5'	1.84	0.59
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.03	0.59
39:BE:70:ALA:O	39:BE:71:GLY:C	2.45	0.59
40:BF:148:LEU:HD23	40:BF:191:ARG:NH1	2.18	0.59
40:BF:185:ASP:OD1	40:BF:188:ARG:HD3	2.03	0.59
48:BP:91:PHE:N	48:BP:91:PHE:CD1	2.67	0.59
48:BP:97:PRO:HD3	48:BP:126:VAL:O	2.03	0.59
49:BQ:27:VAL:HG11	49:BQ:134:ARG:HD3	1.84	0.59
54:BV:18:LEU:CG	54:BV:19:LYS:H	2.15	0.59
57:BY:2:ARG:N	57:BY:4:LYS:HG2	2.18	0.59
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HD13	2.37	0.59
58:BZ:108:PRO:HB3	58:BZ:141:VAL:CG1	2.33	0.59
1:CA:882:C:O2'	1:CA:883:C:H5'	2.03	0.59
1:CA:960:U:C5	1:CA:1225:A:C8	2.91	0.59
1:CA:1463:C:O2'	1:CA:1464:G:H5'	2.02	0.59
10:CJ:55:LYS:H	10:CJ:55:LYS:HE3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:21:GLU:HG3	19:CS:22:LEU:CD2	2.33	0.59
24:CY:85:PRO:O	24:CY:87:HIS:N	2.36	0.59
24:CY:109:ASP:OD1	24:CY:111:SER:HB2	2.02	0.59
24:CY:142:THR:HG22	24:CY:143:GLY:N	2.17	0.59
25:D0:14:ARG:HH11	25:D0:14:ARG:CB	2.15	0.59
26:D1:82:LEU:C	26:D1:83:GLU:HG3	2.28	0.59
35:DA:143:G:H4'	56:DX:35:THR:HG21	1.83	0.59
35:DA:296:C:O2'	35:DA:297:C:H5'	2.03	0.59
35:DA:443:A:H3'	40:DF:45:ARG:HH21	1.67	0.59
35:DA:492:A:C2'	35:DA:493:G:H5'	2.33	0.59
35:DA:564:C:O2'	35:DA:565:C:H5'	2.03	0.59
35:DA:1109:C:H5'	35:DA:1110:G:OP2	2.03	0.59
35:DA:2030:A:H5''	35:DA:2031:A:OP1	2.02	0.59
35:DA:2097:C:H2'	35:DA:2098:U:H6	1.67	0.59
37:DC:57:GLN:NE2	37:DC:205:ALA:HA	2.18	0.59
38:DD:267:SER:HA	38:DD:270:ILE:HD11	1.84	0.59
40:DF:59:TYR:HE1	40:DF:85:GLY:O	1.85	0.59
40:DF:125:LEU:HD23	40:DF:125:LEU:N	2.17	0.59
41:DG:91:ARG:HD2	41:DG:92:VAL:N	2.18	0.59
42:DH:92:ILE:O	42:DH:94:TYR:N	2.30	0.59
44:DK:37:PHE:O	44:DK:41:PHE:HB3	2.02	0.59
45:DL:67:UNK:O	45:DL:69:UNK:N	2.36	0.59
47:DO:47:ILE:CG2	47:DO:48:PRO:HD2	2.33	0.59
47:DO:91:LEU:N	47:DO:91:LEU:HD22	2.18	0.59
50:DR:28:LEU:CD2	50:DR:29:LEU:HD12	2.32	0.59
50:DR:85:PRO:C	50:DR:87:TYR:H	2.10	0.59
55:DW:9:TYR:H	55:DW:102:HIS:HD2	1.50	0.59
1:AA:313:A:O2'	1:AA:314:C:H5'	2.03	0.58
1:AA:405:U:H3'	1:AA:406:G:H5'	1.84	0.58
1:AA:861:G:O2'	1:AA:862:C:H5'	2.02	0.58
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.68	0.58
4:AD:11:LEU:O	4:AD:12:CYS:C	2.45	0.58
9:AI:95:LYS:HD3	9:AI:95:LYS:C	2.28	0.58
24:AY:510:VAL:HG13	24:AY:569:ASP:O	2.02	0.58
24:AY:519:ARG:NH1	24:AY:678:GLU:HB2	2.18	0.58
24:AY:544:LYS:O	24:AY:548:GLU:HB2	2.03	0.58
25:B0:10:THR:HG22	25:B0:11:ARG:H	1.68	0.58
25:B0:14:ARG:HH11	25:B0:14:ARG:CB	2.15	0.58
26:B1:41:ARG:HH22	35:BA:1365:A:C5'	2.16	0.58
26:B1:57:GLU:HG2	26:B1:58:ILE:N	2.18	0.58
35:BA:279:C:H3'	35:BA:280:C:H5''	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:605:C:H2'	35:BA:606:U:H6	1.67	0.58
38:BD:31:LYS:NZ	38:BD:33:LEU:HB2	2.18	0.58
39:BE:9:VAL:CG2	39:BE:10:GLY:N	2.65	0.58
42:BH:68:THR:O	42:BH:72:ILE:HG12	2.03	0.58
42:BH:83:TYR:HB3	42:BH:135:GLY:N	2.16	0.58
48:BP:64:LYS:C	48:BP:66:GLY:H	2.10	0.58
49:BQ:39:PRO:HB3	49:BQ:99:PRO:HD3	1.85	0.58
52:BT:28:VAL:HG21	52:BT:46:GLU:CG	2.26	0.58
52:BT:35:LYS:NZ	52:BT:41:ARG:NH1	2.50	0.58
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ3	1.65	0.58
57:BY:43:ASN:ND2	57:BY:64:GLU:HG3	2.17	0.58
58:BZ:4:ARG:HH12	58:BZ:66:SER:CB	2.15	0.58
58:BZ:54:HIS:HE1	58:BZ:123:ASP:OD2	1.85	0.58
1:CA:100:C:H2'	1:CA:101:A:C8	2.38	0.58
1:CA:499:A:H4'	1:CA:500:G:OP1	2.02	0.58
1:CA:1308:U:H5''	13:CM:98:VAL:CG2	2.32	0.58
6:CF:4:TYR:CE1	6:CF:92:LYS:HD2	2.38	0.58
6:CF:36:ARG:HB3	6:CF:36:ARG:NH1	2.18	0.58
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.02	0.58
13:CM:6:GLY:C	13:CM:8:GLU:N	2.59	0.58
24:CY:181:LEU:CD2	24:CY:243:VAL:HG22	2.30	0.58
24:CY:416:LYS:HG2	24:CY:417:THR:N	2.19	0.58
24:CY:515:GLU:OE2	24:CY:564:LYS:HD3	2.03	0.58
35:DA:358:U:H2'	35:DA:359:A:C8	2.27	0.58
35:DA:1203:G:H3'	35:DA:1204:A:C5'	2.33	0.58
35:DA:1245:G:C5'	40:DF:34:TRP:HZ2	2.16	0.58
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.38	0.58
35:DA:2262:U:C2'	35:DA:2263:C:H5''	2.31	0.58
51:DS:99:LYS:O	51:DS:101:LEU:N	2.36	0.58
52:DT:51:ARG:O	52:DT:61:PHE:HA	2.03	0.58
1:AA:241:C:O2'	1:AA:242:C:H5'	2.03	0.58
1:AA:434:U:H2'	1:AA:435:C:C6	2.38	0.58
1:AA:741:G:O2'	1:AA:742:G:H5'	2.03	0.58
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.02	0.58
1:AA:1298:C:H5''	7:AG:114:ARG:HH22	1.69	0.58
1:AA:1348:U:H2'	1:AA:1349:A:H8	1.67	0.58
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	1.84	0.58
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.32	0.58
5:AE:100:VAL:HG23	5:AE:100:VAL:O	2.02	0.58
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.38	0.58
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.45	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:70:LEU:HD23	13:AM:70:LEU:C	2.27	0.58
14:AN:44:LEU:O	14:AN:44:LEU:HD12	2.03	0.58
15:AO:64:ARG:HH11	15:AO:64:ARG:HG3	1.69	0.58
24:AY:137:ASN:ND2	24:AY:263:ALA:H	2.00	0.58
27:B2:3:LEU:HB2	35:BA:98:G:OP1	2.02	0.58
31:B6:41:PRO:O	31:B6:42:TRP:C	2.47	0.58
35:BA:6:A:N3	35:BA:6:A:H2'	2.17	0.58
35:BA:184:C:H2'	35:BA:185:U:H6	1.65	0.58
35:BA:320:A:H4'	35:BA:322:A:C8	2.38	0.58
35:BA:365:C:H5'	35:BA:365:C:C6	2.37	0.58
35:BA:519:U:H5''	55:BW:25:ARG:NH2	2.18	0.58
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.38	0.58
35:BA:1467:C:C5	35:BA:1546:C:H2'	2.38	0.58
35:BA:1485:G:N3	35:BA:1505:C:N3	2.51	0.58
35:BA:1796:U:OP1	38:BD:276:LYS:HE3	2.03	0.58
36:BB:18:G:H2'	36:BB:19:G:H8	1.68	0.58
42:BH:86:GLU:HA	42:BH:132:ARG:HA	1.84	0.58
46:BN:97:ARG:O	46:BN:101:HIS:HB2	2.03	0.58
1:CA:853:G:O2'	1:CA:854:G:H5'	2.03	0.58
1:CA:1298:C:H5''	7:CG:114:ARG:HH22	1.68	0.58
1:CA:1305:G:N2	1:CA:1331:G:O2'	2.30	0.58
1:CA:1370:G:C2	1:CA:1371:G:C8	2.91	0.58
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.38	0.58
6:CF:42:GLU:C	6:CF:44:GLY:H	2.11	0.58
12:CL:27:LEU:HG	12:CL:62:SER:HB2	1.85	0.58
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.37	0.58
19:CS:29:ARG:O	19:CS:31:ILE:N	2.35	0.58
24:CY:110:SER:HA	24:CY:149:VAL:CG2	2.33	0.58
24:CY:137:ASN:O	24:CY:139:MET:N	2.30	0.58
24:CY:183:MET:O	24:CY:201:ILE:HD11	2.03	0.58
24:CY:227:ILE:HD13	24:CY:242:LEU:HA	1.85	0.58
24:CY:485:GLU:OE2	24:CY:553:GLY:HA3	2.02	0.58
25:D0:10:THR:HG22	25:D0:11:ARG:H	1.68	0.58
30:D5:19:ARG:HA	35:DA:2046:G:C5'	2.32	0.58
35:DA:27:G:O2'	35:DA:28:A:H8	1.85	0.58
35:DA:271(I):G:H3'	35:DA:271(J):C:H6	1.68	0.58
35:DA:1353:A:H2'	35:DA:1354:A:C8	2.38	0.58
35:DA:1493:C:C4	35:DA:2206:G:O2'	2.56	0.58
35:DA:1614:A:H2'	35:DA:1615:C:H5'	1.84	0.58
35:DA:1717:G:C2'	35:DA:1718:G:H5''	2.34	0.58
35:DA:1794:U:O2'	35:DA:1795:C:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2056:G:N3	35:DA:2056:G:H2'	2.17	0.58
35:DA:2200:C:H42	35:DA:2223:G:H1	1.51	0.58
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.39	0.58
37:DC:211:ARG:HH11	37:DC:211:ARG:HG3	1.68	0.58
38:DD:80:ALA:HB3	38:DD:94:LEU:HB3	1.85	0.58
39:DE:101:ARG:HH11	39:DE:169:ASN:ND2	2.01	0.58
42:DH:16:SER:CB	42:DH:27:LYS:HB2	2.31	0.58
54:DV:32:THR:OG1	54:DV:60:GLU:HG3	2.04	0.58
58:DZ:80:ARG:O	58:DZ:81:ARG:C	2.46	0.58
1:AA:160:A:H1'	1:AA:344:A:N7	2.18	0.58
1:AA:483:C:C3'	1:AA:484:G:H5''	2.29	0.58
1:AA:955:U:O2'	1:AA:956:U:H5'	2.03	0.58
4:AD:25:ARG:HH12	4:AD:30:LYS:HB2	1.69	0.58
4:AD:61:LYS:HD3	4:AD:206:PHE:CE2	2.38	0.58
4:AD:203:VAL:O	4:AD:206:PHE:HB3	2.03	0.58
24:AY:71:THR:HG21	24:AY:357:ARG:HD2	1.83	0.58
24:AY:101:LEU:HD12	24:AY:103:GLY:O	2.04	0.58
29:B4:9:LEU:HD13	29:B4:26:SER:O	2.02	0.58
33:B8:25:MET:HG3	48:BP:64:LYS:CB	2.33	0.58
35:BA:637:A:OP1	48:BP:133:SER:HB3	2.03	0.58
35:BA:1332:G:H22	35:BA:1609:A:H3'	1.68	0.58
42:BH:98:LEU:HD22	42:BH:125:VAL:HG23	1.83	0.58
46:BN:96:GLU:N	46:BN:96:GLU:CD	2.57	0.58
56:BX:8:ILE:HD11	56:BX:42:ALA:O	2.02	0.58
58:BZ:145:GLU:OE1	58:BZ:146:ILE:HD13	2.03	0.58
1:CA:59:A:H2'	1:CA:59:A:N3	2.17	0.58
1:CA:160:A:H1'	1:CA:344:A:N7	2.18	0.58
1:CA:1452:C:O2'	1:CA:1456:G:H5''	2.03	0.58
2:CB:97:TRP:CZ2	2:CB:102:LEU:HD13	2.34	0.58
2:CB:151:GLY:O	2:CB:153:ARG:N	2.36	0.58
16:CP:48:TRP:H	16:CP:48:TRP:CD1	2.19	0.58
20:CT:47:GLY:O	20:CT:49:ALA:N	2.30	0.58
24:CY:498:ILE:O	24:CY:498:ILE:HG13	2.03	0.58
24:CY:605:ILE:HD11	24:CY:677:GLN:CG	2.32	0.58
26:D1:3:LYS:HD3	35:DA:1364:G:H5''	1.84	0.58
26:D1:80:LEU:HB3	26:D1:82:LEU:CD1	2.33	0.58
26:D1:82:LEU:HD23	26:D1:90:ILE:HG23	1.85	0.58
27:D2:36:ARG:HA	27:D2:39:ALA:CB	2.33	0.58
35:DA:27:G:N2	35:DA:512:G:C2'	2.64	0.58
35:DA:145:G:H2'	35:DA:146:G:C8	2.37	0.58
35:DA:484:C:OP1	57:DY:50:ARG:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:528:A:H2	35:DA:2043:C:C5'	2.15	0.58
35:DA:573:G:O2'	35:DA:574:C:H3'	2.03	0.58
35:DA:797:C:OP1	40:DF:62:ARG:HG3	2.02	0.58
35:DA:813:U:H2'	35:DA:814:C:C5	2.38	0.58
35:DA:889:C:H2'	35:DA:890:A:O4'	2.03	0.58
35:DA:1196:C:O2'	35:DA:1227:G:H4'	2.04	0.58
35:DA:1485:G:N3	35:DA:1505:C:N3	2.50	0.58
35:DA:1827:C:C2'	35:DA:1828:G:H5'	2.32	0.58
35:DA:2297:C:O2'	35:DA:2298:A:H5'	2.03	0.58
36:DB:48:A:H2'	36:DB:49:C:C6	2.37	0.58
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.32	0.58
41:DG:133:LEU:HD12	41:DG:133:LEU:O	2.02	0.58
42:DH:156:ALA:O	42:DH:158:HIS:HD2	1.86	0.58
48:DP:80:TYR:CE1	48:DP:111:ARG:HG2	2.37	0.58
52:DT:10:VAL:C	52:DT:12:SER:N	2.58	0.58
52:DT:108:ARG:HA	52:DT:111:ARG:NH1	2.18	0.58
53:DU:49:HIS:HA	53:DU:52:ARG:HB2	1.84	0.58
53:DU:93:LYS:HD2	53:DU:93:LYS:H	1.69	0.58
57:DY:9:LYS:HD3	57:DY:94:LYS:HE2	1.83	0.58
58:DZ:58:VAL:HA	58:DZ:67:LEU:O	2.03	0.58
1:AA:218:C:H5'	1:AA:470:C:N4	2.18	0.58
1:AA:219:C:H2'	1:AA:220:G:O4'	2.02	0.58
1:AA:1392:G:N2	1:AA:1502:A:C8	2.71	0.58
3:AC:142:MET:HE1	3:AC:148:GLY:HA2	1.84	0.58
10:AJ:78:ASN:C	10:AJ:79:ARG:HH11	2.11	0.58
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.35	0.58
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.18	0.58
22:AW:68:C:H2'	22:AW:69:C:C5	2.38	0.58
24:AY:108:PHE:HE1	24:AY:118:SER:HB2	1.67	0.58
24:AY:227:ILE:HD13	24:AY:242:LEU:HA	1.85	0.58
30:B5:43:HIS:CD2	35:BA:2815:C:O2'	2.56	0.58
35:BA:552:G:H8	35:BA:552:G:H5'	1.68	0.58
35:BA:654(P):C:C2'	35:BA:654(Q):C:H5'	2.32	0.58
35:BA:2809:A:H2'	35:BA:2810:A:C8	2.39	0.58
36:BB:115:G:H2'	36:BB:116:G:H8	1.69	0.58
41:BG:107:LEU:HD23	41:BG:111:LEU:CD1	2.32	0.58
42:BH:12:PRO:O	42:BH:15:VAL:HG22	2.04	0.58
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.33	0.58
52:BT:108:ARG:HA	52:BT:111:ARG:NH1	2.18	0.58
1:CA:8:A:N6	4:CD:209:ARG:HB2	2.17	0.58
1:CA:38:G:C2	1:CA:397:A:C2	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:196:LEU:C	4:CD:198:VAL:H	2.12	0.58
6:CF:11:ASN:HB3	6:CF:14:LEU:HG	1.83	0.58
7:CG:140:ASP:O	7:CG:144:MET:HG2	2.04	0.58
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.85	0.58
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.85	0.58
30:D5:44:THR:O	30:D5:51:TYR:HE1	1.87	0.58
31:D6:9:LEU:HD12	31:D6:28:ARG:HG3	1.84	0.58
31:D6:11:LEU:CD2	31:D6:51:GLU:HG3	2.32	0.58
35:DA:570:G:H2'	35:DA:2030:A:C5	2.38	0.58
35:DA:1221(A):C:O2'	35:DA:1222:C:H5'	2.03	0.58
35:DA:1308:A:H2'	35:DA:1309:G:O4'	2.02	0.58
35:DA:1799:G:H8	38:DD:181:GLU:OE1	1.87	0.58
35:DA:1949:G:H2'	35:DA:1950:G:C8	2.38	0.58
35:DA:2506:U:H4'	35:DA:2507:C:OP1	2.02	0.58
35:DA:2662:A:H2'	35:DA:2663:G:O4'	2.03	0.58
35:DA:2809:A:H2'	35:DA:2810:A:C8	2.38	0.58
40:DF:9:ILE:HG12	40:DF:14:PRO:C	2.28	0.58
43:DJ:37:UNK:C	43:DJ:39:UNK:N	2.65	0.58
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.48	0.58
53:DU:8:VAL:HG23	53:DU:11:ARG:HH21	1.68	0.58
58:DZ:9:TYR:OH	58:DZ:61:LEU:HD13	2.04	0.58
1:AA:99:U:H2'	1:AA:100:C:C6	2.38	0.58
2:AB:12:GLU:HA	2:AB:16:HIS:ND1	2.17	0.58
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.86	0.58
2:AB:86:GLU:C	2:AB:88:ALA:H	2.10	0.58
19:AS:53:ASN:C	19:AS:55:LYS:H	2.11	0.58
20:AT:104:LEU:C	20:AT:104:LEU:HD23	2.27	0.58
24:AY:108:PHE:CE1	24:AY:118:SER:HB2	2.37	0.58
24:AY:617:MET:HE1	24:AY:641:GLN:CD	2.27	0.58
26:B1:26:ARG:HG3	26:B1:27:GLU:N	2.17	0.58
27:B2:3:LEU:HD22	27:B2:7:ARG:CZ	2.33	0.58
30:B5:3:LYS:HZ2	30:B5:5:PRO:HB2	1.68	0.58
33:B8:16:ILE:HD12	33:B8:57:ARG:HG2	1.85	0.58
33:B8:61:LEU:CD1	33:B8:62:LEU:H	2.10	0.58
35:BA:16:G:O2'	35:BA:17:G:H5'	2.03	0.58
35:BA:192:C:C2'	35:BA:193:U:H5'	2.29	0.58
35:BA:274:G:H2'	35:BA:274:G:N3	2.18	0.58
35:BA:285:C:H2'	35:BA:286:C:H5'	1.86	0.58
35:BA:303:U:H2'	35:BA:304:G:C8	2.39	0.58
35:BA:570:G:H2'	35:BA:2030:A:C5	2.39	0.58
35:BA:1815:A:OP2	35:BA:1822:G:H5''	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2454:G:C2'	35:BA:2455:G:H5'	2.32	0.58
35:BA:2646:C:OP2	35:BA:2732:G:H2'	2.02	0.58
35:BA:2742:C:C2'	35:BA:2743:C:H5'	2.33	0.58
36:BB:88:C:H2'	36:BB:89:G:C8	2.38	0.58
36:BB:105:A:P	58:BZ:72:ARG:HH12	2.26	0.58
38:BD:209:ALA:C	38:BD:210:GLY:O	2.44	0.58
38:BD:241:PRO:O	38:BD:242:ARG:HB2	2.02	0.58
44:BK:77:LEU:HD12	44:BK:107:ILE:CG2	2.32	0.58
46:BN:18:ALA:CB	46:BN:21:LYS:HB2	2.33	0.58
49:BQ:108:GLY:O	49:BQ:109:VAL:HG23	2.03	0.58
53:BU:92:ARG:NH2	54:BV:11:GLN:H	2.01	0.58
1:CA:296:U:O2'	1:CA:297:G:H5'	2.03	0.58
1:CA:992:U:H4'	1:CA:993:G:O5'	2.04	0.58
1:CA:999:C:H2'	1:CA:1000:U:C6	2.39	0.58
1:CA:1404:C:H5'	1:CA:1405:G:OP2	2.03	0.58
1:CA:1441:G:H4'	1:CA:1442:G:C5	2.37	0.58
3:CC:25:GLY:O	3:CC:27:LYS:N	2.35	0.58
3:CC:51:GLY:O	3:CC:115:LEU:HD21	2.03	0.58
4:CD:26:CYS:HA	4:CD:31:CYS:HA	1.85	0.58
9:CI:84:ALA:C	9:CI:86:VAL:H	2.11	0.58
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.18	0.58
24:CY:175:SER:O	24:CY:188:TYR:HD2	1.86	0.58
24:CY:592:GLU:HG2	24:CY:592:GLU:O	2.04	0.58
24:CY:628:ARG:HH11	24:CY:628:ARG:HG2	1.67	0.58
31:D6:15:GLU:CD	31:D6:44:ARG:NH2	2.62	0.58
33:D8:14:VAL:CG2	33:D8:22:VAL:HG13	2.32	0.58
33:D8:16:ILE:HD12	33:D8:57:ARG:HG2	1.84	0.58
35:DA:198:C:H42	35:DA:248:G:H1	1.50	0.58
35:DA:320:A:H4'	35:DA:322:A:C8	2.38	0.58
35:DA:448:U:O4	35:DA:583:G:H1'	2.03	0.58
35:DA:1301:A:O2'	35:DA:1302:A:C2'	2.47	0.58
35:DA:1516:C:C2'	35:DA:1517:G:H5''	2.34	0.58
41:DG:147:ASP:C	41:DG:149:VAL:H	2.11	0.58
42:DH:86:GLU:HB2	42:DH:132:ARG:HB3	1.86	0.58
42:DH:105:LEU:HD23	42:DH:113:VAL:HB	1.85	0.58
46:DN:126:PRO:O	46:DN:127:ASP:HB2	2.03	0.58
47:DO:114:ILE:HD12	47:DO:114:ILE:N	2.17	0.58
48:DP:64:LYS:C	48:DP:66:GLY:H	2.10	0.58
51:DS:51:ALA:HB3	51:DS:73:LEU:HD12	1.85	0.58
58:DZ:120:ILE:HB	58:DZ:171:ILE:O	2.03	0.58
1:AA:393:A:O2'	1:AA:394:G:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:630:G:O2'	1:AA:631:G:H5''	2.03	0.58
2:AB:8:LYS:O	2:AB:11:LEU:N	2.36	0.58
2:AB:223:ILE:HG23	2:AB:226:ARG:NH1	2.18	0.58
7:AG:82:GLY:HA3	23:AX:13:A:H2	1.69	0.58
12:AL:28:LYS:HE2	12:AL:33:ARG:HH12	1.68	0.58
12:AL:47:LYS:HD2	12:AL:48:PRO:HD3	1.85	0.58
13:AM:15:VAL:HG12	13:AM:45:VAL:CG2	2.33	0.58
14:AN:37:PHE:HE1	14:AN:53:LEU:HD22	1.68	0.58
19:AS:21:GLU:HG3	19:AS:22:LEU:HD23	1.84	0.58
20:AT:73:HIS:O	20:AT:76:ALA:HB3	2.03	0.58
24:AY:273:LEU:O	24:AY:276:VAL:HB	2.04	0.58
24:AY:388:THR:HG23	24:AY:399:LEU:HD22	1.85	0.58
24:AY:431:LEU:CD2	24:AY:466:LEU:HD13	2.33	0.58
25:B0:43:THR:HG23	25:B0:43:THR:O	2.03	0.58
25:B0:51:VAL:CG2	25:B0:81:VAL:HG23	2.34	0.58
31:B6:15:GLU:CG	31:B6:47:THR:HG21	2.33	0.58
32:B7:24:THR:C	32:B7:26:GLY:H	2.11	0.58
34:B9:10:ILE:O	34:B9:11:CYS:HB3	2.04	0.58
35:BA:1662:C:H2'	35:BA:1663:C:C6	2.39	0.58
35:BA:2260:C:H2'	35:BA:2261:C:H6	1.67	0.58
35:BA:2329:G:H2'	35:BA:2330:G:H8	1.68	0.58
35:BA:2511:U:O3'	39:BE:123:ALA:HB3	2.04	0.58
35:BA:2572:A:H5'	35:BA:2574:G:C4'	2.28	0.58
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.03	0.58
35:BA:2762:G:H5'	35:BA:2762:G:H8	1.69	0.58
38:BD:131:LEU:HD13	38:BD:136:ILE:HD11	1.86	0.58
47:BO:34:THR:O	47:BO:35:VAL:C	2.45	0.58
47:BO:47:ILE:CG2	47:BO:48:PRO:HD2	2.34	0.58
50:BR:85:PRO:C	50:BR:87:TYR:H	2.10	0.58
51:BS:14:VAL:O	51:BS:15:ARG:C	2.46	0.58
51:BS:59:LYS:HG2	51:BS:60:GLY:N	2.18	0.58
52:BT:83:ILE:HG13	52:BT:84:GLN:H	1.67	0.58
53:BU:113:ALA:C	53:BU:115:ALA:N	2.61	0.58
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	2.18	0.58
57:BY:94:LYS:HG3	57:BY:102:CYS:SG	2.43	0.58
4:CD:17:VAL:HG12	4:CD:17:VAL:O	2.03	0.58
7:CG:82:GLY:HA3	23:CX:13:A:H2	1.69	0.58
13:CM:56:LEU:HD13	13:CM:56:LEU:C	2.28	0.58
13:CM:74:VAL:O	13:CM:77:ASN:HB2	2.02	0.58
17:CQ:76:LEU:HD12	17:CQ:77:VAL:N	2.19	0.58
22:CV:5:G:O2'	22:CV:6:G:H5'	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:174:PHE:HZ	24:CY:261:GLY:HA2	1.66	0.58
24:CY:259:PHE:HB2	24:CY:272:LEU:HD13	1.85	0.58
24:CY:448:GLN:O	24:CY:448:GLN:HG3	2.04	0.58
27:D2:20:GLU:HG3	27:D2:21:LEU:N	2.18	0.58
29:D4:3:GLU:HG2	36:DB:40:U:C5	2.39	0.58
30:D5:3:LYS:NZ	35:DA:2613:U:C2'	2.67	0.58
33:D8:51:ALA:N	33:D8:53:PRO:HD2	2.18	0.58
35:DA:2115:G:N3	35:DA:2117:A:N7	2.52	0.58
35:DA:2307:G:C2	35:DA:2308:G:H5''	2.38	0.58
35:DA:2348:U:H2'	35:DA:2349:G:H5''	1.85	0.58
35:DA:2461:C:H42	35:DA:2489:G:H1	1.51	0.58
38:DD:61:LEU:HB3	38:DD:63:ARG:HH12	1.69	0.58
39:DE:45:THR:O	39:DE:46:ALA:HB2	2.03	0.58
46:DN:18:ALA:CB	46:DN:21:LYS:HB2	2.33	0.58
52:DT:3:ARG:O	52:DT:4:GLY:C	2.44	0.58
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.69	0.58
52:DT:129:ARG:O	52:DT:129:ARG:CG	2.51	0.58
56:DX:35:THR:HG22	56:DX:37:THR:N	2.11	0.58
57:DY:39:VAL:HG12	57:DY:40:GLU:HG2	1.85	0.58
58:DZ:44:PHE:O	58:DZ:48:PHE:N	2.27	0.58
58:DZ:125:LEU:HD23	58:DZ:164:ALA:O	2.04	0.58
1:AA:624:C:H4'	16:AP:10:GLY:C	2.29	0.58
1:AA:925:G:H5'	1:AA:926:G:OP1	2.03	0.58
1:AA:1004:A:H61	1:AA:1034:G:C2'	2.14	0.58
1:AA:1124:G:H5'	10:AJ:35:SER:HB2	1.86	0.58
2:AB:126:GLU:HA	2:AB:129:GLU:CD	2.27	0.58
2:AB:151:GLY:O	2:AB:152:PHE:C	2.47	0.58
3:AC:86:VAL:O	3:AC:90:GLU:HG2	2.04	0.58
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.28	0.58
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.85	0.58
15:AO:65:ARG:HH11	15:AO:65:ARG:HG2	1.67	0.58
20:AT:88:VAL:O	20:AT:92:LEU:HG	2.04	0.58
24:AY:25:LYS:HB2	62:AY:703:GDP:O2B	2.04	0.58
24:AY:441:SER:O	24:AY:449:THR:HG23	2.02	0.58
27:B2:16:LEU:O	27:B2:20:GLU:HB3	2.04	0.58
30:B5:48:GLU:O	30:B5:49:CYS:SG	2.62	0.58
31:B6:8:LYS:HE3	31:B6:25:LYS:CD	2.29	0.58
31:B6:54:ILE:CD1	35:BA:2420:C:H5'	2.33	0.58
34:B9:22:ARG:HB2	34:B9:24:TYR:HE1	1.68	0.58
35:BA:78:A:O2'	35:BA:79:G:H5'	2.03	0.58
35:BA:651:G:H2'	35:BA:652:C:H5'	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1059:G:H4'	44:BK:115:LEU:HD23	1.86	0.58
35:BA:1308:A:H2'	35:BA:1309:G:O4'	2.02	0.58
35:BA:1907:G:O2'	35:BA:1908:C:H5'	2.03	0.58
35:BA:2603:G:O2'	35:BA:2604:U:H5'	2.04	0.58
36:BB:87:G:H1	36:BB:91:C:H42	1.51	0.58
41:BG:133:LEU:HD12	41:BG:133:LEU:C	2.28	0.58
46:BN:46:VAL:O	46:BN:47:ALA:HB3	2.02	0.58
46:BN:87:LEU:HD21	46:BN:98:VAL:HG13	1.85	0.58
47:BO:60:ALA:HA	47:BO:87:ILE:CD1	2.33	0.58
52:BT:125:ARG:HH11	52:BT:125:ARG:CA	2.11	0.58
2:CB:61:LEU:HD23	2:CB:68:ILE:HD11	1.85	0.58
2:CB:97:TRP:HH2	2:CB:176:GLU:CD	2.12	0.58
5:CE:60:TYR:CE1	5:CE:64:ARG:NH2	2.71	0.58
6:CF:4:TYR:HE1	6:CF:92:LYS:HD2	1.69	0.58
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	2.19	0.58
10:CJ:32:ALA:HB3	10:CJ:78:ASN:HD21	1.67	0.58
10:CJ:71:LEU:HD12	10:CJ:72:VAL:N	2.19	0.58
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.18	0.58
12:CL:53:ARG:NH1	12:CL:92:ASP:OD2	2.36	0.58
19:CS:33:THR:HG22	19:CS:49:ILE:HG22	1.86	0.58
24:CY:224:ASP:OD2	24:CY:245:ALA:HB2	2.03	0.58
25:D0:43:THR:HG22	35:DA:2331:G:O2'	2.04	0.58
28:D3:52:HIS:CD2	28:D3:52:HIS:H	2.19	0.58
30:D5:43:HIS:HD2	35:DA:2815:C:O2'	1.86	0.58
30:D5:48:GLU:O	30:D5:49:CYS:CB	2.50	0.58
35:DA:200:U:H2'	35:DA:201:C:H5'	1.85	0.58
35:DA:292:C:O2'	35:DA:293:U:H5'	2.03	0.58
35:DA:680:G:H2'	35:DA:681:G:C8	2.38	0.58
35:DA:946:G:H2'	35:DA:947:G:C8	2.38	0.58
35:DA:996:A:O3'	53:DU:92:ARG:HG2	2.04	0.58
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.38	0.58
35:DA:2577:A:C5'	35:DA:2578:G:H5'	2.33	0.58
37:DC:138:LEU:HD22	37:DC:139:PRO:HD2	1.85	0.58
38:DD:26:LYS:O	38:DD:27:THR:HG22	2.03	0.58
40:DF:28:ILE:HG21	40:DF:116:ASP:HB2	1.85	0.58
1:AA:45:U:H2'	1:AA:46:G:C8	2.38	0.58
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.04	0.58
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.03	0.58
18:AR:37:VAL:C	18:AR:39:VAL:H	2.11	0.58
19:AS:9:VAL:O	19:AS:9:VAL:CG1	2.52	0.58
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:314:PHE:HD1	24:AY:315:LYS:HB2	1.68	0.58
33:B8:10:ALA:O	33:B8:14:VAL:HG12	2.04	0.58
35:BA:572:A:C2	35:BA:2033:A:C2	2.92	0.58
35:BA:1638:C:H2'	35:BA:1639:U:O4'	2.02	0.58
36:BB:91:C:O2'	36:BB:92:C:H5'	2.03	0.58
38:BD:147:LEU:HD13	38:BD:155:LEU:CD1	2.33	0.58
39:BE:77:ILE:HG22	39:BE:78:LEU:CD1	2.34	0.58
40:BF:18:ARG:HG2	40:BF:19:GLU:N	2.19	0.58
1:CA:191:G:H1'	20:CT:105:SER:HA	1.85	0.58
1:CA:1117:G:H5'	1:CA:1117:G:H8	1.68	0.58
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.84	0.58
3:CC:130:VAL:HG21	3:CC:157:ILE:HG23	1.86	0.58
4:CD:192:GLU:O	4:CD:193:ASP:C	2.46	0.58
9:CI:79:LEU:CD1	9:CI:83:ARG:HD2	2.34	0.58
24:CY:637:ARG:HG3	24:CY:637:ARG:HH11	1.69	0.58
32:D7:4:THR:HB	35:DA:788:A:O2'	2.03	0.58
35:DA:1242:A:C6	48:DP:8:PRO:HG2	2.39	0.58
35:DA:2629:A:H2'	35:DA:2629:A:N3	2.18	0.58
35:DA:2742:C:C2'	35:DA:2743:C:H5'	2.33	0.58
36:DB:112:U:H2'	36:DB:113:G:C8	2.35	0.58
39:DE:34:VAL:HG11	39:DE:78:LEU:HD22	1.84	0.58
40:DF:163:VAL:O	40:DF:166:ALA:HB3	2.04	0.58
50:DR:12:ARG:HG3	50:DR:12:ARG:HH11	1.69	0.58
53:DU:33:ARG:C	53:DU:35:ALA:N	2.59	0.58
53:DU:83:LEU:HD12	53:DU:83:LEU:N	2.18	0.58
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	2.19	0.58
55:DW:59:VAL:O	55:DW:59:VAL:CG1	2.51	0.58
57:DY:61:ILE:HG12	57:DY:62:GLU:N	2.19	0.58
1:AA:513:C:O2'	1:AA:514:C:H5'	2.04	0.58
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.04	0.58
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.34	0.58
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.19	0.58
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.38	0.58
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.28	0.58
10:AJ:18:ALA:O	10:AJ:20:ALA:N	2.37	0.58
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.85	0.58
20:AT:73:HIS:O	20:AT:74:LYS:C	2.47	0.58
24:AY:225:GLU:O	24:AY:228:MET:HB3	2.04	0.58
24:AY:438:PHE:HB2	24:AY:452:SER:O	2.04	0.58
25:B0:49:LYS:O	25:B0:51:VAL:HG23	2.04	0.58
26:B1:29:GLY:C	26:B1:31:GLY:N	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:25:MET:O	33:B8:47:LYS:HG2	2.03	0.58
33:B8:50:LEU:O	33:B8:52:LYS:N	2.33	0.58
35:BA:448:U:O4	35:BA:583:G:H1'	2.03	0.58
35:BA:529:A:H4'	35:BA:530:G:O5'	2.04	0.58
35:BA:1043:C:C3'	35:BA:1044:G:H5''	2.34	0.58
35:BA:1668:A:N6	35:BA:1676:A:H61	2.01	0.58
35:BA:1794:U:O2'	35:BA:1795:C:H5'	2.03	0.58
35:BA:2097:C:H2'	35:BA:2098:U:H6	1.68	0.58
35:BA:2629:A:H2'	35:BA:2629:A:N3	2.17	0.58
35:BA:2649:U:O2'	35:BA:2650:U:H5'	2.04	0.58
35:BA:2815:C:H2'	35:BA:2816:C:H6	1.68	0.58
38:BD:131:LEU:N	38:BD:131:LEU:CD1	2.67	0.58
39:BE:144:ARG:O	39:BE:145:LYS:O	2.21	0.58
40:BF:6:VAL:H	40:BF:125:LEU:HD21	1.69	0.58
42:BH:28:GLY:HA3	42:BH:79:VAL:CG2	2.34	0.58
42:BH:92:ILE:C	42:BH:94:TYR:H	2.12	0.58
48:BP:83:VAL:H	48:BP:115:LEU:HD21	1.69	0.58
53:BU:49:HIS:C	53:BU:52:ARG:HB2	2.29	0.58
55:BW:17:VAL:O	55:BW:20:VAL:HG22	2.04	0.58
57:BY:17:SER:HB2	57:BY:71:LYS:HD2	1.85	0.58
58:BZ:144:LEU:N	58:BZ:144:LEU:HD22	2.19	0.58
1:CA:52:G:O2'	1:CA:53:A:H5'	2.03	0.58
1:CA:405:U:H3'	1:CA:406:G:H5'	1.85	0.58
1:CA:630:G:C2'	1:CA:631:G:C5'	2.81	0.58
6:CF:33:TYR:HA	6:CF:71:ARG:HH21	1.69	0.58
6:CF:37:VAL:HG12	6:CF:38:GLU:O	2.04	0.58
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.69	0.58
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	2.04	0.58
21:CU:6:ARG:NH2	21:CU:15:ARG:NH2	2.51	0.58
24:CY:17:ILE:H	24:CY:17:ILE:CD1	2.16	0.58
24:CY:36:THR:HB	24:CY:72:CYS:HB2	1.85	0.58
25:D0:43:THR:O	25:D0:43:THR:HG23	2.03	0.58
30:D5:36:CYS:SG	30:D5:49:CYS:SG	3.01	0.58
35:DA:175:G:O2'	35:DA:176:G:H5'	2.03	0.58
35:DA:206:U:O2	35:DA:206:U:H2'	2.03	0.58
35:DA:787:U:OP1	35:DA:1780:A:N6	2.37	0.58
35:DA:850:C:O2'	35:DA:851:U:H5'	2.03	0.58
35:DA:1516:C:O2'	35:DA:1517:G:H5''	2.03	0.58
35:DA:1578:U:C2'	35:DA:1579:A:H5''	2.32	0.58
35:DA:2097:C:H2'	35:DA:2098:U:C6	2.38	0.58
35:DA:2170:A:H5''	37:DC:135:ARG:HH21	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.39	0.58
36:DB:115:G:H2'	36:DB:116:G:H8	1.68	0.58
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.03	0.58
40:DF:40:GLN:OE1	40:DF:184:TYR:HB2	2.04	0.58
47:DO:1:MET:HE2	47:DO:32:TYR:CD2	2.39	0.58
48:DP:30:THR:O	48:DP:33:ARG:N	2.26	0.58
48:DP:91:PHE:CE2	48:DP:95:VAL:HG12	2.38	0.58
48:DP:97:PRO:HD3	48:DP:126:VAL:O	2.04	0.58
49:DQ:39:PRO:HB3	49:DQ:99:PRO:HD3	1.86	0.58
50:DR:99:LYS:N	50:DR:99:LYS:CD	2.58	0.58
57:DY:88:LYS:N	57:DY:88:LYS:HD2	2.19	0.58
58:DZ:155:LEU:HD23	58:DZ:155:LEU:N	2.18	0.58
1:AA:960:U:C5	1:AA:1225:A:C8	2.92	0.58
1:AA:992:U:H4'	1:AA:993:G:O5'	2.04	0.58
1:AA:1144:G:H21	1:AA:1146:A:H62	1.51	0.58
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.03	0.58
6:AF:69:GLU:O	6:AF:72:VAL:HG12	2.04	0.58
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.19	0.58
8:AH:20:TYR:CE1	8:AH:76:PRO:HG2	2.39	0.58
9:AI:84:ALA:C	9:AI:86:VAL:H	2.12	0.58
10:AJ:55:LYS:H	10:AJ:55:LYS:HE3	1.67	0.58
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.17	0.58
19:AS:31:ILE:HG23	19:AS:49:ILE:HG23	1.86	0.58
24:AY:122:TRP:C	24:AY:124:GLN:N	2.61	0.58
24:AY:605:ILE:CD1	24:AY:677:GLN:HG2	2.34	0.58
24:AY:632:LEU:HD12	24:AY:645:ALA:HA	1.85	0.58
26:B1:80:LEU:CD2	26:B1:81:LYS:N	2.66	0.58
31:B6:35:GLU:HB3	31:B6:51:GLU:HB2	1.86	0.58
31:B6:51:GLU:HG2	31:B6:52:VAL:H	1.67	0.58
35:BA:443:A:H3'	40:BF:45:ARG:HH21	1.68	0.58
35:BA:621:A:H2'	35:BA:622:G:C5'	2.31	0.58
35:BA:784:A:H5''	38:BD:227:ASN:ND2	2.19	0.58
35:BA:848:G:C2	35:BA:933:A:H1'	2.39	0.58
35:BA:2122:U:H1'	37:BC:167:ASP:OD2	2.04	0.58
35:BA:2297:C:O2'	35:BA:2298:A:H5'	2.04	0.58
35:BA:2453:A:H2'	35:BA:2454:G:H8	1.69	0.58
40:BF:158:THR:HG21	40:BF:163:VAL:HB	1.86	0.58
41:BG:119:GLY:HA3	41:BG:181:ARG:H	1.69	0.58
41:BG:141:PHE:O	41:BG:144:ILE:HG22	2.04	0.58
44:BK:7:VAL:O	44:BK:7:VAL:CG1	2.46	0.58
45:BL:90:UNK:C	45:BL:92:UNK:H	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:10:LEU:HD22	50:BR:17:ARG:CD	2.33	0.58
57:BY:8:LYS:HE2	57:BY:72:VAL:HG23	1.85	0.58
1:CA:1410:G:H1	1:CA:1490:C:H42	1.52	0.58
1:CA:1456:G:H2'	1:CA:1457:G:H5'	1.85	0.58
3:CC:138:VAL:O	3:CC:139:GLN:C	2.47	0.58
24:CY:85:PRO:C	24:CY:87:HIS:H	2.11	0.58
24:CY:212:TYR:HA	24:CY:215:LYS:HD2	1.84	0.58
24:CY:296:GLY:O	24:CY:297:GLU:HB3	2.04	0.58
24:CY:415:PRO:HA	24:CY:474:ALA:HB2	1.84	0.58
25:D0:51:VAL:HG21	25:D0:79:VAL:O	2.03	0.58
29:D4:27:THR:O	29:D4:28:LYS:HB3	2.02	0.58
35:DA:529:A:H4'	35:DA:530:G:O5'	2.04	0.58
35:DA:1068:G:N2	35:DA:1096:A:H5'	2.19	0.58
35:DA:2647:U:H2'	35:DA:2648:C:C6	2.39	0.58
36:DB:20:C:H2'	36:DB:21:G:H5'	1.85	0.58
42:DH:136:ILE:HD12	42:DH:136:ILE:N	2.19	0.58
48:DP:135:LEU:HD13	48:DP:135:LEU:O	2.03	0.58
53:DU:26:GLY:O	53:DU:28:ARG:N	2.37	0.58
58:DZ:17:ALA:HA	58:DZ:20:ARG:HG2	1.85	0.58
58:DZ:149:SER:HB2	58:DZ:172:ALA:O	2.04	0.58
58:DZ:168:GLU:O	58:DZ:169:GLU:C	2.47	0.58
1:AA:122:G:O2'	1:AA:123:C:H5'	2.04	0.57
1:AA:677:U:H3	1:AA:713:G:H22	1.50	0.57
1:AA:1392:G:N2	1:AA:1502:A:H8	2.01	0.57
1:AA:1442:G:C5	1:AA:1442(B):A:H2	2.21	0.57
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.39	0.57
2:AB:220:ASP:O	2:AB:223:ILE:N	2.35	0.57
4:AD:114:ARG:HG3	4:AD:114:ARG:NH1	2.18	0.57
5:AE:101:ILE:CD1	5:AE:119:LEU:HA	2.26	0.57
9:AI:114:TYR:HE1	10:AJ:60:ARG:N	1.97	0.57
22:AW:7:G:H3'	22:AW:8:U:C5'	2.30	0.57
24:AY:65:ILE:HG12	24:AY:65:ILE:O	2.02	0.57
26:B1:5:CYS:O	26:B1:9:GLY:HA2	2.03	0.57
29:B4:25:TYR:O	29:B4:26:SER:HB3	2.03	0.57
33:B8:14:VAL:CG2	33:B8:22:VAL:HG13	2.34	0.57
35:BA:120:U:H5'	35:BA:121:G:OP1	2.03	0.57
35:BA:1717:G:C2'	35:BA:1718:G:H5''	2.34	0.57
37:BC:57:GLN:HE21	37:BC:205:ALA:HA	1.68	0.57
39:BE:111:ARG:HA	50:BR:2:ARG:CB	2.29	0.57
40:BF:9:ILE:HG23	40:BF:13:SER:O	2.03	0.57
44:BK:115:LEU:HD22	44:BK:126:MET:CE	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BL:113:UNK:HA	45:BL:117:UNK:O	2.03	0.57
51:BS:34:HIS:NE2	51:BS:54:LEU:HB3	2.19	0.57
52:BT:55:ASN:N	52:BT:59:THR:CG2	2.66	0.57
57:BY:17:SER:CB	57:BY:71:LYS:HD2	2.34	0.57
58:BZ:29:TYR:CB	58:BZ:34:ASN:HB2	2.33	0.57
1:CA:1375:A:H5'	1:CA:1376:U:OP2	2.04	0.57
2:CB:178:ARG:HB2	2:CB:178:ARG:HH11	1.68	0.57
3:CC:35:GLU:OE2	3:CC:59:ARG:NH1	2.37	0.57
3:CC:181:ASN:HD21	3:CC:204:LEU:HD12	1.68	0.57
4:CD:57:ARG:HH11	4:CD:57:ARG:HG2	1.69	0.57
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.34	0.57
5:CE:33:VAL:HG12	5:CE:34:VAL:N	2.17	0.57
6:CF:9:VAL:HB	6:CF:87:ARG:HB2	1.86	0.57
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.85	0.57
17:CQ:53:LEU:HD21	17:CQ:85:VAL:HG11	1.85	0.57
24:CY:25:LYS:NZ	24:CY:86:GLY:HA2	2.19	0.57
24:CY:156:ARG:HB2	24:CY:157:LEU:HD23	1.86	0.57
24:CY:458:HIS:O	24:CY:461:ILE:HG13	2.02	0.57
24:CY:614:GLU:HA	24:CY:617:MET:HB2	1.84	0.57
30:D5:43:HIS:CD2	35:DA:2815:C:O2'	2.56	0.57
34:D9:34:GLN:O	34:D9:35:ARG:HB2	2.04	0.57
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	2.03	0.57
35:DA:1473:G:H2'	35:DA:1474:C:O4'	2.04	0.57
35:DA:1558:A:H4'	35:DA:1559:G:O5'	2.04	0.57
35:DA:2556:C:H2'	35:DA:2557:G:O4'	2.04	0.57
38:DD:35:LYS:HB3	38:DD:35:LYS:HZ2	1.69	0.57
38:DD:77:ALA:CB	38:DD:97:TYR:HA	2.34	0.57
39:DE:44:TYR:O	39:DE:45:THR:HB	2.04	0.57
39:DE:47:VAL:CG1	39:DE:48:GLN:H	2.12	0.57
39:DE:101:ARG:NE	39:DE:171:GLU:HB2	2.19	0.57
48:DP:47:ASP:CB	48:DP:51:PHE:HB2	2.34	0.57
51:DS:54:LEU:HD13	51:DS:54:LEU:O	2.03	0.57
51:DS:70:GLY:C	51:DS:72:ALA:H	2.10	0.57
51:DS:98:VAL:C	51:DS:100:ALA:N	2.61	0.57
57:DY:12:THR:HG22	57:DY:75:ILE:HG21	1.86	0.57
57:DY:91:GLU:O	57:DY:92:ASN:HB2	2.04	0.57
58:DZ:67:LEU:HD12	58:DZ:67:LEU:N	2.18	0.57
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.33	0.57
1:AA:1270:C:H4'	1:AA:1313:U:O2'	2.03	0.57
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.69	0.57
2:AB:235:SER:O	2:AB:237:ALA:N	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.86	0.57
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.68	0.57
4:AD:162:LEU:CD1	4:AD:181:MET:HG2	2.34	0.57
13:AM:119:GLY:HA2	22:AV:29:G:OP1	2.03	0.57
21:AU:6:ARG:NH2	21:AU:15:ARG:NH2	2.52	0.57
24:AY:112:GLN:O	24:AY:115:GLU:HB3	2.05	0.57
24:AY:680:PRO:O	24:AY:682:GLN:N	2.33	0.57
26:B1:6:GLU:OE1	26:B1:61:ARG:N	2.36	0.57
32:B7:4:THR:HB	35:BA:788:A:O2'	2.03	0.57
35:BA:16:G:H2'	35:BA:17:G:H8	1.68	0.57
35:BA:1428:C:N4	35:BA:1569:A:H3'	2.19	0.57
35:BA:1942:C:H3'	35:BA:1943:U:H5''	1.86	0.57
35:BA:1943:U:H4'	35:BA:1944:U:OP1	2.03	0.57
35:BA:2317:C:H2'	35:BA:2318:G:C5'	2.33	0.57
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.38	0.57
41:BG:126:ASP:OD1	41:BG:130:ASN:HB2	2.04	0.57
42:BH:19:VAL:O	42:BH:20:ALA:HB2	2.04	0.57
42:BH:97:ARG:O	42:BH:98:LEU:C	2.48	0.57
44:BK:21:PRO:HA	44:BK:23:VAL:N	2.19	0.57
48:BP:114:ILE:O	48:BP:130:PHE:HA	2.03	0.57
54:BV:35:LEU:O	54:BV:37:VAL:N	2.36	0.57
58:BZ:109:ALA:C	58:BZ:111:VAL:N	2.57	0.57
1:CA:219:C:H2'	1:CA:220:G:O4'	2.03	0.57
2:CB:223:ILE:HG23	2:CB:226:ARG:NH1	2.19	0.57
3:CC:154:SER:O	3:CC:165:THR:HA	2.03	0.57
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.85	0.57
8:CH:104:ARG:HB3	8:CH:108:GLY:H	1.69	0.57
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.68	0.57
18:CR:58:LEU:HD12	18:CR:58:LEU:N	2.18	0.57
22:CW:25:U:O2'	22:CW:26:C:H5'	2.04	0.57
24:CY:25:LYS:HZ3	24:CY:86:GLY:HA2	1.68	0.57
31:D6:45:LYS:HG2	35:DA:2371:G:H5''	1.86	0.57
32:D7:35:ARG:HH11	32:D7:35:ARG:HG2	1.69	0.57
35:DA:1036:G:OP2	42:DH:59:ARG:NH1	2.37	0.57
35:DA:1835:G:H1'	35:DA:1931:U:O2	2.04	0.57
35:DA:2219:G:O2'	35:DA:2220:G:H5'	2.04	0.57
36:DB:103:G:N2	58:DZ:73:GLN:HE22	1.95	0.57
37:DC:4:HIS:ND1	37:DC:8:TYR:CE2	2.72	0.57
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.29	0.57
40:DF:6:VAL:H	40:DF:125:LEU:HD21	1.69	0.57
40:DF:148:LEU:HD23	40:DF:191:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:52:ILE:HG22	41:DG:54:GLU:H	1.69	0.57
42:DH:148:ILE:O	42:DH:151:ILE:HG12	2.05	0.57
46:DN:62:VAL:O	46:DN:62:VAL:HG13	2.03	0.57
47:DO:26:LYS:HB3	47:DO:30:ALA:CB	2.35	0.57
53:DU:70:ARG:HA	53:DU:74:LEU:O	2.04	0.57
53:DU:92:ARG:NH2	54:DV:11:GLN:H	2.01	0.57
57:DY:25:GLY:HA3	57:DY:39:VAL:CG1	2.34	0.57
58:DZ:171:ILE:HG13	58:DZ:172:ALA:N	2.19	0.57
1:AA:833:U:H2'	1:AA:834:C:C6	2.39	0.57
1:AA:1370:G:C2	1:AA:1371:G:C8	2.93	0.57
3:AC:134:ILE:HD11	3:AC:153:VAL:HG23	1.85	0.57
4:AD:162:LEU:HD11	4:AD:181:MET:CG	2.35	0.57
12:AL:53:ARG:NH1	12:AL:92:ASP:OD2	2.37	0.57
16:AP:48:TRP:CD1	16:AP:48:TRP:H	2.21	0.57
22:AW:3:C:H2'	22:AW:4:G:H5''	1.85	0.57
24:AY:496:LYS:HE2	24:AY:498:ILE:CD1	2.34	0.57
25:B0:36:ILE:O	25:B0:36:ILE:HG13	2.04	0.57
26:B1:76:ARG:NH2	26:B1:95:LEU:HD22	2.20	0.57
28:B3:5:LYS:HE3	28:B3:34:GLU:OE1	2.04	0.57
35:BA:207:A:H2'	35:BA:208:C:O4'	2.02	0.57
35:BA:328:U:H4'	57:BY:68:HIS:CD2	2.39	0.57
35:BA:810:U:OP1	35:BA:1253:A:N7	2.38	0.57
35:BA:1840:G:H1	35:BA:1902:C:H42	1.52	0.57
35:BA:2011:U:H2'	35:BA:2012:G:H5'	1.87	0.57
35:BA:2115:G:N3	35:BA:2117:A:N7	2.52	0.57
35:BA:2219:G:O2'	35:BA:2220:G:H5'	2.04	0.57
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.34	0.57
35:BA:2777:G:H5''	35:BA:2778:A:H5''	1.86	0.57
36:BB:49:C:H2'	36:BB:50:G:C8	2.39	0.57
37:BC:191:ARG:HH11	37:BC:191:ARG:HG3	1.68	0.57
40:BF:119:ARG:HH11	40:BF:119:ARG:HG2	1.69	0.57
46:BN:3:THR:C	46:BN:4:TYR:CG	2.81	0.57
48:BP:91:PHE:HZ	48:BP:100:LEU:HD11	1.69	0.57
51:BS:30:ARG:NH2	51:BS:62:LYS:HD2	2.19	0.57
53:BU:49:HIS:HA	53:BU:52:ARG:HB2	1.85	0.57
1:CA:165:C:O2'	1:CA:166:G:H5'	2.04	0.57
1:CA:662:G:H2'	1:CA:663:A:H8	1.67	0.57
1:CA:977:A:H2'	1:CA:978:A:H5'	1.86	0.57
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.04	0.57
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.70	0.57
2:CB:137:ARG:HD3	2:CB:137:ARG:C	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:131:ARG:NH2	3:CC:168:ALA:HB2	2.20	0.57
8:CH:20:TYR:CE1	8:CH:76:PRO:HG2	2.39	0.57
9:CI:8:GLY:CA	9:CI:79:LEU:HD12	2.34	0.57
15:CO:11:VAL:O	15:CO:12:ILE:C	2.48	0.57
16:CP:28:ARG:HG2	16:CP:28:ARG:HH11	1.70	0.57
17:CQ:44:ALA:HA	17:CQ:71:PHE:O	2.03	0.57
24:CY:99:ARG:HE	24:CY:128:TYR:CB	2.16	0.57
24:CY:355:LEU:HB3	24:CY:369:LEU:HD11	1.85	0.57
30:D5:3:LYS:HZ1	35:DA:2613:U:C2'	2.17	0.57
31:D6:54:ILE:CD1	35:DA:2420:C:H5'	2.34	0.57
32:D7:24:THR:C	32:D7:26:GLY:H	2.11	0.57
32:D7:33:ARG:NH1	35:DA:467:G:OP1	2.37	0.57
34:D9:17:ILE:HG22	34:D9:18:ARG:N	2.19	0.57
35:DA:321:G:C2	35:DA:341:G:H4'	2.39	0.57
35:DA:1247:A:OP1	40:DF:95:ARG:NH2	2.37	0.57
35:DA:2511:U:O3'	39:DE:123:ALA:HB3	2.05	0.57
36:DB:87:G:H1	36:DB:91:C:H42	1.52	0.57
36:DB:88:C:H2'	36:DB:89:G:C8	2.39	0.57
38:DD:145:VAL:HG12	38:DD:146:GLU:N	2.18	0.57
40:DF:18:ARG:HG2	40:DF:19:GLU:N	2.18	0.57
40:DF:187:VAL:HG12	48:DP:7:ARG:NH2	2.19	0.57
41:DG:41:GLN:C	41:DG:43:LEU:H	2.10	0.57
41:DG:181:ARG:HB2	41:DG:181:ARG:CZ	2.33	0.57
57:DY:28:LYS:O	57:DY:38:ILE:HG22	2.04	0.57
1:AA:1254:C:H2'	1:AA:1255:G:C8	2.40	0.57
1:AA:1490:C:H6	1:AA:1490:C:H5'	1.69	0.57
2:AB:96:ARG:HD2	2:AB:96:ARG:N	2.19	0.57
3:AC:14:ILE:O	3:AC:15:THR:HB	2.04	0.57
6:AF:36:ARG:HB3	6:AF:36:ARG:NH1	2.19	0.57
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.87	0.57
11:AK:79:SER:OG	11:AK:106:LYS:HD2	2.04	0.57
13:AM:74:VAL:O	13:AM:77:ASN:HB2	2.03	0.57
19:AS:21:GLU:HG3	19:AS:22:LEU:CD2	2.34	0.57
24:AY:630:GLN:HG2	24:AY:630:GLN:O	2.04	0.57
31:B6:15:GLU:CD	31:B6:44:ARG:CZ	2.77	0.57
31:B6:15:GLU:C	31:B6:16:CYS:O	2.45	0.57
31:B6:30:THR:HG22	31:B6:32:ASN:ND2	2.19	0.57
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.33	0.57
35:BA:27:G:O2'	35:BA:28:A:H8	1.86	0.57
35:BA:737:C:C2'	35:BA:738:G:H5'	2.35	0.57
35:BA:958:U:H5'	49:BQ:14:ARG:HH11	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1353:A:H2'	35:BA:1354:A:C8	2.39	0.57
35:BA:1473:G:H2'	35:BA:1474:C:O4'	2.04	0.57
35:BA:1677:A:H2'	35:BA:1678:G:C8	2.40	0.57
35:BA:1943:U:O2'	35:BA:1944:U:O5'	2.17	0.57
35:BA:1949:G:H2'	35:BA:1950:G:C8	2.39	0.57
35:BA:2097:C:H2'	35:BA:2098:U:C6	2.39	0.57
35:BA:2450:A:O2'	35:BA:2451:A:H5'	2.04	0.57
35:BA:2504:U:O5'	35:BA:2504:U:H6	1.87	0.57
37:BC:117:THR:HG22	37:BC:147:GLY:O	2.04	0.57
38:BD:65:ILE:HD13	38:BD:65:ILE:N	2.19	0.57
44:BK:8:VAL:HG12	44:BK:10:LEU:HG	1.86	0.57
45:BL:79:UNK:C	45:BL:81:UNK:N	2.64	0.57
46:BN:4:TYR:N	46:BN:4:TYR:CD1	2.72	0.57
46:BN:46:VAL:CG1	46:BN:47:ALA:H	2.13	0.57
49:BQ:27:VAL:H	49:BQ:137:TYR:HD2	1.53	0.57
52:BT:80:SER:CB	52:BT:81:PRO:CD	2.82	0.57
53:BU:70:ARG:HA	53:BU:74:LEU:O	2.04	0.57
1:CA:415:A:H2'	1:CA:416:G:C8	2.40	0.57
1:CA:973:G:C1'	10:CJ:55:LYS:CE	2.82	0.57
16:CP:50:LYS:O	16:CP:51:VAL:HG23	2.04	0.57
24:CY:635:GLU:OE2	24:CY:644:ARG:NH1	2.38	0.57
27:D2:38:GLN:HA	27:D2:41:ILE:CG2	2.34	0.57
49:DQ:2:LEU:HG	49:DQ:69:PHE:HE1	1.70	0.57
49:DQ:76:LYS:HB3	49:DQ:91:GLU:CG	2.34	0.57
50:DR:44:LEU:HD13	50:DR:44:LEU:O	2.04	0.57
51:DS:28:VAL:CG1	51:DS:29:PHE:H	2.12	0.57
58:DZ:127:LYS:HE2	58:DZ:162:GLU:OE2	2.05	0.57
1:AA:191:G:H1'	20:AT:105:SER:HA	1.86	0.57
1:AA:370:C:O2'	1:AA:371:G:H5'	2.04	0.57
13:AM:68:GLY:H	13:AM:71:ARG:CB	2.15	0.57
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.04	0.57
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.86	0.57
24:AY:137:ASN:HD21	24:AY:263:ALA:CB	2.18	0.57
24:AY:409:ILE:HD11	24:AY:654:GLY:CA	2.27	0.57
26:B1:86:SER:HB2	26:B1:90:ILE:CD1	2.35	0.57
29:B4:22:ILE:HG22	29:B4:23:GLU:N	2.19	0.57
35:BA:1036:G:OP2	42:BH:59:ARG:NH1	2.38	0.57
35:BA:1322:A:OP1	55:BW:11:ARG:HG3	2.04	0.57
35:BA:2647:U:H2'	35:BA:2648:C:C6	2.39	0.57
39:BE:133:LYS:C	39:BE:134:ILE:HG13	2.29	0.57
40:BF:8:GLN:NE2	40:BF:9:ILE:HB	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:24:GLY:H	44:BK:25:PRO:HD2	1.68	0.57
48:BP:112:LEU:O	48:BP:128:HIS:HB2	2.04	0.57
49:BQ:55:VAL:HG13	49:BQ:56:ARG:N	2.18	0.57
51:BS:103:GLU:O	51:BS:104:GLY:C	2.47	0.57
52:BT:29:ARG:CG	52:BT:85:LYS:HA	2.33	0.57
55:BW:36:LEU:HD11	55:BW:47:VAL:HG12	1.86	0.57
1:CA:957:U:H2'	1:CA:959:A:OP2	2.04	0.57
1:CA:1237:C:OP1	1:CA:1238:A:H1'	2.05	0.57
2:CB:11:LEU:HD11	2:CB:217:ARG:NH2	2.19	0.57
4:CD:13:ARG:HA	4:CD:33:MET:HE3	1.86	0.57
5:CE:15:ARG:HG3	5:CE:28:PHE:CE2	2.39	0.57
11:CK:79:SER:OG	11:CK:106:LYS:HD2	2.04	0.57
15:CO:76:GLU:C	15:CO:78:TYR:N	2.61	0.57
17:CQ:48:GLU:O	17:CQ:50:LYS:N	2.37	0.57
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.17	0.57
24:CY:112:GLN:HG3	24:CY:115:GLU:HB3	1.85	0.57
24:CY:589:ALA:O	24:CY:593:ALA:HB2	2.03	0.57
31:D6:18:ARG:HG3	31:D6:19:ARG:H	1.69	0.57
32:D7:24:THR:HG23	32:D7:27:GLY:HA3	1.87	0.57
35:DA:803:U:H2'	35:DA:804:A:H5'	1.86	0.57
35:DA:1248:G:C2	53:DU:3:ARG:HD2	2.38	0.57
35:DA:1274:A:N3	35:DA:1297:C:H1'	2.19	0.57
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.40	0.57
35:DA:1386:C:H2'	35:DA:1387:C:C6	2.40	0.57
35:DA:2453:A:H2'	35:DA:2454:G:H8	1.69	0.57
35:DA:2504:U:O5'	35:DA:2504:U:H6	1.88	0.57
39:DE:34:VAL:O	39:DE:35:GLN:CB	2.53	0.57
40:DF:2:LYS:HG3	40:DF:25:PRO:HG2	1.86	0.57
40:DF:75:HIS:HE1	40:DF:82:ILE:HD11	1.69	0.57
41:DG:61:ALA:HA	41:DG:64:THR:CG2	2.35	0.57
48:DP:66:GLY:O	48:DP:67:MET:HB3	2.04	0.57
48:DP:107:LYS:C	48:DP:109:GLY:H	2.12	0.57
48:DP:124:LYS:CD	48:DP:143:GLY:HA3	2.35	0.57
3:AC:119:ARG:O	3:AC:123:GLN:HG3	2.03	0.57
6:AF:42:GLU:C	6:AF:44:GLY:H	2.12	0.57
20:AT:26:ASN:O	20:AT:30:LYS:HB2	2.04	0.57
22:AV:71:C:O2	22:AV:71:C:C2'	2.53	0.57
23:AX:19:U:H2'	23:AX:20:U:C6	2.40	0.57
24:AY:13:ARG:HB2	24:AY:79:ILE:HG12	1.87	0.57
28:B3:11:SER:HB3	35:BA:988:A:P	2.45	0.57
31:B6:27:LYS:HB3	31:B6:30:THR:HG22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:145:G:H2'	35:BA:146:G:C8	2.39	0.57
35:BA:271(I):G:H3'	35:BA:271(J):C:H6	1.68	0.57
35:BA:1301:A:O2'	35:BA:1302:A:C2'	2.46	0.57
35:BA:1301:A:H4'	35:BA:1302:A:OP1	2.04	0.57
38:BD:80:ALA:HB3	38:BD:94:LEU:HB3	1.87	0.57
39:BE:1:MET:N	39:BE:1:MET:HE2	2.19	0.57
40:BF:125:LEU:HD23	40:BF:125:LEU:N	2.18	0.57
41:BG:133:LEU:HD12	41:BG:157:ILE:HB	1.87	0.57
44:BK:112:MET:N	44:BK:113:PRO:HD2	2.20	0.57
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.18	0.57
49:BQ:27:VAL:O	49:BQ:28:ALA:HB3	2.04	0.57
50:BR:83:ILE:O	50:BR:87:TYR:HE2	1.87	0.57
51:BS:54:LEU:HD13	51:BS:54:LEU:O	2.04	0.57
51:BS:59:LYS:CD	51:BS:61:ASN:HB2	2.34	0.57
51:BS:98:VAL:CG1	51:BS:100:ALA:HB2	2.35	0.57
54:BV:18:LEU:CD1	54:BV:19:LYS:H	2.17	0.57
57:BY:2:ARG:CD	57:BY:3:VAL:HG23	2.34	0.57
57:BY:8:LYS:HD2	57:BY:8:LYS:H	1.68	0.57
1:CA:260:G:H2'	1:CA:261:U:H6	1.70	0.57
1:CA:1325:C:H2'	1:CA:1326:C:C6	2.40	0.57
4:CD:114:ARG:HG3	4:CD:114:ARG:NH1	2.17	0.57
9:CI:41:VAL:O	9:CI:41:VAL:HG12	2.05	0.57
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.04	0.57
24:CY:625:ASN:C	24:CY:627:ARG:H	2.12	0.57
26:D1:93:GLU:O	26:D1:95:LEU:N	2.36	0.57
33:D8:62:LEU:CD1	35:DA:242:G:H5''	2.32	0.57
35:DA:35:G:O2'	35:DA:36:G:H5'	2.04	0.57
35:DA:139(A):G:N2	56:DX:44:GLU:OE1	2.38	0.57
35:DA:962:G:H2'	35:DA:963:U:O4'	2.05	0.57
35:DA:2111:C:C2	35:DA:2147:G:N2	2.73	0.57
35:DA:2230:G:H2'	35:DA:2231:C:H6	1.70	0.57
39:DE:111:ARG:HA	50:DR:2:ARG:CB	2.31	0.57
40:DF:18:ARG:C	40:DF:19:GLU:HG2	2.29	0.57
49:DQ:62:GLY:O	58:DZ:178:GLU:HB2	2.03	0.57
52:DT:55:ASN:N	52:DT:59:THR:CG2	2.63	0.57
57:DY:2:ARG:CD	57:DY:3:VAL:HG23	2.35	0.57
58:DZ:127:LYS:HB3	58:DZ:127:LYS:HZ3	1.68	0.57
1:AA:474:G:H2'	1:AA:475:G:C8	2.40	0.57
11:AK:21:ILE:HD12	11:AK:21:ILE:N	2.20	0.57
12:AL:78:GLN:O	12:AL:79:GLU:C	2.47	0.57
24:AY:171:GLU:HG3	24:AY:172:ASP:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:604:PRO:HB2	24:AY:649:LEU:HD12	1.87	0.57
26:B1:80:LEU:HD23	26:B1:81:LYS:N	2.13	0.57
29:B4:1:MET:HG3	41:BG:66:GLN:HG3	1.87	0.57
31:B6:15:GLU:CB	31:B6:47:THR:HG21	2.34	0.57
31:B6:45:LYS:HG2	35:BA:2371:G:H5''	1.86	0.57
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.35	0.57
35:BA:877:U:O2'	35:BA:878:A:H5''	2.05	0.57
35:BA:881:G:H2'	35:BA:882:G:H5'	1.86	0.57
35:BA:1614:A:H2'	35:BA:1615:C:H5'	1.86	0.57
35:BA:2307:G:C2	35:BA:2308:G:H5''	2.38	0.57
38:BD:146:GLU:HB2	38:BD:189:CYS:HB3	1.87	0.57
40:BF:18:ARG:C	40:BF:19:GLU:HG2	2.28	0.57
40:BF:185:ASP:HA	40:BF:188:ARG:HG2	1.85	0.57
42:BH:89:ILE:O	42:BH:89:ILE:HG13	2.05	0.57
46:BN:87:LEU:O	46:BN:88:GLU:C	2.47	0.57
48:BP:91:PHE:CE2	48:BP:95:VAL:HG12	2.40	0.57
50:BR:72:ASP:CG	50:BR:75:LEU:H	2.12	0.57
52:BT:51:ARG:O	52:BT:61:PHE:HA	2.03	0.57
57:BY:73:ARG:O	57:BY:74:PRO:O	2.23	0.57
58:BZ:141:VAL:O	58:BZ:142:SER:HB3	2.03	0.57
58:BZ:154:ASP:N	58:BZ:154:ASP:OD2	2.35	0.57
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.14	0.57
4:CD:8:VAL:HB	4:CD:21:LEU:CD1	2.34	0.57
4:CD:203:VAL:O	4:CD:206:PHE:HB3	2.05	0.57
5:CE:139:LEU:C	5:CE:141:GLN:H	2.13	0.57
13:CM:81:LEU:N	13:CM:81:LEU:HD22	2.20	0.57
24:CY:146:LEU:HD11	24:CY:260:LEU:HD11	1.87	0.57
26:D1:23:LYS:CE	26:D1:28:GLY:HA3	2.26	0.57
29:D4:22:ILE:HG22	29:D4:23:GLU:N	2.20	0.57
33:D8:7:HIS:HB3	33:D8:10:ALA:HB3	1.87	0.57
35:DA:259:G:H21	35:DA:621:A:H8	1.51	0.57
35:DA:328:U:H4'	57:DY:68:HIS:CD2	2.39	0.57
35:DA:363(B):G:H2'	35:DA:363(C):G:C8	2.38	0.57
35:DA:610:G:N2	35:DA:619:G:H1'	2.20	0.57
35:DA:621:A:H2'	35:DA:622:G:C5'	2.33	0.57
35:DA:1169:G:H1	35:DA:1180:C:H42	1.50	0.57
35:DA:2317:C:H2'	35:DA:2318:G:C5'	2.31	0.57
39:DE:69:LYS:HE2	39:DE:69:LYS:N	2.19	0.57
44:DK:3:LYS:HB3	44:DK:29:GLN:HB3	1.85	0.57
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.19	0.57
49:DQ:27:VAL:H	49:DQ:137:TYR:HD2	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:4:LEU:C	50:DR:6:SER:H	2.12	0.57
52:DT:53:ARG:HH11	52:DT:53:ARG:CB	2.17	0.57
57:DY:96:ILE:CG2	57:DY:99:CYS:HB3	2.34	0.57
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.35	0.57
1:AA:954:G:H2'	1:AA:955:U:C6	2.40	0.57
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.40	0.57
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.05	0.57
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.19	0.57
3:AC:138:VAL:O	3:AC:139:GLN:C	2.48	0.57
5:AE:36:ASP:OD1	5:AE:38:GLN:N	2.26	0.57
24:AY:210:ARG:O	24:AY:213:HIS:N	2.34	0.57
24:AY:438:PHE:C	24:AY:438:PHE:HD2	2.13	0.57
24:AY:463:VAL:O	24:AY:467:LYS:HB3	2.05	0.57
27:B2:14:ARG:HG3	27:B2:14:ARG:HH11	1.69	0.57
30:B5:44:THR:O	30:B5:51:TYR:HE1	1.87	0.57
34:B9:34:GLN:O	34:B9:35:ARG:HB2	2.03	0.57
35:BA:200:U:H2'	35:BA:201:C:H5'	1.86	0.57
35:BA:608:A:H2'	35:BA:609:A:C8	2.39	0.57
35:BA:610:G:N2	35:BA:619:G:H1'	2.19	0.57
35:BA:764:A:N3	38:BD:213:ARG:NH1	2.53	0.57
35:BA:1198:U:H2'	35:BA:1198:U:O2	2.03	0.57
35:BA:1669:A:H2'	35:BA:1670:C:H5'	1.86	0.57
36:BB:7:G:C3'	36:BB:8:U:H5'	2.34	0.57
37:BC:185:LYS:HA	37:BC:185:LYS:HE3	1.87	0.57
42:BH:45:VAL:HA	42:BH:50:VAL:HG22	1.87	0.57
42:BH:46:GLU:CD	42:BH:51:ARG:HB2	2.29	0.57
46:BN:62:VAL:HG13	46:BN:62:VAL:O	2.05	0.57
48:BP:23:PRO:CB	48:BP:33:ARG:HG3	2.33	0.57
49:BQ:44:ALA:N	49:BQ:45:GLN:HE21	2.02	0.57
56:BX:12:VAL:O	56:BX:13:LEU:HB2	2.05	0.57
58:BZ:23:LYS:CD	58:BZ:38:TYR:HE1	2.12	0.57
1:CA:22:G:O2'	1:CA:913:A:N1	2.29	0.57
1:CA:291:C:O2'	1:CA:292:G:H5'	2.04	0.57
1:CA:624:C:H2'	1:CA:625:G:H8	1.69	0.57
1:CA:1324:A:H2'	1:CA:1325:C:H6	1.68	0.57
2:CB:51:LEU:HD21	2:CB:201:ILE:HG23	1.87	0.57
2:CB:126:GLU:HA	2:CB:129:GLU:CD	2.29	0.57
4:CD:162:LEU:HD11	4:CD:181:MET:CG	2.34	0.57
8:CH:7:ALA:HB2	8:CH:85:ARG:HD3	1.86	0.57
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.53	0.57
17:CQ:7:THR:O	17:CQ:23:VAL:HG13	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:487:ILE:HD13	24:CY:487:ILE:H	1.68	0.57
35:DA:207:A:H2'	35:DA:208:C:O4'	2.03	0.57
35:DA:226:G:O2'	35:DA:227:A:C8	2.45	0.57
35:DA:285:C:H2'	35:DA:286:C:H5'	1.86	0.57
35:DA:1774:C:O2	38:DD:11:PRO:HB2	2.04	0.57
37:DC:92:ALA:HB2	37:DC:154:ILE:HD13	1.85	0.57
37:DC:215:VAL:HG23	37:DC:225:ILE:HG12	1.86	0.57
40:DF:167:ALA:CB	40:DF:173:VAL:HG11	2.23	0.57
42:DH:83:TYR:O	42:DH:84:SER:HB3	2.05	0.57
42:DH:92:ILE:C	42:DH:94:TYR:H	2.13	0.57
46:DN:4:TYR:N	46:DN:4:TYR:CD1	2.72	0.57
49:DQ:27:VAL:HG21	49:DQ:134:ARG:HG2	1.87	0.57
49:DQ:27:VAL:O	49:DQ:28:ALA:HB3	2.04	0.57
49:DQ:53:ALA:HA	49:DQ:56:ARG:HB2	1.86	0.57
49:DQ:63:LYS:HZ3	58:DZ:175:VAL:HG21	1.69	0.57
50:DR:21:TYR:HB3	50:DR:47:PHE:CE2	2.39	0.57
51:DS:20:ARG:HA	51:DS:20:ARG:NE	2.19	0.57
51:DS:103:GLU:O	51:DS:104:GLY:C	2.47	0.57
52:DT:42:ILE:HD13	52:DT:83:ILE:HD13	1.87	0.57
53:DU:84:LYS:C	53:DU:86:ALA:H	2.12	0.57
54:DV:51:VAL:HG12	54:DV:52:VAL:N	2.14	0.57
1:AA:67:C:H2'	1:AA:68:G:C8	2.40	0.57
1:AA:689:C:P	11:AK:46:GLY:HA3	2.45	0.57
6:AF:9:VAL:HB	6:AF:87:ARG:HB2	1.85	0.57
15:AO:11:VAL:O	15:AO:12:ILE:C	2.48	0.57
19:AS:6:LYS:H	19:AS:6:LYS:HE3	1.69	0.57
19:AS:9:VAL:HG23	29:B4:53:GLU:OE2	2.04	0.57
19:AS:53:ASN:O	19:AS:55:LYS:N	2.38	0.57
22:AW:28:U:H2'	22:AW:29:C:H6	1.69	0.57
24:AY:273:LEU:HA	24:AY:276:VAL:HG23	1.85	0.57
24:AY:343:ASN:ND2	24:AY:345:THR:N	2.52	0.57
29:B4:37:SER:O	29:B4:38:LYS:HB2	2.05	0.57
35:BA:226:G:O2'	35:BA:227:A:C8	2.47	0.57
35:BA:947:G:H2'	35:BA:948:G:C8	2.40	0.57
35:BA:1516:C:O2'	35:BA:1517:G:H5''	2.04	0.57
35:BA:2008:C:H2'	35:BA:2009:G:C8	2.39	0.57
35:BA:2850:A:H5'	35:BA:2868:A:H2	1.70	0.57
38:BD:35:LYS:HB3	38:BD:35:LYS:HZ2	1.69	0.57
39:BE:69:LYS:HE2	39:BE:69:LYS:N	2.20	0.57
41:BG:101:ILE:O	41:BG:104:GLU:HB3	2.05	0.57
41:BG:113:ARG:O	41:BG:140:ILE:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:7:LYS:O	46:BN:9:VAL:N	2.37	0.57
48:BP:124:LYS:CD	48:BP:143:GLY:HA3	2.35	0.57
49:BQ:12:GLN:NE2	49:BQ:73:PRO:HD2	2.20	0.57
50:BR:7:GLY:C	50:BR:8:ARG:NE	2.63	0.57
52:BT:132:LYS:HG2	52:BT:133:GLU:N	2.20	0.57
54:BV:2:PHE:CE1	54:BV:13:ARG:NH1	2.73	0.57
57:BY:12:THR:HG22	57:BY:75:ILE:HG21	1.87	0.57
57:BY:76:CYS:HB3	57:BY:96:ILE:CD1	2.24	0.57
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.30	0.57
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.86	0.57
8:CH:9:MET:O	8:CH:13:ILE:HG12	2.04	0.57
13:CM:33:ALA:HA	13:CM:59:TYR:HE2	1.70	0.57
18:CR:74:ARG:HD3	18:CR:81:PHE:HD2	1.70	0.57
24:CY:616:TYR:HB2	24:CY:663:THR:HG22	1.87	0.57
24:CY:630:GLN:NE2	24:CY:646:PHE:CD2	2.72	0.57
24:CY:680:PRO:O	24:CY:682:GLN:N	2.36	0.57
24:CY:687:LEU:C	24:CY:688:ILE:HD12	2.29	0.57
26:D1:4:VAL:HG23	26:D1:10:LYS:O	2.04	0.57
27:D2:59:ARG:O	27:D2:62:THR:N	2.38	0.57
27:D2:69:ARG:NH2	35:DA:111:A:H5'	2.12	0.57
31:D6:37:ARG:O	31:D6:48:VAL:O	2.23	0.57
33:D8:32:LEU:HB3	33:D8:36:LYS:NZ	2.20	0.57
35:DA:6:A:H2'	35:DA:6:A:N3	2.18	0.57
35:DA:455:C:N3	35:DA:472:A:H2'	2.20	0.57
35:DA:621:A:C2'	35:DA:622:G:H5'	2.35	0.57
35:DA:674:G:C1'	40:DF:74:ARG:HD3	2.33	0.57
35:DA:1258:C:O4'	40:DF:84:VAL:HG21	2.05	0.57
35:DA:2850:A:H5'	35:DA:2868:A:H2	1.69	0.57
37:DC:139:PRO:HA	37:DC:145:THR:CG2	2.35	0.57
38:DD:72:LYS:HB3	38:DD:75:ILE:HB	1.86	0.57
43:DJ:10:UNK:O	43:DJ:11:UNK:CB	2.53	0.57
47:DO:60:ALA:HA	47:DO:87:ILE:HD13	1.86	0.57
47:DO:60:ALA:C	47:DO:87:ILE:HD11	2.29	0.57
49:DQ:44:ALA:N	49:DQ:45:GLN:HE21	2.02	0.57
58:DZ:110:GLY:O	58:DZ:114:GLY:O	2.22	0.57
1:AA:630:G:C2'	1:AA:631:G:C5'	2.82	0.57
1:AA:687:A:H62	1:AA:703:G:H1'	1.69	0.57
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.04	0.57
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.30	0.57
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.35	0.57
13:AM:63:THR:HG22	13:AM:64:TRP:H	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:64:GLU:O	29:B4:48:ARG:NH2	2.37	0.57
20:AT:47:GLY:O	20:AT:49:ALA:N	2.32	0.57
24:AY:99:ARG:NE	24:AY:128:TYR:HB2	2.20	0.57
24:AY:141:LYS:O	24:AY:144:ALA:HB2	2.05	0.57
24:AY:379:GLY:O	24:AY:380:LEU:HB2	2.04	0.57
24:AY:395:PRO:O	24:AY:397:VAL:HG13	2.05	0.57
26:B1:68:PRO:C	26:B1:70:VAL:H	2.13	0.57
30:B5:3:LYS:NZ	35:BA:2613:U:H2'	2.20	0.57
35:BA:622:G:O2'	35:BA:623:G:H5'	2.05	0.57
35:BA:889:C:H2'	35:BA:890:A:O4'	2.04	0.57
35:BA:1248:G:C2	53:BU:3:ARG:HD2	2.40	0.57
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.40	0.57
38:BD:26:LYS:O	38:BD:27:THR:HG22	2.05	0.57
38:BD:76:PRO:O	38:BD:98:VAL:HG23	2.03	0.57
39:BE:34:VAL:O	39:BE:35:GLN:CB	2.52	0.57
44:BK:61:ALA:C	44:BK:63:ARG:H	2.13	0.57
48:BP:12:ALA:HB1	48:BP:16:ARG:HB3	1.87	0.57
49:BQ:76:LYS:HB3	49:BQ:91:GLU:CG	2.35	0.57
53:BU:65:ILE:HG12	53:BU:96:ALA:HB1	1.87	0.57
57:BY:74:PRO:HG3	57:BY:83:THR:HG22	1.85	0.57
58:BZ:107:THR:HG23	58:BZ:111:VAL:CB	2.35	0.57
1:CA:812:C:O2'	1:CA:813:U:OP2	2.23	0.57
1:CA:1416:G:H2'	1:CA:1417:G:O4'	2.05	0.57
5:CE:79:GLU:HB3	5:CE:93:PRO:HD2	1.87	0.57
6:CF:67:MET:SD	6:CF:75:LEU:HD22	2.44	0.57
7:CG:38:LEU:O	7:CG:41:ARG:HB2	2.05	0.57
7:CG:113:GLU:HG2	7:CG:119:ARG:HG2	1.87	0.57
8:CH:104:ARG:O	8:CH:106:GLY:N	2.38	0.57
24:CY:330:VAL:HG12	24:CY:331:TYR:H	1.70	0.57
25:D0:45:PHE:O	25:D0:59:LEU:HD11	2.05	0.57
35:DA:203:C:C3'	35:DA:204:A:H5''	2.30	0.57
35:DA:1141:U:H5''	46:DN:63:THR:HG23	1.85	0.57
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.68	0.57
35:DA:2769:C:O2'	35:DA:2770:G:H5'	2.05	0.57
37:DC:185:LYS:HA	37:DC:185:LYS:HE3	1.86	0.57
38:DD:209:ALA:C	38:DD:210:GLY:O	2.46	0.57
44:DK:21:PRO:HA	44:DK:23:VAL:N	2.19	0.57
44:DK:61:ALA:C	44:DK:63:ARG:H	2.12	0.57
44:DK:115:LEU:HD22	44:DK:126:MET:CE	2.35	0.57
55:DW:36:LEU:HD11	55:DW:47:VAL:HG12	1.87	0.57
57:DY:39:VAL:HG12	57:DY:40:GLU:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:10:ARG:NH2	58:DZ:26:GLY:O	2.38	0.57
58:DZ:127:LYS:CB	58:DZ:127:LYS:NZ	2.68	0.57
1:AA:449:C:O2	16:AP:42:ARG:HD2	2.05	0.56
1:AA:1057:G:N2	1:AA:1204:A:H1'	2.20	0.56
1:AA:1108:G:H5'	3:AC:176:HIS:CD2	2.40	0.56
4:AD:17:VAL:HG12	4:AD:17:VAL:O	2.05	0.56
4:AD:196:LEU:C	4:AD:198:VAL:H	2.12	0.56
10:AJ:33:GLN:N	10:AJ:75:ILE:HD11	2.20	0.56
12:AL:47:LYS:HZ3	12:AL:48:PRO:HD3	1.70	0.56
18:AR:44:LEU:CD2	18:AR:79:LEU:HD22	2.35	0.56
24:AY:495:GLY:O	24:AY:509:HIS:HA	2.05	0.56
27:B2:25:VAL:O	27:B2:27:GLU:N	2.37	0.56
35:BA:910:A:H62	49:BQ:12:GLN:HA	1.68	0.56
35:BA:945:A:O2'	35:BA:946:G:H4'	2.05	0.56
35:BA:1093:G:H21	35:BA:1098:A:H62	1.53	0.56
35:BA:1109:C:H5'	35:BA:1110:G:OP2	2.04	0.56
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.39	0.56
35:BA:1847:A:H3'	35:BA:1848:A:C5'	2.35	0.56
35:BA:2305:A:H5''	41:BG:134:GLY:HA3	1.87	0.56
35:BA:2556:C:H2'	35:BA:2557:G:O4'	2.05	0.56
35:BA:2754:U:H2'	35:BA:2755:C:H5'	1.87	0.56
38:BD:23:GLU:HA	38:BD:23:GLU:OE1	2.04	0.56
38:BD:71:ASP:HB2	38:BD:103:ARG:NH2	2.05	0.56
39:BE:47:VAL:CG1	39:BE:48:GLN:H	2.13	0.56
43:BJ:56:UNK:CB	43:BJ:83:UNK:HA	2.34	0.56
44:BK:77:LEU:H	44:BK:77:LEU:CD2	2.09	0.56
47:BO:97:ARG:HG3	47:BO:97:ARG:HH11	1.70	0.56
48:BP:115:LEU:HD23	48:BP:115:LEU:H	1.70	0.56
48:BP:146:VAL:O	48:BP:148:LEU:HD12	2.05	0.56
55:BW:25:ARG:NH2	55:BW:74:ALA:O	2.38	0.56
57:BY:88:LYS:HD2	57:BY:88:LYS:N	2.19	0.56
1:CA:833:U:H2'	1:CA:834:C:C6	2.40	0.56
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.29	0.56
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.68	0.56
13:CM:121:LYS:HD3	13:CM:121:LYS:N	2.20	0.56
25:D0:51:VAL:CG2	25:D0:81:VAL:HG23	2.34	0.56
28:D3:4:LEU:O	28:D3:36:VAL:HA	2.04	0.56
29:D4:37:SER:O	29:D4:38:LYS:HB2	2.04	0.56
31:D6:41:PRO:O	31:D6:42:TRP:C	2.48	0.56
33:D8:25:MET:O	33:D8:47:LYS:HG2	2.05	0.56
35:DA:120:U:H5'	35:DA:121:G:OP1	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:784:A:H5''	38:DD:227:ASN:HD21	1.70	0.56
35:DA:1043:C:C3'	35:DA:1044:G:H5''	2.34	0.56
35:DA:1301:A:H4'	35:DA:1302:A:OP1	2.04	0.56
35:DA:1485:G:C1'	35:DA:1505:C:H42	2.17	0.56
35:DA:1718:G:H5'	35:DA:1718:G:C8	2.40	0.56
35:DA:2415:G:H4'	48:DP:66:GLY:C	2.29	0.56
35:DA:2657:A:O2'	42:DH:160:LYS:HE3	2.05	0.56
37:DC:118:PRO:HB2	37:DC:148:PHE:CZ	2.41	0.56
38:DD:79:VAL:O	38:DD:113:VAL:HG13	2.04	0.56
38:DD:210:GLY:O	38:DD:212:SER:N	2.36	0.56
42:DH:89:ILE:O	42:DH:89:ILE:HG13	2.05	0.56
46:DN:10:GLU:CD	46:DN:11:PRO:HD2	2.30	0.56
58:DZ:98:MET:HE2	58:DZ:99:TYR:O	2.04	0.56
1:AA:950:U:H2'	1:AA:951:G:H8	1.70	0.56
7:AG:153:HIS:CE1	11:AK:58:PRO:HD2	2.41	0.56
8:AH:41:ARG:NH2	8:AH:123:GLU:CD	2.63	0.56
17:AQ:7:THR:O	17:AQ:23:VAL:HG13	2.04	0.56
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.05	0.56
20:AT:24:LEU:O	20:AT:24:LEU:HD13	2.05	0.56
24:AY:92:ILE:HG23	24:AY:93:GLU:N	2.20	0.56
24:AY:435:ASP:OD1	61:AY:702:FUA:H22	2.05	0.56
24:AY:534:ILE:HG13	24:AY:570:GLY:O	2.05	0.56
25:B0:10:THR:HG21	35:BA:2277:G:OP2	2.05	0.56
35:BA:537:C:H2'	35:BA:538:G:H8	1.69	0.56
35:BA:621:A:C2'	35:BA:622:G:H5'	2.34	0.56
35:BA:884:C:H41	35:BA:886:C:H42	1.51	0.56
35:BA:1068:G:N2	35:BA:1096:A:H5'	2.19	0.56
35:BA:1114:G:H2'	35:BA:1115:G:H5'	1.86	0.56
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.40	0.56
35:BA:1398:C:H2'	35:BA:1399:C:H6	1.70	0.56
35:BA:2021:C:H4'	35:BA:2022:U:OP2	2.05	0.56
35:BA:2305:A:C4	41:BG:154:GLY:HA3	2.40	0.56
35:BA:2428:G:H4'	35:BA:2429:G:O5'	2.06	0.56
40:BF:167:ALA:CB	40:BF:173:VAL:HG11	2.25	0.56
44:BK:106:GLU:CA	44:BK:109:LYS:HD3	2.30	0.56
48:BP:127:ALA:O	48:BP:148:LEU:HD11	2.05	0.56
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.21	0.56
1:CA:1057:G:N2	1:CA:1204:A:H1'	2.20	0.56
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.40	0.56
5:CE:36:ASP:OD2	5:CE:40:ARG:HB2	2.05	0.56
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:37:PHE:HE1	14:CN:53:LEU:HD22	1.70	0.56
18:CR:25:THR:HG22	18:CR:25:THR:O	2.05	0.56
18:CR:56:THR:O	18:CR:58:LEU:HD12	2.04	0.56
23:CX:11:U:O2	23:CX:11:U:H2'	2.03	0.56
24:CY:147:TRP:O	24:CY:151:ARG:HG3	2.06	0.56
24:CY:247:ARG:HD2	24:CY:278:ASP:O	2.05	0.56
25:D0:49:LYS:O	25:D0:51:VAL:HG23	2.04	0.56
26:D1:6:GLU:O	26:D1:7:ILE:HD12	2.05	0.56
32:D7:28:ARG:HG3	32:D7:28:ARG:HH11	1.68	0.56
34:D9:27:CYS:SG	34:D9:29:ASN:ND2	2.78	0.56
34:D9:31:LYS:HD3	35:DA:2478:A:OP1	2.05	0.56
35:DA:624:C:H41	48:DP:107:LYS:HZ3	1.52	0.56
35:DA:710:G:H1	35:DA:721:C:H42	1.51	0.56
35:DA:1416:G:HO2'	35:DA:1417:C:H5	1.53	0.56
35:DA:2649:U:O2'	35:DA:2650:U:H5'	2.04	0.56
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.71	0.56
42:DH:16:SER:HB2	42:DH:27:LYS:CB	2.34	0.56
42:DH:45:VAL:HA	42:DH:50:VAL:HG22	1.87	0.56
46:DN:96:GLU:N	46:DN:96:GLU:CD	2.61	0.56
50:DR:4:LEU:C	50:DR:6:SER:N	2.63	0.56
1:AA:624:C:H2'	1:AA:625:G:H8	1.69	0.56
1:AA:675:A:O2'	1:AA:676:A:H5'	2.05	0.56
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.21	0.56
1:AA:1423:G:H5'	47:BO:49:ARG:HH22	1.69	0.56
6:AF:67:MET:SD	6:AF:75:LEU:HD22	2.46	0.56
7:AG:38:LEU:O	7:AG:41:ARG:HB2	2.06	0.56
7:AG:43:PHE:O	7:AG:46:ALA:HB3	2.05	0.56
10:AJ:30:SER:HA	10:AJ:80:LYS:HE2	1.86	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.19	0.56
18:AR:69:THR:O	18:AR:72:ARG:N	2.39	0.56
19:AS:5:LEU:HG	19:AS:10:PHE:CD1	2.40	0.56
19:AS:46:GLY:O	19:AS:48:THR:N	2.39	0.56
24:AY:373:ASP:C	24:AY:374:LEU:HD12	2.29	0.56
24:AY:496:LYS:HE2	24:AY:498:ILE:HD13	1.87	0.56
24:AY:609:GLU:HA	24:AY:643:ILE:O	2.05	0.56
24:AY:614:GLU:HA	24:AY:617:MET:HB2	1.87	0.56
24:AY:652:MET:HG3	24:AY:652:MET:O	2.04	0.56
24:AY:655:TYR:HD2	24:AY:669:PHE:CE2	2.24	0.56
29:B4:12:ALA:HB1	29:B4:29:PRO:HA	1.86	0.56
31:B6:48:VAL:O	31:B6:49:HIS:HB2	2.05	0.56
31:B6:54:ILE:O	31:B6:54:ILE:CD1	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:58:G:H1	35:BA:69:C:H42	1.51	0.56
35:BA:206:U:H2'	35:BA:206:U:O2	2.04	0.56
35:BA:292:C:O2'	35:BA:293:U:H5'	2.05	0.56
35:BA:492:A:H2'	35:BA:493:G:H5'	1.88	0.56
35:BA:551:G:H2'	35:BA:552:G:H5'	1.87	0.56
35:BA:654(L):G:H2'	35:BA:654(M):C:H4'	1.88	0.56
35:BA:676:A:H2	35:BA:802:A:H61	1.51	0.56
35:BA:680:G:H2'	35:BA:681:G:C8	2.40	0.56
35:BA:850:C:O2'	35:BA:851:U:H5'	2.05	0.56
35:BA:1035:U:H2'	35:BA:1036:G:H8	1.68	0.56
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.05	0.56
35:BA:2171:A:H1'	35:BA:2172:U:C5	2.40	0.56
35:BA:2174:C:H1'	37:BC:219:MET:HE1	1.85	0.56
35:BA:2272:U:H5''	35:BA:2273:A:OP1	2.04	0.56
35:BA:2287:A:N6	35:BA:2344:U:N3	2.48	0.56
35:BA:2334:G:C4	51:BS:15:ARG:HD3	2.41	0.56
38:BD:72:LYS:HB3	38:BD:75:ILE:HB	1.88	0.56
38:BD:201:HIS:O	38:BD:204:ILE:HG12	2.06	0.56
39:BE:8:LYS:HG2	39:BE:192:ASN:HA	1.85	0.56
39:BE:101:ARG:NE	39:BE:171:GLU:HB2	2.20	0.56
41:BG:138:GLN:NE2	41:BG:149:VAL:HG23	2.20	0.56
42:BH:16:SER:CB	42:BH:27:LYS:HB2	2.32	0.56
42:BH:46:GLU:OE1	42:BH:51:ARG:HB2	2.05	0.56
43:BJ:54:UNK:O	43:BJ:56:UNK:N	2.38	0.56
43:BJ:118:UNK:C	43:BJ:120:UNK:H	2.18	0.56
46:BN:21:LYS:HD2	46:BN:26:LEU:HB3	1.86	0.56
46:BN:45:ASN:HD22	46:BN:45:ASN:N	1.83	0.56
48:BP:7:ARG:CZ	48:BP:7:ARG:HA	2.35	0.56
51:BS:36:TYR:CD1	51:BS:36:TYR:N	2.74	0.56
52:BT:42:ILE:HD13	52:BT:83:ILE:HD13	1.88	0.56
53:BU:8:VAL:HG23	53:BU:11:ARG:HH21	1.70	0.56
53:BU:62:ILE:HG23	53:BU:76:TYR:CE1	2.40	0.56
54:BV:98:GLU:OE2	54:BV:100:ARG:HD3	2.06	0.56
56:BX:8:ILE:H	56:BX:8:ILE:CD1	2.16	0.56
1:CA:67:C:H2'	1:CA:68:G:C8	2.40	0.56
1:CA:1226:C:H5''	13:CM:103:THR:CB	2.35	0.56
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.05	0.56
1:CA:1444:C:H2'	1:CA:1445:C:H6	1.67	0.56
2:CB:60:ASP:O	2:CB:64:ARG:NH2	2.39	0.56
3:CC:136:GLN:C	3:CC:138:VAL:N	2.59	0.56
12:CL:47:LYS:HZ3	12:CL:48:PRO:HD3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:40:LEU:O	18:CR:42:ARG:N	2.38	0.56
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.87	0.56
22:CV:69:C:O2'	22:CV:70:G:H5'	2.05	0.56
24:CY:33:LEU:HD12	24:CY:36:THR:HG21	1.86	0.56
24:CY:86:GLY:O	24:CY:88:VAL:HG22	2.04	0.56
24:CY:227:ILE:HG22	24:CY:227:ILE:O	2.05	0.56
24:CY:409:ILE:CD1	24:CY:656:ALA:HB3	2.34	0.56
24:CY:488:THR:HG23	24:CY:600:VAL:HB	1.88	0.56
26:D1:7:ILE:CG2	26:D1:66:HIS:HD2	2.18	0.56
27:D2:69:ARG:CG	27:D2:70:GLN:N	2.64	0.56
28:D3:9:VAL:HG11	28:D3:55:ARG:HD3	1.86	0.56
30:D5:58:LEU:HD13	30:D5:59:GLU:N	2.20	0.56
31:D6:37:ARG:NH2	35:DA:2286:A:N6	2.52	0.56
35:DA:322:A:H5'	35:DA:340:A:H1'	1.87	0.56
35:DA:481:G:OP2	57:DY:47:LYS:HD3	2.05	0.56
35:DA:491:G:H2'	35:DA:492:A:C8	2.41	0.56
35:DA:860:U:H5	35:DA:917:A:N7	2.03	0.56
35:DA:881:G:H2'	35:DA:882:G:H5'	1.86	0.56
35:DA:947:G:H2'	35:DA:948:G:C8	2.40	0.56
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.39	0.56
35:DA:1336:A:P	56:DX:64:LYS:HE3	2.45	0.56
35:DA:1662:C:H2'	35:DA:1663:C:C6	2.39	0.56
35:DA:2051:A:H4'	39:DE:141:ILE:CD1	2.35	0.56
37:DC:14:LYS:HD3	37:DC:14:LYS:H	1.71	0.56
38:DD:26:LYS:CA	38:DD:26:LYS:HE2	2.35	0.56
38:DD:34:VAL:CG2	38:DD:35:LYS:H	2.02	0.56
38:DD:131:LEU:N	38:DD:131:LEU:CD1	2.66	0.56
39:DE:77:ILE:C	39:DE:78:LEU:HG	2.30	0.56
40:DF:119:ARG:HH11	40:DF:119:ARG:HG2	1.68	0.56
40:DF:185:ASP:HA	40:DF:188:ARG:CD	2.34	0.56
41:DG:5:VAL:HG12	41:DG:7:LEU:H	1.71	0.56
41:DG:77:ILE:HG22	41:DG:80:PHE:H	1.70	0.56
42:DH:19:VAL:O	42:DH:20:ALA:HB2	2.05	0.56
42:DH:105:LEU:HD23	42:DH:105:LEU:H	1.69	0.56
46:DN:3:THR:C	46:DN:4:TYR:CD1	2.83	0.56
46:DN:97:ARG:O	46:DN:101:HIS:HB2	2.05	0.56
49:DQ:55:VAL:HG13	49:DQ:56:ARG:N	2.19	0.56
49:DQ:66:ILE:O	49:DQ:66:ILE:HG13	2.04	0.56
51:DS:88:ASP:OD2	51:DS:89:ARG:N	2.39	0.56
53:DU:26:GLY:C	53:DU:28:ARG:H	2.14	0.56
53:DU:65:ILE:HD11	53:DU:93:LYS:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:66:ASN:ND2	53:DU:76:TYR:H	2.04	0.56
54:DV:82:ARG:HD2	54:DV:82:ARG:N	2.20	0.56
56:DX:65:ARG:HH11	56:DX:65:ARG:HG2	1.70	0.56
57:DY:2:ARG:N	57:DY:4:LYS:HG2	2.20	0.56
57:DY:8:LYS:HD2	57:DY:8:LYS:H	1.68	0.56
58:DZ:97:GLU:HA	58:DZ:126:VAL:O	2.06	0.56
2:AB:114:ARG:HD2	2:AB:118:LEU:HG	1.86	0.56
2:AB:215:LEU:O	2:AB:219:VAL:HG23	2.04	0.56
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.86	0.56
6:AF:4:TYR:CE1	6:AF:92:LYS:HD2	2.40	0.56
8:AH:109:ILE:HG12	8:AH:110:ALA:H	1.70	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.69	0.56
12:AL:27:LEU:C	12:AL:29:GLY:N	2.62	0.56
12:AL:97:ARG:C	12:AL:98:TYR:CD1	2.83	0.56
14:AN:47:LEU:O	14:AN:50:LYS:N	2.39	0.56
22:AW:74:A:C2'	22:AW:75:C:H5''	2.36	0.56
24:AY:309:LEU:HD12	24:AY:310:ALA:N	2.20	0.56
24:AY:534:ILE:HD11	24:AY:570:GLY:HA3	1.88	0.56
26:B1:26:ARG:HG3	26:B1:27:GLU:HG3	1.86	0.56
31:B6:9:LEU:HD12	31:B6:28:ARG:HG3	1.86	0.56
33:B8:33:ASN:N	33:B8:36:LYS:HD2	2.20	0.56
35:BA:573:G:O2'	35:BA:574:C:H3'	2.05	0.56
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.23	0.56
35:BA:2030:A:H5''	35:BA:2031:A:OP1	2.05	0.56
38:BD:112:GLN:H	38:BD:115:GLN:NE2	2.03	0.56
40:BF:9:ILE:HG12	40:BF:14:PRO:C	2.30	0.56
40:BF:157:VAL:HG12	40:BF:176:LEU:HD23	1.87	0.56
40:BF:160:ASN:HD22	40:BF:161:GLU:N	2.04	0.56
40:BF:185:ASP:HA	40:BF:188:ARG:CG	2.34	0.56
44:BK:93:ARG:HG3	58:BZ:112:ARG:NE	2.19	0.56
46:BN:10:GLU:CD	46:BN:11:PRO:HD2	2.31	0.56
48:BP:55:ARG:CG	48:BP:56:SER:N	2.60	0.56
53:BU:57:PHE:C	53:BU:59:ARG:N	2.62	0.56
54:BV:49:THR:O	54:BV:50:PRO:C	2.46	0.56
56:BX:10:ALA:HB1	56:BX:11:PRO:HD2	1.87	0.56
57:BY:25:GLY:HA3	57:BY:39:VAL:CG1	2.35	0.56
1:CA:631:G:H5'	1:CA:631:G:H8	1.71	0.56
1:CA:807:A:H2'	1:CA:808:C:C6	2.40	0.56
1:CA:1133:G:N2	1:CA:1143:G:H1'	2.19	0.56
4:CD:57:ARG:HD2	4:CD:57:ARG:H	1.69	0.56
7:CG:51:GLN:HA	7:CG:51:GLN:OE1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:20:ALA:C	10:CJ:22:LYS:N	2.61	0.56
12:CL:110:VAL:HG21	12:CL:120:TYR:HD2	1.70	0.56
15:CO:9:GLN:HB3	15:CO:13:GLN:NE2	2.20	0.56
24:CY:251:ILE:HG23	24:CY:281:PRO:HB3	1.87	0.56
24:CY:366:VAL:HG23	24:CY:367:GLU:N	2.20	0.56
29:D4:8:LYS:O	29:D4:9:LEU:CB	2.53	0.56
31:D6:40:CYS:HB2	31:D6:46:HIS:ND1	2.20	0.56
35:DA:614(A):U:H5''	35:DA:614(B):G:OP1	2.05	0.56
35:DA:654(G):C:H2'	35:DA:654(H):G:C8	2.38	0.56
35:DA:676:A:H2	35:DA:802:A:H61	1.53	0.56
35:DA:797:C:H2'	35:DA:798:G:H8	1.71	0.56
35:DA:848:G:H5''	35:DA:928:G:H22	1.69	0.56
35:DA:1404:C:O2'	35:DA:1405:U:H5'	2.04	0.56
35:DA:1948:G:H5'	35:DA:1948:G:H8	1.68	0.56
35:DA:2011:U:H2'	35:DA:2012:G:H5'	1.87	0.56
35:DA:2334:G:C4	51:DS:15:ARG:HD3	2.40	0.56
38:DD:166:GLN:HE21	38:DD:166:GLN:CA	2.18	0.56
39:DE:95:ILE:N	39:DE:95:ILE:HD13	2.21	0.56
41:DG:153:ARG:NH1	41:DG:153:ARG:HB3	2.20	0.56
42:DH:97:ARG:O	42:DH:98:LEU:C	2.47	0.56
46:DN:87:LEU:HD21	46:DN:98:VAL:HG13	1.88	0.56
48:DP:12:ALA:HB1	48:DP:16:ARG:HB3	1.87	0.56
50:DR:11:ASN:O	50:DR:12:ARG:HB2	2.06	0.56
51:DS:30:ARG:NH2	51:DS:62:LYS:HD2	2.20	0.56
53:DU:104:GLN:HB3	54:DV:44:LYS:HZ1	1.71	0.56
1:AA:821:G:O2'	1:AA:822:C:H5'	2.05	0.56
2:AB:11:LEU:HD11	2:AB:217:ARG:NH2	2.20	0.56
2:AB:44:LEU:HA	2:AB:47:THR:OG1	2.05	0.56
2:AB:178:ARG:HB2	2:AB:178:ARG:HH11	1.71	0.56
4:AD:8:VAL:HB	4:AD:21:LEU:CD1	2.35	0.56
20:AT:49:ALA:CB	20:AT:99:LEU:HG	2.35	0.56
35:BA:455:C:N3	35:BA:472:A:H2'	2.21	0.56
35:BA:943:U:OP2	48:BP:38:GLN:CD	2.48	0.56
35:BA:1185:C:H5'	35:BA:1186:G:P	2.46	0.56
35:BA:1336:A:H2'	35:BA:1337:G:C8	2.40	0.56
35:BA:1461:G:O2'	35:BA:1462:C:H5'	2.06	0.56
35:BA:2026:C:N3	35:BA:2027:G:C8	2.74	0.56
39:BE:63:LEU:O	39:BE:64:LYS:C	2.48	0.56
40:BF:25:PRO:CG	40:BF:119:ARG:HB2	2.35	0.56
46:BN:3:THR:C	46:BN:4:TYR:CD1	2.83	0.56
52:BT:53:ARG:HH11	52:BT:53:ARG:CB	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:12:VAL:HG12	56:BX:27:THR:C	2.31	0.56
56:BX:70:LEU:HD23	56:BX:70:LEU:C	2.31	0.56
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.39	0.56
2:CB:51:LEU:HD23	2:CB:201:ILE:HD12	1.88	0.56
12:CL:70:ILE:HG21	12:CL:77:LEU:CD1	2.35	0.56
12:CL:97:ARG:C	12:CL:98:TYR:CD1	2.84	0.56
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.06	0.56
26:D1:7:ILE:HG22	26:D1:66:HIS:CD2	2.34	0.56
26:D1:50:ARG:HG3	26:D1:59:THR:HG22	1.88	0.56
31:D6:11:LEU:CG	31:D6:26:ASN:HD21	2.17	0.56
31:D6:15:GLU:HB2	31:D6:47:THR:HG21	1.87	0.56
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.35	0.56
35:DA:674:G:H2'	35:DA:804:A:H61	1.71	0.56
35:DA:828:U:C5	35:DA:829:A:N6	2.74	0.56
35:DA:845:G:OP2	35:DA:845:G:H8	1.88	0.56
37:DC:95:VAL:HG12	37:DC:96:GLY:N	2.21	0.56
39:DE:77:ILE:HG22	39:DE:78:LEU:HD12	1.86	0.56
39:DE:103:ASP:OD2	39:DE:168:MET:HE2	2.04	0.56
42:DH:46:GLU:OE1	42:DH:51:ARG:HB2	2.06	0.56
46:DN:7:LYS:O	46:DN:9:VAL:N	2.38	0.56
48:DP:50:ARG:O	48:DP:57:THR:HG22	2.06	0.56
53:DU:49:HIS:C	53:DU:52:ARG:HB2	2.30	0.56
53:DU:106:PHE:O	53:DU:109:LEU:N	2.39	0.56
57:DY:17:SER:HB2	57:DY:71:LYS:HD2	1.86	0.56
1:AA:1130:A:C2	1:AA:1146:A:C4	2.94	0.56
1:AA:1442(B):A:N7	52:BT:118:ARG:HG2	2.20	0.56
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.87	0.56
2:AB:97:TRP:HH2	2:AB:176:GLU:CD	2.13	0.56
2:AB:119:GLU:OE1	2:AB:153:ARG:NH2	2.38	0.56
5:AE:80:ILE:HG22	8:AH:104:ARG:HH22	1.66	0.56
7:AG:27:ILE:HD11	7:AG:40:ALA:HA	1.87	0.56
9:AI:79:LEU:CD1	9:AI:83:ARG:HD2	2.35	0.56
18:AR:25:THR:HG22	18:AR:25:THR:O	2.05	0.56
19:AS:13:ASP:C	19:AS:15:LEU:N	2.63	0.56
22:AV:2:G:H5''	25:B0:8:GLY:HA2	1.88	0.56
23:AX:13:A:C2'	23:AX:14:A:H5''	2.35	0.56
24:AY:526:VAL:HB	24:AY:566:THR:HG23	1.88	0.56
28:B3:9:VAL:HG11	28:B3:55:ARG:HD3	1.88	0.56
35:BA:406:G:O2'	35:BA:407:G:C8	2.58	0.56
35:BA:933:A:H2'	35:BA:934:G:O4'	2.06	0.56
35:BA:1567:A:H2'	38:BD:84:TYR:CE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1774:C:O2	38:BD:11:PRO:HB2	2.05	0.56
39:BE:82:ARG:HG3	39:BE:83:ASP:H	1.70	0.56
39:BE:89:ASP:O	39:BE:90:THR:O	2.23	0.56
41:BG:18:GLU:HA	41:BG:18:GLU:OE2	2.06	0.56
41:BG:63:ILE:C	41:BG:63:ILE:HD12	2.31	0.56
42:BH:159:GLU:HA	42:BH:159:GLU:OE1	2.06	0.56
44:BK:58:THR:HB	44:BK:66:THR:CG2	2.35	0.56
46:BN:43:THR:HB	46:BN:46:VAL:HG11	1.86	0.56
47:BO:60:ALA:C	47:BO:87:ILE:HD11	2.31	0.56
48:BP:127:ALA:HB3	48:BP:130:PHE:CZ	2.41	0.56
50:BR:44:LEU:HD13	50:BR:44:LEU:O	2.04	0.56
1:CA:45:U:H2'	1:CA:46:G:H8	1.70	0.56
1:CA:1318:A:H2'	1:CA:1319:A:H5'	1.87	0.56
2:CB:12:GLU:HA	2:CB:16:HIS:CG	2.40	0.56
3:CC:119:ARG:O	3:CC:123:GLN:HG3	2.06	0.56
4:CD:162:LEU:CD1	4:CD:181:MET:HG2	2.35	0.56
5:CE:79:GLU:HB3	5:CE:92:LYS:HA	1.88	0.56
6:CF:10:LEU:HD12	6:CF:61:LEU:HD13	1.88	0.56
13:CM:77:ASN:O	13:CM:80:ARG:N	2.35	0.56
24:CY:125:ALA:C	24:CY:127:LYS:N	2.62	0.56
24:CY:357:ARG:HG3	24:CY:366:VAL:HG11	1.86	0.56
24:CY:558:PHE:O	24:CY:559:PRO:C	2.49	0.56
31:D6:43:CYS:HB2	31:D6:44:ARG:NH2	2.18	0.56
35:DA:551:G:H2'	35:DA:552:G:H5'	1.88	0.56
35:DA:1220:A:H3'	35:DA:1221:C:C5'	2.36	0.56
35:DA:1306:C:H2'	35:DA:1307:A:H8	1.70	0.56
35:DA:1506:C:O2	35:DA:1506:C:H2'	2.06	0.56
35:DA:2028:U:H2'	35:DA:2029:G:C8	2.41	0.56
35:DA:2415:G:H4'	48:DP:67:MET:N	2.19	0.56
35:DA:2681:C:H5	35:DA:2725:A:H62	1.53	0.56
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.70	0.56
40:DF:114:VAL:HG21	40:DF:202:PHE:CE1	2.40	0.56
40:DF:174:VAL:HG21	40:DF:189:THR:HG21	1.88	0.56
41:DG:138:GLN:O	41:DG:144:ILE:HD13	2.05	0.56
42:DH:155:SER:O	42:DH:157:TYR:N	2.38	0.56
46:DN:120:LEU:HD11	46:DN:122:VAL:HG23	1.86	0.56
52:DT:80:SER:CB	52:DT:81:PRO:CD	2.84	0.56
52:DT:106:SER:O	52:DT:107:ASP:CB	2.53	0.56
53:DU:65:ILE:HG12	53:DU:96:ALA:HB1	1.88	0.56
1:AA:164:U:H2'	1:AA:165:C:C6	2.40	0.56
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1009:G:H2'	1:AA:1009:G:N3	2.20	0.56
1:AA:1198:G:H2'	1:AA:1199:U:O4'	2.05	0.56
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.71	0.56
10:AJ:47:PHE:CZ	14:AN:37:PHE:CE2	2.92	0.56
24:AY:446:THR:HG23	24:AY:448:GLN:HG2	1.88	0.56
26:B1:58:ILE:HD11	26:B1:91:LYS:CA	2.36	0.56
29:B4:1:MET:HE2	41:BG:98:ARG:HG3	1.87	0.56
32:B7:35:ARG:HG2	32:B7:35:ARG:HH11	1.70	0.56
35:BA:82:G:H5''	35:BA:296:C:C5'	2.35	0.56
35:BA:503:A:H4'	35:BA:504:U:C5'	2.36	0.56
35:BA:1306:C:H2'	35:BA:1307:A:H8	1.70	0.56
37:BC:95:VAL:HG12	37:BC:96:GLY:N	2.21	0.56
39:BE:69:LYS:O	39:BE:70:ALA:C	2.48	0.56
41:BG:34:LEU:HD12	41:BG:34:LEU:N	2.21	0.56
46:BN:24:GLY:HA2	46:BN:27:ALA:HB3	1.88	0.56
48:BP:45:LEU:HG	48:BP:46:LYS:H	1.70	0.56
52:BT:1:MET:H2	52:BT:7:ILE:HD11	1.67	0.56
53:BU:65:ILE:HD11	53:BU:93:LYS:HA	1.88	0.56
54:BV:38:LEU:H	54:BV:51:VAL:HG13	1.71	0.56
55:BW:20:VAL:HG23	55:BW:47:VAL:HG21	1.88	0.56
58:BZ:155:LEU:HD23	58:BZ:155:LEU:N	2.19	0.56
1:CA:658:G:O4'	15:CO:22:THR:HB	2.06	0.56
2:CB:7:VAL:O	2:CB:11:LEU:HG	2.05	0.56
3:CC:142:MET:HE1	3:CC:171:GLY:HA3	1.86	0.56
4:CD:132:ARG:O	4:CD:132:ARG:HD2	2.05	0.56
10:CJ:3:LYS:NZ	10:CJ:76:ASN:HA	2.20	0.56
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	2.06	0.56
18:CR:44:LEU:CD2	18:CR:79:LEU:HD22	2.36	0.56
20:CT:24:LEU:HD13	20:CT:24:LEU:O	2.05	0.56
24:CY:498:ILE:HG22	24:CY:507:TYR:CD2	2.41	0.56
26:D1:81:LYS:NZ	35:DA:271(H):G:H4'	2.20	0.56
29:D4:19:GLY:O	29:D4:20:ASN:C	2.49	0.56
31:D6:7:ILE:HD12	31:D6:7:ILE:N	2.20	0.56
31:D6:27:LYS:HB3	31:D6:30:THR:HG22	1.87	0.56
35:DA:688:U:H4'	35:DA:1780:A:C2	2.41	0.56
35:DA:2272:U:H5''	35:DA:2273:A:OP1	2.05	0.56
35:DA:2512:C:H2'	35:DA:2513:G:O4'	2.05	0.56
42:DH:12:PRO:O	42:DH:15:VAL:HG22	2.04	0.56
42:DH:159:GLU:HA	42:DH:159:GLU:OE1	2.04	0.56
43:DJ:130:UNK:O	43:DJ:132:UNK:N	2.39	0.56
45:DL:81:UNK:O	45:DL:82:UNK:O	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:7:ARG:CZ	48:DP:7:ARG:HA	2.36	0.56
48:DP:16:ARG:HB2	48:DP:16:ARG:HH11	1.69	0.56
54:DV:54:GLY:O	54:DV:55:ALA:HB2	2.05	0.56
54:DV:98:GLU:OE2	54:DV:100:ARG:HD3	2.06	0.56
57:DY:17:SER:CB	57:DY:71:LYS:HD2	2.36	0.56
57:DY:59:GLY:O	57:DY:60:PHE:HB2	2.06	0.56
58:DZ:10:ARG:HB3	58:DZ:36:LYS:CB	2.35	0.56
1:AA:728:A:H2'	1:AA:729:A:C8	2.41	0.56
1:AA:973:G:C1'	10:AJ:55:LYS:CE	2.83	0.56
2:AB:238:LEU:O	2:AB:238:LEU:HG	2.06	0.56
4:AD:57:ARG:HD2	4:AD:57:ARG:H	1.70	0.56
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.88	0.56
13:AM:10:PRO:HG3	13:AM:18:ALA:HB1	1.87	0.56
22:AW:60:A:C2'	22:AW:61:U:H5'	2.36	0.56
24:AY:35:TYR:HH	24:AY:266:ASN:HB3	1.70	0.56
24:AY:119:GLU:O	24:AY:120:THR:OG1	2.24	0.56
24:AY:204:GLU:CD	24:AY:204:GLU:H	2.14	0.56
24:AY:381:LYS:HD2	24:AY:381:LYS:N	2.20	0.56
25:B0:43:THR:HG22	35:BA:2331:G:O2'	2.05	0.56
26:B1:64:ALA:C	26:B1:66:HIS:H	2.12	0.56
35:BA:583:G:OP2	53:BU:10:ARG:HD2	2.06	0.56
35:BA:751:A:C5'	55:BW:90:ARG:HA	2.35	0.56
35:BA:986:C:O2'	35:BA:987:G:H5'	2.06	0.56
35:BA:1290:C:H2'	35:BA:1291:C:H6	1.71	0.56
35:BA:1678:G:H22	35:BA:1989:G:H22	1.53	0.56
35:BA:2415:G:H4'	48:BP:67:MET:N	2.20	0.56
35:BA:2583:G:H2'	35:BA:2584:U:O2	2.05	0.56
35:BA:2657:A:O2'	42:BH:160:LYS:HE3	2.05	0.56
35:BA:2804:C:H2'	35:BA:2805:G:H8	1.71	0.56
36:BB:22:U:H2'	36:BB:23:G:C8	2.41	0.56
37:BC:215:VAL:HG23	37:BC:225:ILE:HG12	1.86	0.56
40:BF:2:LYS:HG3	40:BF:25:PRO:HG2	1.86	0.56
41:BG:7:LEU:O	41:BG:11:TYR:N	2.37	0.56
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.87	0.56
42:BH:86:GLU:HB2	42:BH:132:ARG:HB3	1.87	0.56
48:BP:50:ARG:O	48:BP:57:THR:HG22	2.06	0.56
51:BS:88:ASP:OD2	51:BS:89:ARG:N	2.39	0.56
51:BS:101:LEU:HD12	51:BS:101:LEU:C	2.31	0.56
52:BT:112:ARG:C	52:BT:115:ARG:HD3	2.31	0.56
54:BV:51:VAL:HG12	54:BV:52:VAL:N	2.14	0.56
57:BY:17:SER:OG	57:BY:18:GLY:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:255:G:O6	1:CA:266:G:O6	2.24	0.56
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	1.87	0.56
2:CB:151:GLY:O	2:CB:152:PHE:C	2.48	0.56
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.70	0.56
7:CG:91:VAL:HG12	7:CG:92:SER:N	2.21	0.56
9:CI:79:LEU:CD1	9:CI:83:ARG:HB2	2.34	0.56
11:CK:108:ILE:N	11:CK:108:ILE:CD1	2.69	0.56
12:CL:78:GLN:O	12:CL:79:GLU:C	2.47	0.56
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.87	0.56
17:CQ:80:GLY:O	17:CQ:81:ARG:HD2	2.06	0.56
24:CY:206:LEU:CD1	24:CY:210:ARG:HH12	2.19	0.56
24:CY:227:ILE:HD11	24:CY:241:GLU:O	2.05	0.56
25:D0:20:ARG:H	25:D0:20:ARG:CD	2.19	0.56
26:D1:35:THR:O	26:D1:35:THR:HG23	2.04	0.56
29:D4:9:LEU:CD1	29:D4:10:VAL:H	2.19	0.56
34:D9:29:ASN:HD21	34:D9:32:HIS:CG	2.23	0.56
35:DA:933:A:H2'	35:DA:934:G:O4'	2.06	0.56
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.41	0.56
35:DA:2103:C:H2'	35:DA:2103:C:O2	2.04	0.56
39:DE:82:ARG:HG3	39:DE:83:ASP:H	1.71	0.56
43:DJ:26:UNK:HA	43:DJ:84:UNK:CA	2.35	0.56
44:DK:24:GLY:H	44:DK:25:PRO:HD2	1.69	0.56
50:DR:72:ASP:CG	50:DR:75:LEU:H	2.14	0.56
54:DV:18:LEU:CD1	54:DV:19:LYS:H	2.18	0.56
1:AA:807:A:H2'	1:AA:808:C:C6	2.41	0.56
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.06	0.56
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.88	0.56
3:AC:46:GLU:HB3	3:AC:83:ARG:HH22	1.71	0.56
5:AE:101:ILE:HG12	5:AE:101:ILE:O	2.06	0.56
6:AF:37:VAL:CG1	6:AF:38:GLU:H	2.12	0.56
8:AH:104:ARG:O	8:AH:105:ARG:C	2.48	0.56
11:AK:12:ARG:O	11:AK:13:GLN:HG3	2.05	0.56
24:AY:77:HIS:NE2	24:AY:277:VAL:HG21	2.21	0.56
24:AY:216:LEU:HD23	24:AY:216:LEU:C	2.31	0.56
24:AY:415:PRO:O	24:AY:420:ASP:HB2	2.05	0.56
24:AY:539:ILE:O	24:AY:542:VAL:HG12	2.06	0.56
30:B5:55:ARG:HH12	50:BR:33:ARG:CD	2.19	0.56
35:BA:438:G:O2'	35:BA:440:G:H5'	2.05	0.56
35:BA:2103:C:H2'	35:BA:2103:C:O2	2.06	0.56
35:BA:2746:U:O2'	35:BA:2747:G:H5'	2.06	0.56
35:BA:2845:G:O2'	35:BA:2846:G:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:40:GLN:OE1	40:BF:184:TYR:HB2	2.06	0.56
41:BG:36:LYS:HA	41:BG:99:MET:SD	2.46	0.56
47:BO:52:VAL:O	47:BO:53:LYS:HG3	2.06	0.56
48:BP:107:LYS:C	48:BP:109:GLY:N	2.63	0.56
50:BR:21:TYR:HB3	50:BR:47:PHE:CE2	2.41	0.56
52:BT:120:ARG:HA	52:BT:123:GLN:HG2	1.88	0.56
58:BZ:53:ILE:HG22	58:BZ:71:VAL:HB	1.87	0.56
58:BZ:180:VAL:HG12	58:BZ:181:GLU:N	2.19	0.56
1:CA:45:U:H2'	1:CA:46:G:C8	2.40	0.56
1:CA:620:C:C2	4:CD:135:LEU:HG	2.41	0.56
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.06	0.56
1:CA:1298:C:H1'	1:CA:1299:A:C6	2.41	0.56
1:CA:1312:G:O2'	1:CA:1313:U:H5'	2.06	0.56
2:CB:62:ALA:O	2:CB:64:ARG:N	2.35	0.56
2:CB:86:GLU:C	2:CB:88:ALA:H	2.11	0.56
2:CB:97:TRP:CH2	2:CB:176:GLU:CD	2.84	0.56
2:CB:119:GLU:OE1	2:CB:153:ARG:NH2	2.37	0.56
3:CC:77:ILE:HA	3:CC:84:ILE:HB	1.88	0.56
4:CD:25:ARG:HH12	4:CD:30:LYS:HB2	1.71	0.56
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.06	0.56
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.06	0.56
8:CH:10:LEU:CD2	8:CH:83:ILE:HD11	2.35	0.56
10:CJ:96:ILE:HD13	10:CJ:96:ILE:N	2.20	0.56
13:CM:10:PRO:HG3	13:CM:18:ALA:HB1	1.87	0.56
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.36	0.56
24:CY:217:VAL:HA	24:CY:220:ALA:HB3	1.88	0.56
24:CY:314:PHE:CE1	24:CY:327:PHE:HB3	2.41	0.56
27:D2:40:SER:C	27:D2:42:GLY:N	2.62	0.56
31:D6:53:LYS:HG3	31:D6:54:ILE:HG23	1.88	0.56
35:DA:192:C:C2'	35:DA:193:U:H5'	2.31	0.56
35:DA:877:U:O2'	35:DA:878:A:H5''	2.06	0.56
35:DA:1185:C:H5'	35:DA:1186:G:P	2.45	0.56
35:DA:1567:A:H2'	38:DD:84:TYR:CE2	2.40	0.56
35:DA:1624:G:O2'	35:DA:1625:C:H5'	2.06	0.56
35:DA:1692:U:H2'	35:DA:1694:C:C5	2.41	0.56
35:DA:1847:A:H3'	35:DA:1848:A:C5'	2.36	0.56
35:DA:2132:U:C5	37:DC:6:LYS:HD2	2.41	0.56
36:DB:77:U:O2'	36:DB:78:A:H5'	2.06	0.56
40:DF:157:VAL:HG22	40:DF:194:MET:HG2	1.87	0.56
42:DH:140:LYS:O	42:DH:144:VAL:HG23	2.06	0.56
44:DK:58:THR:HB	44:DK:66:THR:CG2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:112:LEU:O	48:DP:128:HIS:HB2	2.06	0.56
49:DQ:2:LEU:O	49:DQ:3:MET:HB3	2.06	0.56
58:DZ:35:ARG:HB3	58:DZ:35:ARG:CZ	2.36	0.56
58:DZ:42:VAL:HG13	58:DZ:43:GLU:N	2.21	0.56
58:DZ:43:GLU:O	58:DZ:47:VAL:HG23	2.06	0.56
1:AA:1133:G:N2	1:AA:1143:G:H1'	2.18	0.56
1:AA:1318:A:O3'	19:AS:10:PHE:CD2	2.59	0.56
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.06	0.56
24:AY:218:GLU:O	24:AY:221:ALA:HB3	2.06	0.56
31:B6:15:GLU:OE1	31:B6:44:ARG:NH2	2.39	0.56
32:B7:24:THR:HG23	32:B7:27:GLY:HA3	1.87	0.56
35:BA:2076:U:H5'	35:BA:2238:G:N2	2.20	0.56
35:BA:2855:C:H2'	35:BA:2856:C:C6	2.41	0.56
38:BD:76:PRO:HG2	38:BD:98:VAL:CG2	2.36	0.56
40:BF:25:PRO:HG3	40:BF:119:ARG:CB	2.34	0.56
41:BG:67:LYS:HD3	41:BG:68:PRO:CD	2.36	0.56
41:BG:82:LEU:HD23	41:BG:82:LEU:C	2.31	0.56
41:BG:91:ARG:HD2	41:BG:92:VAL:CA	2.34	0.56
42:BH:86:GLU:HB3	42:BH:132:ARG:HB3	1.88	0.56
42:BH:88:LEU:HD23	42:BH:164:TYR:O	2.06	0.56
46:BN:126:PRO:O	46:BN:127:ASP:HB2	2.04	0.56
47:BO:1:MET:HE2	47:BO:32:TYR:CD2	2.41	0.56
50:BR:4:LEU:C	50:BR:6:SER:H	2.13	0.56
52:BT:65:LYS:HA	52:BT:65:LYS:HZ2	1.67	0.56
53:BU:26:GLY:O	53:BU:28:ARG:N	2.39	0.56
58:BZ:136:PHE:CD1	58:BZ:136:PHE:O	2.59	0.56
1:CA:299:G:H2'	1:CA:300:A:H8	1.68	0.56
1:CA:363:A:OP1	12:CL:33:ARG:HD3	2.06	0.56
1:CA:1009:G:H2'	1:CA:1009:G:N3	2.21	0.56
3:CC:79:ARG:HH11	3:CC:79:ARG:CB	2.12	0.56
4:CD:155:LEU:O	4:CD:156:GLU:C	2.49	0.56
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.88	0.56
24:CY:605:ILE:CG2	24:CY:646:PHE:HB3	2.35	0.56
25:D0:10:THR:HG21	35:DA:2277:G:OP2	2.06	0.56
31:D6:11:LEU:HD23	31:D6:51:GLU:CG	2.36	0.56
35:DA:246:C:H2'	35:DA:247:G:H5'	1.88	0.56
35:DA:884:C:H41	35:DA:886:C:H42	1.53	0.56
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.05	0.56
35:DA:1332:G:N2	35:DA:1609:A:H3'	2.20	0.56
35:DA:1505:C:C5	35:DA:1506:C:H1'	2.41	0.56
35:DA:2464:C:HO2'	35:DA:2465:C:H6	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2469:A:O3'	49:DQ:56:ARG:NH1	2.39	0.56
35:DA:2754:U:H2'	35:DA:2755:C:H5'	1.87	0.56
37:DC:42:VAL:O	37:DC:176:VAL:HG22	2.06	0.56
37:DC:139:PRO:HA	37:DC:145:THR:HB	1.88	0.56
44:DK:86:LYS:NZ	44:DK:86:LYS:HB3	2.21	0.56
46:DN:74:ARG:NH2	46:DN:83:LYS:HD3	2.20	0.56
47:DO:115:VAL:CG1	47:DO:121:VAL:HG21	2.35	0.56
52:DT:112:ARG:C	52:DT:115:ARG:HD3	2.31	0.56
54:DV:52:VAL:O	54:DV:52:VAL:HG13	2.06	0.56
1:AA:111:G:O6	1:AA:330:C:N4	2.39	0.55
1:AA:680:C:O2'	1:AA:681:C:H5'	2.06	0.55
2:AB:97:TRP:CZ2	2:AB:102:LEU:HD13	2.35	0.55
2:AB:137:ARG:C	2:AB:137:ARG:HD3	2.30	0.55
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.54	0.55
6:AF:62:TRP:O	6:AF:63:TYR:CG	2.60	0.55
7:AG:64:GLN:CG	7:AG:128:ALA:HB1	2.36	0.55
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.06	0.55
13:AM:81:LEU:N	13:AM:81:LEU:HD22	2.22	0.55
15:AO:76:GLU:O	15:AO:78:TYR:N	2.39	0.55
24:AY:8:ASP:O	24:AY:9:LEU:HB3	2.06	0.55
24:AY:20:HIS:O	24:AY:21:ILE:O	2.24	0.55
24:AY:165:GLN:HE21	24:AY:177:ILE:HG21	1.71	0.55
24:AY:622:GLY:O	24:AY:625:ASN:N	2.38	0.55
33:B8:47:LYS:HZ3	33:B8:49:VAL:HG13	1.71	0.55
35:BA:709:U:H2'	35:BA:710:G:C8	2.42	0.55
35:BA:1247:A:OP1	40:BF:95:ARG:NH2	2.38	0.55
35:BA:1416:G:HO2'	35:BA:1417:C:H5	1.54	0.55
35:BA:1654:A:H2	39:BE:113:PHE:CD1	2.24	0.55
35:BA:1692:U:H2'	35:BA:1694:C:C5	2.41	0.55
35:BA:1971:A:C4	38:BD:241:PRO:HD3	2.41	0.55
35:BA:2107:C:H42	35:BA:2182:G:H1	1.54	0.55
35:BA:2769:C:O2'	35:BA:2770:G:H5'	2.06	0.55
36:BB:114:C:H2'	36:BB:115:G:C8	2.41	0.55
37:BC:97:GLY:O	37:BC:100:ILE:HG12	2.06	0.55
38:BD:267:SER:C	38:BD:269:PHE:H	2.14	0.55
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	1.88	0.55
42:BH:83:TYR:O	42:BH:84:SER:HB3	2.05	0.55
44:BK:86:LYS:NZ	44:BK:86:LYS:HB3	2.21	0.55
49:BQ:27:VAL:HG21	49:BQ:134:ARG:HG2	1.88	0.55
52:BT:132:LYS:HG2	52:BT:133:GLU:H	1.71	0.55
57:BY:86:ARG:HB3	57:BY:88:LYS:NZ	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:67:LEU:H	58:BZ:67:LEU:HD12	1.71	0.55
58:BZ:67:LEU:HD12	58:BZ:67:LEU:N	2.21	0.55
58:BZ:103:ARG:HB2	58:BZ:136:PHE:HB2	1.87	0.55
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.05	0.55
1:CA:1333:A:C2	1:CA:1334:G:H1'	2.41	0.55
6:CF:37:VAL:CG1	6:CF:38:GLU:H	2.09	0.55
14:CN:44:LEU:HD12	14:CN:44:LEU:O	2.06	0.55
19:CS:9:VAL:O	19:CS:9:VAL:CG1	2.54	0.55
24:CY:389:LEU:HD12	24:CY:389:LEU:N	2.20	0.55
27:D2:64:LEU:O	27:D2:68:ARG:HB2	2.06	0.55
30:D5:46:CYS:SG	30:D5:47:PRO:HD2	2.46	0.55
31:D6:27:LYS:NZ	31:D6:30:THR:HB	2.22	0.55
35:DA:892:G:H2'	35:DA:893:C:H6	1.71	0.55
35:DA:1036:G:C6	35:DA:1120:G:C6	2.94	0.55
35:DA:1796:U:OP1	38:DD:276:LYS:HE3	2.06	0.55
35:DA:2713:A:C3'	35:DA:2714:G:C5'	2.84	0.55
36:DB:20:C:H2'	36:DB:21:G:C5'	2.37	0.55
39:DE:1:MET:HE2	39:DE:1:MET:N	2.21	0.55
40:DF:168:ARG:C	40:DF:170:LEU:H	2.14	0.55
44:DK:77:LEU:HD12	44:DK:107:ILE:CG2	2.31	0.55
47:DO:34:THR:O	47:DO:35:VAL:C	2.49	0.55
54:DV:49:THR:HB	54:DV:50:PRO:CD	2.36	0.55
1:AA:1298:C:H1'	1:AA:1299:A:C6	2.41	0.55
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.21	0.55
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.06	0.55
1:AA:1381:U:C5	1:AA:1382:C:C5	2.94	0.55
2:AB:189:ASP:O	2:AB:191:ASP:N	2.40	0.55
3:AC:130:VAL:HG21	3:AC:157:ILE:HG23	1.88	0.55
5:AE:79:GLU:HB3	5:AE:92:LYS:HA	1.88	0.55
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.37	0.55
9:AI:73:GLN:O	9:AI:76:ALA:N	2.39	0.55
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	2.06	0.55
22:AV:21:A:N6	22:AV:46:G:H2'	2.05	0.55
22:AV:68:C:H2'	22:AV:69:C:C6	2.41	0.55
24:AY:250:THR:O	24:AY:252:ASP:N	2.39	0.55
32:B7:28:ARG:HG3	32:B7:28:ARG:NH1	2.21	0.55
35:BA:8:A:H2'	35:BA:9:U:C5	2.41	0.55
35:BA:67:U:H2'	35:BA:68:G:H8	1.70	0.55
35:BA:363(B):G:H2'	35:BA:363(C):G:C8	2.38	0.55
35:BA:1301:A:HO2'	35:BA:1302:A:P	2.28	0.55
35:BA:2050:C:O2'	35:BA:2051:A:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2469:A:O3'	49:BQ:56:ARG:NH1	2.39	0.55
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.63	0.55
44:BK:13:PRO:HA	44:BK:52:ILE:HG23	1.88	0.55
48:BP:47:ASP:CB	48:BP:51:PHE:HB2	2.36	0.55
48:BP:122:PRO:O	48:BP:123:LEU:HB3	2.07	0.55
53:BU:93:LYS:HD2	53:BU:93:LYS:H	1.72	0.55
54:BV:19:LYS:NZ	54:BV:20:LEU:H	2.03	0.55
1:CA:741:G:O2'	1:CA:742:G:H5'	2.06	0.55
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.41	0.55
6:CF:47:ARG:HH11	6:CF:47:ARG:HG2	1.71	0.55
11:CK:48:ILE:HG22	11:CK:49:GLY:N	2.21	0.55
27:D2:50:ILE:CG2	27:D2:54:LYS:HE3	2.36	0.55
30:D5:7:PRO:HA	35:DA:2615:U:C2	2.41	0.55
35:DA:274:G:H2'	35:DA:274:G:N3	2.19	0.55
35:DA:1858:G:H2'	35:DA:1883:G:N2	2.21	0.55
35:DA:2389:G:H5''	35:DA:2390:U:C5'	2.34	0.55
35:DA:2428:G:H4'	35:DA:2429:G:O5'	2.06	0.55
38:DD:65:ILE:N	38:DD:65:ILE:HD13	2.21	0.55
38:DD:241:PRO:O	38:DD:242:ARG:HB2	2.06	0.55
41:DG:109:VAL:C	41:DG:112:PRO:HD2	2.31	0.55
41:DG:141:PHE:HB2	41:DG:144:ILE:CG2	2.35	0.55
44:DK:13:PRO:HA	44:DK:52:ILE:HG23	1.88	0.55
52:DT:132:LYS:HG2	52:DT:133:GLU:N	2.21	0.55
54:DV:49:THR:O	54:DV:50:PRO:C	2.47	0.55
57:DY:13:VAL:HG22	57:DY:73:ARG:O	2.06	0.55
1:AA:52:G:O2'	1:AA:53:A:H5'	2.06	0.55
1:AA:505:G:H2'	1:AA:506:G:C8	2.41	0.55
1:AA:630:G:H2'	1:AA:631:G:H5''	1.85	0.55
1:AA:977:A:H2'	1:AA:978:A:H5'	1.89	0.55
1:AA:1090:U:C4'	1:AA:1170:A:H2	2.19	0.55
1:AA:1226:C:H5'	13:AM:96:LEU:CD1	2.36	0.55
1:AA:1364:U:O2	1:AA:1364:U:C2'	2.49	0.55
1:AA:1369:C:H2'	1:AA:1370:G:H8	1.71	0.55
1:AA:1392:G:H21	1:AA:1502:A:H8	1.53	0.55
4:AD:61:LYS:CE	4:AD:62:GLN:HE21	2.19	0.55
7:AG:91:VAL:HG12	7:AG:92:SER:N	2.20	0.55
9:AI:40:LEU:C	9:AI:42:ARG:H	2.14	0.55
13:AM:65:LYS:C	13:AM:66:LEU:HD12	2.30	0.55
13:AM:121:LYS:N	13:AM:121:LYS:HD3	2.20	0.55
24:AY:170:ARG:C	24:AY:171:GLU:HG2	2.30	0.55
24:AY:176:GLY:HA3	24:AY:187:THR:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:343:ASN:C	24:AY:343:ASN:ND2	2.59	0.55
29:B4:8:LYS:O	29:B4:9:LEU:CB	2.54	0.55
30:B5:33:CYS:SG	30:B5:36:CYS:SG	3.04	0.55
30:B5:58:LEU:HD13	30:B5:59:GLU:N	2.22	0.55
31:B6:43:CYS:HB2	31:B6:44:ARG:NH2	2.19	0.55
35:BA:271(K):U:H3'	35:BA:271(L):U:H5''	1.88	0.55
35:BA:467:G:O2'	35:BA:468:G:H5'	2.05	0.55
35:BA:483:A:H4'	57:BY:49:VAL:HA	1.88	0.55
35:BA:993:G:OP1	53:BU:50:ARG:HD2	2.05	0.55
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.41	0.55
35:BA:1220:A:H3'	35:BA:1221:C:C5'	2.36	0.55
35:BA:1812:A:O2'	35:BA:1813:G:H5'	2.06	0.55
35:BA:2688:U:H1'	35:BA:2721:A:N6	2.21	0.55
40:BF:75:HIS:HE1	40:BF:82:ILE:HD11	1.71	0.55
41:BG:102:PHE:O	41:BG:103:LEU:C	2.48	0.55
42:BH:41:MET:O	42:BH:42:ARG:CB	2.54	0.55
42:BH:155:SER:O	42:BH:157:TYR:N	2.38	0.55
50:BR:103:ARG:HD2	55:BW:40:ASN:HD21	1.71	0.55
57:BY:84:ARG:HG2	57:BY:84:ARG:NH1	2.21	0.55
58:BZ:137:ILE:CG2	58:BZ:155:LEU:HD12	2.37	0.55
1:CA:689:C:P	11:CK:46:GLY:HA3	2.47	0.55
1:CA:895:G:H5''	1:CA:896:C:OP2	2.07	0.55
1:CA:1014:A:H4'	19:CS:14:HIS:ND1	2.20	0.55
9:CI:7:THR:O	9:CI:83:ARG:HD2	2.05	0.55
10:CJ:78:ASN:C	10:CJ:79:ARG:HH11	2.15	0.55
11:CK:12:ARG:O	11:CK:13:GLN:HG3	2.07	0.55
24:CY:218:GLU:HG2	45:DL:84:UNK:CB	2.36	0.55
24:CY:658:ASP:O	24:CY:662:LYS:HG2	2.06	0.55
26:D1:60:PHE:CD1	26:D1:91:LYS:HE3	2.42	0.55
28:D3:5:LYS:HE3	28:D3:34:GLU:OE1	2.06	0.55
32:D7:34:ARG:HH12	32:D7:39:ARG:HD2	1.71	0.55
34:D9:19:ARG:HB2	35:DA:2756:U:H5'	1.87	0.55
35:DA:41:C:H2'	35:DA:42:G:O4'	2.07	0.55
35:DA:687:C:H2'	35:DA:688:U:O4'	2.07	0.55
35:DA:945:A:O2'	35:DA:946:G:H4'	2.06	0.55
35:DA:2171:A:H1'	35:DA:2172:U:C5	2.40	0.55
35:DA:2247:A:O2'	35:DA:2248:C:H5'	2.06	0.55
35:DA:2815:C:H2'	35:DA:2816:C:H6	1.69	0.55
39:DE:49:LEU:N	39:DE:49:LEU:CD2	2.68	0.55
40:DF:113:ALA:HB1	40:DF:186:ILE:CG2	2.34	0.55
41:DG:86:MET:N	41:DG:87:PRO:CD	2.67	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:59:LYS:CD	51:DS:61:ASN:HB2	2.35	0.55
58:DZ:43:GLU:HG3	58:DZ:44:PHE:H	1.72	0.55
58:DZ:59:LEU:O	58:DZ:66:SER:HA	2.06	0.55
58:DZ:139:VAL:HG12	58:DZ:141:VAL:HG23	1.88	0.55
1:AA:275:G:H5''	17:AQ:14:LYS:CB	2.34	0.55
1:AA:277:C:O2'	1:AA:278:G:H5'	2.06	0.55
1:AA:1318:A:H2'	1:AA:1319:A:H5'	1.88	0.55
3:AC:35:GLU:OE2	3:AC:59:ARG:NH1	2.39	0.55
4:AD:155:LEU:O	4:AD:156:GLU:C	2.49	0.55
5:AE:139:LEU:C	5:AE:141:GLN:H	2.14	0.55
6:AF:15:ASP:C	6:AF:17:SER:N	2.61	0.55
7:AG:121:ALA:O	7:AG:125:MET:HG3	2.07	0.55
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.72	0.55
19:AS:43:GLU:HB2	19:AS:44:MET:SD	2.46	0.55
22:AV:17:C:C6	22:AV:17(A):U:C5	2.92	0.55
22:AW:16:C:H3'	22:AW:17:C:O2	2.06	0.55
24:AY:252:ASP:N	24:AY:252:ASP:OD2	2.39	0.55
24:AY:417:THR:O	24:AY:419:ALA:N	2.40	0.55
24:AY:553:GLY:HA2	24:AY:560:VAL:HG23	1.89	0.55
24:AY:624:LEU:HD11	24:AY:655:TYR:OH	2.06	0.55
24:AY:662:LYS:HZ2	42:BH:175:LYS:HD2	1.71	0.55
30:B5:27:PRO:CG	55:BW:23:LEU:HD11	2.35	0.55
34:B9:31:LYS:HD3	35:BA:2478:A:OP1	2.06	0.55
35:BA:55:G:H2'	35:BA:56:A:C8	2.41	0.55
35:BA:252:G:O2'	35:BA:253:C:H5'	2.06	0.55
35:BA:962:G:H2'	35:BA:963:U:O4'	2.07	0.55
35:BA:1115:G:H2'	35:BA:1116:C:C6	2.41	0.55
35:BA:1141:U:H5''	46:BN:63:THR:HG23	1.88	0.55
35:BA:1751:C:O2'	35:BA:1752:C:H5'	2.07	0.55
35:BA:2170:A:H5''	37:BC:135:ARG:HH21	1.70	0.55
35:BA:2562:U:H1'	47:BO:23:ARG:NH1	2.16	0.55
35:BA:2657:A:H2'	35:BA:2658:C:C5'	2.37	0.55
35:BA:2713:A:C3'	35:BA:2714:G:C5'	2.84	0.55
36:BB:20:C:H2'	36:BB:21:G:C5'	2.36	0.55
39:BE:34:VAL:HG11	39:BE:78:LEU:CD2	2.37	0.55
40:BF:174:VAL:HG21	40:BF:189:THR:HG21	1.88	0.55
41:BG:38:VAL:HG22	41:BG:93:THR:HG23	1.89	0.55
52:BT:25:GLY:HA2	52:BT:92:GLY:HA2	1.87	0.55
54:BV:49:THR:HB	54:BV:50:PRO:CD	2.37	0.55
57:BY:13:VAL:O	57:BY:24:VAL:HA	2.07	0.55
57:BY:39:VAL:HG12	57:BY:40:GLU:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:14:LYS:O	58:BZ:18:LEU:HD13	2.06	0.55
58:BZ:115:GLY:HA2	58:BZ:177:PRO:HG3	1.88	0.55
58:BZ:129:SER:C	58:BZ:131:ARG:H	2.14	0.55
1:CA:505:G:H2'	1:CA:506:G:C8	2.41	0.55
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.06	0.55
4:CD:159:ARG:HG3	4:CD:159:ARG:HH11	1.71	0.55
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.55	0.55
5:CE:91:LEU:HD13	5:CE:120:THR:HG22	1.87	0.55
10:CJ:18:ALA:O	10:CJ:20:ALA:N	2.36	0.55
13:CM:106:ASN:O	13:CM:107:ALA:HB3	2.05	0.55
19:CS:46:GLY:O	19:CS:48:THR:N	2.39	0.55
35:DA:67:U:H2'	35:DA:68:G:H8	1.71	0.55
35:DA:510:C:OP1	35:DA:510:C:H3'	2.05	0.55
35:DA:936:C:H2'	35:DA:937:U:H6	1.70	0.55
35:DA:1084:A:OP1	43:DJ:55:UNK:HA	2.07	0.55
35:DA:1151:G:H5''	53:DU:81:HIS:CE1	2.41	0.55
35:DA:1491:G:N2	35:DA:1492:G:H1'	2.21	0.55
36:DB:22:U:H2'	36:DB:23:G:C8	2.42	0.55
38:DD:26:LYS:HE2	38:DD:26:LYS:HA	1.87	0.55
39:DE:63:LEU:O	39:DE:64:LYS:C	2.49	0.55
40:DF:157:VAL:HG22	40:DF:194:MET:HA	1.88	0.55
44:DK:112:MET:N	44:DK:113:PRO:HD2	2.20	0.55
50:DR:103:ARG:HD2	55:DW:40:ASN:HD21	1.71	0.55
52:DT:132:LYS:HG2	52:DT:133:GLU:H	1.71	0.55
54:DV:39:LEU:N	54:DV:39:LEU:HD22	2.22	0.55
58:DZ:17:ALA:CA	58:DZ:20:ARG:HG2	2.36	0.55
1:AA:663:A:O2'	1:AA:664:G:H5'	2.07	0.55
1:AA:759:A:H2'	1:AA:760:G:H5'	1.87	0.55
1:AA:942:G:H21	9:AI:124:GLN:HE22	1.52	0.55
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.35	0.55
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.41	0.55
4:AD:9:CYS:HB3	4:AD:32:ALA:HB2	1.89	0.55
9:AI:3:GLN:NE2	9:AI:20:ARG:NH2	2.55	0.55
12:AL:70:ILE:HG21	12:AL:77:LEU:CD1	2.37	0.55
17:AQ:44:ALA:HA	17:AQ:71:PHE:O	2.07	0.55
24:AY:64:THR:C	24:AY:66:THR:H	2.14	0.55
27:B2:20:GLU:HG3	27:B2:21:LEU:N	2.22	0.55
29:B4:48:ARG:O	29:B4:49:PHE:CD1	2.59	0.55
31:B6:15:GLU:OE2	31:B6:44:ARG:CZ	2.55	0.55
31:B6:16:CYS:O	31:B6:17:LYS:HB2	2.06	0.55
34:B9:4:ARG:HH12	35:BA:2477:C:N4	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:82:G:C5'	35:BA:296:C:H5'	2.35	0.55
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.42	0.55
35:BA:674:G:C1'	40:BF:74:ARG:HD3	2.37	0.55
35:BA:1258:C:O4'	40:BF:84:VAL:HG21	2.06	0.55
36:BB:104:U:O3'	58:BZ:72:ARG:NH1	2.39	0.55
38:BD:176:ARG:HH11	38:BD:176:ARG:CG	2.19	0.55
39:BE:38:THR:CB	39:BE:41:LYS:HG2	2.34	0.55
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.40	0.55
40:BF:185:ASP:HA	40:BF:188:ARG:CD	2.36	0.55
43:BJ:13:UNK:C	43:BJ:15:UNK:N	2.66	0.55
47:BO:47:ILE:O	47:BO:48:PRO:O	2.24	0.55
49:BQ:11:LYS:NZ	49:BQ:88:GLY:O	2.40	0.55
57:BY:3:VAL:HG12	57:BY:3:VAL:O	2.07	0.55
57:BY:90:LEU:HD12	57:BY:91:GLU:OE2	2.05	0.55
1:CA:651:C:H2'	1:CA:652:U:C6	2.41	0.55
1:CA:728:A:H2'	1:CA:729:A:C8	2.42	0.55
1:CA:1113:C:H2'	1:CA:1114:C:H6	1.71	0.55
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.41	0.55
2:CB:235:SER:O	2:CB:237:ALA:N	2.29	0.55
3:CC:164:ARG:NH2	3:CC:166:GLU:OE1	2.39	0.55
3:CC:167:TRP:O	3:CC:168:ALA:HB3	2.06	0.55
5:CE:107:ARG:HG2	5:CE:108:ALA:N	2.19	0.55
8:CH:41:ARG:NH2	8:CH:123:GLU:CD	2.64	0.55
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.72	0.55
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.40	0.55
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.20	0.55
20:CT:26:ASN:O	20:CT:30:LYS:HB2	2.07	0.55
24:CY:182:ARG:O	24:CY:184:LYS:N	2.40	0.55
25:D0:25:ARG:HD2	25:D0:29:GLN:HE21	1.71	0.55
35:DA:120:U:O2'	35:DA:149:A:C8	2.56	0.55
35:DA:250:G:H2'	35:DA:251:A:C8	2.42	0.55
35:DA:675:A:OP1	40:DF:63:LYS:HE2	2.06	0.55
35:DA:941:A:H4'	48:DP:35:HIS:HE1	1.71	0.55
35:DA:1678:G:H22	35:DA:1989:G:H22	1.50	0.55
35:DA:2291:U:H2'	35:DA:2292:C:H6	1.68	0.55
37:DC:128:LEU:CD2	37:DC:132:LEU:HD12	2.37	0.55
38:DD:146:GLU:HB2	38:DD:189:CYS:HB3	1.88	0.55
39:DE:93:VAL:HG12	39:DE:175:VAL:HG21	1.89	0.55
40:DF:69:HIS:CD2	40:DF:69:HIS:N	2.73	0.55
40:DF:206:ILE:HG22	40:DF:207:GLY:N	2.22	0.55
48:DP:47:ASP:HB2	48:DP:51:PHE:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:112:LEU:H	48:DP:128:HIS:CD2	2.24	0.55
49:DQ:116:GLU:O	49:DQ:120:ILE:HG12	2.06	0.55
50:DR:83:ILE:O	50:DR:87:TYR:HE2	1.89	0.55
51:DS:101:LEU:HD12	51:DS:101:LEU:C	2.30	0.55
52:DT:106:SER:C	52:DT:107:ASP:OD1	2.49	0.55
57:DY:3:VAL:O	57:DY:3:VAL:HG12	2.06	0.55
57:DY:13:VAL:O	57:DY:24:VAL:HA	2.06	0.55
58:DZ:10:ARG:CD	58:DZ:36:LYS:HE2	2.24	0.55
58:DZ:64:GLY:O	58:DZ:65:GLN:C	2.49	0.55
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.07	0.55
1:AA:1342:C:H1'	9:AI:124:GLN:HG3	1.88	0.55
4:AD:26:CYS:O	4:AD:31:CYS:HB2	2.07	0.55
9:AI:79:LEU:O	9:AI:80:GLY:C	2.49	0.55
9:AI:82:ALA:HA	9:AI:85:LEU:HD11	1.89	0.55
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.06	0.55
13:AM:33:ALA:HA	13:AM:59:TYR:HE2	1.70	0.55
13:AM:56:LEU:C	13:AM:56:LEU:HD13	2.31	0.55
24:AY:390:VAL:HG23	24:AY:391:GLY:O	2.07	0.55
24:AY:528:ALA:HB3	24:AY:567:LEU:O	2.07	0.55
26:B1:18:ILE:CD1	26:B1:37:ILE:HG12	2.36	0.55
31:B6:27:LYS:NZ	31:B6:30:THR:HB	2.21	0.55
33:B8:23:VAL:CG1	33:B8:46:ARG:HH11	2.19	0.55
35:BA:28:A:H62	35:BA:512:G:H1'	1.72	0.55
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	2.06	0.55
35:BA:705:A:N1	35:BA:727:A:H1'	2.22	0.55
35:BA:790:C:H5'	35:BA:791:C:OP2	2.07	0.55
38:BD:161:THR:O	38:BD:162:SER:HB3	2.06	0.55
40:BF:157:VAL:HG22	40:BF:194:MET:HA	1.89	0.55
41:BG:49:ASP:O	41:BG:50:ALA:HB3	2.06	0.55
42:BH:124:GLU:CG	42:BH:132:ARG:HG3	2.36	0.55
47:BO:60:ALA:HA	47:BO:87:ILE:HD13	1.89	0.55
47:BO:115:VAL:CG1	47:BO:121:VAL:HG21	2.37	0.55
48:BP:48:PRO:O	48:BP:50:ARG:N	2.39	0.55
49:BQ:59:ARG:CA	58:BZ:180:VAL:HG23	2.35	0.55
51:BS:49:VAL:HG21	51:BS:77:ALA:HB2	1.88	0.55
53:BU:66:ASN:ND2	53:BU:76:TYR:H	2.05	0.55
54:BV:54:GLY:O	54:BV:55:ALA:HB2	2.07	0.55
1:CA:93:G:O2'	1:CA:96:U:H5'	2.05	0.55
1:CA:261:U:H2'	1:CA:263:A:OP2	2.06	0.55
1:CA:1294:G:C2'	1:CA:1295:G:H5'	2.36	0.55
3:CC:62:ASP:O	3:CC:64:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:126:ARG:HB2	3:CC:128:PHE:CE2	2.41	0.55
4:CD:8:VAL:C	4:CD:10:ARG:H	2.14	0.55
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.64	0.55
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.50	0.55
12:CL:27:LEU:C	12:CL:29:GLY:N	2.64	0.55
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.07	0.55
19:CS:5:LEU:HG	19:CS:10:PHE:CD1	2.41	0.55
24:CY:77:HIS:CD2	24:CY:277:VAL:HG21	2.41	0.55
24:CY:550:MET:HE3	24:CY:563:ILE:HD11	1.88	0.55
26:D1:84:GLY:O	26:D1:85:LEU:C	2.49	0.55
30:D5:3:LYS:HG2	35:DA:747:U:O4	2.06	0.55
30:D5:50:GLY:HA2	30:D5:56:LYS:HB3	1.88	0.55
31:D6:9:LEU:HD12	31:D6:28:ARG:CG	2.36	0.55
31:D6:9:LEU:HD22	31:D6:9:LEU:C	2.32	0.55
33:D8:23:VAL:CG1	33:D8:46:ARG:HH11	2.19	0.55
35:DA:82:G:H5''	35:DA:296:C:C5'	2.33	0.55
35:DA:883:G:O2'	35:DA:884:C:H5'	2.07	0.55
35:DA:958:U:H5'	49:DQ:14:ARG:NH1	2.21	0.55
35:DA:1477:A:H5'	35:DA:1478:G:OP2	2.07	0.55
35:DA:1539:G:H2'	35:DA:1540:U:O4'	2.07	0.55
35:DA:1669:A:H2'	35:DA:1670:C:H5'	1.88	0.55
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.05	0.55
36:DB:7:G:C3'	36:DB:8:U:H5''	2.36	0.55
39:DE:34:VAL:HG12	39:DE:48:GLN:O	2.06	0.55
40:DF:7:TYR:HD2	40:DF:16:GLY:CA	2.14	0.55
41:DG:18:GLU:OE2	41:DG:18:GLU:HA	2.06	0.55
41:DG:37:VAL:O	41:DG:94:LEU:HB2	2.07	0.55
42:DH:173:PRO:O	42:DH:175:LYS:N	2.40	0.55
47:DO:63:VAL:O	47:DO:64:ARG:HG2	2.07	0.55
51:DS:93:LYS:O	51:DS:94:TYR:C	2.49	0.55
52:DT:55:ASN:HD22	52:DT:58:ASN:ND2	2.04	0.55
54:DV:66:ARG:CZ	54:DV:88:ARG:HH21	2.19	0.55
57:DY:13:VAL:HG22	57:DY:14:LEU:H	1.71	0.55
1:AA:936:C:O2'	1:AA:937:A:H5'	2.07	0.55
1:AA:1308:U:H5''	13:AM:98:VAL:CG2	2.35	0.55
2:AB:12:GLU:HA	2:AB:16:HIS:CG	2.42	0.55
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.25	0.55
3:AC:126:ARG:HB2	3:AC:128:PHE:CE2	2.42	0.55
5:AE:79:GLU:HB3	5:AE:93:PRO:HD2	1.89	0.55
7:AG:64:GLN:HG3	7:AG:128:ALA:HB1	1.88	0.55
9:AI:7:THR:O	9:AI:83:ARG:HD2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:406:GLU:HB3	24:AY:407:PRO:CD	2.35	0.55
24:AY:687:LEU:O	24:AY:689:LYS:N	2.40	0.55
26:B1:68:PRO:O	26:B1:70:VAL:N	2.39	0.55
30:B5:3:LYS:NZ	35:BA:2613:U:C2'	2.70	0.55
35:BA:1156:A:C2'	35:BA:1157:G:OP1	2.55	0.55
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.89	0.55
35:BA:2247:A:O2'	35:BA:2248:C:H5'	2.06	0.55
35:BA:2543:G:N3	35:BA:2765:A:H2'	2.22	0.55
37:BC:92:ALA:HB2	37:BC:154:ILE:HD13	1.87	0.55
38:BD:241:PRO:O	38:BD:242:ARG:CB	2.54	0.55
39:BE:77:ILE:HG22	39:BE:78:LEU:HD12	1.89	0.55
39:BE:77:ILE:C	39:BE:78:LEU:HG	2.31	0.55
41:BG:109:VAL:HG11	41:BG:142:PRO:HD3	1.88	0.55
48:BP:67:MET:O	48:BP:68:GLN:HG3	2.07	0.55
48:BP:102:ARG:NH2	48:BP:102:ARG:CB	2.69	0.55
51:BS:36:TYR:O	51:BS:37:ALA:HB2	2.07	0.55
51:BS:93:LYS:O	51:BS:94:TYR:C	2.49	0.55
53:BU:59:ARG:O	53:BU:62:ILE:N	2.40	0.55
54:BV:32:THR:OG1	54:BV:60:GLU:HG3	2.07	0.55
57:BY:13:VAL:HG22	57:BY:14:LEU:H	1.71	0.55
1:CA:474:G:H2'	1:CA:475:G:C8	2.40	0.55
1:CA:693:G:C6	23:CX:13:A:H1'	2.42	0.55
1:CA:961:U:O2	1:CA:983:A:H2'	2.06	0.55
1:CA:1152:A:H5''	10:CJ:13:HIS:HD2	1.72	0.55
16:CP:75:ARG:O	16:CP:78:GLY:N	2.39	0.55
33:D8:8:LYS:HE3	35:DA:245:G:O6	2.07	0.55
35:DA:271(B):C:O2'	35:DA:271(C):C:H5'	2.07	0.55
35:DA:271(F):C:O2'	35:DA:271(G):C:H5'	2.05	0.55
35:DA:389:G:N1	48:DP:71:VAL:HG12	2.21	0.55
35:DA:1907:G:O2'	35:DA:1908:C:H5'	2.06	0.55
35:DA:2543:G:N3	35:DA:2765:A:H2'	2.22	0.55
36:DB:103:G:H5''	36:DB:104:U:OP2	2.05	0.55
36:DB:114:C:H2'	36:DB:115:G:C8	2.42	0.55
37:DC:190:ILE:O	37:DC:194:ILE:HG12	2.07	0.55
40:DF:81:PRO:C	40:DF:83:PHE:H	2.15	0.55
41:DG:111:LEU:HB3	41:DG:117:PHE:CE2	2.41	0.55
42:DH:68:THR:O	42:DH:72:ILE:HG12	2.06	0.55
52:DT:29:ARG:HG2	52:DT:85:LYS:CA	2.37	0.55
54:DV:61:VAL:HG22	54:DV:63:GLY:H	1.72	0.55
56:DX:10:ALA:HB1	56:DX:11:PRO:HD2	1.89	0.55
1:AA:300:A:H2'	1:AA:301:G:O4'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.42	0.55
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.89	0.55
2:AB:31:TYR:O	2:AB:42:ILE:HG13	2.07	0.55
2:AB:97:TRP:CH2	2:AB:176:GLU:CD	2.85	0.55
3:AC:142:MET:HE1	3:AC:171:GLY:HA3	1.89	0.55
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.89	0.55
10:AJ:78:ASN:O	10:AJ:82:ILE:HG12	2.06	0.55
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.22	0.55
22:AW:41:C:O2'	22:AW:42:C:H5'	2.07	0.55
24:AY:282:SER:C	24:AY:284:LEU:H	2.14	0.55
29:B4:53:GLU:OE1	29:B4:55:ARG:HD3	2.06	0.55
35:BA:84:A:C5'	57:BY:9:LYS:HZ2	2.18	0.55
35:BA:221:A:H4'	35:BA:222:A:O5'	2.07	0.55
35:BA:271(B):C:O2'	35:BA:271(C):C:H5'	2.07	0.55
35:BA:768:G:H2'	35:BA:769:G:H8	1.72	0.55
35:BA:811:U:O2'	35:BA:812:C:H5''	2.05	0.55
35:BA:845:G:H8	35:BA:845:G:OP2	1.89	0.55
35:BA:1047:G:N2	35:BA:1110:G:H1'	2.21	0.55
35:BA:1274:A:N3	35:BA:1297:C:H1'	2.21	0.55
35:BA:1316:U:O2'	35:BA:1317:A:H5'	2.06	0.55
35:BA:1336:A:P	56:BX:64:LYS:HE3	2.46	0.55
35:BA:1506:C:H2'	35:BA:1506:C:O2	2.06	0.55
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.42	0.55
35:BA:1759:A:H5'	35:BA:2715:C:H1'	1.89	0.55
35:BA:1858:G:H2'	35:BA:1883:G:H22	1.71	0.55
35:BA:2132:U:C5	37:BC:6:LYS:HD2	2.41	0.55
35:BA:2512:C:H2'	35:BA:2513:G:O4'	2.07	0.55
37:BC:149:ASN:HD21	37:BC:153:ILE:HD11	1.72	0.55
41:BG:144:ILE:HD11	41:BG:149:VAL:HB	1.89	0.55
41:BG:165:THR:O	41:BG:167:GLU:N	2.40	0.55
49:BQ:97:VAL:HG11	49:BQ:103:MET:CE	2.26	0.55
50:BR:7:GLY:O	50:BR:8:ARG:CB	2.54	0.55
50:BR:48:VAL:O	50:BR:49:ASP:C	2.49	0.55
58:BZ:56:VAL:HG12	58:BZ:57:ILE:N	2.22	0.55
1:CA:54:C:H2'	1:CA:352:C:N4	2.21	0.55
1:CA:179:A:H2'	1:CA:180:U:H6	1.68	0.55
1:CA:509:A:C2	1:CA:510:A:C2	2.95	0.55
1:CA:658:G:H2'	1:CA:659:U:C6	2.42	0.55
1:CA:796:C:O2	1:CA:796:C:H2'	2.07	0.55
1:CA:1166:G:H5'	1:CA:1168:A:OP2	2.07	0.55
1:CA:1318:A:O3'	19:CS:10:PHE:CD2	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:223:ILE:HG12	2:CB:226:ARG:NH1	2.22	0.55
6:CF:15:ASP:C	6:CF:17:SER:N	2.62	0.55
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.72	0.55
19:CS:65:ASN:HA	29:D4:48:ARG:NH2	2.21	0.55
20:CT:49:ALA:CB	20:CT:99:LEU:HG	2.36	0.55
22:CV:1:C:H2'	22:CV:2:G:C8	2.42	0.55
24:CY:111:SER:O	24:CY:113:GLY:N	2.39	0.55
24:CY:427:ALA:HB1	24:CY:466:LEU:HD11	1.88	0.55
24:CY:491:VAL:HG21	24:CY:597:GLY:HA2	1.87	0.55
29:D4:9:LEU:HD13	29:D4:26:SER:O	2.07	0.55
35:DA:752:A:O2'	35:DA:753:C:OP2	2.21	0.55
35:DA:1141:U:H5''	46:DN:63:THR:CG2	2.36	0.55
35:DA:1668:A:N6	35:DA:1676:A:H61	2.05	0.55
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.41	0.55
35:DA:2532:G:H2'	35:DA:2533:A:O4'	2.07	0.55
35:DA:2552:U:O2	35:DA:2554:U:H5'	2.07	0.55
35:DA:2733:A:O2'	35:DA:2734:A:H5'	2.07	0.55
36:DB:68:C:H2'	36:DB:69:G:O4'	2.07	0.55
37:DC:213:VAL:CG1	37:DC:225:ILE:HD11	2.37	0.55
39:DE:111:ARG:CZ	50:DR:2:ARG:HH21	2.20	0.55
40:DF:8:GLN:NE2	40:DF:9:ILE:HB	2.21	0.55
40:DF:10:PRO:HG2	40:DF:13:SER:OG	2.06	0.55
40:DF:25:PRO:HG3	40:DF:119:ARG:CB	2.36	0.55
40:DF:140:LEU:O	40:DF:143:ALA:HB3	2.06	0.55
40:DF:161:GLU:O	40:DF:165:ARG:HG3	2.06	0.55
41:DG:37:VAL:HG22	41:DG:159:VAL:HA	1.88	0.55
42:DH:157:TYR:CE1	42:DH:171:LEU:HD21	2.24	0.55
46:DN:46:VAL:CG1	46:DN:47:ALA:H	2.13	0.55
48:DP:107:LYS:O	48:DP:107:LYS:HG3	2.07	0.55
56:DX:8:ILE:H	56:DX:8:ILE:CD1	2.17	0.55
57:DY:86:ARG:HB3	57:DY:88:LYS:NZ	2.21	0.55
1:AA:38:G:C2	1:AA:397:A:C2	2.94	0.55
1:AA:628:G:O2'	1:AA:629:G:H5'	2.07	0.55
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.41	0.55
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.88	0.55
3:AC:62:ASP:O	3:AC:64:VAL:HG23	2.07	0.55
19:AS:33:THR:HG22	19:AS:49:ILE:HG22	1.87	0.55
19:AS:72:GLY:O	19:AS:74:PHE:N	2.40	0.55
24:AY:18:ALA:HA	24:AY:85:PRO:HG2	1.88	0.55
24:AY:35:TYR:HE1	24:AY:269:VAL:HB	1.70	0.55
24:AY:105:ILE:HD12	24:AY:105:ILE:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:156:ARG:HB2	24:AY:157:LEU:HD23	1.88	0.55
26:B1:80:LEU:HB3	26:B1:82:LEU:HD11	1.88	0.55
31:B6:16:CYS:SG	31:B6:48:VAL:CG2	2.95	0.55
34:B9:19:ARG:HB2	35:BA:2756:U:H5'	1.89	0.55
35:BA:27:G:HO2'	35:BA:28:A:H8	1.52	0.55
35:BA:612:C:H2'	35:BA:613:G:C5'	2.15	0.55
35:BA:1044:G:O2'	35:BA:1045:A:H5''	2.07	0.55
35:BA:1212:G:O2'	35:BA:1236:G:N2	2.39	0.55
35:BA:1301:A:H2'	35:BA:1302:A:H3'	1.88	0.55
35:BA:1437:C:H2'	35:BA:1438:U:C6	2.42	0.55
35:BA:2051:A:H4'	39:BE:141:ILE:CD1	2.37	0.55
35:BA:2792:G:H2'	35:BA:2792:G:N3	2.22	0.55
37:BC:138:LEU:HD13	37:BC:138:LEU:C	2.32	0.55
38:BD:166:GLN:HA	38:BD:166:GLN:NE2	2.21	0.55
38:BD:200:ASP:O	38:BD:201:HIS:C	2.50	0.55
40:BF:206:ILE:HG22	40:BF:207:GLY:N	2.21	0.55
42:BH:68:THR:C	42:BH:70:THR:H	2.15	0.55
46:BN:30:ILE:HG22	46:BN:34:LEU:CD2	2.37	0.55
47:BO:9:GLU:HA	47:BO:9:GLU:OE1	2.06	0.55
49:BQ:53:ALA:HA	49:BQ:56:ARG:HB2	1.89	0.55
52:BT:60:THR:HG22	52:BT:77:PRO:HA	1.89	0.55
56:BX:61:GLY:HA3	56:BX:73:ARG:O	2.07	0.55
58:BZ:80:ARG:O	58:BZ:81:ARG:O	2.25	0.55
1:CA:188:C:H2'	1:CA:189:G:C8	2.42	0.55
1:CA:1030(C):G:H2'	1:CA:1030(D):A:H8	1.71	0.55
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.36	0.55
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.42	0.55
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.88	0.55
1:CA:1351:U:O4'	7:CG:33:ASP:HB3	2.07	0.55
4:CD:26:CYS:O	4:CD:31:CYS:HB2	2.07	0.55
12:CL:39:VAL:HB	12:CL:57:LYS:HB2	1.89	0.55
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.37	0.55
19:CS:44:MET:HB3	19:CS:47:HIS:HD2	1.72	0.55
24:CY:415:PRO:O	24:CY:416:LYS:C	2.50	0.55
26:D1:61:ARG:HB3	26:D1:61:ARG:NH1	2.22	0.55
35:DA:82:G:C5'	35:DA:296:C:H5'	2.34	0.55
38:DD:35:LYS:HG2	38:DD:63:ARG:HG3	1.89	0.55
39:DE:119:ARG:HG2	39:DE:160:TYR:HB2	1.88	0.55
42:DH:41:MET:O	42:DH:42:ARG:CB	2.54	0.55
42:DH:68:THR:O	42:DH:70:THR:N	2.40	0.55
42:DH:124:GLU:CG	42:DH:132:ARG:HG3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:36:TYR:N	51:DS:36:TYR:CD1	2.75	0.55
52:DT:99:LEU:HB2	52:DT:101:PHE:CE1	2.42	0.55
55:DW:1:MET:CE	55:DW:2:GLU:H	2.20	0.55
56:DX:12:VAL:O	56:DX:13:LEU:HB2	2.07	0.55
1:AA:820:U:H4'	1:AA:821:G:OP2	2.07	0.55
1:AA:945:G:C2	1:AA:946:A:C8	2.94	0.55
1:AA:1300:G:O2'	1:AA:1301:U:P	2.64	0.55
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.07	0.55
2:AB:223:ILE:HG12	2:AB:226:ARG:NH1	2.22	0.55
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.10	0.55
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.70	0.55
6:AF:4:TYR:HE1	6:AF:92:LYS:HD2	1.71	0.55
6:AF:71:ARG:HG3	6:AF:71:ARG:NH1	2.20	0.55
16:AP:50:LYS:HG2	16:AP:51:VAL:H	1.71	0.55
18:AR:74:ARG:HD3	18:AR:81:PHE:HD2	1.71	0.55
24:AY:22:ASP:O	62:AY:703:GDP:H5'	2.07	0.55
24:AY:86:GLY:O	24:AY:88:VAL:N	2.37	0.55
24:AY:326:THR:O	24:AY:328:ILE:HG23	2.07	0.55
35:BA:15:G:O2'	35:BA:16:G:H5'	2.06	0.55
35:BA:1092:C:H2'	35:BA:1093:G:H8	1.72	0.55
35:BA:1102:C:H2'	35:BA:1103:A:H8	1.72	0.55
35:BA:1205:U:C5	40:BF:171:PRO:HA	2.42	0.55
35:BA:1332:G:N2	35:BA:1609:A:H3'	2.22	0.55
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.07	0.55
35:BA:2336:A:N3	35:BA:2385:C:H1'	2.22	0.55
39:BE:93:VAL:C	39:BE:95:ILE:N	2.63	0.55
40:BF:161:GLU:O	40:BF:165:ARG:HG3	2.06	0.55
46:BN:15:LEU:HD13	46:BN:16:ILE:N	2.21	0.55
48:BP:30:THR:O	48:BP:33:ARG:N	2.27	0.55
48:BP:146:VAL:HG22	48:BP:147:LEU:N	2.12	0.55
53:BU:106:PHE:O	53:BU:109:LEU:N	2.40	0.55
57:BY:67:LEU:HD11	57:BY:71:LYS:HE2	1.87	0.55
1:CA:241:C:O2'	1:CA:242:C:H5'	2.07	0.55
1:CA:395:C:O3'	24:CY:349:LYS:NZ	2.39	0.55
1:CA:1346:A:N6	1:CA:1374:A:H3'	2.21	0.55
1:CA:1431:C:C2'	1:CA:1432:G:H5'	2.37	0.55
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.89	0.55
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.21	0.55
13:CM:6:GLY:O	13:CM:8:GLU:N	2.40	0.55
24:CY:96:ARG:HG3	24:CY:403:GLU:OE2	2.07	0.55
24:CY:177:ILE:C	24:CY:178:ILE:HD12	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:309:LEU:O	24:CY:390:VAL:HG12	2.07	0.55
31:D6:7:ILE:O	31:D6:27:LYS:HD3	2.07	0.55
35:DA:58:G:H1	35:DA:69:C:H42	1.53	0.55
35:DA:438:G:O2'	35:DA:440:G:H5'	2.07	0.55
35:DA:654(L):G:H2'	35:DA:654(M):C:H4'	1.88	0.55
35:DA:1047:G:N2	35:DA:1110:G:H1'	2.21	0.55
35:DA:2679:A:H4'	39:DE:165:VAL:HG11	1.89	0.55
35:DA:2746:U:O2'	35:DA:2747:G:H5'	2.06	0.55
35:DA:2818:G:O2'	35:DA:2837:G:H5'	2.07	0.55
41:DG:10:LYS:HE3	41:DG:14:GLU:OE2	2.06	0.55
41:DG:60:LEU:HD22	41:DG:63:ILE:CD1	2.36	0.55
42:DH:127:GLU:HB3	42:DH:128:PRO:HD2	1.89	0.55
46:DN:15:LEU:HD13	46:DN:16:ILE:N	2.22	0.55
47:DO:52:VAL:O	47:DO:53:LYS:HG3	2.07	0.55
48:DP:108:LYS:N	48:DP:108:LYS:HD2	2.22	0.55
48:DP:127:ALA:HB3	48:DP:130:PHE:CZ	2.42	0.55
48:DP:127:ALA:O	48:DP:148:LEU:HD11	2.06	0.55
50:DR:45:ARG:CG	50:DR:46:GLY:H	2.15	0.55
52:DT:27:THR:OG1	52:DT:28:VAL:N	2.39	0.55
54:DV:35:LEU:C	54:DV:37:VAL:N	2.63	0.55
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.07	0.54
1:AA:1101:A:H4'	1:AA:1102:A:C4'	2.37	0.54
3:AC:28:GLN:O	3:AC:29:TYR:C	2.50	0.54
3:AC:133:ALA:O	3:AC:137:ALA:HB2	2.06	0.54
5:AE:76:ILE:CG2	5:AE:118:ILE:HD13	2.37	0.54
6:AF:10:LEU:HD12	6:AF:61:LEU:HD13	1.88	0.54
6:AF:37:VAL:HG12	6:AF:38:GLU:O	2.07	0.54
12:AL:60:LEU:N	12:AL:60:LEU:HD22	2.22	0.54
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.07	0.54
19:AS:13:ASP:O	19:AS:15:LEU:N	2.40	0.54
20:AT:13:LEU:O	20:AT:16:HIS:N	2.40	0.54
24:AY:121:VAL:HA	24:AY:124:GLN:HE22	1.72	0.54
35:BA:208:C:H2'	35:BA:209:C:H6	1.72	0.54
35:BA:272(H):C:H6	35:BA:272(H):C:C5'	2.18	0.54
35:BA:359:A:H2'	35:BA:360:G:O4'	2.07	0.54
35:BA:961:C:N4	35:BA:2031:A:H1'	2.22	0.54
35:BA:1245:G:C5'	40:BF:34:TRP:HZ2	2.20	0.54
35:BA:1358:G:O2'	35:BA:1359:A:H5''	2.08	0.54
35:BA:1556:C:H2'	35:BA:1557:C:C6	2.42	0.54
35:BA:2230:G:H2'	35:BA:2231:C:H6	1.72	0.54
35:BA:2820:A:C8	39:BE:191:PRO:HB2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:16:G:N2	36:BB:69:G:H1'	2.22	0.54
36:BB:77:U:O2'	36:BB:78:A:H5'	2.07	0.54
37:BC:11:LEU:O	37:BC:13:GLU:N	2.40	0.54
39:BE:103:ASP:OD2	39:BE:168:MET:HE2	2.06	0.54
52:BT:12:SER:O	52:BT:13:ARG:NH2	2.40	0.54
54:BV:35:LEU:C	54:BV:37:VAL:N	2.64	0.54
55:BW:1:MET:CE	55:BW:2:GLU:H	2.19	0.54
57:BY:96:ILE:CG2	57:BY:99:CYS:HB3	2.37	0.54
2:CB:114:ARG:HD2	2:CB:118:LEU:HG	1.89	0.54
5:CE:10:MET:HG3	5:CE:32:VAL:HG22	1.88	0.54
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.87	0.54
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.07	0.54
16:CP:1:MET:HE2	16:CP:65:GLN:HG3	1.87	0.54
22:CV:37:A:H3'	22:CV:38:A:H8	1.71	0.54
22:CW:76:C:OP1	26:D1:30:VAL:HG21	2.06	0.54
24:CY:539:ILE:HA	24:CY:542:VAL:CG1	2.37	0.54
25:D0:5:LYS:HB2	49:DQ:80:GLU:O	2.07	0.54
26:D1:80:LEU:HD23	26:D1:81:LYS:H	1.70	0.54
35:DA:1661:G:O2'	35:DA:1662:C:H5'	2.07	0.54
35:DA:1683:C:H2'	35:DA:1684:C:C6	2.41	0.54
35:DA:1943:U:O2'	35:DA:1944:U:H3'	2.07	0.54
35:DA:1943:U:O2'	35:DA:1944:U:O5'	2.22	0.54
35:DA:2008:C:H2'	35:DA:2009:G:C8	2.42	0.54
37:DC:14:LYS:O	37:DC:15:VAL:HG13	2.08	0.54
38:DD:241:PRO:O	38:DD:242:ARG:CB	2.55	0.54
39:DE:28:ALA:HB3	39:DE:93:VAL:HG22	1.90	0.54
39:DE:94:GLU:OE2	39:DE:177:PRO:HB3	2.07	0.54
43:DJ:72:UNK:C	43:DJ:74:UNK:N	2.69	0.54
44:DK:6:ALA:O	44:DK:58:THR:HA	2.07	0.54
46:DN:95:PRO:HA	46:DN:98:VAL:HG23	1.88	0.54
47:DO:9:GLU:HA	47:DO:9:GLU:OE1	2.07	0.54
48:DP:45:LEU:HG	48:DP:46:LYS:H	1.70	0.54
51:DS:14:VAL:O	51:DS:15:ARG:C	2.47	0.54
54:DV:38:LEU:H	54:DV:51:VAL:HG13	1.72	0.54
1:AA:961:U:O2	1:AA:983:A:H2'	2.08	0.54
1:AA:1008:C:H2'	1:AA:1009:G:H8	1.71	0.54
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.73	0.54
4:AD:8:VAL:O	4:AD:10:ARG:N	2.34	0.54
5:AE:51:VAL:O	5:AE:55:VAL:HG23	2.07	0.54
8:AH:103:VAL:HG21	8:AH:110:ALA:HB2	1.88	0.54
14:AN:37:PHE:CE1	14:AN:53:LEU:HD22	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:18:ARG:HD3	16:AP:35:LYS:HD2	1.88	0.54
24:AY:65:ILE:HD13	24:AY:65:ILE:H	1.71	0.54
24:AY:359:HIS:O	24:AY:361:ASN:N	2.40	0.54
24:AY:610:VAL:HG12	24:AY:669:PHE:HB3	1.88	0.54
27:B2:69:ARG:HH22	35:BA:111:A:C5'	2.21	0.54
31:B6:6:ARG:C	31:B6:8:LYS:H	2.15	0.54
31:B6:11:LEU:HD22	31:B6:11:LEU:C	2.33	0.54
35:BA:322:A:H5'	35:BA:340:A:H1'	1.89	0.54
35:BA:548:A:C3'	35:BA:549:G:H5'	2.38	0.54
35:BA:1252:G:N3	53:BU:33:ARG:HD2	2.21	0.54
35:BA:1404:C:O2'	35:BA:1405:U:H5'	2.07	0.54
35:BA:1788:C:H2'	35:BA:1789:A:H8	1.71	0.54
35:BA:2532:G:H2'	35:BA:2533:A:O4'	2.07	0.54
38:BD:61:LEU:HB3	38:BD:63:ARG:HH12	1.72	0.54
39:BE:28:ALA:HB3	39:BE:93:VAL:HG22	1.88	0.54
41:BG:63:ILE:CA	41:BG:143:GLU:HG3	2.25	0.54
43:BJ:52:UNK:O	43:BJ:53:UNK:CB	2.54	0.54
46:BN:9:VAL:HG12	46:BN:10:GLU:N	2.22	0.54
47:BO:107:ARG:CA	47:BO:112:MET:HE1	2.35	0.54
48:BP:135:LEU:HD13	48:BP:135:LEU:O	2.06	0.54
52:BT:27:THR:OG1	52:BT:28:VAL:N	2.40	0.54
53:BU:39:LEU:O	53:BU:40:PHE:C	2.48	0.54
54:BV:82:ARG:HD2	54:BV:82:ARG:N	2.23	0.54
57:BY:44:ILE:HG22	57:BY:45:VAL:N	2.18	0.54
58:BZ:63:ASP:OD2	58:BZ:65:GLN:NE2	2.40	0.54
58:BZ:71:VAL:HG13	58:BZ:86:VAL:CG1	2.37	0.54
58:BZ:143:GLY:C	58:BZ:144:LEU:HD22	2.32	0.54
1:CA:1347:G:O2'	1:CA:1348:U:P	2.65	0.54
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.07	0.54
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.38	0.54
4:CD:150:GLU:HG2	4:CD:151:LYS:N	2.22	0.54
9:CI:40:LEU:CD1	9:CI:70:LYS:HG2	2.35	0.54
13:CM:65:LYS:C	13:CM:66:LEU:HD12	2.32	0.54
14:CN:15:LYS:O	14:CN:16:PHE:C	2.50	0.54
15:CO:76:GLU:O	15:CO:78:TYR:N	2.39	0.54
24:CY:282:SER:O	24:CY:284:LEU:N	2.40	0.54
24:CY:603:GLU:OE1	24:CY:648:PRO:HB3	2.07	0.54
34:D9:10:ILE:O	34:D9:11:CYS:HB3	2.06	0.54
35:DA:110:G:O2'	35:DA:111:A:H5'	2.08	0.54
35:DA:135:G:O2'	35:DA:136:G:H5'	2.07	0.54
35:DA:271(K):U:H3'	35:DA:271(L):U:H5''	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:426:C:O2'	35:DA:427:U:H5'	2.06	0.54
35:DA:751:A:C5'	55:DW:90:ARG:HA	2.36	0.54
35:DA:848:G:C2	35:DA:933:A:H1'	2.41	0.54
35:DA:1287:A:N3	35:DA:1287:A:H2'	2.20	0.54
35:DA:1336:A:OP2	56:DX:64:LYS:HE3	2.08	0.54
35:DA:2067:G:H1	35:DA:2443:C:H42	1.55	0.54
35:DA:2839:G:H2'	35:DA:2840:C:C6	2.42	0.54
38:DD:26:LYS:HE2	38:DD:26:LYS:H	1.72	0.54
42:DH:20:ALA:HB1	42:DH:21:PRO:HD2	1.89	0.54
42:DH:86:GLU:HB3	42:DH:132:ARG:HB3	1.88	0.54
42:DH:173:PRO:C	42:DH:175:LYS:N	2.65	0.54
43:DJ:146:UNK:C	43:DJ:148:UNK:N	2.69	0.54
50:DR:7:GLY:C	50:DR:8:ARG:HE	2.14	0.54
1:AA:93:G:O2'	1:AA:96:U:H5'	2.06	0.54
1:AA:264:U:H4'	17:AQ:63:ARG:HD3	1.89	0.54
1:AA:715:A:H2'	1:AA:716:A:H8	1.71	0.54
1:AA:1005:A:H5'	1:AA:1006:C:OP2	2.07	0.54
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.72	0.54
1:AA:1325:C:H2'	1:AA:1326:C:C6	2.42	0.54
2:AB:189:ASP:C	2:AB:191:ASP:H	2.15	0.54
3:AC:46:GLU:O	3:AC:47:LEU:CB	2.54	0.54
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.06	0.54
6:AF:47:ARG:HH11	6:AF:47:ARG:HG2	1.73	0.54
7:AG:140:ASP:O	7:AG:144:MET:HG2	2.07	0.54
13:AM:77:ASN:O	13:AM:80:ARG:N	2.36	0.54
24:AY:286:ILE:HD12	24:AY:286:ILE:N	2.23	0.54
25:B0:51:VAL:HG21	25:B0:79:VAL:O	2.08	0.54
26:B1:85:LEU:O	26:B1:87:PRO:HD2	2.08	0.54
29:B4:19:GLY:O	29:B4:20:ASN:C	2.51	0.54
33:B8:32:LEU:HB3	33:B8:36:LYS:NZ	2.22	0.54
35:BA:110:G:O2'	35:BA:111:A:H5'	2.06	0.54
35:BA:260:G:H1'	35:BA:621:A:H1'	1.89	0.54
35:BA:936:C:H2'	35:BA:937:U:H6	1.70	0.54
35:BA:1902:C:H2'	35:BA:1903:G:O4'	2.06	0.54
35:BA:2245:U:C5'	35:BA:2246:G:H5'	2.33	0.54
37:BC:139:PRO:HA	37:BC:145:THR:CG2	2.37	0.54
37:BC:190:ILE:O	37:BC:194:ILE:HG12	2.06	0.54
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.32	0.54
40:BF:168:ARG:C	40:BF:170:LEU:H	2.16	0.54
42:BH:148:ILE:O	42:BH:151:ILE:HG12	2.07	0.54
44:BK:29:GLN:O	44:BK:59:ILE:HD12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:65:LYS:HA	46:BN:65:LYS:NZ	2.22	0.54
46:BN:109:LYS:H	46:BN:109:LYS:CE	2.21	0.54
48:BP:38:GLN:HG3	48:BP:39:LYS:N	2.12	0.54
51:BS:51:ALA:HB3	51:BS:73:LEU:HD12	1.89	0.54
52:BT:10:VAL:O	52:BT:13:ARG:HG2	2.06	0.54
52:BT:106:SER:O	52:BT:107:ASP:CB	2.55	0.54
53:BU:26:GLY:C	53:BU:28:ARG:H	2.16	0.54
57:BY:91:GLU:O	57:BY:92:ASN:HB2	2.07	0.54
1:CA:663:A:O2'	1:CA:664:G:H5'	2.07	0.54
1:CA:665:A:H2'	1:CA:732:C:O2	2.07	0.54
1:CA:1060:C:H5'	14:CN:45:ARG:NH2	2.23	0.54
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.42	0.54
1:CA:1198:G:H2'	1:CA:1199:U:O4'	2.06	0.54
1:CA:1316:G:N2	1:CA:1318:A:H3'	2.22	0.54
2:CB:44:LEU:HA	2:CB:47:THR:OG1	2.07	0.54
4:CD:153:ARG:HH11	4:CD:153:ARG:HG2	1.73	0.54
8:CH:103:VAL:HG23	8:CH:110:ALA:HB2	1.89	0.54
8:CH:119:LEU:HD12	8:CH:124:ALA:HB2	1.88	0.54
9:CI:4:TYR:CE2	9:CI:59:PHE:HE2	2.26	0.54
24:CY:16:GLY:O	24:CY:104:ALA:CB	2.54	0.54
24:CY:652:MET:HA	24:CY:652:MET:CE	2.29	0.54
25:D0:40:GLN:HE22	25:D0:43:THR:CA	2.19	0.54
26:D1:11:ARG:NH2	35:DA:1365:A:O2'	2.40	0.54
29:D4:12:ALA:HB1	29:D4:29:PRO:HA	1.89	0.54
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	2.32	0.54
30:D5:56:LYS:CG	30:D5:57:VAL:H	2.05	0.54
31:D6:15:GLU:CD	31:D6:44:ARG:CZ	2.80	0.54
35:DA:28:A:H62	35:DA:512:G:H1'	1.72	0.54
35:DA:941:A:H4'	48:DP:35:HIS:CE1	2.42	0.54
35:DA:993:G:OP1	53:DU:50:ARG:HD2	2.07	0.54
35:DA:1301:A:H2'	35:DA:1302:A:H3'	1.88	0.54
35:DA:2657:A:H2'	35:DA:2658:C:C5'	2.35	0.54
35:DA:2777:G:H5''	35:DA:2778:A:H5''	1.88	0.54
36:DB:7:G:H5'	51:DS:29:PHE:CD1	2.41	0.54
39:DE:55:ASN:O	39:DE:57:LYS:N	2.33	0.54
39:DE:69:LYS:O	39:DE:70:ALA:C	2.49	0.54
41:DG:57:ALA:O	41:DG:68:PRO:HG2	2.07	0.54
44:DK:78:ILE:HD13	44:DK:134:MET:SD	2.47	0.54
48:DP:83:VAL:H	48:DP:115:LEU:HD21	1.72	0.54
48:DP:100:LEU:HA	48:DP:103:ALA:HB3	1.87	0.54
49:DQ:35:VAL:HG22	49:DQ:36:ALA:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:48:VAL:O	50:DR:49:ASP:C	2.50	0.54
51:DS:98:VAL:CG1	51:DS:100:ALA:HB2	2.38	0.54
57:DY:15:VAL:O	57:DY:22:GLY:N	2.40	0.54
57:DY:94:LYS:O	57:DY:102:CYS:HB2	2.06	0.54
58:DZ:145:GLU:C	58:DZ:147:GLY:N	2.53	0.54
1:AA:261:U:H2'	1:AA:263:A:OP2	2.08	0.54
1:AA:631:G:H5'	1:AA:631:G:H8	1.71	0.54
1:AA:953:G:O6	1:AA:1228:C:N4	2.39	0.54
1:AA:1378:C:OP1	7:AG:7:ALA:HB3	2.08	0.54
2:AB:9:GLU:N	2:AB:9:GLU:OE2	2.40	0.54
3:AC:128:PHE:O	3:AC:130:VAL:N	2.40	0.54
12:AL:41:ARG:HB3	12:AL:41:ARG:NH1	2.16	0.54
12:AL:41:ARG:HG2	12:AL:42:THR:N	2.18	0.54
17:AQ:59:ILE:HG23	17:AQ:71:PHE:CB	2.34	0.54
24:AY:137:ASN:HD21	24:AY:263:ALA:HB3	1.73	0.54
24:AY:250:THR:HA	24:AY:255:ILE:HG23	1.89	0.54
24:AY:343:ASN:HD21	24:AY:345:THR:CB	2.20	0.54
25:B0:20:ARG:H	25:B0:20:ARG:CD	2.21	0.54
27:B2:55:ARG:O	27:B2:58:ALA:HB3	2.07	0.54
29:B4:19:GLY:O	29:B4:21:VAL:HG23	2.08	0.54
31:B6:53:LYS:HG3	31:B6:54:ILE:HG23	1.89	0.54
35:BA:613:G:H5'	35:BA:613:G:C8	2.43	0.54
35:BA:1196:C:O2'	35:BA:1227:G:H4'	2.07	0.54
35:BA:1344:G:H5'	35:BA:1384:A:C6	2.42	0.54
35:BA:1539:G:H2'	35:BA:1540:U:O4'	2.06	0.54
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.26	0.54
35:BA:2478:A:H2'	35:BA:2479:G:O4'	2.08	0.54
37:BC:185:LYS:O	37:BC:186:LEU:C	2.50	0.54
38:BD:26:LYS:HE2	38:BD:26:LYS:H	1.72	0.54
40:BF:39:TRP:CB	40:BF:101:LEU:HD22	2.37	0.54
47:BO:113:LYS:O	47:BO:117:LEU:HD12	2.07	0.54
50:BR:4:LEU:C	50:BR:6:SER:N	2.64	0.54
57:BY:38:ILE:HG23	57:BY:39:VAL:N	2.23	0.54
1:CA:759:A:H2'	1:CA:760:G:H5'	1.89	0.54
1:CA:1005:A:H5'	1:CA:1006:C:OP2	2.07	0.54
1:CA:1517:G:H1'	35:DA:1919:A:O3'	2.06	0.54
3:CC:46:GLU:HB3	3:CC:83:ARG:HH22	1.71	0.54
3:CC:141:VAL:HG12	3:CC:146:ALA:HB3	1.89	0.54
5:CE:101:ILE:HD11	5:CE:119:LEU:HD22	1.89	0.54
8:CH:9:MET:HE1	8:CH:35:ILE:HB	1.88	0.54
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.08	0.54
15:CO:17:ARG:HH11	15:CO:17:ARG:HG3	1.72	0.54
20:CT:48:LYS:HB3	20:CT:51:GLU:CG	2.37	0.54
23:CX:11:U:H4'	23:CX:12:A:O5'	2.05	0.54
24:CY:192:LEU:HD12	24:CY:194:THR:CG2	2.37	0.54
24:CY:609:GLU:CG	24:CY:670:VAL:HG21	2.38	0.54
24:CY:652:MET:HE2	24:CY:655:TYR:HB2	1.89	0.54
26:D1:40:ARG:HH12	35:DA:2232:U:P	2.30	0.54
32:D7:24:THR:HG23	32:D7:27:GLY:CA	2.37	0.54
35:DA:495:G:H1'	55:DW:57:ASN:OD1	2.07	0.54
35:DA:651:G:H2'	35:DA:652:C:H5'	1.88	0.54
35:DA:1040:C:C4	35:DA:1041:C:C4	2.95	0.54
35:DA:1225:G:H2'	35:DA:1226:A:C8	2.43	0.54
35:DA:1276:A:H1'	50:DR:16:HIS:HE1	1.73	0.54
35:DA:1461:G:O2'	35:DA:1462:C:H5'	2.08	0.54
35:DA:2000:G:O2'	35:DA:2001:A:H5'	2.06	0.54
35:DA:2107:C:H42	35:DA:2182:G:H1	1.56	0.54
35:DA:2122:U:H1'	37:DC:167:ASP:OD2	2.06	0.54
35:DA:2733:A:H2'	35:DA:2734:A:O4'	2.08	0.54
37:DC:11:LEU:O	37:DC:13:GLU:N	2.41	0.54
37:DC:149:ASN:HD21	37:DC:153:ILE:HD11	1.73	0.54
37:DC:185:LYS:O	37:DC:186:LEU:C	2.50	0.54
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.22	0.54
40:DF:204:ASN:C	40:DF:206:ILE:H	2.16	0.54
41:DG:59:GLU:OE2	41:DG:138:GLN:NE2	2.40	0.54
41:DG:145:THR:HG21	41:DG:148:MET:HB2	1.89	0.54
45:DL:15:UNK:C	45:DL:17:UNK:N	2.66	0.54
46:DN:30:ILE:HG22	46:DN:34:LEU:CD2	2.37	0.54
46:DN:55:VAL:HG22	46:DN:56:ASN:H	1.72	0.54
46:DN:58:ASP:C	46:DN:60:ILE:N	2.58	0.54
46:DN:109:LYS:CE	46:DN:109:LYS:H	2.20	0.54
48:DP:108:LYS:C	48:DP:110:TYR:N	2.65	0.54
49:DQ:41:TRP:HE1	49:DQ:96:VAL:HG22	1.71	0.54
50:DR:113:LEU:HD12	50:DR:114:VAL:H	1.72	0.54
51:DS:49:VAL:HG21	51:DS:77:ALA:HB2	1.89	0.54
51:DS:51:ALA:HB3	51:DS:73:LEU:HB2	1.89	0.54
58:DZ:63:ASP:C	58:DZ:65:GLN:H	2.16	0.54
1:AA:129(A):G:H5''	1:AA:129(A):G:C8	2.42	0.54
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.43	0.54
1:AA:539:A:H2'	1:AA:540:G:H8	1.72	0.54
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:O3'	9:AI:14:VAL:HG11	2.06	0.54
4:AD:57:ARG:HH11	4:AD:57:ARG:HG2	1.72	0.54
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.21	0.54
8:AH:7:ALA:HB2	8:AH:85:ARG:HD3	1.89	0.54
8:AH:119:LEU:HD12	8:AH:124:ALA:HB2	1.89	0.54
9:AI:4:TYR:CE2	9:AI:88:TYR:CB	2.90	0.54
9:AI:81:ILE:O	9:AI:85:LEU:HG	2.08	0.54
10:AJ:33:GLN:HB2	10:AJ:75:ILE:HD13	1.89	0.54
13:AM:6:GLY:O	13:AM:8:GLU:N	2.39	0.54
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.71	0.54
19:AS:29:ARG:O	19:AS:31:ILE:N	2.34	0.54
24:AY:264:LEU:HD23	24:AY:264:LEU:C	2.33	0.54
24:AY:601:ILE:HG21	24:AY:687:LEU:HD12	1.88	0.54
24:AY:608:VAL:HG13	24:AY:670:VAL:O	2.08	0.54
27:B2:18:PRO:O	27:B2:19:VAL:C	2.50	0.54
28:B3:31:LEU:O	28:B3:32:GLN:HB2	2.06	0.54
35:BA:71:A:H4'	35:BA:72:U:H5''	1.89	0.54
35:BA:946:G:H2'	35:BA:947:G:C8	2.42	0.54
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.08	0.54
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.08	0.54
35:BA:1947:C:H2'	35:BA:1948:G:C5'	2.32	0.54
35:BA:2291:U:H2'	35:BA:2292:C:H6	1.71	0.54
35:BA:2299:G:O2'	35:BA:2300:G:H5'	2.06	0.54
40:BF:187:VAL:HG12	48:BP:7:ARG:NH2	2.22	0.54
41:BG:5:VAL:O	41:BG:6:ALA:C	2.49	0.54
41:BG:29:TRP:C	41:BG:31:VAL:N	2.64	0.54
46:BN:55:VAL:HG22	46:BN:56:ASN:H	1.72	0.54
46:BN:120:LEU:CD1	46:BN:122:VAL:HG23	2.38	0.54
48:BP:100:LEU:HA	48:BP:103:ALA:HB3	1.89	0.54
55:BW:9:TYR:H	55:BW:102:HIS:CD2	2.26	0.54
58:BZ:145:GLU:O	58:BZ:147:GLY:N	2.40	0.54
1:CA:10:A:H2'	1:CA:11:G:H8	1.72	0.54
1:CA:675:A:O2'	1:CA:676:A:H5'	2.07	0.54
1:CA:956:U:O2'	1:CA:957:U:H5'	2.08	0.54
2:CB:187:LEU:HD23	2:CB:214:ILE:HG21	1.90	0.54
3:CC:59:ARG:CG	3:CC:64:VAL:HA	2.37	0.54
5:CE:100:VAL:O	5:CE:100:VAL:HG23	2.07	0.54
19:CS:72:GLY:C	19:CS:74:PHE:H	2.15	0.54
24:CY:92:ILE:HG13	24:CY:405:PRO:HG2	1.86	0.54
35:DA:16:G:O2'	35:DA:17:G:H5'	2.07	0.54
35:DA:737:C:C2'	35:DA:738:G:H5'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1344:G:H5'	35:DA:1384:A:C6	2.43	0.54
35:DA:1943:U:H4'	35:DA:1944:U:OP1	2.06	0.54
35:DA:2142:C:O2'	35:DA:2143:C:H5'	2.08	0.54
35:DA:2202:C:H2'	38:DD:151:LYS:HZ1	1.71	0.54
38:DD:155:LEU:HD12	38:DD:155:LEU:N	2.22	0.54
40:DF:157:VAL:HG12	40:DF:176:LEU:HD23	1.89	0.54
41:DG:46:ALA:HB2	41:DG:88:ILE:CG1	2.38	0.54
41:DG:129:GLY:O	41:DG:130:ASN:CG	2.51	0.54
47:DO:19:ILE:HD12	47:DO:41:ALA:HB3	1.90	0.54
47:DO:47:ILE:O	47:DO:48:PRO:O	2.26	0.54
1:AA:1030(C):G:H2'	1:AA:1030(D):A:H8	1.71	0.54
1:AA:1166:G:H5'	1:AA:1168:A:OP2	2.07	0.54
1:AA:1226:C:H5''	13:AM:103:THR:CB	2.38	0.54
3:AC:95:THR:O	3:AC:97:LYS:N	2.41	0.54
4:AD:8:VAL:C	4:AD:10:ARG:H	2.14	0.54
9:AI:4:TYR:CE2	9:AI:59:PHE:HE2	2.26	0.54
19:AS:72:GLY:C	19:AS:74:PHE:H	2.14	0.54
24:AY:137:ASN:HD21	24:AY:263:ALA:H	1.55	0.54
26:B1:76:ARG:NH2	26:B1:95:LEU:HD13	2.23	0.54
28:B3:45:GLY:HA3	35:BA:851:U:O2'	2.06	0.54
35:BA:64:A:H2'	35:BA:65:C:C6	2.43	0.54
35:BA:322:A:H3'	40:BF:169:ASN:ND2	2.22	0.54
35:BA:1824:G:OP1	38:BD:52:ARG:HD3	2.07	0.54
35:BA:2189:U:C3'	35:BA:2190:G:H5''	2.37	0.54
35:BA:2577:A:C5'	35:BA:2578:G:H5'	2.37	0.54
35:BA:2749:A:N1	35:BA:2750:A:N6	2.56	0.54
35:BA:2870:C:H2'	35:BA:2871:C:O4'	2.07	0.54
38:BD:77:ALA:CB	38:BD:97:TYR:HA	2.37	0.54
38:BD:213:ARG:C	38:BD:215:LEU:H	2.16	0.54
41:BG:96:ARG:O	41:BG:97:ASP:HB2	2.08	0.54
41:BG:97:ASP:H	41:BG:100:TRP:CD1	2.09	0.54
42:BH:41:MET:HE3	42:BH:42:ARG:C	2.32	0.54
44:BK:41:PHE:C	44:BK:43:ALA:H	2.16	0.54
47:BO:108:GLU:OE2	47:BO:108:GLU:N	2.40	0.54
52:BT:29:ARG:HG2	52:BT:85:LYS:CA	2.38	0.54
53:BU:83:LEU:HD12	53:BU:113:ALA:HB2	1.90	0.54
53:BU:109:LEU:O	53:BU:112:ARG:HB2	2.07	0.54
57:BY:59:GLY:O	57:BY:60:PHE:HB2	2.07	0.54
1:CA:393:A:O2'	1:CA:394:G:H5'	2.07	0.54
1:CA:691:G:H2'	1:CA:692:U:C6	2.43	0.54
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:31:TYR:O	2:CB:42:ILE:HG13	2.08	0.54
4:CD:61:LYS:CE	4:CD:62:GLN:HE21	2.21	0.54
16:CP:4:ILE:HG13	16:CP:64:ALA:HB1	1.90	0.54
19:CS:42:PRO:HB3	29:D4:50:VAL:HG21	1.89	0.54
24:CY:112:GLN:HG3	24:CY:115:GLU:CB	2.37	0.54
24:CY:689:LYS:HG3	24:CY:690:GLY:N	2.22	0.54
26:D1:45:ASN:HB3	26:D1:64:ALA:HB2	1.89	0.54
33:D8:33:ASN:HA	33:D8:36:LYS:HG3	1.88	0.54
35:DA:68:G:H2'	35:DA:69:C:C6	2.43	0.54
35:DA:1493:C:H2'	35:DA:1493:C:O2	2.08	0.54
35:DA:1824:G:OP1	38:DD:52:ARG:HD3	2.08	0.54
35:DA:1972:A:H2'	35:DA:1973:G:H8	1.72	0.54
35:DA:2336:A:N3	35:DA:2385:C:H1'	2.23	0.54
35:DA:2617:C:O2'	35:DA:2618:G:H5'	2.07	0.54
35:DA:2820:A:C8	39:DE:191:PRO:HB2	2.42	0.54
36:DB:66:A:N6	36:DB:108:U:H2'	2.22	0.54
38:DD:27:THR:HG23	38:DD:27:THR:O	2.07	0.54
40:DF:9:ILE:HG12	40:DF:15:SER:N	2.22	0.54
42:DH:68:THR:C	42:DH:70:THR:H	2.15	0.54
46:DN:66:LYS:O	46:DN:67:LEU:HD23	2.08	0.54
48:DP:9:ASN:H	48:DP:10:PRO:CD	2.21	0.54
48:DP:101:VAL:HA	48:DP:107:LYS:H	1.72	0.54
49:DQ:27:VAL:HG12	49:DQ:28:ALA:N	2.21	0.54
52:DT:25:GLY:HA2	52:DT:92:GLY:HA2	1.90	0.54
55:DW:25:ARG:NH2	55:DW:74:ALA:O	2.40	0.54
2:AB:149:LEU:O	2:AB:150:SER:C	2.50	0.54
7:AG:81:GLY:O	7:AG:83:ALA:N	2.40	0.54
7:AG:91:VAL:HG12	7:AG:92:SER:H	1.73	0.54
9:AI:8:GLY:CA	9:AI:79:LEU:HD12	2.36	0.54
13:AM:11:ARG:HG2	13:AM:12:ASN:H	1.73	0.54
13:AM:52:GLU:HA	13:AM:55:ARG:HD3	1.90	0.54
15:AO:9:GLN:HB3	15:AO:13:GLN:NE2	2.21	0.54
17:AQ:45:HIS:CB	17:AQ:65:ILE:HD13	2.37	0.54
18:AR:53:ARG:C	18:AR:55:ARG:N	2.63	0.54
19:AS:44:MET:HB3	19:AS:47:HIS:HD2	1.72	0.54
22:AW:52:C:H3'	22:AW:53:G:H5''	1.89	0.54
22:AW:75:C:O2'	22:AW:76:C:H5'	2.07	0.54
34:B9:29:ASN:HD21	34:B9:32:HIS:CG	2.26	0.54
35:BA:653:A:H5'	35:BA:654:A:OP2	2.08	0.54
35:BA:654(G):C:H2'	35:BA:654(H):G:C8	2.38	0.54
35:BA:1197:G:H2'	35:BA:1198:U:H6	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1943:U:O2'	35:BA:1944:U:H3'	2.08	0.54
35:BA:1972:A:H2'	35:BA:1973:G:H8	1.73	0.54
35:BA:2422:A:H4'	35:BA:2423:U:OP1	2.08	0.54
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.08	0.54
36:BB:35:U:O2	36:BB:35:U:H2'	2.07	0.54
37:BC:26:ALA:O	37:BC:30:VAL:HG23	2.07	0.54
37:BC:73:VAL:CG1	37:BC:158:LYS:HA	2.38	0.54
39:BE:94:GLU:OE2	39:BE:177:PRO:HB3	2.07	0.54
40:BF:10:PRO:HG2	40:BF:13:SER:OG	2.08	0.54
40:BF:176:LEU:HG	40:BF:177:ALA:O	2.07	0.54
40:BF:179:GLU:C	40:BF:181:LEU:H	2.16	0.54
48:BP:16:ARG:CD	48:BP:18:ARG:H	2.10	0.54
52:BT:10:VAL:O	52:BT:11:GLU:C	2.51	0.54
52:BT:106:SER:C	52:BT:107:ASP:OD1	2.51	0.54
53:BU:99:ALA:HB2	53:BU:106:PHE:CE1	2.43	0.54
56:BX:35:THR:HG22	56:BX:37:THR:N	2.14	0.54
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.43	0.54
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.06	0.54
1:CA:1258:G:O2'	1:CA:1259:C:H5'	2.07	0.54
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.08	0.54
7:CG:69:VAL:HG21	7:CG:104:LEU:HD21	1.90	0.54
10:CJ:33:GLN:N	10:CJ:75:ILE:HD11	2.22	0.54
11:CK:20:TYR:HB2	11:CK:31:THR:HG22	1.90	0.54
17:CQ:45:HIS:CB	17:CQ:65:ILE:HD13	2.38	0.54
19:CS:13:ASP:O	19:CS:15:LEU:N	2.40	0.54
19:CS:53:ASN:O	19:CS:55:LYS:N	2.37	0.54
24:CY:309:LEU:HD13	24:CY:334:THR:O	2.07	0.54
24:CY:441:SER:C	24:CY:449:THR:HG23	2.33	0.54
25:D0:78:TYR:N	25:D0:78:TYR:CD1	2.75	0.54
30:D5:55:ARG:HH12	50:DR:33:ARG:CD	2.20	0.54
31:D6:13:CYS:HA	31:D6:50:ARG:O	2.08	0.54
31:D6:27:LYS:O	31:D6:27:LYS:CD	2.54	0.54
35:DA:483:A:H4'	57:DY:49:VAL:HA	1.90	0.54
35:DA:648:G:H2'	35:DA:649:G:H8	1.71	0.54
35:DA:709:U:H2'	35:DA:710:G:C8	2.42	0.54
35:DA:1059:G:H4'	44:DK:115:LEU:HD23	1.88	0.54
35:DA:1654:A:P	50:DR:3:HIS:HB2	2.47	0.54
35:DA:2224:G:H4'	35:DA:2226:C:C2	2.43	0.54
35:DA:2792:G:H2'	35:DA:2792:G:N3	2.23	0.54
35:DA:2861:G:H2'	35:DA:2862:G:H8	1.72	0.54
36:DB:49:C:H2'	36:DB:50:G:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:76:LEU:HD21	37:DC:104:ILE:HD11	1.89	0.54
38:DD:134:ARG:HG2	38:DD:187:GLY:O	2.07	0.54
39:DE:4:ILE:HG13	39:DE:5:LEU:H	1.73	0.54
39:DE:55:ASN:C	39:DE:57:LYS:H	2.16	0.54
41:DG:19:LEU:CD1	41:DG:172:LEU:HD12	2.38	0.54
42:DH:46:GLU:CD	42:DH:51:ARG:HB2	2.32	0.54
43:DJ:31:UNK:O	43:DJ:32:UNK:CB	2.56	0.54
44:DK:19:PRO:HD3	44:DK:35:MET:HE3	1.90	0.54
48:DP:9:ASN:N	48:DP:10:PRO:HD2	2.23	0.54
48:DP:99:LEU:HA	48:DP:102:ARG:HH12	1.72	0.54
48:DP:102:ARG:O	48:DP:102:ARG:HG2	2.07	0.54
48:DP:146:VAL:O	48:DP:148:LEU:HD12	2.08	0.54
52:DT:117:ASP:OD2	52:DT:120:ARG:HG3	2.08	0.54
58:DZ:13:GLU:O	58:DZ:18:LEU:HD11	2.07	0.54
1:AA:174:C:O2'	1:AA:175:C:H5'	2.08	0.54
1:AA:179:A:H2'	1:AA:180:U:H6	1.70	0.54
1:AA:261:U:O2	1:AA:263:A:C8	2.60	0.54
1:AA:415:A:H2'	1:AA:416:G:C8	2.42	0.54
1:AA:424:G:H2'	1:AA:425:G:H8	1.72	0.54
2:AB:19:HIS:HD2	2:AB:189:ASP:OD2	1.90	0.54
2:AB:207:ALA:O	2:AB:211:ILE:HG13	2.08	0.54
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.76	0.54
4:AD:153:ARG:HH11	4:AD:153:ARG:HG2	1.71	0.54
6:AF:8:ILE:HG23	6:AF:85:VAL:HG13	1.89	0.54
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.38	0.54
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.72	0.54
16:AP:43:LYS:HA	16:AP:48:TRP:CB	2.37	0.54
26:B1:86:SER:HA	26:B1:89:GLU:OE2	2.08	0.54
35:BA:41:C:H2'	35:BA:42:G:O4'	2.06	0.54
35:BA:545:C:H2'	35:BA:547:A:C5'	2.32	0.54
35:BA:615:G:OP2	40:BF:40:GLN:NE2	2.40	0.54
35:BA:1599:C:H2'	35:BA:1600:C:C6	2.41	0.54
40:BF:154:VAL:HG11	40:BF:193:VAL:CG2	2.38	0.54
41:BG:16:ARG:O	41:BG:20:ILE:HG13	2.08	0.54
47:BO:19:ILE:HD12	47:BO:41:ALA:HB3	1.90	0.54
51:BS:20:ARG:HA	51:BS:20:ARG:NE	2.20	0.54
1:CA:452:A:HO2'	1:CA:453:A:H8	1.55	0.54
1:CA:1090:U:C4'	1:CA:1170:A:H2	2.21	0.54
1:CA:1130:A:C2	1:CA:1146:A:C4	2.96	0.54
1:CA:1270:C:H2'	1:CA:1271:G:H8	1.71	0.54
1:CA:1368:G:OP2	9:CI:112:LYS:HD3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:149:LEU:O	2:CB:150:SER:C	2.50	0.54
3:CC:94:LEU:O	3:CC:94:LEU:HD12	2.08	0.54
9:CI:24:GLY:HA2	9:CI:59:PHE:O	2.07	0.54
14:CN:47:LEU:O	14:CN:50:LYS:N	2.40	0.54
19:CS:6:LYS:H	19:CS:6:LYS:HE3	1.72	0.54
19:CS:41:VAL:O	19:CS:41:VAL:HG23	2.08	0.54
24:CY:92:ILE:HG21	24:CY:454:MET:HE1	1.90	0.54
24:CY:272:LEU:HA	24:CY:275:ALA:HB3	1.90	0.54
26:D1:82:LEU:O	26:D1:83:GLU:HG3	2.07	0.54
27:D2:33:MET:HE3	27:D2:37:PHE:CE1	2.43	0.54
29:D4:2:LYS:CB	36:DB:40:U:O4	2.55	0.54
29:D4:48:ARG:O	29:D4:49:PHE:CD1	2.61	0.54
31:D6:54:ILE:O	31:D6:54:ILE:CD1	2.53	0.54
35:DA:1142(A):A:O2'	35:DA:1143:A:H5''	2.06	0.54
35:DA:1272:A:OP2	35:DA:1647:G:OP1	2.24	0.54
35:DA:1902:C:H2'	35:DA:1903:G:O4'	2.07	0.54
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.35	0.54
35:DA:2469:A:H2	35:DA:2481:G:N2	2.06	0.54
35:DA:2688:U:H1'	35:DA:2721:A:N6	2.23	0.54
35:DA:2750:A:H2'	35:DA:2752:C:N4	2.22	0.54
37:DC:138:LEU:HD13	37:DC:139:PRO:O	2.08	0.54
38:DD:213:ARG:C	38:DD:215:LEU:H	2.15	0.54
40:DF:25:PRO:CG	40:DF:119:ARG:HB2	2.37	0.54
40:DF:84:VAL:CG1	40:DF:85:GLY:N	2.55	0.54
40:DF:181:LEU:HB3	40:DF:205:ARG:HH12	1.71	0.54
41:DG:77:ILE:O	41:DG:78:SER:C	2.49	0.54
41:DG:120:LEU:HD12	41:DG:180:PHE:CE2	2.43	0.54
46:DN:94:HIS:N	46:DN:95:PRO:CD	2.71	0.54
49:DQ:45:GLN:H	49:DQ:45:GLN:HE21	1.52	0.54
53:DU:12:ARG:HB3	53:DU:16:LYS:HE3	1.90	0.54
53:DU:109:LEU:O	53:DU:112:ARG:HB2	2.07	0.54
55:DW:20:VAL:HG23	55:DW:21:VAL:N	2.23	0.54
56:DX:12:VAL:CG1	56:DX:27:THR:HG23	2.35	0.54
56:DX:18:TYR:O	56:DX:20:GLY:N	2.41	0.54
57:DY:67:LEU:HD11	57:DY:71:LYS:HE2	1.89	0.54
1:AA:781:A:H2'	1:AA:782:A:H5'	1.89	0.54
1:AA:1060:C:H5'	14:AN:45:ARG:NH2	2.23	0.54
1:AA:1459:C:H2'	1:AA:1460:A:H8	1.73	0.54
2:AB:17:PHE:O	2:AB:204:ASN:HB2	2.08	0.54
2:AB:209:ARG:NH1	2:AB:239:VAL:HG11	2.23	0.54
15:AO:9:GLN:O	15:AO:10:LYS:C	2.51	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:43:GLU:O	19:AS:45:VAL:HG13	2.08	0.54
24:AY:546:ILE:CG2	24:AY:590:ILE:HG13	2.27	0.54
29:B4:10:VAL:N	29:B4:26:SER:O	2.41	0.54
30:B5:55:ARG:NH2	50:BR:113:LEU:HD21	2.23	0.54
35:BA:67:U:H2'	35:BA:68:G:C8	2.43	0.54
35:BA:883:G:O2'	35:BA:884:C:H5'	2.07	0.54
35:BA:892:G:H2'	35:BA:893:C:H6	1.73	0.54
35:BA:1568:G:OP2	38:BD:63:ARG:NH2	2.37	0.54
35:BA:2818:G:O2'	35:BA:2837:G:H5'	2.08	0.54
36:BB:94:C:H2'	36:BB:95:C:H6	1.73	0.54
37:BC:127:LYS:O	37:BC:128:LEU:HG	2.08	0.54
38:BD:71:ASP:CB	38:BD:103:ARG:HH22	2.07	0.54
38:BD:79:VAL:O	38:BD:113:VAL:HG13	2.08	0.54
38:BD:99:ASP:C	38:BD:99:ASP:OD2	2.51	0.54
39:BE:93:VAL:C	39:BE:95:ILE:H	2.15	0.54
39:BE:95:ILE:N	39:BE:95:ILE:HD13	2.23	0.54
46:BN:14:VAL:HG13	46:BN:137:LYS:HG3	1.90	0.54
47:BO:26:LYS:HB3	47:BO:30:ALA:CB	2.37	0.54
48:BP:66:GLY:O	48:BP:67:MET:HB3	2.06	0.54
52:BT:98:LYS:HB3	52:BT:100:TYR:CE1	2.43	0.54
55:BW:80:PRO:O	55:BW:100:THR:HG21	2.08	0.54
58:BZ:29:TYR:O	58:BZ:30:ASN:HB3	2.07	0.54
1:CA:25:C:H2'	1:CA:26:A:C8	2.43	0.54
1:CA:264:U:H4'	17:CQ:63:ARG:HD3	1.89	0.54
1:CA:603:U:H2'	1:CA:604:G:C8	2.43	0.54
1:CA:896:C:O2'	1:CA:897:C:H5'	2.07	0.54
1:CA:945:G:C2	1:CA:946:A:C8	2.96	0.54
1:CA:977:A:C2'	1:CA:978:A:H5'	2.37	0.54
2:CB:9:GLU:N	2:CB:9:GLU:OE2	2.40	0.54
4:CD:129:ASN:N	4:CD:129:ASN:HD22	2.06	0.54
9:CI:18:PHE:O	9:CI:61:ALA:HA	2.08	0.54
9:CI:128:ARG:O	13:CM:125:ARG:HD2	2.08	0.54
10:CJ:3:LYS:HZ2	10:CJ:76:ASN:HA	1.73	0.54
11:CK:111:ASP:HA	18:CR:84:LYS:CD	2.31	0.54
13:CM:124:PRO:HG2	24:CY:574:GLU:N	2.08	0.54
24:CY:211:GLU:HB2	24:CY:215:LYS:NZ	2.23	0.54
24:CY:322:VAL:HG23	24:CY:323:GLY:N	2.23	0.54
25:D0:40:GLN:NE2	25:D0:43:THR:CA	2.67	0.54
26:D1:20:ARG:HH11	26:D1:20:ARG:HG2	1.73	0.54
30:D5:55:ARG:NH2	50:DR:113:LEU:HD21	2.23	0.54
31:D6:22:ALA:C	31:D6:23:THR:HG23	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:810:U:OP1	35:DA:1253:A:N7	2.40	0.54
35:DA:1441:G:H2'	35:DA:1442:G:C8	2.42	0.54
35:DA:1754:C:OP1	52:DT:96:ARG:NH1	2.40	0.54
35:DA:1840:G:H1	35:DA:1902:C:H42	1.56	0.54
35:DA:2713:A:C3'	35:DA:2714:G:H5'	2.38	0.54
37:DC:225:ILE:O	37:DC:225:ILE:HD12	2.08	0.54
39:DE:4:ILE:CG1	39:DE:5:LEU:N	2.71	0.54
40:DF:25:PRO:HB2	40:DF:119:ARG:HD3	1.89	0.54
40:DF:84:VAL:CG1	40:DF:85:GLY:H	2.12	0.54
41:DG:98:ARG:HH11	41:DG:98:ARG:CG	2.20	0.54
47:DO:107:ARG:CA	47:DO:112:MET:HE1	2.34	0.54
48:DP:47:ASP:HB3	48:DP:48:PRO:O	2.08	0.54
58:DZ:95:PRO:HA	58:DZ:128:VAL:O	2.08	0.54
1:AA:624:C:O2'	1:AA:625:G:H5'	2.07	0.54
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.89	0.54
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.23	0.54
3:AC:167:TRP:O	3:AC:168:ALA:HB3	2.07	0.54
6:AF:7:ASN:OD1	6:AF:62:TRP:HD1	1.91	0.54
8:AH:31:PHE:O	8:AH:34:GLU:HB2	2.08	0.54
8:AH:103:VAL:HG23	8:AH:110:ALA:HB2	1.88	0.54
10:AJ:75:ILE:CG1	10:AJ:76:ASN:H	2.06	0.54
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.23	0.54
18:AR:56:THR:O	18:AR:58:LEU:HD12	2.07	0.54
24:AY:238:THR:HG23	24:AY:241:GLU:H	1.72	0.54
27:B2:15:LYS:O	27:B2:16:LEU:HD23	2.08	0.54
28:B3:4:LEU:O	28:B3:36:VAL:HA	2.08	0.54
30:B5:27:PRO:HG3	55:BW:23:LEU:CD1	2.35	0.54
31:B6:11:LEU:CG	31:B6:26:ASN:HD21	2.21	0.54
32:B7:24:THR:HG23	32:B7:27:GLY:CA	2.38	0.54
35:BA:302:C:P	57:BY:73:ARG:HH12	2.31	0.54
35:BA:491:G:H2'	35:BA:492:A:C8	2.42	0.54
35:BA:1036:G:C6	35:BA:1120:G:C6	2.96	0.54
35:BA:1173:G:H5'	35:BA:1174:A:O5'	2.07	0.54
35:BA:1287:A:H2'	35:BA:1287:A:N3	2.21	0.54
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.08	0.54
35:BA:2469:A:H2	35:BA:2481:G:N2	2.05	0.54
35:BA:2521:C:N4	35:BA:2544:G:H1	2.06	0.54
37:BC:57:GLN:NE2	37:BC:205:ALA:HA	2.22	0.54
37:BC:138:LEU:HD13	37:BC:139:PRO:O	2.07	0.54
38:BD:5:LYS:HD2	38:BD:17:THR:HG22	1.89	0.54
40:BF:124:LEU:HD22	40:BF:191:ARG:HH21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:15:LEU:HD12	46:BN:136:GLU:HG3	1.90	0.54
48:BP:47:ASP:HB2	48:BP:51:PHE:HB2	1.90	0.54
49:BQ:108:GLY:O	49:BQ:109:VAL:CG2	2.56	0.54
51:BS:56:LEU:O	51:BS:56:LEU:HD23	2.08	0.54
52:BT:35:LYS:HZ3	52:BT:41:ARG:NH1	2.04	0.54
56:BX:65:ARG:HH11	56:BX:65:ARG:HG2	1.72	0.54
57:BY:95:LYS:CD	57:BY:101:LYS:H	2.21	0.54
58:BZ:126:VAL:HG23	58:BZ:127:LYS:N	2.23	0.54
1:CA:383:A:C2'	1:CA:384:G:H5'	2.38	0.54
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.37	0.54
1:CA:1221:G:H4'	19:CS:77:THR:CG2	2.35	0.54
2:CB:204:ASN:HD21	2:CB:206:ASP:H	1.54	0.54
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.89	0.54
7:CG:64:GLN:HG3	7:CG:128:ALA:HB1	1.91	0.54
11:CK:105:VAL:HG23	11:CK:105:VAL:O	2.06	0.54
13:CM:94:ARG:NE	19:CS:82:GLY:N	2.56	0.54
19:CS:72:GLY:O	19:CS:74:PHE:N	2.41	0.54
24:CY:124:GLN:HA	24:CY:127:LYS:HD2	1.89	0.54
24:CY:152:THR:HG23	24:CY:153:MET:N	2.23	0.54
24:CY:232:LEU:HD22	24:CY:232:LEU:H	1.73	0.54
24:CY:331:TYR:O	24:CY:371:ALA:CB	2.56	0.54
35:DA:648:G:H2'	35:DA:649:G:C8	2.43	0.54
35:DA:654(P):C:H2'	35:DA:654(Q):C:H5'	1.90	0.54
35:DA:863:A:O2'	36:DB:101:G:H1'	2.08	0.54
35:DA:1044:G:O2'	35:DA:1045:A:H5''	2.07	0.54
35:DA:1358:G:O2'	35:DA:1359:A:H5''	2.08	0.54
37:DC:138:LEU:HD13	37:DC:138:LEU:C	2.33	0.54
38:DD:30:GLU:HG3	38:DD:63:ARG:CZ	2.38	0.54
40:DF:7:TYR:OH	40:DF:10:PRO:HG3	2.06	0.54
44:DK:41:PHE:C	44:DK:43:ALA:H	2.16	0.54
46:DN:24:GLY:HA2	46:DN:27:ALA:HB3	1.90	0.54
48:DP:115:LEU:HD23	48:DP:115:LEU:H	1.72	0.54
50:DR:7:GLY:O	50:DR:8:ARG:CB	2.56	0.54
50:DR:7:GLY:HA3	50:DR:8:ARG:NH2	2.23	0.54
52:DT:55:ASN:H	52:DT:59:THR:HG21	1.72	0.54
56:DX:55:ASN:HB2	56:DX:80:ILE:HG12	1.90	0.54
1:AA:255:G:O6	1:AA:266:G:O6	2.25	0.53
1:AA:363:A:OP1	12:AL:33:ARG:HD3	2.08	0.53
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.09	0.53
1:AA:1312:G:O2'	1:AA:1313:U:H5'	2.08	0.53
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.08	0.53
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.08	0.53
11:AK:108:ILE:N	11:AK:108:ILE:CD1	2.68	0.53
13:AM:80:ARG:O	13:AM:83:ASP:HB3	2.08	0.53
14:AN:15:LYS:O	14:AN:16:PHE:C	2.50	0.53
19:AS:62:ILE:O	19:AS:62:ILE:HG13	2.08	0.53
24:AY:498:ILE:HG22	24:AY:507:TYR:CD2	2.43	0.53
24:AY:507:TYR:C	24:AY:507:TYR:CD1	2.86	0.53
24:AY:662:LYS:HZ2	42:BH:175:LYS:CG	2.21	0.53
25:B0:40:GLN:NE2	25:B0:43:THR:CA	2.70	0.53
26:B1:56:GLN:HA	26:B1:56:GLN:NE2	2.18	0.53
27:B2:32:LEU:HG	27:B2:53:LEU:HD13	1.90	0.53
27:B2:48:HIS:ND1	35:BA:95:G:O2'	2.40	0.53
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.43	0.53
31:B6:9:LEU:HD22	31:B6:9:LEU:O	2.08	0.53
34:B9:22:ARG:NH2	35:BA:2741:A:OP1	2.42	0.53
35:BA:610:G:H22	35:BA:619:G:H1'	1.73	0.53
35:BA:710:G:H2'	35:BA:711:G:C8	2.43	0.53
35:BA:1050:A:C5	35:BA:1051:G:H1'	2.44	0.53
35:BA:1107:G:OP1	43:BJ:59:UNK:N	2.41	0.53
36:BB:61:G:O2'	36:BB:62:C:H5'	2.08	0.53
38:BD:210:GLY:O	38:BD:212:SER:N	2.39	0.53
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.73	0.53
40:BF:113:ALA:HB1	40:BF:186:ILE:CG2	2.37	0.53
41:BG:119:GLY:HA3	41:BG:181:ARG:N	2.23	0.53
42:BH:46:GLU:HG3	42:BH:51:ARG:HB2	1.89	0.53
48:BP:16:ARG:O	48:BP:18:ARG:N	2.41	0.53
48:BP:101:VAL:HA	48:BP:107:LYS:H	1.73	0.53
49:BQ:116:GLU:O	49:BQ:120:ILE:HG12	2.08	0.53
50:BR:55:ALA:HB2	50:BR:79:LEU:HD11	1.90	0.53
52:BT:11:GLU:O	52:BT:13:ARG:N	2.36	0.53
53:BU:61:TRP:HB3	53:BU:93:LYS:HB3	1.89	0.53
54:BV:66:ARG:CZ	54:BV:88:ARG:HH21	2.21	0.53
56:BX:18:TYR:O	56:BX:20:GLY:N	2.41	0.53
1:CA:737:A:H2'	1:CA:738:C:H6	1.73	0.53
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.43	0.53
3:CC:59:ARG:HD3	3:CC:64:VAL:HG22	1.90	0.53
6:CF:33:TYR:O	6:CF:34:GLY:C	2.51	0.53
8:CH:103:VAL:HG21	8:CH:110:ALA:HB2	1.90	0.53
8:CH:104:ARG:O	8:CH:105:ARG:C	2.51	0.53
13:CM:66:LEU:O	13:CM:70:LEU:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:64:ARG:HG3	15:CO:64:ARG:HH11	1.73	0.53
16:CP:43:LYS:HA	16:CP:48:TRP:CB	2.37	0.53
24:CY:679:VAL:O	24:CY:681:LYS:N	2.41	0.53
27:D2:29:LYS:NZ	56:DX:6:ASP:OD2	2.41	0.53
27:D2:35:LEU:HD12	27:D2:53:LEU:HD12	1.89	0.53
35:DA:284:U:H2'	35:DA:285:C:C6	2.41	0.53
35:DA:650:C:C3'	35:DA:651:G:H5''	2.37	0.53
35:DA:816:C:O2'	35:DA:817:C:H5'	2.08	0.53
35:DA:1063:G:O2'	44:DK:87:GLY:HA3	2.07	0.53
35:DA:1092:C:H2'	35:DA:1093:G:H8	1.72	0.53
35:DA:1252:G:N3	53:DU:33:ARG:HD2	2.22	0.53
35:DA:1291:C:H2'	35:DA:1292:U:C6	2.43	0.53
35:DA:1305:C:O2'	35:DA:1306:C:H5'	2.08	0.53
35:DA:2076:U:H5'	35:DA:2238:G:N2	2.21	0.53
35:DA:2645:G:H4'	35:DA:2732:G:HO2'	1.74	0.53
38:DD:200:ASP:O	38:DD:201:HIS:C	2.51	0.53
40:DF:81:PRO:O	40:DF:83:PHE:N	2.41	0.53
40:DF:107:LYS:O	40:DF:108:LYS:C	2.51	0.53
41:DG:34:LEU:HD11	41:DG:100:TRP:CH2	2.43	0.53
43:DJ:20:UNK:CB	43:DJ:88:UNK:O	2.56	0.53
48:DP:122:PRO:O	48:DP:123:LEU:HB3	2.08	0.53
54:DV:38:LEU:C	54:DV:39:LEU:HD13	2.33	0.53
1:AA:346:G:OP1	52:BT:41:ARG:CZ	2.56	0.53
1:AA:893:C:H2'	1:AA:894:G:H8	1.74	0.53
1:AA:956:U:O2'	1:AA:957:U:H5'	2.08	0.53
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.91	0.53
6:AF:33:TYR:HA	6:AF:71:ARG:HH21	1.73	0.53
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.89	0.53
15:AO:17:ARG:HG3	15:AO:17:ARG:HH11	1.73	0.53
18:AR:40:LEU:C	18:AR:42:ARG:H	2.15	0.53
22:AW:8:U:H1'	22:AW:49:C:H1'	1.90	0.53
24:AY:213:HIS:O	24:AY:217:VAL:HG23	2.08	0.53
24:AY:227:ILE:HG12	24:AY:237:PRO:HB3	1.90	0.53
24:AY:637:ARG:HG3	24:AY:637:ARG:NH1	2.23	0.53
30:B5:19:ARG:HD2	35:BA:1266:G:OP1	2.08	0.53
31:B6:7:ILE:O	31:B6:27:LYS:HD3	2.08	0.53
35:BA:528:A:C2	35:BA:2043:C:H5'	2.44	0.53
35:BA:2415:G:H4'	48:BP:66:GLY:C	2.33	0.53
35:BA:2713:A:C3'	35:BA:2714:G:H5'	2.38	0.53
40:BF:107:LYS:O	40:BF:108:LYS:C	2.50	0.53
41:BG:46:ALA:HB2	41:BG:88:ILE:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BJ:48:UNK:O	43:BJ:49:UNK:O	2.27	0.53
46:BN:125:GLY:HA3	46:BN:126:PRO:C	2.32	0.53
48:BP:85:LEU:H	48:BP:85:LEU:CD2	2.14	0.53
50:BR:11:ASN:O	50:BR:12:ARG:HB2	2.07	0.53
53:BU:104:GLN:HB3	54:BV:44:LYS:NZ	2.23	0.53
57:BY:86:ARG:HB3	57:BY:88:LYS:HZ1	1.72	0.53
1:CA:628:G:O2'	1:CA:629:G:H5'	2.07	0.53
1:CA:950:U:H2'	1:CA:951:G:C8	2.43	0.53
1:CA:1015:A:H2'	1:CA:1016:A:O4'	2.07	0.53
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.72	0.53
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.43	0.53
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.43	0.53
2:CB:17:PHE:O	2:CB:204:ASN:HB2	2.08	0.53
2:CB:163:PHE:CD2	2:CB:185:ILE:HG13	2.42	0.53
6:CF:80:ARG:NH1	6:CF:88:VAL:HB	2.23	0.53
7:CG:64:GLN:CG	7:CG:128:ALA:HB1	2.38	0.53
7:CG:84:ASN:N	7:CG:84:ASN:HD22	2.06	0.53
9:CI:4:TYR:CE2	9:CI:88:TYR:CB	2.91	0.53
9:CI:81:ILE:O	9:CI:85:LEU:HG	2.07	0.53
13:CM:78:ILE:CA	13:CM:81:LEU:HD23	2.38	0.53
21:CU:3:LYS:HB3	21:CU:14:TRP:CD1	2.44	0.53
24:CY:14:ASN:N	24:CY:14:ASN:HD22	2.04	0.53
24:CY:131:PRO:CG	24:CY:281:PRO:HG3	2.34	0.53
24:CY:142:THR:O	24:CY:144:ALA:N	2.40	0.53
24:CY:343:ASN:HD22	24:CY:344:THR:N	2.07	0.53
24:CY:416:LYS:CG	24:CY:417:THR:H	2.19	0.53
24:CY:524:GLU:HG2	24:CY:524:GLU:O	2.08	0.53
24:CY:601:ILE:HD12	24:CY:684:GLN:HG3	1.90	0.53
26:D1:86:SER:HB3	26:D1:89:GLU:HB2	1.90	0.53
35:DA:55:G:H2'	35:DA:56:A:C8	2.43	0.53
35:DA:588:U:H2'	35:DA:589:C:C6	2.42	0.53
35:DA:588:U:H2'	35:DA:589:C:H6	1.72	0.53
35:DA:653:A:H5'	35:DA:654:A:OP2	2.08	0.53
35:DA:710:G:H2'	35:DA:711:G:C8	2.43	0.53
35:DA:881:G:C2'	35:DA:882:G:H5'	2.39	0.53
35:DA:2688:U:H2'	35:DA:2719:G:N2	2.23	0.53
35:DA:2820:A:O2'	35:DA:2821:A:OP1	2.25	0.53
40:DF:176:LEU:HG	40:DF:177:ALA:O	2.08	0.53
40:DF:179:GLU:C	40:DF:181:LEU:H	2.16	0.53
44:DK:5:VAL:HA	44:DK:59:ILE:CG2	2.37	0.53
44:DK:29:GLN:O	44:DK:59:ILE:HD12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:105:GLU:O	47:DO:109:LYS:CG	2.56	0.53
48:DP:98:GLU:O	48:DP:101:VAL:HG22	2.09	0.53
52:DT:10:VAL:O	52:DT:13:ARG:HG2	2.08	0.53
52:DT:35:LYS:HZ3	52:DT:41:ARG:NH1	2.05	0.53
52:DT:98:LYS:HB3	52:DT:100:TYR:CE1	2.43	0.53
54:DV:19:LYS:NZ	54:DV:20:LEU:H	2.05	0.53
56:DX:27:THR:CB	56:DX:80:ILE:HG22	2.36	0.53
57:DY:73:ARG:O	57:DY:74:PRO:O	2.26	0.53
1:AA:603:U:H2'	1:AA:604:G:C8	2.42	0.53
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.73	0.53
2:AB:204:ASN:HD22	2:AB:206:ASP:H	1.51	0.53
2:AB:221:LEU:HD13	2:AB:221:LEU:O	2.09	0.53
11:AK:105:VAL:O	11:AK:105:VAL:HG23	2.09	0.53
12:AL:36:VAL:HG11	24:AY:425:SER:HB3	1.90	0.53
13:AM:6:GLY:C	13:AM:8:GLU:N	2.59	0.53
18:AR:40:LEU:C	18:AR:42:ARG:N	2.64	0.53
29:B4:10:VAL:CG2	29:B4:11:PRO:HD2	2.34	0.53
30:B5:50:GLY:HA2	30:B5:56:LYS:HB3	1.89	0.53
35:BA:528:A:H2	35:BA:2043:C:H5'	1.72	0.53
35:BA:1151:G:H5''	53:BU:81:HIS:CE1	2.43	0.53
35:BA:1505:C:C5	35:BA:1506:C:H1'	2.42	0.53
35:BA:1803:A:O3'	38:BD:259:THR:CG2	2.51	0.53
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	2.19	0.53
35:BA:1839:G:H2'	35:BA:1839:G:N3	2.24	0.53
35:BA:2118:U:OP1	35:BA:2148:G:H4'	2.08	0.53
35:BA:2873:A:H4'	50:BR:8:ARG:NH2	2.23	0.53
36:BB:49:C:OP1	51:BS:96:GLY:HA3	2.07	0.53
37:BC:139:PRO:HA	37:BC:145:THR:HB	1.90	0.53
37:BC:213:VAL:CG1	37:BC:225:ILE:HD11	2.39	0.53
39:BE:119:ARG:HG2	39:BE:160:TYR:HB2	1.90	0.53
40:BF:62:ARG:NH2	40:BF:64:ILE:HA	2.24	0.53
41:BG:165:THR:O	41:BG:166:ASP:C	2.50	0.53
42:BH:144:VAL:O	42:BH:148:ILE:HG12	2.08	0.53
42:BH:156:ALA:C	42:BH:158:HIS:H	2.16	0.53
46:BN:87:LEU:O	46:BN:90:MET:N	2.41	0.53
48:BP:9:ASN:H	48:BP:10:PRO:CD	2.21	0.53
48:BP:75:ILE:HD12	48:BP:75:ILE:N	2.23	0.53
57:BY:95:LYS:HE2	57:BY:101:LYS:H	1.74	0.53
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.43	0.53
1:CA:268:C:H2'	1:CA:268:C:O2	2.08	0.53
1:CA:423:G:H2'	1:CA:424:G:H5'	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1008:C:H2'	1:CA:1009:G:H8	1.72	0.53
1:CA:1458:G:OP1	20:CT:35:THR:HG21	2.08	0.53
3:CC:5:ILE:N	3:CC:5:ILE:HD13	2.23	0.53
4:CD:187:ARG:NH2	4:CD:193:ASP:OD2	2.41	0.53
5:CE:6:PHE:CZ	5:CE:66:MET:HE1	2.44	0.53
7:CG:120:ILE:HG22	7:CG:124:LEU:CD1	2.36	0.53
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.06	0.53
13:CM:11:ARG:HG2	13:CM:12:ASN:H	1.73	0.53
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.33	0.53
20:CT:26:ASN:HB3	20:CT:71:THR:OG1	2.08	0.53
24:CY:13:ARG:NH2	24:CY:282:SER:HB2	2.24	0.53
24:CY:35:TYR:O	24:CY:36:THR:C	2.50	0.53
24:CY:84:THR:HG23	61:CY:702:FUA:H152	1.89	0.53
24:CY:453:GLY:HA2	24:CY:458:HIS:HD2	1.72	0.53
27:D2:14:ARG:HH11	27:D2:14:ARG:HG3	1.73	0.53
34:D9:31:LYS:HE2	35:DA:2478:A:H5'	1.90	0.53
35:DA:20:C:H2'	35:DA:21:A:H8	1.73	0.53
35:DA:322:A:H3'	40:DF:169:ASN:ND2	2.23	0.53
35:DA:569:U:C4	35:DA:570:G:C6	2.96	0.53
35:DA:799:G:OP2	35:DA:800:A:H3'	2.09	0.53
35:DA:826:U:H5''	35:DA:2428:G:O3'	2.08	0.53
35:DA:1713:U:O2'	35:DA:1714:G:H5'	2.08	0.53
35:DA:1751:C:O2'	35:DA:1752:C:H5'	2.08	0.53
35:DA:2030:A:H4'	35:DA:2031:A:H8	1.72	0.53
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.43	0.53
35:DA:2749:A:N1	35:DA:2750:A:N6	2.57	0.53
38:DD:183:ARG:HD2	38:DD:270:ILE:HG23	1.90	0.53
41:DG:41:GLN:O	41:DG:43:LEU:N	2.35	0.53
44:DK:4:VAL:HG12	44:DK:5:VAL:N	2.20	0.53
48:DP:16:ARG:O	48:DP:18:ARG:N	2.40	0.53
48:DP:58:THR:O	48:DP:58:THR:HG22	2.09	0.53
52:DT:60:THR:HG22	52:DT:77:PRO:HA	1.90	0.53
57:DY:62:GLU:CG	57:DY:63:LYS:N	2.71	0.53
58:DZ:56:VAL:HG22	58:DZ:91:LEU:CD1	2.38	0.53
1:AA:818:G:O2'	1:AA:819:A:H5'	2.09	0.53
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.38	0.53
2:AB:7:VAL:C	2:AB:11:LEU:HG	2.33	0.53
4:AD:122:ARG:NH1	4:AD:134:ASP:HB2	2.23	0.53
10:AJ:20:ALA:C	10:AJ:22:LYS:N	2.61	0.53
12:AL:23:LYS:HE3	12:AL:89:ARG:HE	1.73	0.53
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:94:ASN:O	17:AQ:95:TYR:C	2.49	0.53
18:AR:88:LYS:HD3	18:AR:88:LYS:C	2.34	0.53
22:AW:53:G:H2'	22:AW:54:G:H8	1.74	0.53
24:AY:238:THR:HG23	24:AY:240:GLU:H	1.73	0.53
24:AY:486:THR:HG23	24:AY:600:VAL:CG1	2.38	0.53
27:B2:41:ILE:CD1	27:B2:44:LEU:HD12	2.33	0.53
31:B6:13:CYS:HB3	31:B6:49:HIS:HB3	1.90	0.53
35:BA:514:A:H2'	35:BA:515:A:H8	1.73	0.53
35:BA:600:G:H2'	35:BA:601:C:C6	2.44	0.53
35:BA:650:C:C3'	35:BA:651:G:H5''	2.38	0.53
35:BA:848:G:H5''	35:BA:928:G:H22	1.72	0.53
35:BA:1355:G:O2'	35:BA:1356:G:H5'	2.08	0.53
35:BA:1791:A:C6	35:BA:1829:A:H5'	2.43	0.53
35:BA:1799:G:H8	38:BD:181:GLU:OE1	1.92	0.53
35:BA:2012:G:H4'	55:BW:96:ILE:CD1	2.17	0.53
35:BA:2346:A:H1'	35:BA:2383:G:N9	2.24	0.53
37:BC:76:LEU:HD21	37:BC:104:ILE:HD11	1.91	0.53
38:BD:39:LYS:HZ2	38:BD:87:ASN:HB3	1.73	0.53
39:BE:119:ARG:HD2	39:BE:120:TRP:NE1	2.24	0.53
42:BH:84:SER:OG	42:BH:85:LYS:N	2.40	0.53
46:BN:17:ASP:OD1	46:BN:56:ASN:HB3	2.08	0.53
48:BP:25:SER:O	48:BP:30:THR:HG23	2.09	0.53
51:BS:106:ARG:O	51:BS:107:GLU:CB	2.56	0.53
52:BT:6:LEU:O	52:BT:7:ILE:C	2.51	0.53
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.39	0.53
54:BV:61:VAL:HG22	54:BV:63:GLY:H	1.74	0.53
55:BW:12:ILE:HG13	55:BW:42:ARG:NH1	2.23	0.53
56:BX:27:THR:CB	56:BX:80:ILE:HG22	2.36	0.53
57:BY:15:VAL:O	57:BY:22:GLY:N	2.41	0.53
58:BZ:151:HIS:O	58:BZ:152:ALA:C	2.51	0.53
58:BZ:152:ALA:HB3	58:BZ:154:ASP:OD2	2.09	0.53
1:CA:1004:A:H5'	1:CA:1025:U:N3	2.22	0.53
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.42	0.53
2:CB:209:ARG:NH1	2:CB:239:VAL:HG11	2.23	0.53
6:CF:22:GLU:O	6:CF:26:ILE:HG13	2.07	0.53
12:CL:70:ILE:CG2	12:CL:100:ILE:HD12	2.38	0.53
13:CM:97:PRO:HA	13:CM:110:ARG:CD	2.33	0.53
14:CN:37:PHE:CE1	14:CN:53:LEU:HD22	2.43	0.53
24:CY:103:GLY:O	24:CY:104:ALA:CB	2.55	0.53
24:CY:135:PHE:CD1	24:CY:272:LEU:HD22	2.42	0.53
24:CY:439:ARG:O	24:CY:452:SER:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:483:TYR:O	24:CY:558:PHE:HB3	2.08	0.53
24:CY:505:GLY:HA3	24:CY:576:ASP:CB	2.38	0.53
28:D3:45:GLY:HA3	35:DA:851:U:O2'	2.08	0.53
29:D4:10:VAL:N	29:D4:26:SER:O	2.41	0.53
33:D8:7:HIS:HB2	33:D8:59:LYS:HB3	1.89	0.53
35:DA:67:U:H2'	35:DA:68:G:C8	2.43	0.53
35:DA:221:A:H4'	35:DA:222:A:O5'	2.07	0.53
35:DA:272(H):C:H6	35:DA:272(H):C:C5'	2.17	0.53
35:DA:359:A:H2'	35:DA:360:G:O4'	2.08	0.53
35:DA:467:G:O2'	35:DA:468:G:H5'	2.09	0.53
35:DA:492:A:H2'	35:DA:493:G:H5'	1.90	0.53
35:DA:2347:C:H2'	35:DA:2348:U:C5	2.43	0.53
38:DD:267:SER:C	38:DD:269:PHE:H	2.17	0.53
39:DE:2:LYS:HD3	39:DE:95:ILE:HG22	1.90	0.53
46:DN:9:VAL:HG12	46:DN:10:GLU:N	2.23	0.53
46:DN:23:LEU:CB	46:DN:60:ILE:HG21	2.37	0.53
47:DO:22:ILE:HG12	47:DO:41:ALA:HA	1.90	0.53
48:DP:107:LYS:C	48:DP:109:GLY:N	2.66	0.53
51:DS:15:ARG:CB	51:DS:18:ILE:HD11	2.32	0.53
51:DS:40:ILE:CG2	51:DS:41:ASP:N	2.72	0.53
58:DZ:163:LEU:HD23	58:DZ:163:LEU:N	2.20	0.53
1:AA:306:G:O2'	1:AA:307:C:H5'	2.08	0.53
1:AA:998:G:H2'	1:AA:999:C:N1	2.24	0.53
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.44	0.53
1:AA:1324:A:H2'	1:AA:1325:C:H6	1.71	0.53
3:AC:59:ARG:HD3	3:AC:64:VAL:HG22	1.90	0.53
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.89	0.53
16:AP:2:VAL:HG22	16:AP:2:VAL:O	2.09	0.53
18:AR:44:LEU:O	18:AR:45:SER:O	2.27	0.53
24:AY:186:TYR:HA	24:AY:198:GLU:HA	1.90	0.53
24:AY:228:MET:O	24:AY:232:LEU:HD23	2.09	0.53
26:B1:3:LYS:HE3	35:BA:1364:G:C8	2.43	0.53
35:BA:363(E):U:O2'	35:BA:363(F):A:O4'	2.26	0.53
35:BA:558:G:H5'	46:BN:112:LEU:HD22	1.90	0.53
35:BA:852:G:H2'	35:BA:853:G:H8	1.73	0.53
35:BA:1596:A:O2'	35:BA:1597:A:H5'	2.08	0.53
35:BA:2861:G:H2'	35:BA:2862:G:H8	1.73	0.53
36:BB:68:C:O2'	36:BB:69:G:H5'	2.09	0.53
40:BF:25:PRO:HB2	40:BF:119:ARG:HD3	1.89	0.53
41:BG:46:ALA:C	41:BG:51:ARG:HG3	2.34	0.53
42:BH:149:ARG:HA	42:BH:162:ILE:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:108:LYS:HD2	48:BP:108:LYS:N	2.23	0.53
48:BP:112:LEU:H	48:BP:128:HIS:CD2	2.26	0.53
49:BQ:62:GLY:HA2	58:BZ:116:VAL:CG2	2.38	0.53
51:BS:89:ARG:HG2	51:BS:89:ARG:NH1	2.24	0.53
52:BT:117:ASP:OD2	52:BT:120:ARG:HG3	2.08	0.53
58:BZ:86:VAL:HG12	58:BZ:87:ASP:N	2.19	0.53
58:BZ:89:PHE:HE1	58:BZ:96:VAL:HG21	1.73	0.53
1:CA:265:G:H2'	1:CA:267:C:H5	1.73	0.53
1:CA:275:G:H2'	1:CA:276:G:H8	1.73	0.53
1:CA:1329:A:O2'	1:CA:1330:U:H5'	2.09	0.53
7:CG:54:THR:HG22	7:CG:125:MET:HE3	1.91	0.53
9:CI:69:GLY:O	9:CI:73:GLN:HG3	2.08	0.53
22:CV:23:C:H2'	22:CV:24:U:H6	1.74	0.53
22:CV:74:C:H2'	22:CV:75:C:H5'	1.90	0.53
24:CY:18:ALA:O	24:CY:19:ALA:HB2	2.09	0.53
24:CY:298:VAL:HG22	24:CY:299:VAL:N	2.23	0.53
24:CY:600:VAL:O	24:CY:600:VAL:HG13	2.08	0.53
26:D1:30:VAL:N	35:DA:2396:G:H4'	2.24	0.53
27:D2:4:SER:O	27:D2:6:VAL:N	2.42	0.53
30:D5:35:GLU:O	30:D5:36:CYS:HB3	2.08	0.53
31:D6:15:GLU:OE1	31:D6:44:ARG:NH2	2.42	0.53
31:D6:45:LYS:HG2	35:DA:2371:G:C5'	2.39	0.53
35:DA:8:A:H2'	35:DA:9:U:C5	2.43	0.53
35:DA:402:A:C2'	35:DA:403:U:H5'	2.39	0.53
35:DA:503:A:H4'	35:DA:504:U:C5'	2.38	0.53
35:DA:902:C:H2'	35:DA:903:C:C6	2.44	0.53
35:DA:1052:C:H6	35:DA:1052:C:H3'	1.74	0.53
35:DA:1107:G:OP1	43:DJ:58:UNK:HA	2.08	0.53
35:DA:1173:G:H5'	35:DA:1174:A:O5'	2.08	0.53
35:DA:1599:C:H2'	35:DA:1600:C:C6	2.41	0.53
35:DA:1803:A:O3'	38:DD:259:THR:CG2	2.48	0.53
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.38	0.53
35:DA:2113:U:H2'	35:DA:2114:A:H8	1.73	0.53
35:DA:2189:U:C3'	35:DA:2190:G:H5''	2.39	0.53
38:DD:13:ARG:NH1	38:DD:16:MET:SD	2.82	0.53
39:DE:34:VAL:HG11	39:DE:78:LEU:CD2	2.38	0.53
41:DG:63:ILE:HG21	41:DG:141:PHE:CD2	2.44	0.53
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.74	0.53
42:DH:77:LYS:HA	42:DH:80:SER:OG	2.09	0.53
48:DP:75:ILE:N	48:DP:75:ILE:HD12	2.23	0.53
48:DP:85:LEU:H	48:DP:85:LEU:CD2	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:37:VAL:O	54:DV:37:VAL:HG23	2.07	0.53
56:DX:44:GLU:HB2	56:DX:49:VAL:O	2.08	0.53
57:DY:38:ILE:HG23	57:DY:39:VAL:N	2.24	0.53
57:DY:74:PRO:O	57:DY:75:ILE:HB	2.07	0.53
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.09	0.53
45:Dm:15:UNK:C	45:Dm:17:UNK:N	2.71	0.53
1:AA:10:A:H2'	1:AA:11:G:H8	1.73	0.53
6:AF:33:TYR:O	6:AF:34:GLY:C	2.52	0.53
9:AI:56:LEU:C	9:AI:56:LEU:HD23	2.33	0.53
9:AI:104:ARG:O	9:AI:105:ASP:CB	2.57	0.53
10:AJ:51:ARG:H	10:AJ:60:ARG:HA	1.74	0.53
22:AV:49:G:H1	22:AV:65:C:H42	1.55	0.53
24:AY:411:VAL:HG12	24:AY:412:ALA:N	2.22	0.53
24:AY:609:GLU:HB2	24:AY:670:VAL:HG22	1.91	0.53
26:B1:76:ARG:HH22	26:B1:95:LEU:CG	2.21	0.53
29:B4:22:ILE:HD12	29:B4:22:ILE:N	2.23	0.53
30:B5:3:LYS:HZ1	35:BA:2613:U:C2'	2.22	0.53
31:B6:13:CYS:HA	31:B6:50:ARG:O	2.09	0.53
35:BA:284:U:H2'	35:BA:285:C:C6	2.43	0.53
35:BA:402:A:C2'	35:BA:403:U:H5'	2.38	0.53
35:BA:674:G:H2'	35:BA:804:A:H61	1.74	0.53
35:BA:797:C:H2'	35:BA:798:G:H8	1.74	0.53
35:BA:1141:U:H5''	46:BN:63:THR:CG2	2.39	0.53
35:BA:2224:G:H4'	35:BA:2226:C:C2	2.43	0.53
38:BD:26:LYS:HE2	38:BD:26:LYS:CA	2.38	0.53
38:BD:148:GLU:HB2	38:BD:151:LYS:CD	2.38	0.53
39:BE:3:GLY:HA3	39:BE:81:ILE:HD12	1.90	0.53
46:BN:58:ASP:C	46:BN:60:ILE:N	2.60	0.53
52:BT:64:ARG:HH11	52:BT:64:ARG:HG2	1.73	0.53
55:BW:41:LYS:C	55:BW:43:GLY:N	2.66	0.53
58:BZ:129:SER:C	58:BZ:131:ARG:N	2.64	0.53
1:CA:439:A:H2'	1:CA:441:A:H5'	1.91	0.53
1:CA:624:C:H4'	16:CP:10:GLY:C	2.33	0.53
1:CA:867:G:O2'	1:CA:868:C:H5'	2.09	0.53
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.37	0.53
2:CB:89:GLY:O	2:CB:90:MET:HE2	2.08	0.53
2:CB:98:LEU:O	2:CB:101:MET:HB2	2.08	0.53
3:CC:95:THR:O	3:CC:97:LYS:N	2.41	0.53
10:CJ:54:PHE:CD2	10:CJ:55:LYS:HE3	2.44	0.53
15:CO:43:LEU:C	15:CO:45:VAL:H	2.17	0.53
19:CS:41:VAL:O	19:CS:43:GLU:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:77:A:O2'	35:DA:2394:C:N3	2.40	0.53
24:CY:35:TYR:CE1	24:CY:269:VAL:HB	2.44	0.53
24:CY:296:GLY:O	24:CY:297:GLU:CB	2.56	0.53
28:D3:15:TYR:HD2	28:D3:19:GLN:HE22	1.54	0.53
35:DA:482:A:H4'	57:DY:47:LYS:HG2	1.90	0.53
35:DA:1050:A:C5	35:DA:1051:G:H1'	2.44	0.53
35:DA:1168:G:H2'	35:DA:1169:G:H8	1.74	0.53
35:DA:1197:G:H2'	35:DA:1198:U:H6	1.72	0.53
35:DA:2870:C:H2'	35:DA:2871:C:O4'	2.08	0.53
40:DF:25:PRO:CB	40:DF:119:ARG:HD3	2.38	0.53
40:DF:154:VAL:HG11	40:DF:193:VAL:CG2	2.38	0.53
56:DX:70:LEU:HD23	56:DX:70:LEU:C	2.33	0.53
1:AA:275:G:H2'	1:AA:276:G:H8	1.74	0.53
1:AA:631:G:C2'	1:AA:632:A:C8	2.92	0.53
1:AA:865:A:H5'	1:AA:1078:U:O4	2.09	0.53
1:AA:977:A:C2'	1:AA:978:A:H5'	2.39	0.53
3:AC:77:ILE:HA	3:AC:84:ILE:HB	1.90	0.53
3:AC:115:LEU:O	3:AC:116:VAL:C	2.51	0.53
4:AD:8:VAL:C	4:AD:10:ARG:N	2.66	0.53
4:AD:17:VAL:O	4:AD:18:LYS:O	2.26	0.53
4:AD:187:ARG:NH2	4:AD:193:ASP:OD2	2.41	0.53
6:AF:37:VAL:O	6:AF:38:GLU:HG3	2.08	0.53
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HE3	2.44	0.53
10:AJ:78:ASN:C	10:AJ:79:ARG:NH1	2.67	0.53
16:AP:25:ARG:HG3	16:AP:25:ARG:NH1	2.20	0.53
19:AS:16:LEU:HD12	19:AS:16:LEU:N	2.24	0.53
24:AY:125:ALA:C	24:AY:127:LYS:N	2.66	0.53
24:AY:164:MET:O	24:AY:165:GLN:HG2	2.09	0.53
24:AY:177:ILE:O	24:AY:178:ILE:HD12	2.08	0.53
24:AY:331:TYR:O	24:AY:371:ALA:HB1	2.08	0.53
24:AY:684:GLN:O	24:AY:688:ILE:HD13	2.09	0.53
25:B0:27:GLU:HG3	25:B0:68:GLU:HA	1.91	0.53
27:B2:3:LEU:HD12	35:BA:98:G:H5''	1.90	0.53
29:B4:16:CYS:SG	29:B4:17:GLY:N	2.81	0.53
31:B6:42:TRP:HA	31:B6:42:TRP:CE3	2.44	0.53
35:BA:687:C:H2'	35:BA:688:U:O4'	2.09	0.53
35:BA:1225:G:H2'	35:BA:1226:A:C8	2.43	0.53
35:BA:1517:G:H5'	35:BA:1517:G:C8	2.37	0.53
35:BA:2067:G:H1	35:BA:2443:C:H42	1.57	0.53
35:BA:2688:U:H2'	35:BA:2719:G:N2	2.23	0.53
35:BA:2750:A:H2'	35:BA:2752:C:N4	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:68:C:H2'	36:BB:69:G:O4'	2.08	0.53
38:BD:161:THR:O	38:BD:196:VAL:HG23	2.07	0.53
41:BG:111:LEU:HA	41:BG:114:ILE:HD12	1.89	0.53
47:BO:22:ILE:HG12	47:BO:41:ALA:HA	1.90	0.53
53:BU:84:LYS:C	53:BU:86:ALA:H	2.15	0.53
54:BV:52:VAL:O	54:BV:52:VAL:HG13	2.08	0.53
1:CA:261:U:O2	1:CA:263:A:C8	2.62	0.53
1:CA:936:C:O2'	1:CA:937:A:H5'	2.07	0.53
1:CA:1144:G:N2	1:CA:1146:A:H62	2.07	0.53
3:CC:73:PRO:O	3:CC:76:VAL:HG22	2.09	0.53
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.07	0.53
6:CF:42:GLU:C	6:CF:44:GLY:N	2.67	0.53
10:CJ:78:ASN:O	10:CJ:82:ILE:HG12	2.08	0.53
24:CY:31:ARG:HD2	24:CY:266:ASN:OD1	2.08	0.53
24:CY:85:PRO:HA	24:CY:94:VAL:HG13	1.91	0.53
24:CY:191:ASP:C	24:CY:193:GLY:N	2.65	0.53
24:CY:512:ILE:HD13	24:CY:512:ILE:N	2.23	0.53
24:CY:539:ILE:O	24:CY:540:PRO:C	2.52	0.53
29:D4:19:GLY:O	29:D4:21:VAL:HG23	2.08	0.53
35:DA:281:G:N2	35:DA:358:U:C5	2.77	0.53
35:DA:948:G:H1	35:DA:969:U:H3	1.57	0.53
35:DA:1568:G:OP2	38:DD:63:ARG:NH2	2.36	0.53
35:DA:1635:G:H2'	35:DA:1636:C:C6	2.43	0.53
35:DA:2026:C:N3	35:DA:2027:G:C8	2.77	0.53
35:DA:2470:G:C6	35:DA:2471:C:C5	2.96	0.53
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.44	0.53
38:DD:112:GLN:H	38:DD:115:GLN:NE2	2.06	0.53
40:DF:124:LEU:HD22	40:DF:191:ARG:HH21	1.72	0.53
40:DF:127:GLU:HB2	40:DF:196:LEU:HD11	1.91	0.53
44:DK:132:ARG:HH11	44:DK:132:ARG:HG3	1.72	0.53
49:DQ:110:THR:HG22	49:DQ:113:GLN:OE1	2.09	0.53
51:DS:25:ARG:HG3	51:DS:26:LEU:H	1.74	0.53
51:DS:36:TYR:O	51:DS:37:ALA:HB2	2.07	0.53
58:DZ:20:ARG:HH11	58:DZ:20:ARG:CB	2.15	0.53
1:AA:164:U:H2'	1:AA:165:C:H6	1.73	0.53
1:AA:353:A:H5'	1:AA:353:A:C8	2.41	0.53
1:AA:407:G:H2'	1:AA:408:A:H8	1.73	0.53
1:AA:538:G:O2'	1:AA:539:A:H5'	2.08	0.53
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.44	0.53
1:AA:1378:C:O2	7:AG:76:ARG:NH2	2.42	0.53
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.08	0.53
7:AG:84:ASN:N	7:AG:84:ASN:HD22	2.07	0.53
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.90	0.53
11:AK:20:TYR:HB2	11:AK:31:THR:HG22	1.91	0.53
12:AL:46:LYS:HB2	12:AL:92:ASP:O	2.09	0.53
14:AN:36:PHE:CD1	14:AN:36:PHE:C	2.86	0.53
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.08	0.53
18:AR:44:LEU:HD22	18:AR:79:LEU:HD22	1.91	0.53
24:AY:550:MET:CE	24:AY:563:ILE:HD11	2.37	0.53
25:B0:46:LYS:O	25:B0:78:TYR:HA	2.08	0.53
26:B1:86:SER:HA	26:B1:89:GLU:CD	2.33	0.53
27:B2:13:ALA:C	27:B2:15:LYS:H	2.16	0.53
31:B6:5:VAL:CG1	31:B6:6:ARG:N	2.71	0.53
31:B6:9:LEU:CD2	31:B6:26:ASN:HD22	2.21	0.53
31:B6:37:ARG:O	31:B6:48:VAL:O	2.26	0.53
33:B8:29:LYS:HD2	33:B8:44:LYS:HG2	1.91	0.53
35:BA:267:C:H2'	35:BA:268:C:C6	2.44	0.53
35:BA:271(H):G:H1	35:BA:271(P):C:H42	1.57	0.53
35:BA:902:C:H2'	35:BA:903:C:C6	2.43	0.53
35:BA:1052:C:H3'	35:BA:1052:C:H6	1.73	0.53
35:BA:2394:C:P	48:BP:63:PRO:HD2	2.49	0.53
35:BA:2647:U:H2'	35:BA:2648:C:H6	1.74	0.53
35:BA:2681:C:H5	35:BA:2725:A:H62	1.57	0.53
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.74	0.53
38:BD:27:THR:HG23	38:BD:27:THR:O	2.07	0.53
39:BE:55:ASN:O	39:BE:57:LYS:N	2.36	0.53
40:BF:28:ILE:HG21	40:BF:116:ASP:HB2	1.90	0.53
42:BH:68:THR:O	42:BH:70:THR:N	2.42	0.53
44:BK:74:ALA:HB2	44:BK:111:LYS:HE2	1.91	0.53
46:BN:94:HIS:N	46:BN:95:PRO:CD	2.72	0.53
47:BO:64:ARG:NE	52:BT:70:VAL:HG21	2.23	0.53
47:BO:88:ASN:C	47:BO:90:GLN:H	2.17	0.53
48:BP:67:MET:C	48:BP:68:GLN:HG3	2.33	0.53
51:BS:12:PHE:C	51:BS:12:PHE:CD1	2.87	0.53
52:BT:57:PHE:O	52:BT:58:ASN:C	2.50	0.53
54:BV:47:VAL:O	54:BV:49:THR:O	2.27	0.53
55:BW:40:ASN:O	55:BW:41:LYS:HG2	2.09	0.53
58:BZ:4:ARG:O	58:BZ:5:LEU:HB2	2.07	0.53
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.44	0.53
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.09	0.53
1:CA:1239:A:C2'	1:CA:1298:C:N4	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1442:G:C6	1:CA:1442(B):A:C2	2.90	0.53
2:CB:55:PHE:HA	2:CB:58:ILE:HD12	1.90	0.53
4:CD:122:ARG:NH1	4:CD:134:ASP:HB2	2.24	0.53
7:CG:43:PHE:O	7:CG:46:ALA:HB3	2.09	0.53
8:CH:64:LYS:HD2	8:CH:79:VAL:HG21	1.91	0.53
24:CY:14:ASN:N	24:CY:14:ASN:ND2	2.55	0.53
24:CY:15:ILE:O	24:CY:15:ILE:HD12	2.08	0.53
26:D1:18:ILE:HG21	26:D1:20:ARG:NE	2.23	0.53
30:D5:3:LYS:HD2	30:D5:5:PRO:CD	2.37	0.53
31:D6:15:GLU:HB2	31:D6:49:HIS:CE1	2.44	0.53
34:D9:22:ARG:NH2	35:DA:2741:A:OP1	2.42	0.53
35:DA:363(E):U:O2'	35:DA:363(F):A:O4'	2.27	0.53
35:DA:1097:U:H2'	35:DA:1098:A:H5'	1.91	0.53
35:DA:1791:A:C6	35:DA:1829:A:H5'	2.44	0.53
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	2.15	0.53
35:DA:2539:C:H2'	35:DA:2539:C:O2	2.09	0.53
35:DA:2811:G:O2'	35:DA:2812:G:H5'	2.09	0.53
36:DB:16:G:N2	36:DB:69:G:H1'	2.24	0.53
37:DC:88:GLU:HA	37:DC:95:VAL:HG21	1.91	0.53
45:DL:65:UNK:O	45:DL:66:UNK:C	2.56	0.53
48:DP:48:PRO:O	48:DP:50:ARG:N	2.42	0.53
50:DR:9:LYS:O	50:DR:10:LEU:CD2	2.57	0.53
51:DS:17:ARG:HA	51:DS:20:ARG:NH1	2.24	0.53
58:DZ:109:ALA:HB3	58:DZ:145:GLU:HA	1.90	0.53
1:AA:796:C:H2'	1:AA:796:C:O2	2.08	0.53
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.73	0.53
2:AB:51:LEU:HD21	2:AB:201:ILE:HG23	1.91	0.53
2:AB:55:PHE:HA	2:AB:58:ILE:HD12	1.89	0.53
4:AD:132:ARG:O	4:AD:132:ARG:HD2	2.08	0.53
5:AE:10:MET:HG3	5:AE:32:VAL:HG22	1.91	0.53
5:AE:11:ILE:HG13	5:AE:33:VAL:HG23	1.91	0.53
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	2.09	0.53
13:AM:94:ARG:NE	19:AS:82:GLY:N	2.57	0.53
16:AP:75:ARG:O	16:AP:78:GLY:N	2.41	0.53
22:AW:69:C:O2'	22:AW:70:C:O4'	2.22	0.53
24:AY:607:ARG:O	24:AY:671:MET:HA	2.09	0.53
27:B2:20:GLU:O	27:B2:21:LEU:C	2.51	0.53
27:B2:50:ILE:C	27:B2:52:ASP:N	2.65	0.53
33:B8:7:HIS:HB2	33:B8:59:LYS:HB3	1.89	0.53
35:BA:569:U:C4	35:BA:570:G:C6	2.97	0.53
35:BA:665:C:H2'	35:BA:666:G:H8	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1276:A:H1'	50:BR:16:HIS:HE1	1.74	0.53
35:BA:1291:C:H2'	35:BA:1292:U:C6	2.44	0.53
35:BA:1441:G:H2'	35:BA:1442:G:C8	2.43	0.53
35:BA:2679:A:H4'	39:BE:165:VAL:HG11	1.90	0.53
36:BB:94:C:H2'	36:BB:95:C:C6	2.44	0.53
38:BD:125:ILE:HG22	38:BD:125:ILE:O	2.09	0.53
39:BE:2:LYS:HD3	39:BE:95:ILE:HG22	1.91	0.53
40:BF:7:TYR:OH	40:BF:10:PRO:HG3	2.09	0.53
40:BF:50:SER:HB2	40:BF:94:PRO:HD3	1.90	0.53
42:BH:127:GLU:HB3	42:BH:128:PRO:HD2	1.91	0.53
51:BS:70:GLY:C	51:BS:72:ALA:N	2.67	0.53
53:BU:12:ARG:HB3	53:BU:16:LYS:HE3	1.91	0.53
58:BZ:56:VAL:C	58:BZ:57:ILE:HD12	2.34	0.53
1:CA:624:C:O2'	1:CA:625:G:H5'	2.09	0.53
1:CA:1115:C:H2'	1:CA:1116:C:H6	1.74	0.53
1:CA:1300:G:O2'	1:CA:1301:U:P	2.67	0.53
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.43	0.53
2:CB:82:ARG:HG2	2:CB:83:MET:HE2	1.89	0.53
2:CB:207:ALA:O	2:CB:211:ILE:HG13	2.09	0.53
4:CD:107:ARG:HH21	4:CD:194:LEU:HD12	1.74	0.53
5:CE:64:ARG:CG	5:CE:64:ARG:NH1	2.71	0.53
9:CI:3:GLN:NE2	9:CI:20:ARG:NH2	2.56	0.53
20:CT:42:GLN:HA	20:CT:42:GLN:NE2	2.24	0.53
25:D0:46:LYS:O	25:D0:78:TYR:HA	2.08	0.53
26:D1:52:ARG:NH1	35:DA:2218:U:O2'	2.42	0.53
27:D2:52:ASP:O	27:D2:53:LEU:C	2.52	0.53
28:D3:31:LEU:O	28:D3:32:GLN:HB2	2.09	0.53
31:D6:10:LEU:HD12	33:D8:34:TRP:HB2	1.89	0.53
31:D6:31:PRO:O	31:D6:32:ASN:OD1	2.27	0.53
33:D8:13:ARG:HB3	48:DP:63:PRO:HB3	1.90	0.53
33:D8:51:ALA:HA	33:D8:54:GLU:CD	2.34	0.53
35:DA:271(H):G:H1	35:DA:271(P):C:H42	1.56	0.53
35:DA:272(I):U:C4	35:DA:363(A):A:N1	2.75	0.53
35:DA:705:A:N1	35:DA:727:A:H1'	2.23	0.53
35:DA:729:G:N7	38:DD:208:LYS:HB2	2.24	0.53
35:DA:1102:C:H2'	35:DA:1103:A:H8	1.73	0.53
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.74	0.53
35:DA:1819:A:H1'	35:DA:1821:A:C6	2.44	0.53
35:DA:1821:A:H2'	35:DA:1822:G:H8	1.74	0.53
35:DA:2051:A:H4'	39:DE:141:ILE:HD13	1.91	0.53
38:DD:148:GLU:HB2	38:DD:151:LYS:CD	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:213:ARG:C	38:DD:215:LEU:N	2.66	0.53
41:DG:55:LYS:C	41:DG:57:ALA:H	2.16	0.53
41:DG:111:LEU:HA	41:DG:114:ILE:CD1	2.38	0.53
41:DG:133:LEU:O	41:DG:157:ILE:HB	2.09	0.53
41:DG:181:ARG:HH11	41:DG:181:ARG:HG3	1.74	0.53
42:DH:144:VAL:O	42:DH:148:ILE:HG12	2.08	0.53
42:DH:154:PRO:C	42:DH:156:ALA:H	2.17	0.53
42:DH:156:ALA:C	42:DH:158:HIS:H	2.17	0.53
42:DH:159:GLU:O	42:DH:160:LYS:O	2.26	0.53
45:DL:80:UNK:O	45:DL:82:UNK:N	2.42	0.53
46:DN:17:ASP:OD1	46:DN:56:ASN:HB3	2.08	0.53
49:DQ:135:ASP:O	49:DQ:138:ASP:OD2	2.27	0.53
53:DU:104:GLN:HB3	54:DV:44:LYS:NZ	2.24	0.53
54:DV:47:VAL:O	54:DV:49:THR:O	2.26	0.53
57:DY:86:ARG:H	57:DY:88:LYS:NZ	2.07	0.53
58:DZ:17:ALA:HA	58:DZ:20:ARG:CG	2.38	0.53
1:AA:268:C:H2'	1:AA:268:C:O2	2.08	0.53
1:AA:554:C:H2'	1:AA:555:C:C6	2.44	0.53
1:AA:812:C:O2'	1:AA:813:U:P	2.67	0.53
1:AA:1356:G:H2'	1:AA:1357:A:H8	1.69	0.53
3:AC:164:ARG:NH2	3:AC:166:GLU:OE1	2.42	0.53
5:AE:152:ARG:HA	8:AH:64:LYS:HZ2	1.73	0.53
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.37	0.53
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.09	0.53
12:AL:110:VAL:HG21	12:AL:120:TYR:HD2	1.74	0.53
16:AP:9:PHE:CE2	16:AP:18:ARG:CZ	2.92	0.53
20:AT:103:GLY:O	20:AT:104:LEU:C	2.52	0.53
22:AV:35:A:O2'	22:AV:36:U:H5'	2.09	0.53
24:AY:28:THR:O	24:AY:32:ILE:HG13	2.09	0.53
24:AY:90:PHE:CG	24:AY:90:PHE:O	2.62	0.53
24:AY:446:THR:O	24:AY:448:GLN:N	2.41	0.53
24:AY:584:ILE:O	24:AY:588:MET:HG3	2.09	0.53
31:B6:19:ARG:O	31:B6:20:ASN:C	2.51	0.53
31:B6:45:LYS:HG2	35:BA:2371:G:C5'	2.39	0.53
35:BA:272(I):U:H5	35:BA:363(A):A:H2	1.57	0.53
35:BA:493:G:H2'	35:BA:494:G:O4'	2.09	0.53
35:BA:495:G:H1'	55:BW:57:ASN:OD1	2.08	0.53
35:BA:503:A:H4'	35:BA:504:U:H5'	1.91	0.53
35:BA:860:U:H5	35:BA:917:A:N7	2.07	0.53
35:BA:1233:C:H2'	35:BA:1234:U:H6	1.74	0.53
35:BA:1432:C:H2'	35:BA:1433:U:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2839:G:H2'	35:BA:2840:C:C6	2.44	0.53
37:BC:28:ARG:HH12	37:BC:183:PRO:HB2	1.74	0.53
46:BN:23:LEU:CB	46:BN:60:ILE:HG21	2.39	0.53
48:BP:47:ASP:OD1	48:BP:49:ARG:HB2	2.09	0.53
50:BR:113:LEU:HD12	50:BR:114:VAL:H	1.73	0.53
54:BV:38:LEU:C	54:BV:39:LEU:HD13	2.34	0.53
58:BZ:111:VAL:O	58:BZ:112:ARG:HB2	2.07	0.53
1:CA:39:G:O2'	1:CA:40:C:H5'	2.08	0.53
1:CA:192:U:H2'	1:CA:193:C:H6	1.74	0.53
1:CA:284:G:H2'	1:CA:285:G:H8	1.74	0.53
1:CA:707:C:O2'	1:CA:708:C:H5'	2.08	0.53
1:CA:793:U:O2	1:CA:1516:G:H4'	2.09	0.53
1:CA:972:C:H4'	10:CJ:57:LYS:HB2	1.91	0.53
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.91	0.53
1:CA:1202:G:C2	14:CN:42:ILE:HG21	2.44	0.53
1:CA:1271:G:H2'	1:CA:1272:G:C8	2.44	0.53
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.39	0.53
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.77	0.53
3:CC:154:SER:OG	3:CC:155:GLY:N	2.41	0.53
4:CD:33:MET:HG3	4:CD:37:PRO:HA	1.90	0.53
6:CF:21:LEU:O	6:CF:25:ILE:HG12	2.09	0.53
7:CG:18:TYR:CD2	7:CG:59:LEU:HD13	2.44	0.53
9:CI:40:LEU:C	9:CI:42:ARG:H	2.16	0.53
13:CM:52:GLU:HA	13:CM:55:ARG:HD3	1.91	0.53
17:CQ:12:SER:HB3	17:CQ:20:THR:OG1	2.09	0.53
18:CR:37:VAL:HG23	18:CR:38:GLU:HG2	1.90	0.53
20:CT:88:VAL:O	20:CT:92:LEU:HG	2.09	0.53
24:CY:440:VAL:HG12	24:CY:449:THR:HG21	1.91	0.53
24:CY:590:ILE:HD13	24:CY:593:ALA:CB	2.39	0.53
30:D5:27:PRO:CD	55:DW:23:LEU:HD11	2.39	0.53
35:DA:267:C:H2'	35:DA:268:C:C6	2.44	0.53
35:DA:536:A:H2'	35:DA:537:C:C6	2.43	0.53
35:DA:572:A:C2	35:DA:2033:A:C2	2.97	0.53
35:DA:852:G:H2'	35:DA:853:G:H8	1.74	0.53
35:DA:1156:A:C2'	35:DA:1157:G:OP1	2.57	0.53
35:DA:1161:C:H1'	54:DV:8:GLY:O	2.09	0.53
35:DA:1230:C:H2'	35:DA:1231:G:C8	2.44	0.53
35:DA:1759:A:H5'	35:DA:2715:C:H1'	1.90	0.53
35:DA:2156:G:H2'	35:DA:2157:G:O4'	2.09	0.53
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.37	0.53
37:DC:92:ALA:HB3	37:DC:95:VAL:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:3:GLY:HA3	39:DE:81:ILE:HD12	1.91	0.53
42:DH:13:LYS:O	42:DH:15:VAL:N	2.37	0.53
44:DK:84:LEU:HD21	44:DK:96:VAL:HB	1.91	0.53
47:DO:111:PHE:O	47:DO:115:VAL:HG23	2.09	0.53
52:DT:6:LEU:O	52:DT:7:ILE:C	2.51	0.53
52:DT:57:PHE:O	52:DT:58:ASN:C	2.51	0.53
54:DV:2:PHE:HB3	54:DV:41:GLY:C	2.34	0.53
57:DY:99:CYS:O	57:DY:100:ALA:O	2.27	0.53
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.38	0.52
1:AA:1490:C:C5'	1:AA:1490:C:C6	2.88	0.52
2:AB:90:MET:HE2	2:AB:90:MET:HA	1.89	0.52
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.91	0.52
3:AC:72:LYS:HA	3:AC:72:LYS:HE3	1.90	0.52
3:AC:131:ARG:NH2	3:AC:168:ALA:HB2	2.24	0.52
4:AD:33:MET:HG3	4:AD:37:PRO:HA	1.90	0.52
6:AF:22:GLU:O	6:AF:26:ILE:HG13	2.09	0.52
6:AF:24:GLU:OE2	6:AF:28:ARG:NH1	2.42	0.52
6:AF:80:ARG:NH1	6:AF:88:VAL:HB	2.23	0.52
13:AM:91:ARG:HH21	19:AS:81:ARG:HH21	1.57	0.52
17:AQ:12:SER:HB3	17:AQ:20:THR:OG1	2.09	0.52
19:AS:41:VAL:O	19:AS:43:GLU:N	2.42	0.52
22:AW:2:G:H2'	22:AW:3:C:C6	2.45	0.52
22:AW:20:G:C5	35:BA:2169:A:C2	2.97	0.52
24:AY:312:LEU:HD11	24:AY:401:SER:OG	2.09	0.52
24:AY:346:LYS:O	24:AY:347:GLY:C	2.52	0.52
27:B2:24:LEU:HD23	27:B2:24:LEU:C	2.34	0.52
35:BA:134:C:H2'	35:BA:135:G:C8	2.43	0.52
35:BA:212:G:H5'	35:BA:212:G:C8	2.34	0.52
35:BA:358:U:H2'	35:BA:359:A:C8	2.28	0.52
35:BA:654(P):C:H2'	35:BA:654(Q):C:H5'	1.91	0.52
35:BA:729:G:N7	38:BD:208:LYS:HB2	2.24	0.52
35:BA:813:U:H2'	35:BA:814:C:C5	2.44	0.52
35:BA:2113:U:H2'	35:BA:2114:A:H8	1.74	0.52
37:BC:88:GLU:HA	37:BC:95:VAL:HG21	1.91	0.52
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.24	0.52
40:BF:25:PRO:CB	40:BF:119:ARG:HD3	2.39	0.52
40:BF:81:PRO:C	40:BF:83:PHE:H	2.17	0.52
41:BG:100:TRP:O	41:BG:101:ILE:C	2.52	0.52
42:BH:72:ILE:O	42:BH:75:ALA:N	2.41	0.52
44:BK:19:PRO:HD3	44:BK:35:MET:HE3	1.90	0.52
44:BK:112:MET:N	44:BK:113:PRO:CD	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:20:VAL:HG23	55:BW:21:VAL:N	2.24	0.52
1:CA:189(A):C:H2'	1:CA:189(B):C:H6	1.72	0.52
1:CA:708:C:H2'	1:CA:709:G:H8	1.75	0.52
1:CA:937:A:C2	1:CA:1379:G:O6	2.62	0.52
1:CA:1131:G:C6	1:CA:1132:C:N4	2.78	0.52
1:CA:1226:C:H5'	13:CM:96:LEU:CD1	2.38	0.52
1:CA:1342:C:H1'	9:CI:124:GLN:HG3	1.90	0.52
2:CB:90:MET:HE2	2:CB:90:MET:HA	1.90	0.52
2:CB:194:PRO:O	2:CB:196:LEU:N	2.42	0.52
3:CC:28:GLN:O	3:CC:29:TYR:C	2.51	0.52
7:CG:29:LYS:CB	7:CG:105:VAL:HG21	2.39	0.52
7:CG:91:VAL:HG12	7:CG:92:SER:H	1.74	0.52
8:CH:114:THR:HG21	8:CH:129:VAL:HG23	1.91	0.52
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.72	0.52
10:CJ:6:ILE:HG13	10:CJ:72:VAL:O	2.09	0.52
15:CO:43:LEU:HD12	15:CO:56:LEU:HD22	1.92	0.52
16:CP:7:ALA:O	16:CP:17:TYR:HA	2.09	0.52
17:CQ:94:ASN:O	17:CQ:95:TYR:C	2.52	0.52
18:CR:44:LEU:HD22	18:CR:79:LEU:HD22	1.90	0.52
19:CS:43:GLU:O	19:CS:45:VAL:HG13	2.09	0.52
22:CW:2:G:H2'	22:CW:3:C:H6	1.73	0.52
24:CX:247:ARG:O	24:CX:251:ILE:HG13	2.09	0.52
24:CX:282:SER:C	24:CX:284:LEU:H	2.17	0.52
24:CX:496:LYS:HE2	24:CX:498:ILE:CD1	2.39	0.52
24:CX:609:GLU:HB2	24:CX:670:VAL:HG22	1.91	0.52
31:D6:5:VAL:CG1	31:D6:6:ARG:N	2.72	0.52
31:D6:8:LYS:HE3	31:D6:25:LYS:CD	2.31	0.52
35:DA:1035:U:H2'	35:DA:1036:G:H8	1.72	0.52
35:DA:2205:C:O2	35:DA:2205:C:H2'	2.08	0.52
35:DA:2373:G:H2'	35:DA:2374:C:C6	2.44	0.52
36:DB:13:A:O2'	36:DB:15:A:H5''	2.09	0.52
39:DE:105:THR:OG1	39:DE:199:ARG:NH2	2.41	0.52
41:DG:123:ASN:O	41:DG:125:PHE:N	2.41	0.52
42:DH:88:LEU:HD23	42:DH:164:TYR:O	2.09	0.52
48:DP:102:ARG:NH2	48:DP:102:ARG:CB	2.70	0.52
49:DQ:55:VAL:HG23	58:DZ:178:GLU:CG	2.39	0.52
53:DU:26:GLY:C	53:DU:28:ARG:N	2.66	0.52
53:DU:62:ILE:HG23	53:DU:76:TYR:CE1	2.44	0.52
1:AA:444:C:H42	1:AA:490:G:H1	1.57	0.52
1:AA:1073:U:O2'	1:AA:1074:G:H5'	2.09	0.52
2:AB:62:ALA:O	2:AB:64:ARG:N	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:82:ARG:HG2	2:AB:83:MET:HE2	1.90	0.52
3:AC:59:ARG:CG	3:AC:64:VAL:HA	2.39	0.52
12:AL:84:LEU:HD23	12:AL:101:VAL:HG21	1.91	0.52
24:AY:89:ASP:N	24:AY:89:ASP:OD2	2.43	0.52
24:AY:165:GLN:NE2	24:AY:177:ILE:HG21	2.25	0.52
24:AY:181:LEU:CD1	24:AY:242:LEU:HD13	2.40	0.52
24:AY:196:ILE:O	24:AY:197:ARG:CB	2.56	0.52
24:AY:423:LYS:CB	24:AY:472:VAL:HG22	2.28	0.52
28:B3:31:LEU:HD22	28:B3:32:GLN:N	2.24	0.52
30:B5:46:CYS:SG	30:B5:47:PRO:HD2	2.50	0.52
33:B8:7:HIS:HB3	33:B8:10:ALA:HB3	1.91	0.52
33:B8:50:LEU:C	33:B8:53:PRO:CD	2.82	0.52
35:BA:234:C:H2'	35:BA:235:U:C6	2.44	0.52
35:BA:675:A:H4'	40:BF:67:GLN:OE1	2.10	0.52
35:BA:816:C:O2'	35:BA:817:C:H5'	2.08	0.52
35:BA:2105:C:C2'	35:BA:2106:G:H5'	2.39	0.52
35:BA:2389:G:H5''	35:BA:2390:U:C5'	2.36	0.52
35:BA:2787:C:C2	39:BE:61:ARG:HD3	2.44	0.52
39:BE:201:THR:C	39:BE:202:LYS:HD2	2.35	0.52
44:BK:18:THR:C	44:BK:20:ALA:H	2.18	0.52
45:BM:26:UNK:HA	45:BM:30:UNK:O	2.10	0.52
46:BN:18:ALA:HB3	46:BN:21:LYS:HB2	1.92	0.52
47:BO:104:ARG:NH2	52:BT:33:LYS:HE3	2.24	0.52
48:BP:127:ALA:HB3	48:BP:130:PHE:CE1	2.44	0.52
49:BQ:58:PHE:HD1	49:BQ:58:PHE:O	1.92	0.52
51:BS:26:LEU:O	51:BS:88:ASP:HB3	2.09	0.52
54:BV:39:LEU:N	54:BV:39:LEU:HD22	2.24	0.52
56:BX:41:ASN:C	56:BX:43:VAL:N	2.67	0.52
1:CA:129(A):G:H5''	1:CA:129(A):G:C8	2.45	0.52
1:CA:328:C:O2	1:CA:328:C:C2'	2.56	0.52
1:CA:424:G:H2'	1:CA:425:G:H8	1.75	0.52
1:CA:1053:G:H4'	1:CA:1054:C:H5'	1.90	0.52
1:CA:1271:G:H2'	1:CA:1272:G:H8	1.74	0.52
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.39	0.52
19:CS:5:LEU:HD12	19:CS:8:GLY:C	2.34	0.52
20:CT:48:LYS:HD2	20:CT:51:GLU:OE2	2.08	0.52
24:CY:138:LYS:HG2	62:CY:703:GDP:C5	2.44	0.52
24:CY:409:ILE:CD1	24:CY:654:GLY:HA2	2.39	0.52
24:CY:510:VAL:HG22	24:CY:534:ILE:HD11	1.91	0.52
29:D4:31:ILE:CG2	29:D4:33:VAL:HG23	2.39	0.52
30:D5:44:THR:HG23	50:DR:101:ALA:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:15:LYS:HB2	48:DP:65:ARG:HH12	1.73	0.52
35:DA:637:A:OP2	48:DP:115:LEU:HB2	2.09	0.52
35:DA:1398:C:H2'	35:DA:1399:C:H6	1.72	0.52
36:DB:60:C:H2'	36:DB:61:G:C8	2.41	0.52
37:DC:88:GLU:CA	37:DC:95:VAL:HG21	2.40	0.52
38:DD:238:GLY:O	38:DD:239:ARG:O	2.27	0.52
41:DG:82:LEU:HD13	41:DG:87:PRO:HB3	1.90	0.52
41:DG:159:VAL:HG22	41:DG:159:VAL:O	2.10	0.52
42:DH:152:ARG:O	42:DH:153:LYS:C	2.53	0.52
44:DK:37:PHE:C	44:DK:39:LYS:H	2.17	0.52
46:DN:14:VAL:HG13	46:DN:137:LYS:HG3	1.90	0.52
46:DN:125:GLY:HA3	46:DN:126:PRO:C	2.33	0.52
48:DP:83:VAL:HG11	48:DP:112:LEU:HD21	1.90	0.52
50:DR:55:ALA:HB2	50:DR:79:LEU:HD11	1.92	0.52
52:DT:62:THR:HG22	52:DT:75:ILE:HG13	1.90	0.52
52:DT:85:LYS:HB3	52:DT:85:LYS:HZ2	1.71	0.52
52:DT:120:ARG:HA	52:DT:123:GLN:HG2	1.91	0.52
57:DY:84:ARG:HG2	57:DY:84:ARG:NH1	2.22	0.52
58:DZ:72:ARG:HH11	58:DZ:72:ARG:HG3	1.74	0.52
58:DZ:94:GLU:O	58:DZ:130:PRO:HD3	2.09	0.52
1:AA:192:U:H2'	1:AA:193:C:H6	1.71	0.52
1:AA:658:G:O4'	15:AO:22:THR:HB	2.09	0.52
1:AA:1038:C:H2'	1:AA:1039:C:C6	2.44	0.52
2:AB:98:LEU:O	2:AB:101:MET:HB2	2.09	0.52
3:AC:82:GLU:N	3:AC:82:GLU:CD	2.68	0.52
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.24	0.52
5:AE:91:LEU:HD13	5:AE:120:THR:HG22	1.90	0.52
5:AE:101:ILE:HD13	5:AE:101:ILE:N	2.18	0.52
6:AF:15:ASP:C	6:AF:17:SER:H	2.17	0.52
6:AF:42:GLU:C	6:AF:44:GLY:N	2.68	0.52
7:AG:51:GLN:OE1	7:AG:51:GLN:HA	2.09	0.52
10:AJ:3:LYS:HD2	10:AJ:77:PRO:CD	2.39	0.52
10:AJ:79:ARG:HH11	10:AJ:79:ARG:N	2.07	0.52
13:AM:72:ALA:O	13:AM:73:GLU:C	2.53	0.52
24:AY:177:ILE:HG22	24:AY:178:ILE:N	2.24	0.52
24:AY:517:LEU:HB3	24:AY:521:SER:HB2	1.91	0.52
24:AY:689:LYS:HG3	24:AY:690:GLY:N	2.23	0.52
27:B2:3:LEU:HD22	27:B2:7:ARG:NH2	2.24	0.52
29:B4:1:MET:H1	36:BB:43:C:H4'	1.74	0.52
32:B7:33:ARG:NH1	35:BA:467:G:OP1	2.42	0.52
35:BA:769:G:H2'	35:BA:770:G:H8	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1683:C:H2'	35:BA:1684:C:C6	2.44	0.52
35:BA:2105:C:H2'	35:BA:2106:G:H5'	1.91	0.52
35:BA:2142:C:O2'	35:BA:2143:C:H5'	2.09	0.52
35:BA:2461:C:O2	35:BA:2461:C:C2'	2.57	0.52
35:BA:2886:G:H2'	35:BA:2887:U:H6	1.74	0.52
36:BB:114:C:O2'	51:BS:46:VAL:HG13	2.09	0.52
37:BC:88:GLU:CA	37:BC:95:VAL:HG21	2.40	0.52
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	1.92	0.52
39:BE:105:THR:OG1	39:BE:199:ARG:NH2	2.43	0.52
41:BG:76:SER:HA	41:BG:83:ARG:HB3	1.91	0.52
42:BH:118:PRO:CG	42:BH:121:ILE:HD12	2.37	0.52
46:BN:35:ARG:O	46:BN:37:LYS:HB2	2.09	0.52
48:BP:9:ASN:N	48:BP:10:PRO:HD2	2.24	0.52
49:BQ:50:ALA:O	49:BQ:51:ARG:C	2.52	0.52
58:BZ:24:LEU:HD23	58:BZ:25:PRO:O	2.09	0.52
1:CA:407:G:H2'	1:CA:408:A:H8	1.74	0.52
1:CA:555:C:H2'	1:CA:556:C:C6	2.44	0.52
1:CA:1369:C:H2'	1:CA:1370:G:H8	1.67	0.52
6:CF:7:ASN:OD1	6:CF:62:TRP:HD1	1.91	0.52
10:CJ:54:PHE:O	10:CJ:55:LYS:C	2.53	0.52
14:CN:36:PHE:C	14:CN:36:PHE:CD1	2.88	0.52
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.89	0.52
24:CY:87:HIS:O	24:CY:89:ASP:N	2.42	0.52
24:CY:292:THR:HA	24:CY:297:GLU:O	2.10	0.52
24:CY:359:HIS:HB2	24:CY:362:HIS:O	2.09	0.52
29:D4:16:CYS:SG	29:D4:17:GLY:N	2.83	0.52
31:D6:19:ARG:O	31:D6:20:ASN:C	2.52	0.52
33:D8:47:LYS:HZ3	33:D8:49:VAL:HG13	1.74	0.52
35:DA:234:C:H2'	35:DA:235:U:C6	2.44	0.52
35:DA:285:C:O2'	35:DA:286:C:H5''	2.09	0.52
35:DA:302:C:P	57:DY:73:ARG:HH12	2.32	0.52
35:DA:1614:A:N1	55:DW:91:GLY:HA2	2.24	0.52
35:DA:2478:A:H2'	35:DA:2479:G:O4'	2.09	0.52
35:DA:2736:G:O2'	35:DA:2737:G:H5'	2.09	0.52
35:DA:2855:C:H2'	35:DA:2856:C:C6	2.42	0.52
38:DD:134:ARG:HG3	38:DD:135:PHE:HD1	1.74	0.52
41:DG:85:GLY:C	41:DG:87:PRO:CD	2.81	0.52
42:DH:29:PRO:HD2	42:DH:79:VAL:O	2.09	0.52
46:DN:78:TYR:N	46:DN:78:TYR:CD1	2.76	0.52
48:DP:64:LYS:C	48:DP:66:GLY:N	2.66	0.52
48:DP:85:LEU:HD23	48:DP:85:LEU:N	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:44:LEU:HD13	50:DR:44:LEU:C	2.35	0.52
53:DU:61:TRP:CB	53:DU:93:LYS:HB3	2.39	0.52
54:DV:25:LEU:H	54:DV:92:THR:HG21	1.74	0.52
54:DV:72:VAL:HG23	54:DV:85:LYS:HB2	1.92	0.52
57:DY:86:ARG:HB3	57:DY:88:LYS:HZ1	1.73	0.52
57:DY:94:LYS:HG3	57:DY:102:CYS:SG	2.49	0.52
1:AA:433:C:O2'	1:AA:434:U:H5'	2.10	0.52
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.73	0.52
1:AA:1375:A:H5'	1:AA:1376:U:OP2	2.10	0.52
3:AC:5:ILE:N	3:AC:5:ILE:CD1	2.72	0.52
3:AC:25:GLY:O	3:AC:27:LYS:N	2.37	0.52
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.09	0.52
3:AC:134:ILE:O	3:AC:137:ALA:N	2.42	0.52
4:AD:13:ARG:O	4:AD:16:GLY:N	2.36	0.52
5:AE:101:ILE:HD11	5:AE:119:LEU:HD22	1.92	0.52
6:AF:72:VAL:HG13	6:AF:73:ASN:N	2.24	0.52
10:AJ:22:LYS:HZ2	10:AJ:88:LEU:HD23	1.74	0.52
22:AV:7:G:H3'	22:AV:8:U:C5'	2.37	0.52
24:AY:125:ALA:C	24:AY:127:LYS:H	2.17	0.52
24:AY:341:VAL:CG2	24:AY:350:GLU:HB2	2.39	0.52
24:AY:411:VAL:CG1	24:AY:412:ALA:N	2.71	0.52
24:AY:637:ARG:O	24:AY:638:GLY:C	2.52	0.52
27:B2:38:GLN:C	27:B2:40:SER:N	2.67	0.52
34:B9:31:LYS:HE2	35:BA:2478:A:H5'	1.91	0.52
35:BA:135:G:O2'	35:BA:136:G:H5'	2.08	0.52
35:BA:230:U:O2'	35:BA:231:C:H5'	2.09	0.52
35:BA:363(F):A:O2'	35:BA:364:C:P	2.67	0.52
35:BA:455:C:N3	35:BA:473:G:H5'	2.24	0.52
35:BA:528:A:C2	35:BA:2043:C:C5'	2.92	0.52
35:BA:648:G:H2'	35:BA:649:G:H8	1.73	0.52
35:BA:1015:G:H2'	35:BA:1016:G:H8	1.74	0.52
35:BA:1063:G:O2'	44:BK:87:GLY:HA3	2.09	0.52
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.09	0.52
35:BA:2229:C:O2'	35:BA:2230:G:H5'	2.10	0.52
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.64	0.52
35:BA:2645:G:H4'	35:BA:2732:G:HO2'	1.71	0.52
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.38	0.52
39:BE:93:VAL:HG12	39:BE:175:VAL:HG21	1.90	0.52
41:BG:27:ASN:HB3	41:BG:30:GLU:H	1.73	0.52
44:BK:93:ARG:HD2	44:BK:93:ARG:C	2.35	0.52
46:BN:66:LYS:O	46:BN:67:LEU:HD23	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:10:VAL:O	47:BO:10:VAL:HG23	2.10	0.52
48:BP:33:ARG:O	48:BP:35:HIS:O	2.26	0.52
49:BQ:17:LEU:C	49:BQ:18:LYS:HD2	2.34	0.52
52:BT:6:LEU:O	52:BT:9:LEU:N	2.42	0.52
52:BT:65:LYS:HA	52:BT:65:LYS:HZ1	1.75	0.52
54:BV:37:VAL:HG23	54:BV:37:VAL:O	2.10	0.52
54:BV:69:LYS:HE3	54:BV:71:LEU:HD21	1.92	0.52
55:BW:59:VAL:HG21	55:BW:66:GLU:HB2	1.92	0.52
57:BY:7:VAL:HB	57:BY:8:LYS:CE	2.39	0.52
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.08	0.52
58:BZ:3:TYR:HD2	58:BZ:47:VAL:HG13	1.75	0.52
58:BZ:127:LYS:HZ3	58:BZ:127:LYS:HB3	1.74	0.52
1:CA:80:G:H5''	1:CA:81:U:H5'	1.92	0.52
1:CA:189(D):C:H2'	1:CA:189(E):U:O4'	2.10	0.52
1:CA:300:A:H2'	1:CA:301:G:O4'	2.08	0.52
1:CA:824:C:H2'	1:CA:825:G:H8	1.73	0.52
1:CA:1314:C:H2'	1:CA:1315:U:H6	1.74	0.52
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.39	0.52
1:CA:1344:C:O2'	1:CA:1345:U:H5'	2.09	0.52
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.91	0.52
2:CB:238:LEU:O	2:CB:238:LEU:HG	2.08	0.52
3:CC:90:GLU:C	3:CC:93:LYS:HB3	2.34	0.52
3:CC:142:MET:HE1	3:CC:148:GLY:HA2	1.90	0.52
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.71	0.52
12:CL:60:LEU:N	12:CL:60:LEU:HD22	2.23	0.52
16:CP:9:PHE:CE2	16:CP:18:ARG:CZ	2.92	0.52
22:CV:3:C:N4	22:CV:70:G:H1	2.06	0.52
22:CW:65:G:H2'	22:CW:66:C:C1'	2.39	0.52
27:D2:48:HIS:CG	27:D2:49:LYS:N	2.76	0.52
27:D2:57:ILE:O	27:D2:61:LEU:HG	2.10	0.52
31:D6:6:ARG:C	31:D6:8:LYS:H	2.15	0.52
35:DA:64:A:H2'	35:DA:65:C:C6	2.45	0.52
35:DA:610:G:H22	35:DA:619:G:H1'	1.75	0.52
35:DA:1461:G:H2'	35:DA:1462:C:H6	1.74	0.52
35:DA:1812:A:H2'	35:DA:1813:G:C8	2.44	0.52
35:DA:1814:G:H4'	38:DD:51:VAL:HG21	1.91	0.52
35:DA:1829:A:N3	38:DD:15:PHE:HZ	2.08	0.52
35:DA:2161:C:O2'	35:DA:2162:G:H5'	2.09	0.52
36:DB:61:G:O2'	36:DB:62:C:H5'	2.09	0.52
37:DC:60:ARG:HG2	37:DC:61:GLY:N	2.25	0.52
39:DE:57:LYS:HZ3	39:DE:63:LEU:HG	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:144:ARG:O	39:DE:145:LYS:O	2.26	0.52
48:DP:7:ARG:HA	48:DP:7:ARG:NH1	2.25	0.52
49:DQ:50:ALA:O	49:DQ:51:ARG:C	2.52	0.52
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.08	0.52
51:DS:106:ARG:O	51:DS:107:GLU:CB	2.57	0.52
53:DU:61:TRP:HB3	53:DU:93:LYS:HB3	1.90	0.52
54:DV:79:VAL:O	54:DV:80:GLN:HB2	2.09	0.52
56:DX:41:ASN:C	56:DX:43:VAL:N	2.67	0.52
1:AA:54:C:H2'	1:AA:352:C:N4	2.25	0.52
1:AA:188:C:H2'	1:AA:189:G:C8	2.42	0.52
1:AA:346:G:H2'	1:AA:347:G:O4'	2.10	0.52
1:AA:368:U:OP1	24:AY:351:ARG:NH1	2.41	0.52
1:AA:1004:A:H5'	1:AA:1025:U:N3	2.25	0.52
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.45	0.52
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.09	0.52
2:AB:148:TYR:O	2:AB:149:LEU:HD23	2.10	0.52
7:AG:18:TYR:CD2	7:AG:59:LEU:HD13	2.44	0.52
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.74	0.52
19:AS:42:PRO:C	19:AS:43:GLU:HG3	2.33	0.52
20:AT:48:LYS:HB3	20:AT:51:GLU:CG	2.38	0.52
22:AV:2:G:C5'	25:B0:8:GLY:HA2	2.40	0.52
24:AY:121:VAL:CG2	24:AY:122:TRP:H	2.22	0.52
24:AY:530:VAL:HG22	24:AY:531:GLY:H	1.73	0.52
24:AY:590:ILE:C	24:AY:592:GLU:H	2.18	0.52
31:B6:9:LEU:HD12	31:B6:28:ARG:CG	2.40	0.52
31:B6:15:GLU:HB2	31:B6:47:THR:HG21	1.91	0.52
31:B6:25:LYS:HE2	33:B8:34:TRP:HE1	1.74	0.52
35:BA:246:C:H2'	35:BA:247:G:H5'	1.92	0.52
35:BA:285:C:O2'	35:BA:286:C:H5''	2.09	0.52
35:BA:426:C:O2'	35:BA:427:U:H5'	2.09	0.52
35:BA:1145:C:H2'	35:BA:1146:C:C6	2.45	0.52
35:BA:1453:U:H2'	35:BA:1455:G:N7	2.24	0.52
35:BA:1654:A:C2	39:BE:113:PHE:CD1	2.98	0.52
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.25	0.52
37:BC:118:PRO:HB2	37:BC:148:PHE:CZ	2.44	0.52
38:BD:30:GLU:HG3	38:BD:63:ARG:CZ	2.39	0.52
39:BE:4:ILE:CG1	39:BE:5:LEU:N	2.72	0.52
39:BE:57:LYS:HZ3	39:BE:63:LEU:HG	1.74	0.52
39:BE:101:ARG:NH1	39:BE:169:ASN:ND2	2.56	0.52
40:BF:66:PRO:O	40:BF:67:GLN:HB3	2.09	0.52
50:BR:10:LEU:HB3	50:BR:17:ARG:NE	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:56:ASP:O	53:BU:59:ARG:HB2	2.10	0.52
56:BX:12:VAL:CG1	56:BX:27:THR:HG23	2.38	0.52
1:CA:1112:C:O2'	3:CC:179:ARG:HG2	2.10	0.52
1:CA:1261:A:C2'	1:CA:1262:C:H5'	2.39	0.52
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.50	0.52
3:CC:15:THR:HG21	3:CC:181:ASN:HA	1.90	0.52
3:CC:90:GLU:HA	3:CC:93:LYS:HB3	1.92	0.52
5:CE:11:ILE:HG13	5:CE:33:VAL:HG23	1.91	0.52
9:CI:79:LEU:O	9:CI:80:GLY:C	2.51	0.52
9:CI:104:ARG:O	9:CI:105:ASP:CB	2.56	0.52
11:CK:33:THR:HB	11:CK:38:ASN:O	2.09	0.52
15:CO:9:GLN:O	15:CO:10:LYS:C	2.52	0.52
16:CP:3:LYS:HG2	16:CP:65:GLN:HB2	1.90	0.52
18:CR:88:LYS:HD3	18:CR:88:LYS:C	2.34	0.52
20:CT:33:ILE:CD1	20:CT:63:ILE:HA	2.39	0.52
24:CY:91:THR:O	24:CY:92:ILE:C	2.52	0.52
24:CY:141:LYS:HE3	62:CY:703:GDP:N2	2.25	0.52
24:CY:223:PHE:CZ	24:CY:249:GLY:HA3	2.45	0.52
26:D1:86:SER:CB	26:D1:90:ILE:HG12	2.39	0.52
29:D4:3:GLU:HG3	36:DB:43:C:OP1	2.10	0.52
31:D6:54:ILE:HD13	35:DA:2420:C:C4'	2.39	0.52
33:D8:28:GLY:HA2	33:D8:32:LEU:HD21	1.90	0.52
35:DA:259:G:H1'	35:DA:621:A:O2'	2.08	0.52
35:DA:493:G:H2'	35:DA:494:G:O4'	2.09	0.52
35:DA:624:C:N4	48:DP:107:LYS:NZ	2.57	0.52
35:DA:909:A:O2'	35:DA:910:A:H5'	2.09	0.52
35:DA:1248:G:N3	53:DU:3:ARG:HD2	2.25	0.52
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.09	0.52
35:DA:2348:U:C2'	35:DA:2349:G:C5'	2.87	0.52
35:DA:2572:A:C8	39:DE:144:ARG:HB3	2.44	0.52
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.44	0.52
37:DC:97:GLY:O	37:DC:100:ILE:HG12	2.09	0.52
48:DP:9:ASN:N	48:DP:10:PRO:CD	2.73	0.52
51:DS:12:PHE:C	51:DS:12:PHE:CD1	2.87	0.52
52:DT:64:ARG:HH11	52:DT:64:ARG:HG2	1.74	0.52
53:DU:56:ASP:O	53:DU:59:ARG:HB2	2.09	0.52
53:DU:64:ARG:O	53:DU:65:ILE:C	2.53	0.52
2:AB:187:LEU:HD23	2:AB:214:ILE:HG21	1.92	0.52
2:AB:194:PRO:O	2:AB:196:LEU:N	2.43	0.52
3:AC:5:ILE:HD13	3:AC:5:ILE:N	2.24	0.52
4:AD:165:MET:HE3	4:AD:176:LEU:CD2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.91	0.52
11:AK:111:ASP:HA	18:AR:84:LYS:CD	2.31	0.52
19:AS:6:LYS:HE3	19:AS:6:LYS:N	2.25	0.52
24:AY:9:LEU:C	24:AY:11:ARG:N	2.65	0.52
24:AY:12:LEU:HB3	24:AY:283:PRO:CG	2.39	0.52
27:B2:33:MET:O	27:B2:37:PHE:HD1	1.91	0.52
31:B6:27:LYS:HB3	31:B6:32:ASN:HD22	1.75	0.52
35:BA:451:C:H41	35:BA:453:C:H3'	1.74	0.52
35:BA:737:C:H2'	35:BA:738:G:H5'	1.91	0.52
35:BA:1080:C:H4'	44:BK:125:ARG:CB	2.40	0.52
35:BA:1485:G:C1'	35:BA:1505:C:H42	2.18	0.52
35:BA:1713:U:O2'	35:BA:1714:G:H5'	2.10	0.52
35:BA:1754:C:OP1	52:BT:96:ARG:NH1	2.42	0.52
35:BA:1821:A:H2'	35:BA:1822:G:H8	1.74	0.52
35:BA:2313:C:H5'	35:BA:2313:C:C6	2.41	0.52
35:BA:2347:C:H2'	35:BA:2348:U:C5	2.44	0.52
37:BC:98:GLU:O	37:BC:101:ILE:HD13	2.09	0.52
39:BE:1:MET:HB2	39:BE:83:ASP:O	2.10	0.52
40:BF:117:ARG:NH2	48:BP:5:ASP:N	2.58	0.52
41:BG:114:ILE:HG22	41:BG:114:ILE:O	2.10	0.52
43:BJ:10:UNK:O	43:BJ:11:UNK:CB	2.58	0.52
44:BK:69:THR:C	44:BK:70:LYS:HE3	2.35	0.52
47:BO:64:ARG:HH21	47:BO:100:GLY:HA3	1.74	0.52
47:BO:69:ILE:HD13	47:BO:77:ILE:CG2	2.35	0.52
48:BP:85:LEU:HD23	48:BP:85:LEU:N	2.17	0.52
50:BR:26:LYS:CE	50:BR:71:GLN:H	2.23	0.52
54:BV:72:VAL:HG23	54:BV:85:LYS:HB2	1.91	0.52
57:BY:62:GLU:CG	57:BY:63:LYS:N	2.73	0.52
57:BY:77:PRO:O	57:BY:99:CYS:SG	2.61	0.52
57:BY:97:ARG:HG3	57:BY:97:ARG:NH1	2.24	0.52
1:CA:423:G:C2'	1:CA:424:G:H5'	2.40	0.52
1:CA:956:U:H2'	1:CA:957:U:H6	1.74	0.52
1:CA:998:G:H2'	1:CA:999:C:N1	2.24	0.52
1:CA:1002:G:N2	1:CA:1039:C:H2'	2.25	0.52
1:CA:1347:G:O2'	1:CA:1348:U:OP2	2.28	0.52
1:CA:1378:C:O2	7:CG:76:ARG:NH2	2.43	0.52
3:CC:5:ILE:N	3:CC:5:ILE:CD1	2.72	0.52
6:CF:62:TRP:O	6:CF:63:TYR:CG	2.63	0.52
12:CL:46:LYS:HB2	12:CL:92:ASP:O	2.09	0.52
30:D5:10:LYS:HB2	35:DA:2017:U:O2	2.10	0.52
33:D8:53:PRO:HA	33:D8:56:GLU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:194:G:H2'	35:DA:195:A:O4'	2.10	0.52
35:DA:272(I):U:H5	35:DA:363(A):A:H2	1.57	0.52
35:DA:548:A:C3'	35:DA:549:G:H5'	2.39	0.52
35:DA:675:A:H4'	40:DF:67:GLN:OE1	2.08	0.52
35:DA:1204:A:H61	35:DA:1240:U:H2'	1.73	0.52
35:DA:1205:U:C5	40:DF:171:PRO:HA	2.45	0.52
35:DA:1782:C:H2'	35:DA:1783:A:H5'	1.92	0.52
35:DA:1839:G:N3	35:DA:1839:G:H2'	2.24	0.52
35:DA:1985:G:O2'	35:DA:1986:A:H5'	2.09	0.52
35:DA:2121:G:O2'	37:DC:168:LYS:HG2	2.09	0.52
35:DA:2771:C:H2'	35:DA:2772:C:C6	2.45	0.52
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.78	0.52
42:DH:68:THR:C	42:DH:70:THR:N	2.68	0.52
46:DN:49:GLY:CA	46:DN:119:ARG:HH12	2.22	0.52
47:DO:104:ARG:NH2	52:DT:33:LYS:HE3	2.24	0.52
48:DP:85:LEU:HD12	48:DP:120:ALA:CB	2.33	0.52
49:DQ:12:GLN:NE2	49:DQ:72:LYS:HG3	2.25	0.52
49:DQ:67:ARG:HD2	49:DQ:105:GLU:OE1	2.10	0.52
51:DS:70:GLY:C	51:DS:72:ALA:N	2.68	0.52
54:DV:93:GLU:O	54:DV:94:LEU:HD23	2.10	0.52
56:DX:63:LYS:HA	56:DX:72:LYS:HA	1.90	0.52
58:DZ:39:VAL:O	58:DZ:40:ASP:C	2.52	0.52
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.74	0.52
1:AA:418:C:H2'	1:AA:419:C:C6	2.45	0.52
1:AA:423:G:H2'	1:AA:424:G:H5'	1.91	0.52
1:AA:1026:G:C3'	1:AA:1027:C:H5'	2.40	0.52
1:AA:1351:U:O4'	7:AG:33:ASP:HB3	2.09	0.52
4:AD:107:ARG:HH21	4:AD:194:LEU:HD12	1.75	0.52
9:AI:33:PHE:C	9:AI:35:GLU:H	2.18	0.52
9:AI:69:GLY:O	9:AI:73:GLN:HG3	2.10	0.52
13:AM:119:GLY:O	13:AM:120:LYS:HB2	2.10	0.52
15:AO:25:THR:O	15:AO:26:GLU:C	2.53	0.52
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.34	0.52
16:AP:19:ILE:N	16:AP:37:GLY:O	2.39	0.52
19:AS:31:ILE:HG23	19:AS:31:ILE:O	2.10	0.52
19:AS:41:VAL:O	19:AS:41:VAL:HG23	2.09	0.52
24:AY:221:ALA:C	24:AY:223:PHE:H	2.18	0.52
24:AY:282:SER:O	24:AY:284:LEU:N	2.43	0.52
24:AY:486:THR:HG23	24:AY:600:VAL:HG13	1.91	0.52
24:AY:580:MET:HE3	24:AY:584:ILE:CG1	2.39	0.52
27:B2:7:ARG:HH11	27:B2:7:ARG:HG3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:15:TYR:HD2	28:B3:19:GLN:HE22	1.57	0.52
28:B3:56:VAL:CG1	28:B3:57:GLU:N	2.73	0.52
31:B6:27:LYS:O	31:B6:27:LYS:CD	2.55	0.52
31:B6:37:ARG:NH2	35:BA:2286:A:N6	2.58	0.52
32:B7:46:VAL:CG1	32:B7:47:ARG:N	2.73	0.52
35:BA:154(A):C:H3'	35:BA:155:U:H5''	1.92	0.52
35:BA:402:A:O2'	35:BA:403:U:H5'	2.10	0.52
35:BA:1491:G:N2	35:BA:1492:G:H1'	2.24	0.52
35:BA:1542:A:H3'	35:BA:1542:A:H8	1.74	0.52
35:BA:1624:G:O2'	35:BA:1625:C:H5'	2.10	0.52
35:BA:1819:A:H1'	35:BA:1821:A:C6	2.45	0.52
35:BA:1865:G:C2'	35:BA:1866:C:H5''	2.40	0.52
35:BA:2816:C:O2	35:BA:2883:A:O2'	2.28	0.52
40:BF:204:ASN:C	40:BF:206:ILE:H	2.17	0.52
42:BH:159:GLU:O	42:BH:160:LYS:O	2.26	0.52
48:BP:62:LEU:H	48:BP:62:LEU:HD22	1.71	0.52
48:BP:83:VAL:HG11	48:BP:112:LEU:HD21	1.91	0.52
48:BP:98:GLU:O	48:BP:101:VAL:HG22	2.10	0.52
48:BP:99:LEU:HA	48:BP:102:ARG:HH12	1.74	0.52
50:BR:87:TYR:C	50:BR:89:ASP:N	2.66	0.52
52:BT:56:GLY:O	52:BT:59:THR:HG23	2.10	0.52
1:CA:630:G:H2'	1:CA:631:G:H5''	1.85	0.52
1:CA:680:C:O2'	1:CA:681:C:H5'	2.10	0.52
1:CA:818:G:O2'	1:CA:819:A:H5'	2.10	0.52
1:CA:972:C:H4'	10:CJ:57:LYS:CB	2.40	0.52
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.91	0.52
2:CB:121:LEU:HA	2:CB:124:SER:HB3	1.92	0.52
4:CD:9:CYS:HB3	4:CD:32:ALA:HB2	1.90	0.52
5:CE:142:LEU:O	5:CE:143:ARG:NE	2.43	0.52
10:CJ:55:LYS:CE	10:CJ:55:LYS:N	2.63	0.52
16:CP:50:LYS:HG2	16:CP:51:VAL:H	1.74	0.52
19:CS:19:VAL:CG1	19:CS:44:MET:HG2	2.40	0.52
22:CW:52:C:H2'	22:CW:53:G:H5''	1.91	0.52
24:CY:334:THR:CG2	24:CY:368:GLU:HB2	2.40	0.52
24:CY:518:PRO:O	24:CY:519:ARG:C	2.52	0.52
61:CY:702:FUA:O1	61:CY:702:FUA:H201	2.09	0.52
29:D4:53:GLU:OE1	29:D4:55:ARG:HD3	2.09	0.52
30:D5:45:VAL:HG22	30:D5:51:TYR:CD1	2.44	0.52
34:D9:4:ARG:HH12	35:DA:2477:C:N4	2.07	0.52
35:DA:123:G:O2'	35:DA:124:G:H5'	2.10	0.52
35:DA:134:C:H2'	35:DA:135:G:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:455:C:N3	35:DA:473:G:H5'	2.25	0.52
35:DA:1865:G:C2'	35:DA:1866:C:H5''	2.40	0.52
35:DA:1908:C:H2'	35:DA:1909:C:H6	1.74	0.52
35:DA:1983:C:O2'	35:DA:1984:G:H5'	2.10	0.52
35:DA:2105:C:H2'	35:DA:2106:G:H5'	1.91	0.52
38:DD:39:LYS:HZ2	38:DD:87:ASN:HB3	1.74	0.52
39:DE:93:VAL:C	39:DE:95:ILE:N	2.67	0.52
41:DG:101:ILE:O	41:DG:104:GLU:HB3	2.10	0.52
41:DG:102:PHE:C	41:DG:104:GLU:N	2.67	0.52
41:DG:131:TYR:CE2	41:DG:133:LEU:HD23	2.39	0.52
42:DH:13:LYS:C	42:DH:15:VAL:H	2.16	0.52
42:DH:41:MET:HE3	42:DH:42:ARG:C	2.35	0.52
46:DN:15:LEU:HD12	46:DN:136:GLU:HG3	1.92	0.52
47:DO:61:VAL:HG21	47:DO:111:PHE:CE2	2.45	0.52
48:DP:13:ASN:O	48:DP:14:LYS:CB	2.57	0.52
50:DR:10:LEU:HB3	50:DR:17:ARG:NE	2.25	0.52
51:DS:26:LEU:O	51:DS:88:ASP:HB3	2.10	0.52
55:DW:88:ARG:HD3	55:DW:94:ASP:OD1	2.09	0.52
58:DZ:81:ARG:HB3	58:DZ:81:ARG:HH11	1.73	0.52
1:AA:187:C:OP1	20:AT:82:SER:HB2	2.08	0.52
1:AA:490:G:H2'	1:AA:491:G:C8	2.41	0.52
1:AA:1129:C:H5'	1:AA:1129:C:C6	2.44	0.52
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.10	0.52
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.88	0.52
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.40	0.52
4:AD:120:LEU:HB3	4:AD:126:ILE:HD11	1.92	0.52
7:AG:69:VAL:HG21	7:AG:104:LEU:HD21	1.92	0.52
9:AI:93:ARG:HA	9:AI:96:LEU:HB2	1.91	0.52
10:AJ:82:ILE:O	10:AJ:86:MET:CB	2.58	0.52
15:AO:65:ARG:HG2	15:AO:65:ARG:NH1	2.25	0.52
18:AR:37:VAL:HG23	18:AR:38:GLU:HG2	1.91	0.52
22:AW:1:C:H2'	22:AW:2:G:C8	2.40	0.52
22:AW:12:G:N2	22:AW:13:C:H1'	2.25	0.52
24:AY:180:VAL:HG23	24:AY:216:LEU:CD1	2.37	0.52
24:AY:340:TYR:CE1	24:AY:351:ARG:HB2	2.45	0.52
24:AY:413:ILE:HD11	24:AY:474:ALA:HB3	1.92	0.52
28:B3:17:LYS:HZ2	28:B3:20:LYS:HE3	1.74	0.52
33:B8:13:ARG:HB3	48:BP:63:PRO:HB3	1.91	0.52
34:B9:29:ASN:ND2	34:B9:29:ASN:H	2.07	0.52
35:BA:7:G:O2'	35:BA:8:A:H5'	2.10	0.52
35:BA:881:G:C2'	35:BA:882:G:H5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1400:G:H2'	35:BA:1401:G:C8	2.44	0.52
35:BA:1654:A:P	50:BR:3:HIS:HB2	2.49	0.52
35:BA:1853:A:H2'	35:BA:1854:A:C8	2.44	0.52
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.45	0.52
40:BF:9:ILE:HG12	40:BF:15:SER:N	2.24	0.52
40:BF:110:LEU:CD1	40:BF:206:ILE:HD11	2.31	0.52
41:BG:34:LEU:HD13	41:BG:99:MET:CE	2.39	0.52
46:BN:74:ARG:NH2	46:BN:83:LYS:HD3	2.24	0.52
47:BO:63:VAL:O	47:BO:64:ARG:HG2	2.10	0.52
48:BP:102:ARG:HG2	48:BP:102:ARG:O	2.09	0.52
49:BQ:12:GLN:NE2	49:BQ:72:LYS:HG3	2.24	0.52
51:BS:51:ALA:HB3	51:BS:73:LEU:HB2	1.92	0.52
51:BS:98:VAL:C	51:BS:100:ALA:N	2.60	0.52
55:BW:41:LYS:C	55:BW:43:GLY:H	2.18	0.52
55:BW:88:ARG:HD3	55:BW:94:ASP:OD1	2.09	0.52
1:CA:155:C:H2'	1:CA:156:G:H8	1.75	0.52
1:CA:560:U:H4'	1:CA:561:U:H5''	1.92	0.52
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.91	0.52
4:CD:17:VAL:O	4:CD:18:LYS:O	2.27	0.52
6:CF:67:MET:HE1	6:CF:75:LEU:HD22	1.92	0.52
10:CJ:33:GLN:HB2	10:CJ:75:ILE:HD13	1.91	0.52
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	2.09	0.52
24:CY:33:LEU:CD2	24:CY:360:ALA:HB2	2.27	0.52
24:CY:374:LEU:HD12	24:CY:374:LEU:N	2.25	0.52
24:CY:441:SER:O	24:CY:449:THR:HA	2.09	0.52
24:CY:509:HIS:O	24:CY:510:VAL:HG23	2.10	0.52
25:D0:23:VAL:HG11	25:D0:69:PHE:HZ	1.75	0.52
31:D6:9:LEU:HD22	31:D6:9:LEU:O	2.10	0.52
31:D6:16:CYS:O	31:D6:17:LYS:HB2	2.08	0.52
31:D6:24:GLU:OE2	35:DA:2346:A:H8	1.93	0.52
32:D7:17:GLY:O	32:D7:20:ALA:HB3	2.10	0.52
35:DA:65:C:H5'	56:DX:71:GLY:HA3	1.91	0.52
35:DA:142(A):C:O2'	35:DA:1597:A:H5''	2.09	0.52
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.44	0.52
35:DA:841:A:H8	35:DA:841:A:H5'	1.73	0.52
35:DA:1516:C:C2'	35:DA:1517:G:C5'	2.87	0.52
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.32	0.52
35:DA:1666:G:C2'	35:DA:1667:G:H5'	2.39	0.52
35:DA:2019:A:O4'	53:DU:34:LYS:HD2	2.09	0.52
35:DA:2220:G:H2'	35:DA:2221:G:H8	1.75	0.52
35:DA:2307:G:N2	35:DA:2308:G:C5'	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.08	0.52
38:DD:248:SER:HB2	38:DD:249:PRO:HD2	1.92	0.52
39:DE:117:MET:HA	39:DE:122:PHE:N	2.13	0.52
40:DF:50:SER:HB2	40:DF:94:PRO:HD3	1.92	0.52
40:DF:117:ARG:NH2	48:DP:5:ASP:N	2.58	0.52
41:DG:40:ASN:ND2	41:DG:90:LEU:O	2.42	0.52
41:DG:82:LEU:HD13	41:DG:87:PRO:CB	2.39	0.52
41:DG:133:LEU:CD1	41:DG:157:ILE:HD12	2.39	0.52
41:DG:139:LEU:HA	41:DG:144:ILE:HD13	1.92	0.52
44:DK:69:THR:C	44:DK:70:LYS:HE3	2.35	0.52
44:DK:74:ALA:HB2	44:DK:111:LYS:HE2	1.92	0.52
44:DK:93:ARG:HD2	44:DK:93:ARG:C	2.34	0.52
46:DN:58:ASP:O	46:DN:60:ILE:HG13	2.09	0.52
46:DN:137:LYS:O	46:DN:138:LEU:HD23	2.09	0.52
48:DP:39:LYS:HE2	48:DP:40:SER:N	2.17	0.52
48:DP:67:MET:C	48:DP:68:GLN:HG3	2.35	0.52
50:DR:28:LEU:HD22	50:DR:29:LEU:HD12	1.92	0.52
50:DR:117:VAL:O	50:DR:118:GLU:CB	2.56	0.52
54:DV:2:PHE:CE1	54:DV:13:ARG:NH1	2.77	0.52
54:DV:15:GLU:O	54:DV:16:PRO:C	2.53	0.52
54:DV:35:LEU:C	54:DV:37:VAL:H	2.18	0.52
55:DW:14:PRO:HG2	55:DW:78:GLU:HB2	1.91	0.52
55:DW:20:VAL:HG23	55:DW:47:VAL:HG21	1.91	0.52
1:AA:352:C:H4'	1:AA:354:G:OP1	2.10	0.52
1:AA:383:A:C2'	1:AA:384:G:H5'	2.40	0.52
1:AA:1303:C:N4	1:AA:1304:G:C6	2.78	0.52
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.40	0.52
6:AF:44:GLY:HA2	6:AF:59:TYR:CE1	2.45	0.52
6:AF:45:LEU:O	6:AF:46:ARG:CG	2.56	0.52
7:AG:120:ILE:HG22	7:AG:124:LEU:CD1	2.39	0.52
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.73	0.52
9:AI:79:LEU:HD11	9:AI:83:ARG:CD	2.40	0.52
10:AJ:3:LYS:HG3	10:AJ:75:ILE:O	2.10	0.52
10:AJ:55:LYS:HE3	10:AJ:55:LYS:N	2.25	0.52
12:AL:86:ARG:HG2	12:AL:86:ARG:O	2.08	0.52
13:AM:54:VAL:HG12	13:AM:58:GLU:HG2	1.91	0.52
16:AP:4:ILE:HG13	16:AP:64:ALA:HB1	1.92	0.52
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.92	0.52
24:AY:19:ALA:HA	24:AY:121:VAL:HG11	1.91	0.52
24:AY:603:GLU:C	24:AY:676:TYR:HD1	2.18	0.52
26:B1:86:SER:O	26:B1:90:ILE:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:38:GLN:HA	27:B2:41:ILE:HG23	1.91	0.52
30:B5:41:PRO:O	30:B5:44:THR:OG1	2.20	0.52
30:B5:45:VAL:HG22	30:B5:51:TYR:CD1	2.44	0.52
31:B6:16:CYS:O	31:B6:17:LYS:C	2.53	0.52
35:BA:259:G:H1'	35:BA:621:A:O2'	2.09	0.52
35:BA:941:A:H4'	48:BP:35:HIS:HE1	1.74	0.52
35:BA:1040:C:C4	35:BA:1041:C:C4	2.98	0.52
35:BA:1097:U:H2'	35:BA:1098:A:H5'	1.91	0.52
35:BA:1204:A:N1	35:BA:1241:A:H2	2.07	0.52
35:BA:1913:A:H4'	35:BA:1914:C:H5''	1.92	0.52
35:BA:2712:U:HO2'	35:BA:2712(A):A:H8	0.71	0.52
35:BA:2776:A:H4'	35:BA:2777:G:H5''	1.92	0.52
37:BC:42:VAL:O	37:BC:176:VAL:HG22	2.10	0.52
39:BE:10:GLY:HA2	39:BE:192:ASN:HD21	1.75	0.52
41:BG:62:LEU:HD12	41:BG:62:LEU:N	2.23	0.52
48:BP:89:ALA:HA	48:BP:121:LYS:HD3	1.91	0.52
48:BP:107:LYS:HG3	48:BP:107:LYS:O	2.10	0.52
52:BT:50:ILE:CG1	52:BT:102:ILE:HD11	2.40	0.52
53:BU:26:GLY:C	53:BU:28:ARG:N	2.67	0.52
54:BV:99:ILE:HD13	54:BV:99:ILE:N	2.25	0.52
56:BX:10:ALA:HB1	56:BX:11:PRO:CD	2.40	0.52
56:BX:55:ASN:HB2	56:BX:80:ILE:HG12	1.91	0.52
56:BX:63:LYS:HA	56:BX:72:LYS:HA	1.91	0.52
1:CA:164:U:H2'	1:CA:165:C:C6	2.44	0.52
1:CA:263:A:OP2	20:CT:79:ARG:NH1	2.43	0.52
1:CA:297:G:H4'	1:CA:557:G:H4'	1.92	0.52
1:CA:352:C:H4'	1:CA:354:G:OP1	2.08	0.52
1:CA:452:A:O2'	1:CA:453:A:H8	1.91	0.52
1:CA:715:A:H2'	1:CA:716:A:H8	1.75	0.52
1:CA:781:A:H2'	1:CA:782:A:H5'	1.90	0.52
2:CB:189:ASP:O	2:CB:191:ASP:N	2.43	0.52
2:CB:207:ALA:O	2:CB:208:ILE:C	2.53	0.52
3:CC:72:LYS:HA	3:CC:72:LYS:HE3	1.92	0.52
5:CE:76:ILE:CG2	5:CE:118:ILE:HD13	2.40	0.52
15:CO:55:GLY:O	15:CO:56:LEU:C	2.53	0.52
17:CQ:66:SER:O	17:CQ:70:ARG:NH1	2.43	0.52
22:CW:16:C:O2	22:CW:61:U:H4'	2.10	0.52
24:CY:15:ILE:HD12	24:CY:81:ILE:HG23	1.90	0.52
24:CY:68:ALA:HB3	24:CY:327:PHE:CD1	2.45	0.52
24:CY:152:THR:CG2	24:CY:153:MET:N	2.73	0.52
24:CY:236:GLU:O	24:CY:236:GLU:HG3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:74:ARG:HG2	36:DB:13:A:OP2	2.10	0.52
31:D6:10:LEU:HB3	33:D8:34:TRP:HD1	1.75	0.52
31:D6:13:CYS:HB3	31:D6:49:HIS:HB3	1.91	0.52
33:D8:51:ALA:HA	33:D8:54:GLU:OE1	2.09	0.52
35:DA:514:A:H2'	35:DA:515:A:H8	1.73	0.52
35:DA:624:C:H41	48:DP:107:LYS:HZ2	1.58	0.52
35:DA:1432:C:H2'	35:DA:1433:U:O4'	2.09	0.52
35:DA:1453:U:H2'	35:DA:1455:G:N7	2.25	0.52
35:DA:1654:A:H2	39:DE:113:PHE:CD1	2.28	0.52
35:DA:2118:U:OP1	35:DA:2148:G:H4'	2.10	0.52
35:DA:2177:C:O2	37:DC:173:HIS:HE1	1.92	0.52
35:DA:2691:C:H5'	35:DA:2691:C:H6	1.75	0.52
37:DC:120:VAL:O	37:DC:124:VAL:HG23	2.10	0.52
39:DE:10:GLY:HA2	39:DE:192:ASN:HD21	1.75	0.52
39:DE:38:THR:CB	39:DE:41:LYS:HG2	2.32	0.52
39:DE:176:ILE:CG2	39:DE:178:GLU:HB3	2.36	0.52
46:DN:35:ARG:O	46:DN:37:LYS:HB2	2.09	0.52
49:DQ:17:LEU:C	49:DQ:18:LYS:HD2	2.35	0.52
50:DR:53:HIS:ND1	50:DR:53:HIS:O	2.42	0.52
51:DS:30:ARG:HH22	51:DS:62:LYS:HD2	1.75	0.52
53:DU:99:ALA:HB2	53:DU:106:PHE:CE1	2.44	0.52
54:DV:16:PRO:O	54:DV:96:ILE:O	2.28	0.52
57:DY:7:VAL:HB	57:DY:8:LYS:CE	2.40	0.52
57:DY:96:ILE:CD1	57:DY:99:CYS:SG	2.98	0.52
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.45	0.52
1:AA:658:G:H2'	1:AA:659:U:C6	2.45	0.52
1:AA:1313:U:OP2	19:AS:6:LYS:CB	2.58	0.52
2:AB:126:GLU:O	2:AB:127:ILE:C	2.53	0.52
4:AD:36:ARG:HH11	4:AD:36:ARG:CG	2.23	0.52
6:AF:67:MET:HE1	6:AF:75:LEU:HD22	1.92	0.52
8:AH:64:LYS:HD2	8:AH:79:VAL:HG21	1.92	0.52
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	2.06	0.52
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.10	0.52
18:AR:53:ARG:C	18:AR:55:ARG:H	2.17	0.52
24:AY:12:LEU:CB	24:AY:283:PRO:HG2	2.39	0.52
24:AY:86:GLY:O	24:AY:88:VAL:HG22	2.09	0.52
25:B0:20:ARG:HH11	25:B0:20:ARG:HG2	1.75	0.52
26:B1:30:VAL:H	35:BA:2396:G:H4'	1.73	0.52
27:B2:53:LEU:O	27:B2:53:LEU:HD23	2.09	0.52
28:B3:28:LEU:CD2	28:B3:35:ARG:HD2	2.40	0.52
29:B4:31:ILE:CG2	29:B4:33:VAL:HG23	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:39:MET:HG3	55:BW:34:ASN:ND2	2.25	0.52
30:B5:58:LEU:HD13	30:B5:58:LEU:C	2.35	0.52
31:B6:9:LEU:HD22	31:B6:9:LEU:C	2.34	0.52
35:BA:634:C:H2'	35:BA:635:C:C6	2.45	0.52
35:BA:677:A:H4'	35:BA:2070:G:O2'	2.10	0.52
35:BA:1930:G:N2	35:BA:1968:G:H2'	2.25	0.52
35:BA:2373:G:H2'	35:BA:2374:C:C6	2.45	0.52
35:BA:2461:C:H42	35:BA:2489:G:H1	1.58	0.52
35:BA:2590:A:OP2	38:BD:238:GLY:HA2	2.10	0.52
35:BA:2747:G:H21	35:BA:2757:A:H62	1.56	0.52
36:BB:29:A:H3'	51:BS:32:LEU:HD11	1.92	0.52
40:BF:100:THR:HG22	40:BF:100:THR:O	2.08	0.52
43:BJ:6:UNK:O	43:BJ:8:UNK:N	2.43	0.52
44:BK:132:ARG:HG3	44:BK:132:ARG:HH11	1.74	0.52
48:BP:101:VAL:HG12	48:BP:106:LEU:CB	2.40	0.52
50:BR:12:ARG:HB3	50:BR:16:HIS:CD2	2.45	0.52
50:BR:28:LEU:HD22	50:BR:29:LEU:HD12	1.91	0.52
52:BT:55:ASN:HD22	52:BT:58:ASN:ND2	2.07	0.52
54:BV:49:THR:HB	54:BV:50:PRO:HD2	1.92	0.52
1:CA:509:A:N1	1:CA:510:A:C2	2.78	0.52
1:CA:1495:U:C2	1:CA:1496:C:C5	2.97	0.52
2:CB:126:GLU:O	2:CB:127:ILE:C	2.53	0.52
4:CD:2:GLY:O	4:CD:4:TYR:N	2.43	0.52
7:CG:78:ARG:HH11	7:CG:78:ARG:HG3	1.75	0.52
8:CH:6:ILE:CD1	8:CH:6:ILE:H	2.23	0.52
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.24	0.52
12:CL:23:LYS:HE3	12:CL:89:ARG:HE	1.75	0.52
13:CM:9:ILE:HD12	13:CM:9:ILE:N	2.25	0.52
13:CM:80:ARG:O	13:CM:83:ASP:HB3	2.10	0.52
20:CT:33:ILE:HD13	20:CT:63:ILE:HA	1.90	0.52
20:CT:103:GLY:O	20:CT:104:LEU:C	2.52	0.52
22:CV:36:U:O2	24:CY:502:GLY:HA2	2.10	0.52
22:CW:14:A:C2'	22:CW:15:G:H5''	2.40	0.52
22:CW:20:G:H4'	22:CW:21:U:OP2	2.09	0.52
30:D5:42:PRO:HB2	30:D5:43:HIS:CD2	2.45	0.52
30:D5:48:GLU:O	30:D5:49:CYS:SG	2.68	0.52
35:DA:154(A):C:N4	35:DA:172:C:H42	2.08	0.52
35:DA:252:G:O2'	35:DA:253:C:H5'	2.09	0.52
35:DA:483:A:H2'	35:DA:483:A:N3	2.25	0.52
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.45	0.52
35:DA:2105:C:C2'	35:DA:2106:G:H5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2873:A:H4'	50:DR:8:ARG:NH2	2.25	0.52
37:DC:117:THR:HG22	37:DC:147:GLY:O	2.09	0.52
40:DF:66:PRO:O	40:DF:67:GLN:HB3	2.09	0.52
41:DG:94:LEU:HD22	41:DG:98:ARG:CB	2.39	0.52
41:DG:121:ASN:CG	41:DG:124:SER:HB2	2.35	0.52
41:DG:133:LEU:CD1	41:DG:157:ILE:HB	2.30	0.52
44:DK:17:ALA:HB3	44:DK:38:VAL:CG2	2.38	0.52
44:DK:18:THR:C	44:DK:20:ALA:H	2.18	0.52
44:DK:106:GLU:CA	44:DK:109:LYS:HD3	2.30	0.52
46:DN:26:LEU:C	46:DN:26:LEU:CD1	2.83	0.52
46:DN:87:LEU:O	46:DN:90:MET:N	2.43	0.52
46:DN:99:LEU:HD13	46:DN:99:LEU:C	2.35	0.52
48:DP:62:LEU:H	48:DP:62:LEU:HD22	1.75	0.52
53:DU:39:LEU:O	53:DU:40:PHE:C	2.52	0.52
53:DU:79:PHE:CE2	53:DU:83:LEU:HD11	2.45	0.52
58:DZ:16:SER:O	58:DZ:17:ALA:C	2.53	0.52
58:DZ:17:ALA:O	58:DZ:20:ARG:HG2	2.09	0.52
58:DZ:18:LEU:O	58:DZ:21:ALA:HB3	2.10	0.52
1:AA:59:A:H3'	1:AA:331:G:H22	1.75	0.51
1:AA:1131:G:C6	1:AA:1132:C:N4	2.79	0.51
1:AA:1152:A:OP1	10:AJ:68:HIS:CD2	2.63	0.51
1:AA:1152:A:OP1	10:AJ:68:HIS:HD2	1.93	0.51
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.45	0.51
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.45	0.51
2:AB:121:LEU:HA	2:AB:124:SER:HB3	1.91	0.51
3:AC:154:SER:OG	3:AC:155:GLY:N	2.40	0.51
4:AD:159:ARG:O	4:AD:163:GLU:N	2.43	0.51
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.35	0.51
24:AY:205:TYR:O	24:AY:207:ASP:N	2.43	0.51
24:AY:486:THR:HG21	24:AY:602:LEU:HD11	1.92	0.51
30:B5:40:LYS:HZ1	30:B5:46:CYS:H	1.57	0.51
31:B6:15:GLU:OE1	31:B6:41:PRO:CG	2.58	0.51
35:BA:154(A):C:N4	35:BA:172:C:H42	2.07	0.51
35:BA:272(I):U:C4	35:BA:363(A):A:N1	2.74	0.51
35:BA:302:C:H2'	35:BA:303:U:C6	2.45	0.51
35:BA:445:C:O2'	35:BA:446:G:H5'	2.09	0.51
35:BA:572:A:OP2	54:BV:78:LYS:NZ	2.41	0.51
35:BA:860:U:O4'	35:BA:860:U:O2	2.28	0.51
35:BA:1465:G:H2'	35:BA:1466:G:H8	1.75	0.51
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.39	0.51
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2810:A:H2'	39:BE:61:ARG:HH21	1.74	0.51
35:BA:2811:G:O2'	35:BA:2812:G:H5'	2.10	0.51
38:BD:26:LYS:HE2	38:BD:26:LYS:HA	1.91	0.51
39:BE:116:VAL:HG22	39:BE:122:PHE:CG	2.46	0.51
41:BG:77:ILE:HG21	41:BG:80:PHE:CB	2.40	0.51
41:BG:110:ALA:O	41:BG:111:LEU:C	2.53	0.51
41:BG:146:TYR:O	41:BG:149:VAL:HG12	2.09	0.51
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.91	0.51
42:BH:104:GLU:HA	42:BH:113:VAL:O	2.10	0.51
48:BP:13:ASN:O	48:BP:14:LYS:CB	2.58	0.51
48:BP:47:ASP:HB3	48:BP:48:PRO:O	2.09	0.51
49:BQ:2:LEU:O	49:BQ:3:MET:HB3	2.09	0.51
49:BQ:69:PHE:CD1	49:BQ:70:PRO:HD2	2.44	0.51
50:BR:99:LYS:N	50:BR:99:LYS:CD	2.59	0.51
50:BR:104:ARG:HG3	50:BR:111:LEU:HD21	1.91	0.51
55:BW:36:LEU:HD12	55:BW:48:ALA:HA	1.92	0.51
1:CA:117:G:H8	1:CA:117:G:O5'	1.92	0.51
1:CA:346:G:H2'	1:CA:347:G:O4'	2.10	0.51
1:CA:408:A:OP1	4:CD:113:SER:OG	2.25	0.51
1:CA:433:C:O2'	1:CA:434:U:H5'	2.10	0.51
1:CA:512:U:H2'	1:CA:513:C:C6	2.45	0.51
3:CC:134:ILE:O	3:CC:137:ALA:N	2.43	0.51
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.25	0.51
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.75	0.51
9:CI:73:GLN:O	9:CI:76:ALA:N	2.44	0.51
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.92	0.51
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.91	0.51
19:CS:13:ASP:C	19:CS:15:LEU:N	2.63	0.51
24:CY:427:ALA:HB1	24:CY:466:LEU:CG	2.40	0.51
24:CY:533:VAL:HG12	24:CY:571:SER:HA	1.92	0.51
24:CY:549:ALA:HB2	24:CY:587:SER:OG	2.09	0.51
29:D4:22:ILE:HD12	29:D4:22:ILE:N	2.25	0.51
35:DA:278:A:C2	35:DA:279:C:C2	2.98	0.51
35:DA:303:U:H2'	35:DA:304:G:H8	1.74	0.51
35:DA:634:C:H2'	35:DA:635:C:C6	2.45	0.51
35:DA:1164:G:H1	35:DA:1185:C:H42	1.57	0.51
35:DA:1192:G:H2'	35:DA:1193:G:O4'	2.10	0.51
35:DA:1310:G:H2'	35:DA:1311:G:H5'	1.92	0.51
35:DA:1400:G:H2'	35:DA:1401:G:C8	2.45	0.51
35:DA:2050:C:O2'	35:DA:2051:A:H5'	2.10	0.51
35:DA:2296:U:C4'	35:DA:2297:C:OP1	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2810:A:H2'	39:DE:61:ARG:HH21	1.74	0.51
36:DB:35:U:H2'	36:DB:35:U:O2	2.08	0.51
36:DB:87:G:O3'	36:DB:88:C:C6	2.63	0.51
38:DD:28:GLU:H	38:DD:29:PRO:HD2	1.75	0.51
38:DD:99:ASP:C	38:DD:99:ASP:OD2	2.53	0.51
42:DH:54:ARG:O	42:DH:54:ARG:HD2	2.10	0.51
44:DK:17:ALA:HB1	44:DK:38:VAL:HG22	1.92	0.51
47:DO:64:ARG:HH21	47:DO:100:GLY:HA3	1.75	0.51
47:DO:113:LYS:O	47:DO:117:LEU:HD12	2.10	0.51
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.40	0.51
53:DU:10:ARG:O	53:DU:12:ARG:N	2.43	0.51
55:DW:80:PRO:O	55:DW:100:THR:HG21	2.10	0.51
1:AA:665:A:H2'	1:AA:732:C:O2	2.11	0.51
3:AC:90:GLU:HA	3:AC:93:LYS:HB3	1.92	0.51
4:AD:129:ASN:N	4:AD:129:ASN:HD22	2.07	0.51
4:AD:150:GLU:HG2	4:AD:151:LYS:N	2.24	0.51
4:AD:153:ARG:HG2	4:AD:153:ARG:NH1	2.25	0.51
11:AK:29:ILE:HB	11:AK:44:SER:HB2	1.92	0.51
15:AO:74:ASP:C	15:AO:76:GLU:N	2.69	0.51
16:AP:60:LEU:HD21	16:AP:66:PRO:HD3	1.92	0.51
19:AS:27:GLU:O	19:AS:28:LYS:O	2.28	0.51
22:AV:52:G:C2	22:AV:53:G:C8	2.99	0.51
24:AY:9:LEU:O	24:AY:11:ARG:N	2.44	0.51
24:AY:357:ARG:HH11	24:AY:373:ASP:CG	2.19	0.51
24:AY:359:HIS:C	24:AY:361:ASN:H	2.18	0.51
24:AY:606:MET:HE3	24:AY:671:MET:HG2	1.92	0.51
24:AY:644:ARG:O	24:AY:645:ALA:HB2	2.10	0.51
24:AY:688:ILE:HG22	24:AY:688:ILE:O	2.10	0.51
31:B6:6:ARG:C	31:B6:7:ILE:CD1	2.83	0.51
31:B6:10:LEU:HD12	33:B8:34:TRP:HB2	1.93	0.51
31:B6:31:PRO:O	31:B6:32:ASN:OD1	2.28	0.51
31:B6:54:ILE:HD13	35:BA:2420:C:H5'	1.92	0.51
35:BA:750:A:H3'	35:BA:751:A:H5''	1.92	0.51
35:BA:841:A:H5'	35:BA:841:A:H8	1.75	0.51
35:BA:1145:C:H2'	35:BA:1146:C:H6	1.75	0.51
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.43	0.51
35:BA:1721:G:H8	35:BA:1741:A:H62	1.58	0.51
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.46	0.51
35:BA:2373:G:O2'	35:BA:2374:C:H5'	2.10	0.51
35:BA:2572:A:C8	39:BE:144:ARG:HB3	2.45	0.51
36:BB:60:C:H2'	36:BB:61:G:C8	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:134:ARG:HG2	38:BD:187:GLY:O	2.11	0.51
40:BF:69:HIS:N	40:BF:69:HIS:CD2	2.78	0.51
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.74	0.51
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.75	0.51
42:BH:140:LYS:O	42:BH:144:VAL:HG23	2.10	0.51
42:BH:154:PRO:C	42:BH:156:ALA:H	2.18	0.51
44:BK:84:LEU:HD21	44:BK:96:VAL:HB	1.91	0.51
47:BO:111:PHE:O	47:BO:115:VAL:HG23	2.10	0.51
52:BT:128:GLU:O	52:BT:129:ARG:HD3	2.11	0.51
54:BV:2:PHE:HB3	54:BV:41:GLY:C	2.34	0.51
54:BV:25:LEU:H	54:BV:92:THR:HG21	1.74	0.51
57:BY:28:LYS:HE3	57:BY:30:VAL:HG22	1.92	0.51
57:BY:74:PRO:O	57:BY:75:ILE:HB	2.09	0.51
1:CA:111:G:O6	1:CA:330:C:N4	2.42	0.51
1:CA:539:A:H2'	1:CA:540:G:H8	1.74	0.51
1:CA:814:A:H2'	1:CA:816:A:C5'	2.38	0.51
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.24	0.51
1:CA:1058:G:H2'	1:CA:1059:C:C6	2.44	0.51
1:CA:1313:U:OP2	19:CS:6:LYS:CB	2.58	0.51
1:CA:1394:A:N6	1:CA:1501:C:H5'	2.26	0.51
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.10	0.51
10:CJ:3:LYS:HD2	10:CJ:77:PRO:CD	2.40	0.51
10:CJ:8:LEU:HB2	10:CJ:70:ARG:O	2.09	0.51
10:CJ:22:LYS:O	10:CJ:22:LYS:HD2	2.11	0.51
24:CY:11:ARG:C	24:CY:12:LEU:HD22	2.36	0.51
24:CY:95:GLU:OE2	24:CY:124:GLN:HB3	2.11	0.51
24:CY:215:LYS:HA	24:CY:218:GLU:HB3	1.92	0.51
26:D1:53:VAL:CG2	26:D1:74:VAL:HG13	2.41	0.51
26:D1:73:LEU:HD23	26:D1:73:LEU:O	2.11	0.51
29:D4:10:VAL:CG2	29:D4:11:PRO:HD2	2.36	0.51
31:D6:15:GLU:OE2	31:D6:44:ARG:CZ	2.57	0.51
32:D7:48:LYS:NZ	35:DA:125:G:H21	2.06	0.51
35:DA:402:A:O2'	35:DA:403:U:H5'	2.08	0.51
35:DA:1573:G:H2'	35:DA:1574:C:H5'	1.92	0.51
35:DA:1683:C:H2'	35:DA:1684:C:H6	1.76	0.51
35:DA:2050:C:H1'	39:DE:156:MET:CE	2.40	0.51
35:DA:2377:A:O2'	35:DA:2378:A:H5'	2.09	0.51
35:DA:2392:A:H2	35:DA:2424:C:H42	1.58	0.51
35:DA:2422:A:H4'	35:DA:2423:U:OP1	2.10	0.51
36:DB:77:U:O2'	58:DZ:78:LYS:HE2	2.10	0.51
37:DC:30:VAL:O	37:DC:33:LEU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:203:LYS:HG3	39:DE:204:ALA:N	2.25	0.51
41:DG:71:THR:CG2	41:DG:89:GLY:HA3	2.40	0.51
49:DQ:55:VAL:HG23	58:DZ:178:GLU:HG3	1.91	0.51
53:DU:95:LEU:CD1	54:DV:11:GLN:HG3	2.39	0.51
53:DU:97:ASP:C	53:DU:99:ALA:H	2.18	0.51
57:DY:43:ASN:HA	57:DY:64:GLU:HA	1.93	0.51
57:DY:85:VAL:HG13	57:DY:93:GLY:O	2.10	0.51
58:DZ:141:VAL:HG22	58:DZ:150:LEU:HD11	1.92	0.51
1:AA:263:A:OP2	20:AT:79:ARG:NH1	2.43	0.51
1:AA:439:A:H2'	1:AA:441:A:H5'	1.92	0.51
1:AA:622:A:C8	1:AA:623:C:C5	2.98	0.51
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.09	0.51
1:AA:1029:C:O2'	1:AA:1032:G:N2	2.43	0.51
1:AA:1271:G:H2'	1:AA:1272:G:C8	2.45	0.51
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.45	0.51
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.91	0.51
2:AB:223:ILE:O	2:AB:225:ALA:N	2.44	0.51
4:AD:101:LEU:HD23	4:AD:121:VAL:HG13	1.92	0.51
5:AE:36:ASP:O	5:AE:37:ARG:CB	2.58	0.51
5:AE:60:TYR:HE1	5:AE:64:ARG:NH2	2.08	0.51
11:AK:48:ILE:HG22	11:AK:49:GLY:N	2.25	0.51
12:AL:39:VAL:HB	12:AL:57:LYS:HB2	1.91	0.51
12:AL:59:ARG:NE	24:AY:422:GLU:OE2	2.44	0.51
19:AS:35:SER:C	19:AS:37:ARG:N	2.66	0.51
22:AW:44:A:H2'	22:AW:45:A:C8	2.46	0.51
24:AY:15:ILE:CD1	24:AY:81:ILE:HG12	2.38	0.51
24:AY:33:LEU:HD11	24:AY:81:ILE:HD12	1.93	0.51
24:AY:385:THR:HG21	24:AY:436:PRO:HG3	1.92	0.51
26:B1:11:ARG:HB2	26:B1:12:PRO:HD2	1.92	0.51
29:B4:51:ASP:OD2	29:B4:52:THR:N	2.43	0.51
32:B7:17:GLY:O	32:B7:20:ALA:HB3	2.10	0.51
33:B8:33:ASN:HA	33:B8:36:LYS:HG3	1.93	0.51
33:B8:51:ALA:HA	33:B8:54:GLU:CD	2.35	0.51
35:BA:281:G:N2	35:BA:358:U:C5	2.79	0.51
35:BA:389:G:N1	48:BP:71:VAL:HG12	2.23	0.51
35:BA:537:C:O5'	35:BA:537:C:H6	1.93	0.51
35:BA:648:G:H2'	35:BA:649:G:C8	2.44	0.51
35:BA:664:C:O2'	35:BA:665:C:H5'	2.10	0.51
35:BA:1161:C:H1'	54:BV:8:GLY:O	2.10	0.51
35:BA:1516:C:C2'	35:BA:1517:G:C5'	2.88	0.51
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2733:A:H2'	35:BA:2734:A:O4'	2.10	0.51
37:BC:29:LEU:C	37:BC:29:LEU:CD2	2.83	0.51
37:BC:84:ILE:HG12	37:BC:96:GLY:O	2.10	0.51
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.75	0.51
38:BD:248:SER:HB2	38:BD:249:PRO:HD2	1.92	0.51
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.78	0.51
42:BH:89:ILE:C	42:BH:89:ILE:HD12	2.36	0.51
42:BH:173:PRO:O	42:BH:175:LYS:N	2.43	0.51
48:BP:38:GLN:CG	48:BP:39:LYS:H	2.07	0.51
48:BP:128:HIS:ND1	48:BP:148:LEU:HD13	2.25	0.51
52:BT:55:ASN:H	52:BT:59:THR:HG21	1.76	0.51
54:BV:13:ARG:HG3	54:BV:13:ARG:HH11	1.75	0.51
57:BY:58:GLY:O	57:BY:59:GLY:C	2.54	0.51
1:CA:529:G:O6	12:CL:49:ASN:HA	2.10	0.51
1:CA:1123:A:O3'	10:CJ:36:GLY:HA3	2.09	0.51
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.09	0.51
1:CA:1509:C:O2'	1:CA:1510:U:H5'	2.10	0.51
2:CB:51:LEU:CD2	2:CB:55:PHE:HE2	2.24	0.51
2:CB:233:SER:OG	2:CB:234:PRO:HD2	2.10	0.51
4:CD:176:LEU:HD12	4:CD:177:ASP:N	2.25	0.51
9:CI:79:LEU:HD11	9:CI:83:ARG:CD	2.40	0.51
12:CL:39:VAL:HG21	12:CL:57:LYS:HD2	1.91	0.51
13:CM:56:LEU:HD13	13:CM:60:VAL:HG23	1.92	0.51
20:CT:57:ARG:HH11	20:CT:102:GLY:HA2	1.75	0.51
24:CY:226:ASN:C	24:CY:228:MET:N	2.67	0.51
24:CY:294:PRO:HG2	24:CY:295:GLU:OE2	2.11	0.51
30:D5:58:LEU:HD13	30:D5:58:LEU:C	2.34	0.51
35:DA:338:G:H2'	35:DA:339:U:C6	2.45	0.51
35:DA:860:U:O2	35:DA:860:U:O4'	2.29	0.51
35:DA:1210:A:H5''	35:DA:1212:G:O4'	2.11	0.51
35:DA:1829:A:N3	38:DD:15:PHE:CZ	2.78	0.51
35:DA:2308:G:H22	41:DG:79:ASN:HB2	1.73	0.51
35:DA:2562:U:H1'	47:DO:23:ARG:NH1	2.19	0.51
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.11	0.51
37:DC:153:ILE:O	37:DC:157:ILE:HG13	2.11	0.51
38:DD:78:LYS:HG2	38:DD:79:VAL:N	2.24	0.51
40:DF:160:ASN:HD22	40:DF:161:GLU:N	2.07	0.51
41:DG:181:ARG:HB2	41:DG:181:ARG:NH1	2.26	0.51
42:DH:138:LYS:C	42:DH:140:LYS:N	2.67	0.51
44:DK:112:MET:N	44:DK:113:PRO:CD	2.72	0.51
46:DN:87:LEU:O	46:DN:88:GLU:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:127:ALA:HB3	48:DP:130:PHE:CE1	2.45	0.51
49:DQ:41:TRP:NE1	49:DQ:96:VAL:HG22	2.24	0.51
52:DT:89:VAL:C	52:DT:91:ARG:H	2.17	0.51
54:DV:5:VAL:HG23	54:DV:37:VAL:HG23	1.91	0.51
54:DV:13:ARG:HH11	54:DV:13:ARG:HG3	1.74	0.51
55:DW:9:TYR:H	55:DW:102:HIS:CD2	2.28	0.51
57:DY:97:ARG:HG3	57:DY:97:ARG:NH1	2.24	0.51
1:AA:1014:A:H5''	19:AS:14:HIS:HB2	1.92	0.51
2:AB:86:GLU:C	2:AB:88:ALA:N	2.68	0.51
3:AC:15:THR:HG21	3:AC:181:ASN:HA	1.91	0.51
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.45	0.51
5:AE:144:THR:O	5:AE:145:LYS:C	2.53	0.51
19:AS:24:ALA:O	19:AS:25:LYS:CB	2.58	0.51
22:AW:63:C:H2'	22:AW:64:G:C8	2.45	0.51
24:AY:625:ASN:C	24:AY:627:ARG:H	2.18	0.51
26:B1:76:ARG:HH22	26:B1:95:LEU:CD2	2.24	0.51
30:B5:44:THR:HG23	50:BR:101:ALA:N	2.25	0.51
35:BA:828:U:C5	35:BA:829:A:N6	2.79	0.51
35:BA:941:A:H4'	48:BP:35:HIS:CE1	2.45	0.51
35:BA:1782:C:H2'	35:BA:1783:A:H5'	1.92	0.51
35:BA:2177:C:O2	37:BC:173:HIS:HE1	1.92	0.51
36:BB:87:G:O3'	36:BB:88:C:C6	2.63	0.51
37:BC:11:LEU:C	37:BC:13:GLU:N	2.66	0.51
38:BD:153:ALA:O	38:BD:154:LYS:CG	2.58	0.51
39:BE:34:VAL:HG12	39:BE:48:GLN:O	2.10	0.51
41:BG:77:ILE:CG2	41:BG:80:PHE:N	2.62	0.51
44:BK:37:PHE:C	44:BK:39:LYS:H	2.17	0.51
45:BL:87:UNK:HA	45:BL:90:UNK:CB	2.40	0.51
46:BN:35:ARG:HB3	46:BN:42:TRP:CH2	2.45	0.51
46:BN:120:LEU:C	46:BN:120:LEU:HD13	2.36	0.51
50:BR:44:LEU:HD13	50:BR:44:LEU:C	2.35	0.51
52:BT:62:THR:HG22	52:BT:75:ILE:HG13	1.92	0.51
53:BU:90:VAL:O	53:BU:91:ASP:C	2.53	0.51
54:BV:19:LYS:NZ	54:BV:22:VAL:HG13	2.26	0.51
58:BZ:142:SER:H	58:BZ:144:LEU:CD2	2.21	0.51
1:CA:636:U:H2'	1:CA:637:G:C8	2.45	0.51
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.92	0.51
1:CA:1026:G:C3'	1:CA:1027:C:H5'	2.40	0.51
3:CC:32:LEU:O	3:CC:35:GLU:HB3	2.10	0.51
3:CC:115:LEU:O	3:CC:116:VAL:C	2.54	0.51
3:CC:136:GLN:O	3:CC:137:ALA:C	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:179:ARG:NH2	3:CC:206:GLU:OE2	2.43	0.51
10:CJ:51:ARG:H	10:CJ:60:ARG:HA	1.75	0.51
13:CM:54:VAL:HG12	13:CM:58:GLU:HG2	1.91	0.51
18:CR:40:LEU:C	18:CR:42:ARG:H	2.19	0.51
19:CS:79:THR:HG22	19:CS:80:TYR:N	2.25	0.51
22:CW:5:G:O6	22:CW:69:C:N3	2.43	0.51
24:CY:90:PHE:HD1	24:CY:90:PHE:H	1.59	0.51
24:CY:110:SER:HA	24:CY:149:VAL:HG21	1.93	0.51
24:CY:153:MET:HA	24:CY:157:LEU:CD2	2.30	0.51
24:CY:553:GLY:H	24:CY:557:GLY:CA	2.24	0.51
28:D3:2:PRO:O	28:D3:3:ARG:O	2.29	0.51
35:DA:7:G:O2'	35:DA:8:A:H5'	2.11	0.51
35:DA:260:G:H1'	35:DA:621:A:H1'	1.92	0.51
35:DA:272(I):U:O2	35:DA:272(I):U:C3'	2.59	0.51
35:DA:613:G:H5'	35:DA:613:G:C8	2.44	0.51
35:DA:680:G:H2'	35:DA:681:G:H8	1.75	0.51
35:DA:1576:U:H2'	35:DA:1577:C:C6	2.46	0.51
35:DA:1596:A:O2'	35:DA:1597:A:H5'	2.10	0.51
35:DA:1654:A:OP2	50:DR:3:HIS:HB2	2.10	0.51
35:DA:1721:G:H8	35:DA:1741:A:H62	1.58	0.51
35:DA:1947:C:H2'	35:DA:1948:G:C5'	2.36	0.51
35:DA:2307:G:H21	35:DA:2308:G:C5'	2.23	0.51
35:DA:2626:C:H2'	35:DA:2627:G:O4'	2.10	0.51
35:DA:2820:A:O3'	50:DR:5:LYS:HE3	2.11	0.51
36:DB:94:C:H2'	36:DB:95:C:H6	1.75	0.51
37:DC:73:VAL:CG1	37:DC:158:LYS:HA	2.39	0.51
38:DD:210:GLY:O	38:DD:211:ARG:HB3	2.11	0.51
39:DE:34:VAL:O	39:DE:34:VAL:HG22	2.11	0.51
39:DE:38:THR:O	39:DE:42:ASP:HB2	2.11	0.51
40:DF:24:LEU:O	40:DF:26:ALA:N	2.42	0.51
41:DG:57:ALA:HA	41:DG:90:LEU:CD2	2.41	0.51
41:DG:58:GLN:O	41:DG:61:ALA:HB3	2.10	0.51
50:DR:104:ARG:HG3	50:DR:111:LEU:HD21	1.91	0.51
53:DU:57:PHE:C	53:DU:59:ARG:N	2.62	0.51
54:DV:19:LYS:NZ	54:DV:22:VAL:HG13	2.25	0.51
54:DV:62:LEU:HD22	54:DV:62:LEU:N	2.25	0.51
56:DX:61:GLY:HA3	56:DX:73:ARG:O	2.10	0.51
57:DY:14:LEU:HD11	57:DY:22:GLY:HA2	1.92	0.51
57:DY:95:LYS:CD	57:DY:101:LYS:H	2.24	0.51
58:DZ:10:ARG:HD2	58:DZ:36:LYS:CE	2.25	0.51
1:AA:117:G:H8	1:AA:117:G:O5'	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:119:A:O2'	1:AA:120:A:OP2	2.19	0.51
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.46	0.51
1:AA:1237:C:OP1	1:AA:1238:A:HI'	2.10	0.51
3:AC:136:GLN:O	3:AC:137:ALA:C	2.52	0.51
8:AH:114:THR:HG21	8:AH:129:VAL:HG23	1.93	0.51
13:AM:96:LEU:HB3	13:AM:97:PRO:CD	2.33	0.51
13:AM:99:ARG:O	13:AM:100:GLY:C	2.53	0.51
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	2.11	0.51
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.10	0.51
22:AW:18:U:H2'	22:AW:18:U:O2	2.10	0.51
24:AY:65:ILE:O	24:AY:67:ALA:N	2.44	0.51
24:AY:122:TRP:C	24:AY:122:TRP:CD1	2.88	0.51
24:AY:350:GLU:HA	24:AY:350:GLU:OE1	2.10	0.51
24:AY:428:LEU:HD13	24:AY:440:VAL:CG1	2.28	0.51
24:AY:603:GLU:HB2	24:AY:604:PRO:HD2	1.91	0.51
30:B5:55:ARG:O	30:B5:56:LYS:CB	2.51	0.51
31:B6:54:ILE:HD13	35:BA:2420:C:C4'	2.39	0.51
33:B8:53:PRO:HA	33:B8:56:GLU:HB2	1.93	0.51
35:BA:787:U:OP1	35:BA:1780:A:N6	2.43	0.51
35:BA:852:G:H2'	35:BA:853:G:C8	2.45	0.51
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.45	0.51
35:BA:1528:A:C2	35:BA:1542:A:H2	2.29	0.51
35:BA:1858:G:H2'	35:BA:1883:G:N2	2.25	0.51
35:BA:2110:G:HO2'	35:BA:2120:G:H5'	1.74	0.51
35:BA:2859:G:H2'	35:BA:2860:A:C8	2.46	0.51
41:BG:172:LEU:HD23	41:BG:172:LEU:C	2.35	0.51
44:BK:70:LYS:HE3	44:BK:70:LYS:N	2.26	0.51
52:BT:99:LEU:HB2	52:BT:101:PHE:CE1	2.46	0.51
53:BU:61:TRP:CB	53:BU:93:LYS:HB3	2.39	0.51
53:BU:92:ARG:HD3	53:BU:94:ASN:CB	2.41	0.51
54:BV:16:PRO:O	54:BV:96:ILE:O	2.28	0.51
57:BY:14:LEU:HD11	57:BY:22:GLY:HA2	1.93	0.51
57:BY:94:LYS:O	57:BY:102:CYS:HB2	2.10	0.51
1:CA:375:U:C2	1:CA:376:G:C8	2.98	0.51
1:CA:986:A:H2'	1:CA:987:G:C8	2.46	0.51
1:CA:1129:C:H6	1:CA:1129:C:H5'	1.75	0.51
1:CA:1345:U:OP1	9:CI:120:ARG:NH1	2.43	0.51
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.11	0.51
4:CD:96:LEU:HD22	4:CD:96:LEU:N	2.23	0.51
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.41	0.51
10:CJ:3:LYS:HG3	10:CJ:75:ILE:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:91:ARG:HH21	19:CS:81:ARG:HH21	1.57	0.51
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	2.26	0.51
17:CQ:59:ILE:HG23	17:CQ:71:PHE:CB	2.34	0.51
19:CS:41:VAL:C	19:CS:43:GLU:N	2.66	0.51
21:CU:2:GLY:C	21:CU:4:GLY:N	2.69	0.51
24:CY:335:LEU:O	24:CY:368:GLU:HA	2.09	0.51
24:CY:394:ALA:HB1	24:CY:395:PRO:CD	2.41	0.51
24:CY:544:LYS:O	24:CY:548:GLU:HB3	2.10	0.51
27:D2:4:SER:O	27:D2:5:GLU:C	2.54	0.51
31:D6:9:LEU:CD2	31:D6:26:ASN:HD22	2.24	0.51
31:D6:42:TRP:CE3	31:D6:42:TRP:HA	2.44	0.51
35:DA:211:A:C3'	35:DA:212:G:H5''	2.40	0.51
35:DA:528:A:H2	35:DA:2043:C:H5'	1.74	0.51
35:DA:588:U:H1'	40:DF:90:PHE:CG	2.45	0.51
35:DA:782:A:C2	38:DD:226:MET:HG2	2.46	0.51
35:DA:796:C:H2'	35:DA:797:C:H6	1.73	0.51
35:DA:1248:G:C4	53:DU:3:ARG:HD2	2.45	0.51
35:DA:1820:U:C2	38:DD:202:LYS:HG2	2.45	0.51
35:DA:2577:A:H5'	35:DA:2578:G:C5'	2.39	0.51
35:DA:2776:A:H4'	35:DA:2777:G:H5''	1.93	0.51
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.75	0.51
35:DA:2860:A:C2'	35:DA:2861:G:H5'	2.40	0.51
35:DA:2870:C:H5''	50:DR:65:LEU:HD21	1.93	0.51
37:DC:98:GLU:O	37:DC:101:ILE:HD13	2.10	0.51
41:DG:7:LEU:O	41:DG:8:LYS:C	2.53	0.51
42:DH:34:GLU:O	42:DH:36:PRO:HD3	2.11	0.51
46:DN:23:LEU:HB3	46:DN:60:ILE:CG2	2.37	0.51
49:DQ:108:GLY:O	49:DQ:109:VAL:HG23	2.11	0.51
54:DV:49:THR:HB	54:DV:50:PRO:HD2	1.92	0.51
55:DW:20:VAL:O	55:DW:23:LEU:N	2.42	0.51
57:DY:12:THR:HG23	57:DY:25:GLY:O	2.11	0.51
1:AA:1129:C:H5'	1:AA:1129:C:H6	1.74	0.51
5:AE:6:PHE:CZ	5:AE:66:MET:HE1	2.46	0.51
8:AH:9:MET:HE1	8:AH:35:ILE:HB	1.93	0.51
9:AI:18:PHE:O	9:AI:61:ALA:HA	2.10	0.51
9:AI:40:LEU:CD1	9:AI:70:LYS:HG2	2.40	0.51
20:AT:42:GLN:HA	20:AT:42:GLN:NE2	2.25	0.51
25:B0:25:ARG:HD2	25:B0:29:GLN:HE21	1.73	0.51
27:B2:48:HIS:CD2	35:BA:96:G:H4'	2.45	0.51
31:B6:11:LEU:HD13	31:B6:11:LEU:O	2.11	0.51
33:B8:15:LYS:HB2	48:BP:65:ARG:HH12	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:120:U:O2'	35:BA:149:A:C8	2.60	0.51
35:BA:338:G:H2'	35:BA:339:U:C6	2.46	0.51
35:BA:536:A:H2'	35:BA:537:C:C6	2.46	0.51
35:BA:685:A:C5	35:BA:774:A:C2	2.98	0.51
35:BA:1035:U:H2'	35:BA:1036:G:C8	2.44	0.51
35:BA:1450(A):C:H2'	35:BA:1451:C:C6	2.45	0.51
35:BA:1477:A:H5'	35:BA:1478:G:OP2	2.11	0.51
35:BA:1899:G:O2'	35:BA:1900:A:H5''	2.11	0.51
35:BA:1908:C:H2'	35:BA:1909:C:H6	1.75	0.51
35:BA:2020:A:H2'	35:BA:2021:C:H5''	1.91	0.51
35:BA:2220:G:H2'	35:BA:2221:G:H8	1.76	0.51
35:BA:2377:A:O2'	35:BA:2378:A:H5'	2.10	0.51
35:BA:2617:C:C2'	35:BA:2618:G:H5'	2.41	0.51
35:BA:2872:G:C2	35:BA:2873:A:N6	2.78	0.51
37:BC:149:ASN:N	37:BC:149:ASN:HD22	2.07	0.51
38:BD:9:TYR:CD2	38:BD:10:THR:HG22	2.45	0.51
38:BD:134:ARG:HG3	38:BD:135:PHE:HD1	1.75	0.51
38:BD:239:ARG:HH21	38:BD:239:ARG:HG2	1.75	0.51
39:BE:104:VAL:HG22	39:BE:198:VAL:HG22	1.91	0.51
39:BE:116:VAL:O	39:BE:117:MET:CB	2.42	0.51
39:BE:152:LYS:HG3	39:BE:153:GLY:N	2.26	0.51
40:BF:181:LEU:HB3	40:BF:205:ARG:HH12	1.69	0.51
41:BG:181:ARG:O	41:BG:182:LYS:C	2.54	0.51
42:BH:103:LEU:HB2	42:BH:123:PHE:HD2	1.75	0.51
46:BN:133:GLN:O	46:BN:134:ARG:HB3	2.11	0.51
48:BP:146:VAL:HG13	48:BP:147:LEU:N	2.25	0.51
51:BS:104:GLY:C	51:BS:106:ARG:N	2.67	0.51
53:BU:110:VAL:HG12	53:BU:114:LYS:HD2	1.91	0.51
58:BZ:3:TYR:CD2	58:BZ:51:ALA:HB2	2.45	0.51
58:BZ:41:LEU:O	58:BZ:42:VAL:C	2.53	0.51
1:CA:119:A:O2'	1:CA:120:A:OP2	2.26	0.51
1:CA:159:G:C2'	1:CA:160:A:H5''	2.41	0.51
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.11	0.51
1:CA:1124:G:C5'	10:CJ:35:SER:HB2	2.41	0.51
1:CA:1378:C:OP1	7:CG:7:ALA:HB3	2.10	0.51
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.44	0.51
2:CB:8:LYS:O	2:CB:11:LEU:N	2.39	0.51
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.92	0.51
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.93	0.51
3:CC:187:ALA:C	3:CC:188:LEU:HD22	2.36	0.51
4:CD:13:ARG:O	4:CD:14:ARG:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:26:ALA:O	12:CL:27:LEU:O	2.29	0.51
13:CM:3:ARG:HD3	29:D4:34:GLU:HG2	1.92	0.51
22:CW:65:G:H2'	22:CW:66:C:O4'	2.11	0.51
24:CY:165:GLN:HE21	24:CY:177:ILE:HG21	1.75	0.51
24:CY:181:LEU:HD12	24:CY:242:LEU:HD13	1.93	0.51
24:CY:510:VAL:HA	24:CY:570:GLY:CA	2.40	0.51
28:D3:56:VAL:CG1	28:D3:57:GLU:N	2.74	0.51
34:D9:29:ASN:ND2	34:D9:29:ASN:H	2.09	0.51
35:DA:208:C:H2'	35:DA:209:C:H6	1.74	0.51
35:DA:990:A:C6	35:DA:1186:G:H1'	2.45	0.51
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.45	0.51
35:DA:1517:G:H5'	35:DA:1517:G:C8	2.40	0.51
35:DA:1748:G:H5'	35:DA:1748:G:C8	2.40	0.51
35:DA:1999:C:O2'	35:DA:2000:G:H5'	2.10	0.51
35:DA:2298:A:N6	35:DA:2318:G:H8	2.08	0.51
35:DA:2465:C:O2'	35:DA:2466:C:H5'	2.11	0.51
35:DA:2502:G:H5''	35:DA:2503:A:C5'	2.37	0.51
35:DA:2747:G:H21	35:DA:2757:A:H62	1.58	0.51
37:DC:104:ILE:HG23	37:DC:108:TRP:O	2.11	0.51
38:DD:4:LYS:NZ	38:DD:21:PHE:H	2.09	0.51
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.66	0.51
41:DG:59:GLU:HG2	41:DG:60:LEU:N	2.26	0.51
41:DG:103:LEU:HD23	41:DG:106:LEU:HD23	1.92	0.51
41:DG:108:ASN:O	41:DG:109:VAL:HG23	2.10	0.51
46:DN:18:ALA:HB3	46:DN:21:LYS:HB2	1.92	0.51
52:DT:10:VAL:O	52:DT:11:GLU:C	2.53	0.51
58:DZ:99:TYR:CE2	58:DZ:125:LEU:HB2	2.46	0.51
58:DZ:109:ALA:C	58:DZ:111:VAL:N	2.66	0.51
1:AA:460:G:O6	1:AA:470:C:H4'	2.11	0.51
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.44	0.51
1:AA:1122:U:C2'	1:AA:1123:A:H5'	2.40	0.51
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.40	0.51
1:AA:1294:G:C2'	1:AA:1295:G:H5'	2.41	0.51
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.92	0.51
6:AF:38:GLU:HB2	6:AF:64:GLN:O	2.10	0.51
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.93	0.51
7:AG:97:GLN:O	7:AG:98:SER:C	2.53	0.51
8:AH:29:SER:OG	8:AH:32:LYS:HG3	2.10	0.51
8:AH:32:LYS:C	8:AH:34:GLU:N	2.65	0.51
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.10	0.51
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:54:VAL:O	13:AM:56:LEU:N	2.43	0.51
23:AX:13:A:H5'	23:AX:14:A:OP2	2.11	0.51
24:AY:202:PRO:O	24:AY:203:GLU:C	2.53	0.51
24:AY:367:GLU:O	24:AY:368:GLU:HB3	2.10	0.51
24:AY:616:TYR:HB3	24:AY:662:LYS:O	2.11	0.51
35:BA:274:G:N3	35:BA:274:G:C2'	2.74	0.51
35:BA:515:A:C2	35:BA:1261:C:H1'	2.46	0.51
35:BA:567:A:N1	35:BA:571:A:H8	2.09	0.51
35:BA:644:A:C2	35:BA:2369:A:H1'	2.46	0.51
35:BA:784:A:HO2'	35:BA:785:G:H8	1.57	0.51
35:BA:943:U:OP2	48:BP:38:GLN:OE1	2.28	0.51
35:BA:1164:G:H1	35:BA:1185:C:H42	1.58	0.51
35:BA:1718:G:H5'	35:BA:1718:G:C8	2.43	0.51
35:BA:1998:G:O2'	35:BA:1999:C:H5'	2.10	0.51
38:BD:35:LYS:HG2	38:BD:63:ARG:HG3	1.92	0.51
39:BE:31:CYS:C	39:BE:90:THR:HG23	2.36	0.51
40:BF:24:LEU:O	40:BF:26:ALA:N	2.43	0.51
42:BH:37:VAL:CG1	42:BH:38:SER:N	2.74	0.51
42:BH:105:LEU:HD23	42:BH:105:LEU:N	2.25	0.51
46:BN:132:ALA:O	46:BN:133:GLN:HB2	2.11	0.51
46:BN:137:LYS:O	46:BN:138:LEU:HD23	2.10	0.51
48:BP:9:ASN:N	48:BP:10:PRO:CD	2.74	0.51
49:BQ:54:MET:CG	49:BQ:64:ILE:HD13	2.39	0.51
50:BR:7:GLY:C	50:BR:8:ARG:HE	2.19	0.51
51:BS:30:ARG:HH22	51:BS:62:LYS:HD2	1.75	0.51
58:BZ:107:THR:HG23	58:BZ:111:VAL:CG2	2.40	0.51
1:CA:719:C:C2	18:CR:50:ILE:HG12	2.45	0.51
1:CA:771:G:H2'	1:CA:772:U:C6	2.45	0.51
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.93	0.51
5:CE:78:HIS:CE1	5:CE:80:ILE:HG23	2.46	0.51
6:CF:45:LEU:O	6:CF:46:ARG:CG	2.58	0.51
6:CF:71:ARG:HG3	6:CF:71:ARG:NH1	2.25	0.51
8:CH:83:ILE:CD1	8:CH:137:VAL:HG22	2.35	0.51
9:CI:56:LEU:HD23	9:CI:56:LEU:C	2.35	0.51
11:CK:17:GLY:O	11:CK:80:VAL:HA	2.10	0.51
24:CY:448:GLN:HE22	24:CY:480:GLN:HE21	1.59	0.51
24:CY:527:ASN:C	24:CY:527:ASN:HD22	2.18	0.51
24:CY:609:GLU:HG3	24:CY:670:VAL:HG21	1.92	0.51
27:D2:10:LEU:HD22	27:D2:14:ARG:NH2	2.26	0.51
33:D8:50:LEU:C	33:D8:52:LYS:H	2.17	0.51
35:DA:1450(A):C:H2'	35:DA:1451:C:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1913:A:H4'	35:DA:1914:C:H5''	1.91	0.51
35:DA:2230:G:H2'	35:DA:2231:C:C6	2.46	0.51
35:DA:2590:A:OP2	38:DD:238:GLY:HA2	2.11	0.51
39:DE:1:MET:HB2	39:DE:83:ASP:O	2.10	0.51
39:DE:31:CYS:C	39:DE:90:THR:HG23	2.35	0.51
40:DF:174:VAL:HG21	40:DF:189:THR:CG2	2.41	0.51
41:DG:105:LYS:HD3	41:DG:143:GLU:OE1	2.11	0.51
42:DH:84:SER:OG	42:DH:85:LYS:N	2.43	0.51
44:DK:70:LYS:HE3	44:DK:70:LYS:N	2.25	0.51
46:DN:65:LYS:HZ2	46:DN:65:LYS:CB	2.20	0.51
50:DR:12:ARG:HB3	50:DR:16:HIS:CD2	2.46	0.51
54:DV:19:LYS:HB3	54:DV:94:LEU:O	2.10	0.51
1:AA:265:G:H2'	1:AA:267:C:H5	1.76	0.51
1:AA:509:A:C2	1:AA:510:A:C2	2.98	0.51
1:AA:703:G:O2'	1:AA:704:A:OP2	2.29	0.51
1:AA:956:U:H2'	1:AA:957:U:H6	1.76	0.51
1:AA:1452:C:H1'	1:AA:1456:G:C2	2.44	0.51
2:AB:51:LEU:HD23	2:AB:201:ILE:HD12	1.91	0.51
3:AC:181:ASN:HD21	3:AC:204:LEU:HD12	1.75	0.51
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.69	0.51
10:AJ:37:PRO:CA	10:AJ:72:VAL:HG22	2.36	0.51
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.25	0.51
15:AO:65:ARG:HD2	15:AO:65:ARG:H	1.76	0.51
20:AT:48:LYS:HD2	20:AT:51:GLU:OE2	2.11	0.51
20:AT:74:LYS:HD3	20:AT:74:LYS:H	1.76	0.51
22:AV:73:A:O3'	22:AV:74:C:H6	1.94	0.51
24:AY:122:TRP:CD1	24:AY:123:ARG:N	2.79	0.51
24:AY:519:ARG:NH1	24:AY:678:GLU:CB	2.74	0.51
24:AY:573:HIS:CD2	24:AY:575:VAL:H	2.28	0.51
24:AY:616:TYR:CD2	24:AY:663:THR:HA	2.46	0.51
31:B6:8:LYS:NZ	35:BA:2285:C:C5	2.77	0.51
31:B6:11:LEU:CD2	31:B6:51:GLU:HG3	2.40	0.51
31:B6:15:GLU:HB2	31:B6:49:HIS:CE1	2.45	0.51
35:BA:346:A:H2'	35:BA:346:A:N3	2.26	0.51
35:BA:658:C:H2'	35:BA:659:C:C6	2.46	0.51
35:BA:958:U:H6	35:BA:958:U:H3'	1.76	0.51
35:BA:990:A:C6	35:BA:1186:G:H1'	2.45	0.51
35:BA:1420:U:H2'	35:BA:1421:G:H5'	1.92	0.51
35:BA:2395:C:C2	35:BA:2396:G:C8	2.99	0.51
35:BA:2771:C:H2'	35:BA:2772:C:C6	2.46	0.51
35:BA:2875:C:O2'	52:BT:5:ALA:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:205:VAL:O	38:BD:206:LEU:C	2.54	0.51
39:BE:55:ASN:C	39:BE:57:LYS:H	2.17	0.51
39:BE:87:GLU:O	39:BE:88:GLY:C	2.53	0.51
42:BH:53:GLU:CD	42:BH:54:ARG:H	2.19	0.51
46:BN:89:LYS:O	46:BN:93:THR:HG22	2.10	0.51
52:BT:48:ILE:HD12	52:BT:48:ILE:N	2.25	0.51
54:BV:47:VAL:O	54:BV:48:GLY:C	2.54	0.51
58:BZ:119:GLU:C	58:BZ:121:HIS:N	2.68	0.51
58:BZ:152:ALA:CA	58:BZ:167:PRO:HB2	2.41	0.51
1:CA:59:A:H3'	1:CA:331:G:H22	1.75	0.51
1:CA:129(A):G:C6	1:CA:189(E):U:H4'	2.46	0.51
1:CA:276:G:O2'	1:CA:277:C:H5'	2.10	0.51
1:CA:771:G:H2'	1:CA:772:U:H6	1.76	0.51
1:CA:980:C:H2'	1:CA:981:U:H5'	1.93	0.51
1:CA:1134:G:C2'	1:CA:1135:U:H5'	2.41	0.51
8:CH:32:LYS:C	8:CH:34:GLU:N	2.68	0.51
10:CJ:4:ILE:HB	10:CJ:74:ILE:CD1	2.40	0.51
13:CM:96:LEU:HB3	13:CM:97:PRO:CD	2.36	0.51
13:CM:119:GLY:O	13:CM:120:LYS:HB2	2.11	0.51
24:CY:68:ALA:HB3	24:CY:327:PHE:CE1	2.46	0.51
24:CY:106:VAL:HG23	24:CY:132:ARG:HG3	1.93	0.51
24:CY:162:VAL:HG11	24:CY:216:LEU:HD12	1.92	0.51
25:D0:34:GLY:O	25:D0:35:ASN:C	2.54	0.51
27:D2:37:PHE:HE2	56:DX:11:PRO:HB3	1.76	0.51
31:D6:6:ARG:C	31:D6:7:ILE:CD1	2.83	0.51
31:D6:17:LYS:O	31:D6:20:ASN:ND2	2.44	0.51
33:D8:50:LEU:C	33:D8:53:PRO:CD	2.83	0.51
35:DA:86:C:H4'	35:DA:104:U:H1'	1.92	0.51
35:DA:802:A:H2'	35:DA:803:U:C6	2.45	0.51
35:DA:1063:G:O2'	35:DA:1064:C:H5'	2.10	0.51
35:DA:1204:A:N1	35:DA:1241:A:H2	2.07	0.51
35:DA:1719:G:C2'	35:DA:1720:U:H5'	2.40	0.51
35:DA:2351:G:HO2'	35:DA:2352:A:H8	1.58	0.51
36:DB:94:C:H2'	36:DB:95:C:C6	2.46	0.51
39:DE:116:VAL:O	39:DE:117:MET:CB	2.47	0.51
39:DE:116:VAL:HG21	39:DE:122:PHE:CD2	2.45	0.51
42:DH:46:GLU:HG3	42:DH:51:ARG:HB2	1.92	0.51
46:DN:35:ARG:HB3	46:DN:42:TRP:CH2	2.46	0.51
48:DP:47:ASP:OD1	48:DP:49:ARG:HB2	2.10	0.51
49:DQ:75:THR:CG2	49:DQ:76:LYS:N	2.74	0.51
49:DQ:109:VAL:HG12	49:DQ:110:THR:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:79:PHE:O	53:DU:83:LEU:HD13	2.11	0.51
57:DY:10:GLY:O	57:DY:27:VAL:HG22	2.10	0.51
58:DZ:179:ASP:HB3	58:DZ:182:LYS:CE	2.29	0.51
58:DZ:185:GLU:O	58:DZ:187:ALA:N	2.43	0.51
1:AA:296:U:O2'	1:AA:297:G:H5'	2.11	0.51
1:AA:514:C:H2'	1:AA:515:G:H8	1.76	0.51
1:AA:651:C:H2'	1:AA:652:U:C6	2.46	0.51
1:AA:972:C:H4'	10:AJ:57:LYS:HB2	1.93	0.51
1:AA:1006:C:H2'	1:AA:1007:C:C5	2.46	0.51
1:AA:1261:A:C2'	1:AA:1262:C:H5'	2.39	0.51
1:AA:1270:C:H2'	1:AA:1271:G:H8	1.74	0.51
1:AA:1430:C:C2	1:AA:1471:G:N2	2.79	0.51
3:AC:141:VAL:HG12	3:AC:146:ALA:HB3	1.92	0.51
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.10	0.51
4:AD:13:ARG:O	4:AD:14:ARG:C	2.53	0.51
4:AD:54:TYR:O	4:AD:55:ALA:C	2.53	0.51
16:AP:3:LYS:HG2	16:AP:65:GLN:HB2	1.92	0.51
20:AT:16:HIS:O	20:AT:17:ARG:C	2.54	0.51
20:AT:57:ARG:HH11	20:AT:102:GLY:HA2	1.76	0.51
24:AY:15:ILE:O	24:AY:15:ILE:HD12	2.11	0.51
27:B2:33:MET:HE3	27:B2:37:PHE:CE1	2.45	0.51
29:B4:1:MET:SD	41:BG:98:ARG:CG	2.99	0.51
31:B6:9:LEU:O	31:B6:9:LEU:HD13	2.11	0.51
33:B8:28:GLY:HA2	33:B8:32:LEU:HD21	1.92	0.51
35:BA:20:C:H2'	35:BA:21:A:H8	1.76	0.51
35:BA:650:C:C2'	35:BA:651:G:H5''	2.41	0.51
35:BA:2306:C:C5	35:BA:2307:G:O2'	2.63	0.51
35:BA:2705:A:H2'	35:BA:2706:G:O4'	2.11	0.51
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	2.26	0.51
35:BA:2820:A:O3'	50:BR:5:LYS:HE3	2.11	0.51
35:BA:2870:C:O2'	35:BA:2871:C:H5'	2.11	0.51
36:BB:87:G:C2'	36:BB:88:C:H5''	2.40	0.51
37:BC:60:ARG:HG2	37:BC:61:GLY:H	1.75	0.51
38:BD:45:ASN:CG	38:BD:46:GLN:H	2.19	0.51
38:BD:210:GLY:O	38:BD:211:ARG:HB3	2.11	0.51
39:BE:87:GLU:O	39:BE:89:ASP:N	2.44	0.51
39:BE:111:ARG:CZ	50:BR:2:ARG:HH21	2.24	0.51
40:BF:127:GLU:HB2	40:BF:196:LEU:HD11	1.93	0.51
42:BH:16:SER:HB2	42:BH:27:LYS:CB	2.35	0.51
42:BH:83:TYR:CB	42:BH:134:SER:HA	2.37	0.51
46:BN:95:PRO:HA	46:BN:98:VAL:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:127:ALA:C	48:BP:148:LEU:HD11	2.36	0.51
49:BQ:2:LEU:HG	49:BQ:69:PHE:CE1	2.46	0.51
50:BR:117:VAL:O	50:BR:118:GLU:CB	2.57	0.51
51:BS:56:LEU:C	51:BS:58:LEU:H	2.19	0.51
53:BU:97:ASP:C	53:BU:99:ALA:H	2.19	0.51
54:BV:62:LEU:N	54:BV:62:LEU:HD22	2.26	0.51
54:BV:93:GLU:O	54:BV:94:LEU:HD23	2.11	0.51
56:BX:43:VAL:C	56:BX:45:THR:H	2.18	0.51
57:BY:10:GLY:O	57:BY:27:VAL:HG22	2.11	0.51
58:BZ:40:ASP:HB3	58:BZ:43:GLU:HG2	1.92	0.51
1:CA:229:U:O2'	1:CA:230:G:H5'	2.10	0.51
1:CA:353:A:H5'	1:CA:353:A:C8	2.41	0.51
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.92	0.51
1:CA:1029:C:O2'	1:CA:1032:G:N2	2.44	0.51
1:CA:1202:G:C2'	1:CA:1203:C:H5'	2.40	0.51
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.46	0.51
2:CB:95:GLN:HE21	2:CB:147:LYS:HE3	1.75	0.51
3:CC:151:VAL:HG12	3:CC:152:ILE:N	2.25	0.51
5:CE:77:PRO:HG2	5:CE:78:HIS:H	1.76	0.51
6:CF:24:GLU:OE2	6:CF:28:ARG:NH1	2.44	0.51
7:CG:5:ARG:N	7:CG:5:ARG:HD2	2.26	0.51
9:CI:5:TYR:O	9:CI:84:ALA:HA	2.10	0.51
13:CM:116:THR:CG2	13:CM:117:VAL:N	2.74	0.51
20:CT:13:LEU:O	20:CT:16:HIS:N	2.44	0.51
24:CY:106:VAL:HG12	24:CY:108:PHE:CE1	2.46	0.51
24:CY:191:ASP:O	24:CY:193:GLY:N	2.44	0.51
24:CY:330:VAL:HG12	24:CY:331:TYR:N	2.25	0.51
24:CY:631:ILE:HG23	24:CY:632:LEU:N	2.26	0.51
25:D0:77:ARG:NH2	35:DA:857:C:H5'	2.23	0.51
27:D2:3:LEU:HD22	27:D2:7:ARG:NH2	2.25	0.51
32:D7:48:LYS:HZ3	35:DA:125:G:H21	1.58	0.51
35:DA:528:A:C2	35:DA:2043:C:C5'	2.94	0.51
35:DA:753:C:H2'	35:DA:754:C:H6	1.75	0.51
35:DA:768:G:H2'	35:DA:769:G:H8	1.76	0.51
35:DA:1216:G:N2	35:DA:1234:U:H1'	2.26	0.51
35:DA:2050:C:H2'	35:DA:2051:A:O4'	2.11	0.51
36:DB:68:C:O2'	36:DB:69:G:H5'	2.11	0.51
36:DB:81:G:H5'	36:DB:81:G:N3	2.26	0.51
37:DC:11:LEU:C	37:DC:13:GLU:N	2.66	0.51
37:DC:101:ILE:HD12	37:DC:101:ILE:N	2.26	0.51
38:DD:148:GLU:HB2	38:DD:151:LYS:CG	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:205:VAL:O	38:DD:206:LEU:C	2.54	0.51
38:DD:270:ILE:HD12	38:DD:270:ILE:O	2.11	0.51
39:DE:145:LYS:O	39:DE:148:GLY:N	2.44	0.51
41:DG:55:LYS:HG2	41:DG:58:GLN:NE2	2.24	0.51
41:DG:100:TRP:O	41:DG:104:GLU:HB2	2.10	0.51
49:DQ:56:ARG:NH2	58:DZ:180:VAL:HG21	2.17	0.51
52:DT:36:GLU:HG2	52:DT:36:GLU:O	2.11	0.51
52:DT:82:LEU:HD23	52:DT:85:LYS:HD2	1.93	0.51
53:DU:90:VAL:O	53:DU:91:ASP:C	2.54	0.51
54:DV:47:VAL:O	54:DV:48:GLY:C	2.54	0.51
58:DZ:167:PRO:HG2	58:DZ:167:PRO:O	2.11	0.51
1:AA:229:U:O2'	1:AA:230:G:H5'	2.11	0.51
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.11	0.51
2:AB:223:ILE:HG23	2:AB:226:ARG:HD2	1.93	0.51
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.76	0.51
10:AJ:54:PHE:O	10:AJ:55:LYS:C	2.53	0.51
12:AL:41:ARG:CG	12:AL:42:THR:N	2.71	0.51
24:AY:259:PHE:C	24:AY:260:LEU:HD13	2.35	0.51
24:AY:510:VAL:HG12	24:AY:511:LYS:N	2.25	0.51
29:B4:3:GLU:HG3	36:BB:43:C:P	2.51	0.51
31:B6:12:GLU:HB3	31:B6:23:THR:HG22	1.93	0.51
31:B6:22:ALA:C	31:B6:23:THR:HG23	2.36	0.51
33:B8:29:LYS:HD2	33:B8:44:LYS:CB	2.41	0.51
35:BA:65:C:H5'	56:BX:71:GLY:HA3	1.93	0.51
35:BA:190:A:H2'	35:BA:191:A:C8	2.46	0.51
35:BA:909:A:O2'	35:BA:910:A:H5'	2.10	0.51
35:BA:917:A:H2'	35:BA:918:A:O4'	2.11	0.51
35:BA:1063:G:O2'	35:BA:1064:C:H5'	2.11	0.51
35:BA:1095:A:H2'	35:BA:1096:A:C8	2.46	0.51
35:BA:1192:G:H2'	35:BA:1193:G:O4'	2.11	0.51
38:BD:238:GLY:O	38:BD:239:ARG:O	2.29	0.51
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.79	0.51
46:BN:58:ASP:O	46:BN:60:ILE:HG13	2.11	0.51
46:BN:99:LEU:C	46:BN:99:LEU:HD13	2.36	0.51
50:BR:45:ARG:CG	50:BR:46:GLY:H	2.16	0.51
54:BV:31:ALA:C	54:BV:61:VAL:HG12	2.36	0.51
56:BX:14:SER:H	56:BX:17:ALA:HB3	1.76	0.51
56:BX:35:THR:HG22	56:BX:36:LYS:N	2.26	0.51
57:BY:86:ARG:H	57:BY:88:LYS:NZ	2.08	0.51
57:BY:99:CYS:O	57:BY:100:ALA:O	2.27	0.51
1:CA:444:C:H42	1:CA:490:G:H1	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:445:G:H2'	1:CA:446:G:C8	2.45	0.51
1:CA:707:C:H4'	11:CK:20:TYR:CD1	2.46	0.51
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.75	0.51
1:CA:1392:G:N2	1:CA:1502:A:C8	2.78	0.51
7:CG:69:VAL:HG21	7:CG:104:LEU:CD2	2.40	0.51
7:CG:81:GLY:O	7:CG:83:ALA:N	2.40	0.51
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.11	0.51
15:CO:65:ARG:HG2	15:CO:65:ARG:NH1	2.25	0.51
19:CS:16:LEU:HD12	19:CS:16:LEU:N	2.26	0.51
19:CS:27:GLU:O	19:CS:28:LYS:O	2.29	0.51
20:CT:86:ARG:HH11	20:CT:86:ARG:HG3	1.76	0.51
24:CY:201:ILE:H	24:CY:201:ILE:CD1	2.15	0.51
24:CY:238:THR:O	24:CY:240:GLU:N	2.44	0.51
24:CY:355:LEU:N	24:CY:355:LEU:HD22	2.25	0.51
28:D3:31:LEU:HD22	28:D3:32:GLN:N	2.25	0.51
35:DA:363(A):A:H2'	35:DA:363(B):G:C8	2.45	0.51
35:DA:503:A:H4'	35:DA:504:U:H5'	1.93	0.51
35:DA:1019:U:H3	35:DA:1142(A):A:N6	2.09	0.51
35:DA:1218:C:H2'	35:DA:1219:G:H8	1.76	0.51
35:DA:1692:U:H2'	35:DA:1694:C:C4	2.46	0.51
35:DA:1780:A:H5'	35:DA:1781:C:OP2	2.11	0.51
35:DA:2307:G:H3'	35:DA:2307:G:N3	2.26	0.51
35:DA:2348:U:H2'	35:DA:2349:G:H5'	1.92	0.51
35:DA:2367:G:H2'	35:DA:2368:C:H6	1.76	0.51
35:DA:2470:G:P	49:DQ:56:ARG:NH1	2.83	0.51
35:DA:2617:C:C2'	35:DA:2618:G:H5'	2.41	0.51
37:DC:135:ARG:HD2	37:DC:135:ARG:N	2.25	0.51
37:DC:149:ASN:N	37:DC:149:ASN:HD22	2.08	0.51
38:DD:166:GLN:HA	38:DD:166:GLN:NE2	2.26	0.51
39:DE:108:SER:O	39:DE:109:LYS:C	2.54	0.51
40:DF:192:LEU:HD23	40:DF:193:VAL:N	2.25	0.51
41:DG:107:LEU:HD22	41:DG:177:GLY:O	2.10	0.51
44:DK:120:LEU:HA	44:DK:123:ALA:HB3	1.93	0.51
46:DN:2:LYS:NZ	54:DV:12:TYR:HA	2.25	0.51
46:DN:65:LYS:HA	46:DN:65:LYS:NZ	2.25	0.51
54:DV:21:ARG:HB3	54:DV:91:TYR:HD1	1.71	0.51
57:DY:95:LYS:HE2	57:DY:101:LYS:H	1.76	0.51
1:AA:1298:C:O2	1:AA:1298:C:C2'	2.60	0.50
1:AA:1333:A:C2	1:AA:1334:G:H1'	2.46	0.50
1:AA:1493:A:H8	1:AA:1493:A:OP2	1.93	0.50
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:92:SER:O	7:AG:93:PRO:C	2.52	0.50
24:AY:177:ILE:HG21	24:AY:260:LEU:HD21	1.93	0.50
24:AY:236:GLU:O	24:AY:236:GLU:HG3	2.10	0.50
24:AY:635:GLU:OE1	24:AY:644:ARG:HD2	2.11	0.50
26:B1:92:LYS:HE2	35:BA:153:C:OP1	2.11	0.50
27:B2:8:LYS:O	27:B2:12:GLU:N	2.29	0.50
27:B2:15:LYS:O	27:B2:15:LYS:HG3	2.10	0.50
28:B3:54:VAL:HG12	28:B3:55:ARG:N	2.26	0.50
35:BA:654(M):C:O2'	35:BA:654(N):G:C8	2.58	0.50
35:BA:750:A:C2	35:BA:753:C:C6	2.99	0.50
35:BA:1216:G:N2	35:BA:1234:U:H1'	2.26	0.50
35:BA:1784:A:H4'	35:BA:1785:A:O5'	2.11	0.50
35:BA:1917:U:H2'	35:BA:1918:A:H5'	1.93	0.50
38:BD:33:LEU:HD23	38:BD:33:LEU:C	2.37	0.50
39:BE:4:ILE:HG13	39:BE:5:LEU:H	1.75	0.50
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.92	0.50
39:BE:81:ILE:O	39:BE:81:ILE:CG2	2.58	0.50
41:BG:46:ALA:HA	41:BG:51:ARG:CB	2.41	0.50
41:BG:133:LEU:HD11	41:BG:157:ILE:CD1	2.29	0.50
46:BN:49:GLY:CA	46:BN:119:ARG:HH12	2.23	0.50
46:BN:78:TYR:N	46:BN:78:TYR:CD1	2.79	0.50
49:BQ:35:VAL:HG22	49:BQ:36:ALA:N	2.26	0.50
49:BQ:75:THR:CG2	49:BQ:76:LYS:N	2.74	0.50
50:BR:12:ARG:HH11	50:BR:12:ARG:CG	2.23	0.50
53:BU:8:VAL:CG2	53:BU:12:ARG:HE	2.24	0.50
54:BV:79:VAL:O	54:BV:80:GLN:HB2	2.09	0.50
56:BX:44:GLU:HB2	56:BX:49:VAL:O	2.11	0.50
57:BY:43:ASN:HA	57:BY:64:GLU:HA	1.93	0.50
1:CA:22:G:H4'	1:CA:885:G:C8	2.46	0.50
1:CA:893:C:H2'	1:CA:894:G:H8	1.76	0.50
2:CB:19:HIS:HD2	2:CB:189:ASP:OD2	1.94	0.50
2:CB:121:LEU:HD21	2:CB:126:GLU:OE2	2.11	0.50
4:CD:120:LEU:HB3	4:CD:126:ILE:HD11	1.93	0.50
4:CD:165:MET:HE3	4:CD:176:LEU:CD2	2.41	0.50
5:CE:59:GLY:O	5:CE:62:ALA:HB3	2.11	0.50
5:CE:101:ILE:HG12	5:CE:101:ILE:O	2.10	0.50
10:CJ:4:ILE:HD12	10:CJ:4:ILE:H	1.77	0.50
10:CJ:61:GLU:HG3	14:CN:58:LYS:CE	2.41	0.50
15:CO:31:LEU:CD2	15:CO:31:LEU:H	2.23	0.50
16:CP:19:ILE:N	16:CP:37:GLY:O	2.41	0.50
18:CR:69:THR:O	18:CR:72:ARG:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:24:ALA:O	19:CS:25:LYS:CB	2.59	0.50
24:CY:36:THR:OG1	24:CY:37:GLY:N	2.44	0.50
24:CY:77:HIS:NE2	24:CY:277:VAL:HG21	2.27	0.50
24:CY:92:ILE:C	24:CY:92:ILE:HD13	2.36	0.50
26:D1:27:GLU:O	26:D1:28:GLY:C	2.54	0.50
26:D1:69:LYS:NZ	35:DA:372:G:OP2	2.42	0.50
27:D2:67:LYS:O	27:D2:70:GLN:HG3	2.11	0.50
31:D6:15:GLU:OE1	31:D6:41:PRO:CG	2.59	0.50
33:D8:10:ALA:O	33:D8:14:VAL:HG12	2.10	0.50
33:D8:39:LYS:HG3	33:D8:43:GLN:NE2	2.26	0.50
35:DA:558:G:H5'	46:DN:112:LEU:HD22	1.91	0.50
35:DA:657:U:H2'	35:DA:658:C:H6	1.73	0.50
35:DA:1708:C:O2'	35:DA:1709:U:H5'	2.11	0.50
35:DA:2346:A:H1'	35:DA:2383:G:N9	2.25	0.50
35:DA:2647:U:H2'	35:DA:2648:C:H6	1.74	0.50
35:DA:2787:C:C2	39:DE:61:ARG:HD3	2.46	0.50
37:DC:29:LEU:O	37:DC:31:LYS:N	2.44	0.50
37:DC:60:ARG:HG2	37:DC:61:GLY:H	1.75	0.50
41:DG:116:ASP:O	41:DG:117:PHE:CB	2.56	0.50
41:DG:131:TYR:HB3	41:DG:159:VAL:CG1	2.41	0.50
42:DH:33:LEU:HD12	42:DH:75:ALA:O	2.11	0.50
42:DH:40:GLU:HG3	42:DH:64:LEU:CD1	2.41	0.50
48:DP:55:ARG:CG	48:DP:56:SER:N	2.64	0.50
48:DP:67:MET:O	48:DP:68:GLN:HG3	2.10	0.50
48:DP:128:HIS:ND1	48:DP:148:LEU:HD13	2.25	0.50
49:DQ:60:ARG:HB2	49:DQ:60:ARG:CZ	2.41	0.50
52:DT:99:LEU:HB2	52:DT:101:PHE:HE1	1.76	0.50
54:DV:66:ARG:NH1	54:DV:88:ARG:HE	2.09	0.50
58:DZ:109:ALA:HB3	58:DZ:145:GLU:CA	2.42	0.50
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG2	2.33	0.50
1:AA:260:G:H2'	1:AA:261:U:H6	1.75	0.50
1:AA:542:G:O2'	1:AA:543:C:H5'	2.10	0.50
1:AA:999:C:H2'	1:AA:1000:U:C4	2.45	0.50
1:AA:1112:C:O2'	3:AC:179:ARG:HG2	2.11	0.50
1:AA:1161:C:O2'	1:AA:1162:C:H5'	2.11	0.50
1:AA:1190:G:OP1	3:AC:4:LYS:HA	2.11	0.50
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.10	0.50
5:AE:77:PRO:HG2	5:AE:78:HIS:H	1.75	0.50
7:AG:54:THR:HG22	7:AG:125:MET:HE3	1.92	0.50
10:AJ:4:ILE:CD1	10:AJ:74:ILE:HG13	2.40	0.50
13:AM:66:LEU:O	13:AM:70:LEU:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:181:LEU:HB2	24:AY:216:LEU:HD11	1.93	0.50
24:AY:407:PRO:HB3	24:AY:452:SER:OG	2.11	0.50
25:B0:74:ARG:HG2	36:BB:13:A:OP2	2.12	0.50
26:B1:76:ARG:HH22	26:B1:95:LEU:CD1	2.24	0.50
30:B5:2:ALA:O	30:B5:3:LYS:HB3	2.11	0.50
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.44	0.50
31:B6:17:LYS:O	31:B6:20:ASN:ND2	2.44	0.50
33:B8:48:PHE:O	33:B8:49:VAL:CG1	2.58	0.50
33:B8:50:LEU:C	33:B8:52:LYS:H	2.17	0.50
35:BA:482:A:H4'	57:BY:47:LYS:HG2	1.93	0.50
35:BA:651:G:C2'	35:BA:652:C:H5'	2.41	0.50
35:BA:768:G:H2'	35:BA:769:G:C8	2.47	0.50
35:BA:1204:A:H61	35:BA:1240:U:H2'	1.76	0.50
35:BA:2121:G:O2'	37:BC:168:LYS:HG2	2.10	0.50
35:BA:2298:A:N6	35:BA:2318:G:H8	2.09	0.50
35:BA:2337:G:H2'	35:BA:2338:G:H8	1.75	0.50
35:BA:2577:A:H5'	35:BA:2578:G:C5'	2.41	0.50
35:BA:2688:U:H3'	35:BA:2688:U:O2	2.11	0.50
35:BA:2735:G:H2'	35:BA:2736:G:C8	2.44	0.50
35:BA:2870:C:H5''	50:BR:65:LEU:HD21	1.92	0.50
36:BB:81:G:N3	36:BB:81:G:H5'	2.26	0.50
37:BC:101:ILE:HD12	37:BC:101:ILE:N	2.26	0.50
41:BG:152:LEU:CD2	41:BG:152:LEU:H	2.23	0.50
44:BK:78:ILE:HD13	44:BK:134:MET:SD	2.51	0.50
44:BK:136:VAL:O	44:BK:136:VAL:HG13	2.11	0.50
47:BO:105:GLU:O	47:BO:109:LYS:CG	2.57	0.50
51:BS:25:ARG:HG3	51:BS:26:LEU:H	1.77	0.50
51:BS:85:VAL:HG23	51:BS:106:ARG:CG	2.41	0.50
52:BT:11:GLU:C	52:BT:13:ARG:N	2.70	0.50
53:BU:95:LEU:CD1	54:BV:11:GLN:HG3	2.41	0.50
54:BV:19:LYS:HB3	54:BV:94:LEU:O	2.11	0.50
55:BW:1:MET:HE3	55:BW:2:GLU:H	1.76	0.50
1:CA:190:U:C2	20:CT:105:SER:HB2	2.46	0.50
1:CA:418:C:H2'	1:CA:419:C:C6	2.46	0.50
1:CA:821:G:O2'	1:CA:822:C:H5'	2.11	0.50
1:CA:892:A:O2'	1:CA:1415:G:H4'	2.11	0.50
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.46	0.50
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.46	0.50
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.46	0.50
2:CB:91:PRO:HG2	2:CB:155:LEU:HD23	1.92	0.50
3:CC:10:PHE:CE1	3:CC:178:LEU:HD11	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:173:VAL:HG12	3:CC:175:LEU:CD1	2.41	0.50
4:CD:8:VAL:C	4:CD:10:ARG:N	2.69	0.50
4:CD:58:LEU:HD23	4:CD:58:LEU:O	2.11	0.50
4:CD:61:LYS:NZ	4:CD:72:GLU:OE2	2.40	0.50
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.91	0.50
5:CE:101:ILE:CD1	5:CE:119:LEU:HA	2.29	0.50
6:CF:72:VAL:HG13	6:CF:73:ASN:N	2.26	0.50
7:CG:78:ARG:HE	7:CG:156:TRP:HB3	1.75	0.50
18:CR:53:ARG:C	18:CR:55:ARG:N	2.66	0.50
24:CY:81:ILE:C	24:CY:82:ILE:HG13	2.36	0.50
24:CY:369:LEU:HD12	24:CY:369:LEU:N	2.25	0.50
26:D1:90:ILE:HG22	26:D1:94:LEU:HD11	1.92	0.50
27:D2:3:LEU:HD12	35:DA:98:G:C5'	2.41	0.50
28:D3:44:ARG:O	28:D3:45:GLY:C	2.54	0.50
33:D8:36:LYS:O	33:D8:37:SER:C	2.54	0.50
35:DA:567:A:N1	35:DA:571:A:H8	2.08	0.50
35:DA:658:C:H2'	35:DA:659:C:C6	2.47	0.50
35:DA:705:A:C2	35:DA:727:A:H1'	2.46	0.50
35:DA:1040:C:H2'	35:DA:1041:C:C6	2.46	0.50
35:DA:1542:A:H3'	35:DA:1542:A:H8	1.75	0.50
35:DA:1891:G:H2'	35:DA:1892:C:O4'	2.11	0.50
35:DA:2723:C:H5''	50:DR:2:ARG:NH1	2.15	0.50
35:DA:2860:A:H2'	35:DA:2861:G:H5'	1.93	0.50
38:DD:70:TRP:CD1	38:DD:70:TRP:C	2.89	0.50
41:DG:55:LYS:C	41:DG:57:ALA:N	2.63	0.50
42:DH:105:LEU:HD23	42:DH:105:LEU:N	2.27	0.50
44:DK:136:VAL:O	44:DK:136:VAL:HG13	2.11	0.50
49:DQ:79:LEU:HD23	49:DQ:80:GLU:N	2.24	0.50
53:DU:83:LEU:HD12	53:DU:113:ALA:HB2	1.92	0.50
53:DU:92:ARG:HD3	53:DU:94:ASN:CB	2.41	0.50
1:AA:190:U:C2	20:AT:105:SER:HB2	2.46	0.50
1:AA:445:G:H2'	1:AA:446:G:C8	2.46	0.50
1:AA:980:C:H2'	1:AA:981:U:H5'	1.93	0.50
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.93	0.50
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.36	0.50
2:AB:233:SER:OG	2:AB:234:PRO:HD2	2.11	0.50
11:AK:87:THR:O	11:AK:88:GLY:C	2.54	0.50
19:AS:19:VAL:HG12	19:AS:20:LEU:HG	1.94	0.50
24:AY:35:TYR:CE1	24:AY:269:VAL:HB	2.45	0.50
24:AY:71:THR:HG21	24:AY:357:ARG:CD	2.41	0.50
24:AY:92:ILE:CG2	24:AY:454:MET:HE1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:114:VAL:O	24:AY:116:PRO:HD3	2.11	0.50
24:AY:252:ASP:HB2	24:AY:254:LYS:CG	2.40	0.50
24:AY:415:PRO:CB	24:AY:421:GLN:HA	2.42	0.50
24:AY:485:GLU:OE1	24:AY:555:LEU:HB2	2.12	0.50
24:AY:634:MET:HG2	24:AY:634:MET:O	2.10	0.50
31:B6:47:THR:CG2	31:B6:48:VAL:H	2.19	0.50
35:BA:588:U:H1'	40:BF:90:PHE:CG	2.47	0.50
35:BA:958:U:H3'	35:BA:958:U:C6	2.46	0.50
35:BA:1542:A:H3'	35:BA:1542:A:C8	2.46	0.50
35:BA:1610:A:H4'	35:BA:1611:C:OP2	2.11	0.50
35:BA:1680:U:O2'	35:BA:1681:G:H5'	2.12	0.50
35:BA:1814:G:H4'	38:BD:51:VAL:HG21	1.92	0.50
35:BA:2130:U:OP1	37:BC:6:LYS:HB2	2.11	0.50
35:BA:2192:G:C3'	35:BA:2193:G:H5''	2.42	0.50
35:BA:2307:G:N2	35:BA:2308:G:C5'	2.74	0.50
35:BA:2712:U:C2'	35:BA:2712(A):A:O5'	2.60	0.50
35:BA:2867:G:N7	52:BT:23:ARG:NH1	2.58	0.50
37:BC:92:ALA:HB3	37:BC:95:VAL:HG22	1.92	0.50
38:BD:62:TYR:CE1	38:BD:64:ILE:HA	2.45	0.50
38:BD:108:PRO:HG2	38:BD:111:LEU:HB2	1.92	0.50
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.75	0.50
39:BE:32:PRO:N	39:BE:90:THR:HG23	2.27	0.50
39:BE:61:ARG:HG2	39:BE:62:PRO:CD	2.41	0.50
40:BF:192:LEU:CD2	40:BF:194:MET:HG3	2.30	0.50
42:BH:13:LYS:C	42:BH:15:VAL:H	2.17	0.50
42:BH:54:ARG:O	42:BH:54:ARG:HD2	2.11	0.50
45:BL:14:UNK:HA	45:Bm:13:UNK:O	2.11	0.50
48:BP:58:THR:O	48:BP:58:THR:HG22	2.11	0.50
49:BQ:135:ASP:O	49:BQ:138:ASP:OD2	2.30	0.50
51:BS:73:LEU:O	51:BS:73:LEU:HD23	2.12	0.50
53:BU:79:PHE:O	53:BU:83:LEU:HD13	2.11	0.50
58:BZ:45:ASP:OD2	58:BZ:49:ARG:HG2	2.11	0.50
1:CA:193:C:H2'	1:CA:194:C:C6	2.47	0.50
1:CA:260:G:H2'	1:CA:261:U:C6	2.46	0.50
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.11	0.50
1:CA:664:G:O2'	1:CA:666:G:OP2	2.28	0.50
1:CA:779:C:O2'	11:CK:120:ARG:HD3	2.10	0.50
1:CA:1006:C:H2'	1:CA:1007:C:C5	2.47	0.50
1:CA:1507:A:C2	1:CA:1508:G:C4	2.99	0.50
2:CB:172:ILE:H	2:CB:172:ILE:CD1	2.04	0.50
2:CB:189:ASP:C	2:CB:191:ASP:H	2.17	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:153:ARG:HG2	4:CD:153:ARG:NH1	2.26	0.50
10:CJ:63:PHE:HA	14:CN:59:ALA:CB	2.40	0.50
12:CL:6:THR:HG23	12:CL:9:GLN:NE2	2.24	0.50
12:CL:38:THR:HG23	12:CL:57:LYS:CB	2.42	0.50
15:CO:17:ARG:NH1	15:CO:77:ARG:CZ	2.74	0.50
24:CY:82:ILE:HD12	24:CY:101:LEU:CD2	2.41	0.50
24:CY:526:VAL:HG11	24:CY:566:THR:HG23	1.94	0.50
27:D2:48:HIS:CG	27:D2:49:LYS:H	2.29	0.50
29:D4:14:ILE:HG22	29:D4:15:ILE:N	2.25	0.50
30:D5:22:HIS:CE1	35:DA:2624:G:H1'	2.46	0.50
35:DA:572:A:OP2	54:DV:78:LYS:NZ	2.38	0.50
35:DA:665:C:H2'	35:DA:666:G:H8	1.76	0.50
35:DA:1145:C:H2'	35:DA:1146:C:C6	2.46	0.50
35:DA:1567:A:C5'	38:DD:58:HIS:CD2	2.94	0.50
35:DA:1858:G:HO2'	35:DA:1859:A:H8	1.59	0.50
35:DA:2053:G:H1	35:DA:2616:C:H42	1.59	0.50
35:DA:2306:C:C5	35:DA:2307:G:O2'	2.61	0.50
35:DA:2678:C:O2'	35:DA:2679:A:H5'	2.11	0.50
35:DA:2816:C:O2	35:DA:2883:A:O2'	2.30	0.50
36:DB:87:G:C2'	36:DB:88:C:H5''	2.41	0.50
39:DE:24:THR:CG2	39:DE:184:VAL:HG23	2.39	0.50
39:DE:101:ARG:NH1	39:DE:169:ASN:ND2	2.59	0.50
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.74	0.50
42:DH:172:LYS:HG3	42:DH:175:LYS:CE	2.42	0.50
44:DK:103:GLN:C	44:DK:106:GLU:HG2	2.36	0.50
46:DN:89:LYS:O	46:DN:93:THR:HG22	2.12	0.50
47:DO:10:VAL:O	47:DO:10:VAL:HG23	2.11	0.50
48:DP:121:LYS:O	48:DP:123:LEU:HD23	2.11	0.50
52:DT:12:SER:O	52:DT:13:ARG:NH2	2.44	0.50
1:AA:691:G:H2'	1:AA:692:U:C6	2.46	0.50
1:AA:707:C:O2'	1:AA:708:C:H5'	2.11	0.50
1:AA:708:C:H2'	1:AA:709:G:H8	1.77	0.50
1:AA:1002:G:N2	1:AA:1039:C:H2'	2.25	0.50
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.47	0.50
2:AB:119:GLU:C	2:AB:121:LEU:H	2.20	0.50
7:AG:78:ARG:HG3	7:AG:78:ARG:HH11	1.76	0.50
8:AH:9:MET:O	8:AH:13:ILE:HG12	2.11	0.50
11:AK:17:GLY:O	11:AK:80:VAL:HA	2.12	0.50
12:AL:80:HIS:O	12:AL:81:SER:CB	2.58	0.50
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.37	0.50
22:AW:53:G:H2'	22:AW:54:G:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:146:LEU:C	24:AY:146:LEU:HD23	2.36	0.50
24:AY:214:GLU:O	24:AY:218:GLU:N	2.42	0.50
24:AY:293:THR:HA	24:AY:397:VAL:HG12	1.94	0.50
24:AY:427:ALA:O	24:AY:431:LEU:HB2	2.12	0.50
24:AY:428:LEU:N	24:AY:428:LEU:HD23	2.25	0.50
25:B0:40:GLN:HE22	25:B0:43:THR:CA	2.22	0.50
26:B1:64:ALA:HA	26:B1:67:ILE:CG1	2.41	0.50
26:B1:80:LEU:HD13	26:B1:82:LEU:HD11	1.94	0.50
27:B2:64:LEU:C	27:B2:64:LEU:HD13	2.37	0.50
31:B6:42:TRP:NE1	35:BA:643:A:OP1	2.44	0.50
35:BA:154(A):C:C5	35:BA:155:U:H1'	2.47	0.50
35:BA:381:G:O2'	35:BA:382:G:H5'	2.12	0.50
35:BA:568:U:H2'	35:BA:570:G:OP2	2.11	0.50
35:BA:624:C:N4	48:BP:107:LYS:NZ	2.60	0.50
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.10	0.50
35:BA:1567:A:H5'	38:BD:58:HIS:CD2	2.46	0.50
35:BA:2392:A:H2	35:BA:2424:C:H42	1.60	0.50
35:BA:2626:C:H2'	35:BA:2627:G:O4'	2.11	0.50
35:BA:2736:G:O2'	35:BA:2737:G:H5'	2.12	0.50
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.77	0.50
37:BC:104:ILE:HG23	37:BC:108:TRP:O	2.11	0.50
38:BD:35:LYS:CG	38:BD:63:ARG:HA	2.34	0.50
38:BD:43:ARG:CB	38:BD:54:ARG:HB2	2.41	0.50
38:BD:142:VAL:HG23	38:BD:193:VAL:HA	1.93	0.50
42:BH:77:LYS:HA	42:BH:80:SER:OG	2.10	0.50
51:BS:65:VAL:C	51:BS:67:ARG:H	2.20	0.50
52:BT:36:GLU:HG2	52:BT:36:GLU:O	2.11	0.50
54:BV:66:ARG:NH1	54:BV:88:ARG:HE	2.10	0.50
55:BW:66:GLU:HA	55:BW:69:LEU:CD1	2.41	0.50
58:BZ:58:VAL:HA	58:BZ:67:LEU:O	2.12	0.50
1:CA:187:C:OP1	20:CT:82:SER:HB2	2.10	0.50
1:CA:999:C:H2'	1:CA:1000:U:C4	2.47	0.50
1:CA:1089:G:O2'	1:CA:1090:U:H5'	2.11	0.50
1:CA:1190:G:OP1	3:CC:4:LYS:HA	2.11	0.50
1:CA:1226:C:H5''	13:CM:103:THR:OG1	2.11	0.50
1:CA:1525:G:O2'	1:CA:1526:G:H5'	2.12	0.50
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.89	0.50
2:CB:86:GLU:C	2:CB:88:ALA:N	2.69	0.50
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.46	0.50
5:CE:29:GLY:HA2	5:CE:46:GLY:O	2.11	0.50
6:CF:38:GLU:HB2	6:CF:64:GLN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:34:GLU:HB3	8:CH:118:VAL:HG21	1.92	0.50
9:CI:33:PHE:C	9:CI:35:GLU:H	2.19	0.50
24:CY:142:THR:CG2	24:CY:143:GLY:N	2.75	0.50
24:CY:165:GLN:NE2	24:CY:177:ILE:HG21	2.25	0.50
24:CY:227:ILE:CD1	24:CY:242:LEU:HA	2.41	0.50
24:CY:399:LEU:CD1	24:CY:399:LEU:N	2.74	0.50
24:CY:413:ILE:O	24:CY:413:ILE:HG23	2.10	0.50
24:CY:492:ASP:OD1	24:CY:513:LYS:HD2	2.12	0.50
61:CY:702:FUA:O1	61:CY:702:FUA:C1	2.57	0.50
25:D0:19:LYS:HD3	25:D0:41:ARG:NH2	2.26	0.50
25:D0:27:GLU:HG3	25:D0:68:GLU:HA	1.93	0.50
27:D2:33:MET:HE3	27:D2:37:PHE:HE1	1.76	0.50
35:DA:154(A):C:H3'	35:DA:155:U:H5''	1.93	0.50
35:DA:443:A:H3'	40:DF:45:ARG:NH2	2.26	0.50
35:DA:825:C:H2'	35:DA:826:U:O4'	2.12	0.50
35:DA:1367:A:C2'	35:DA:1368:G:H5'	2.40	0.50
35:DA:1465:G:H2'	35:DA:1466:G:H8	1.75	0.50
38:DD:35:LYS:CD	38:DD:36:PRO:N	2.63	0.50
38:DD:43:ARG:HB3	38:DD:54:ARG:CB	2.40	0.50
40:DF:160:ASN:HD21	40:DF:162:LEU:HD13	1.75	0.50
40:DF:167:ALA:C	40:DF:170:LEU:HD23	2.35	0.50
41:DG:59:GLU:O	41:DG:62:LEU:HD13	2.11	0.50
41:DG:179:PRO:O	41:DG:180:PHE:CD2	2.65	0.50
52:DT:118:ARG:HA	52:DT:121:ILE:HD12	1.93	0.50
58:DZ:56:VAL:HA	58:DZ:70:LEU:CD2	2.41	0.50
1:AA:39:G:O2'	1:AA:40:C:H5'	2.11	0.50
1:AA:78:G:H1	1:AA:91:C:H42	1.60	0.50
1:AA:284:G:H2'	1:AA:285:G:H8	1.76	0.50
1:AA:489:C:H2'	1:AA:490:G:C8	2.46	0.50
1:AA:637:G:O2'	1:AA:638:G:H5'	2.12	0.50
1:AA:867:G:O2'	1:AA:868:C:H5'	2.12	0.50
1:AA:1348:U:H2'	1:AA:1349:A:C8	2.46	0.50
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.65	0.50
3:AC:131:ARG:O	3:AC:132:ARG:C	2.54	0.50
4:AD:2:GLY:O	4:AD:4:TYR:N	2.45	0.50
5:AE:136:MET:O	5:AE:137:GLU:C	2.54	0.50
9:AI:128:ARG:O	13:AM:125:ARG:HD2	2.11	0.50
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.21	0.50
12:AL:70:ILE:CG2	12:AL:100:ILE:HD12	2.41	0.50
20:AT:11:SER:HA	20:AT:13:LEU:CD1	2.42	0.50
20:AT:86:ARG:HG3	20:AT:86:ARG:HH11	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:93:GLU:C	20:AT:95:ALA:N	2.70	0.50
22:AV:29:G:C6	22:AV:30:G:N7	2.79	0.50
22:AW:20:G:H4'	22:AW:21:U:OP2	2.10	0.50
24:AY:15:ILE:C	24:AY:101:LEU:HD13	2.37	0.50
24:AY:20:HIS:N	24:AY:121:VAL:HG11	2.27	0.50
24:AY:66:THR:O	24:AY:67:ALA:HB3	2.10	0.50
24:AY:255:ILE:CG1	24:AY:256:THR:N	2.74	0.50
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.26	0.50
28:B3:31:LEU:HD22	28:B3:32:GLN:H	1.77	0.50
29:B4:51:ASP:OD2	29:B4:52:THR:HG23	2.11	0.50
30:B5:34:PRO:HG3	35:BA:2885:C:O2'	2.12	0.50
33:B8:51:ALA:HA	33:B8:54:GLU:OE1	2.10	0.50
35:BA:298:G:H8	35:BA:298:G:O5'	1.94	0.50
35:BA:637:A:OP2	48:BP:115:LEU:HB2	2.12	0.50
35:BA:705:A:C2	35:BA:727:A:H1'	2.47	0.50
35:BA:817:C:H2'	35:BA:818:G:O4'	2.12	0.50
35:BA:1288:U:H4'	35:BA:1289:C:OP2	2.11	0.50
35:BA:1336:A:H2'	35:BA:1337:G:H8	1.76	0.50
35:BA:2228:G:H2'	35:BA:2229:C:H6	1.77	0.50
35:BA:2617:C:O2'	35:BA:2618:G:H5'	2.11	0.50
38:BD:70:TRP:C	38:BD:70:TRP:CD1	2.89	0.50
40:BF:81:PRO:O	40:BF:83:PHE:N	2.45	0.50
42:BH:146:ALA:O	42:BH:147:ASN:C	2.55	0.50
44:BK:93:ARG:HB2	58:BZ:112:ARG:CZ	2.42	0.50
48:BP:102:ARG:CB	48:BP:102:ARG:HH21	2.25	0.50
52:BT:102:ILE:O	52:BT:103:ARG:C	2.55	0.50
53:BU:50:ARG:C	53:BU:52:ARG:N	2.68	0.50
53:BU:79:PHE:CE2	53:BU:83:LEU:HD11	2.46	0.50
54:BV:35:LEU:C	54:BV:37:VAL:H	2.19	0.50
57:BY:47:LYS:O	57:BY:48:ALA:O	2.30	0.50
1:CA:104:G:OP1	20:CT:21:LYS:NZ	2.36	0.50
1:CA:559:A:OP2	5:CE:126:ARG:NH2	2.44	0.50
1:CA:1038:C:H2'	1:CA:1039:C:C6	2.47	0.50
1:CA:1129:C:H5'	1:CA:1129:C:C6	2.45	0.50
1:CA:1293:G:O2'	1:CA:1294:G:H5'	2.12	0.50
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.93	0.50
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.40	0.50
3:CC:90:GLU:HA	3:CC:93:LYS:CB	2.41	0.50
7:CG:97:GLN:O	7:CG:98:SER:C	2.53	0.50
10:CJ:47:PHE:CE2	14:CN:37:PHE:CE2	2.99	0.50
11:CK:107:SER:C	11:CK:108:ILE:HD12	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.55	0.50
18:CR:53:ARG:C	18:CR:55:ARG:H	2.17	0.50
19:CS:15:LEU:O	19:CS:19:VAL:HB	2.12	0.50
20:CT:84:LEU:O	20:CT:86:ARG:N	2.44	0.50
22:CW:39:A:H2'	22:CW:40:C:O4'	2.12	0.50
22:CW:52:C:H2'	22:CW:53:G:C4'	2.42	0.50
24:CY:66:THR:O	24:CY:67:ALA:CB	2.60	0.50
24:CY:400:GLU:HG2	24:CY:401:SER:N	2.26	0.50
24:CY:426:GLN:O	24:CY:427:ALA:C	2.54	0.50
24:CY:590:ILE:HD13	24:CY:593:ALA:HB2	1.94	0.50
24:CY:659:LEU:C	24:CY:659:LEU:HD13	2.36	0.50
61:CY:702:FUA:H5	61:CY:702:FUA:C20	2.12	0.50
35:DA:259:G:N2	35:DA:621:A:H8	2.10	0.50
35:DA:302:C:H2'	35:DA:303:U:C6	2.47	0.50
35:DA:342:G:O2'	35:DA:343:C:H5'	2.12	0.50
35:DA:532:A:N3	35:DA:532:A:H2'	2.27	0.50
35:DA:809:G:O2'	35:DA:810:U:H5'	2.12	0.50
35:DA:1015:G:H2'	35:DA:1016:G:H8	1.74	0.50
35:DA:1035:U:O5'	42:DH:59:ARG:NH1	2.45	0.50
35:DA:1420:U:H2'	35:DA:1421:G:H5'	1.93	0.50
35:DA:1528:A:N3	35:DA:1528:A:H2'	2.26	0.50
35:DA:1600:C:O2'	35:DA:1601:G:H5'	2.12	0.50
35:DA:1610:A:H4'	35:DA:1611:C:OP2	2.11	0.50
35:DA:2020:A:H2'	35:DA:2021:C:H5''	1.92	0.50
35:DA:2886:G:H2'	35:DA:2887:U:H6	1.76	0.50
36:DB:85:G:O2'	36:DB:86:G:H5'	2.11	0.50
38:DD:26:LYS:HE2	38:DD:26:LYS:N	2.26	0.50
39:DE:188:VAL:HG23	39:DE:189:PRO:HD2	1.93	0.50
43:DJ:13:UNK:C	43:DJ:15:UNK:N	2.73	0.50
48:DP:25:SER:O	48:DP:30:THR:HG23	2.11	0.50
52:DT:6:LEU:O	52:DT:9:LEU:N	2.45	0.50
54:DV:99:ILE:N	54:DV:99:ILE:HD13	2.25	0.50
55:DW:107:LEU:HD22	55:DW:107:LEU:N	2.26	0.50
56:DX:12:VAL:HG12	56:DX:27:THR:C	2.35	0.50
57:DY:58:GLY:O	57:DY:59:GLY:C	2.53	0.50
58:DZ:44:PHE:C	58:DZ:44:PHE:CD1	2.88	0.50
1:AA:80:G:H5''	1:AA:81:U:H5'	1.93	0.50
1:AA:159:G:H2'	1:AA:160:A:H5''	1.94	0.50
1:AA:177:C:C2	1:AA:178:C:C5	3.00	0.50
1:AA:177:C:H2'	1:AA:178:C:H6	1.77	0.50
1:AA:423:G:C2'	1:AA:424:G:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:452:A:O2'	1:AA:453:A:H8	1.94	0.50
1:AA:1205:U:O2'	3:AC:195:VAL:HG23	2.10	0.50
1:AA:1346:A:H1'	1:AA:1348:U:C5	2.47	0.50
1:AA:1402:C:C5	1:AA:1403:C:C5	2.99	0.50
1:AA:1459:C:H2'	1:AA:1460:A:C8	2.47	0.50
2:AB:207:ALA:O	2:AB:208:ILE:C	2.55	0.50
3:AC:187:ALA:C	3:AC:188:LEU:HD22	2.37	0.50
6:AF:21:LEU:O	6:AF:25:ILE:HG12	2.11	0.50
10:AJ:61:GLU:OE1	14:AN:49:HIS:CE1	2.61	0.50
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.11	0.50
17:AQ:94:ASN:O	17:AQ:96:GLU:N	2.45	0.50
20:AT:23:ARG:HA	20:AT:26:ASN:HD21	1.76	0.50
22:AV:39:C:H2'	22:AV:40:C:H6	1.76	0.50
24:AY:121:VAL:CA	24:AY:124:GLN:NE2	2.75	0.50
24:AY:132:ARG:O	24:AY:256:THR:HG23	2.11	0.50
24:AY:203:GLU:O	24:AY:204:GLU:O	2.28	0.50
25:B0:14:ARG:NH1	35:BA:2279:G:O6	2.45	0.50
27:B2:50:ILE:O	27:B2:52:ASP:N	2.41	0.50
29:B4:12:ALA:HB2	29:B4:29:PRO:HA	1.94	0.50
33:B8:31:HIS:HE1	35:BA:2392:A:OP2	1.94	0.50
35:BA:532:A:H2'	35:BA:532:A:N3	2.26	0.50
35:BA:756:C:C2'	35:BA:757:U:H5'	2.40	0.50
35:BA:1156:A:O2'	35:BA:1157:G:OP1	2.30	0.50
35:BA:1614:A:N1	55:BW:91:GLY:HA2	2.27	0.50
35:BA:2161:C:O2'	35:BA:2162:G:H5'	2.12	0.50
38:BD:14:ARG:HG3	38:BD:15:PHE:N	2.26	0.50
38:BD:270:ILE:O	38:BD:270:ILE:HD12	2.11	0.50
39:BE:69:LYS:HG2	39:BE:90:THR:OG1	2.11	0.50
46:BN:133:GLN:CG	46:BN:134:ARG:N	2.75	0.50
47:BO:32:TYR:CD1	47:BO:32:TYR:N	2.80	0.50
48:BP:7:ARG:HA	48:BP:7:ARG:NH1	2.26	0.50
48:BP:132:LYS:O	48:BP:136:GLU:HG2	2.10	0.50
51:BS:74:ALA:HB2	51:BS:101:LEU:CD2	2.41	0.50
52:BT:27:THR:C	52:BT:28:VAL:HG23	2.34	0.50
54:BV:15:GLU:O	54:BV:16:PRO:C	2.53	0.50
54:BV:99:ILE:HD13	54:BV:99:ILE:H	1.77	0.50
56:BX:57:LEU:N	56:BX:57:LEU:HD13	2.26	0.50
58:BZ:54:HIS:CE1	58:BZ:123:ASP:OD2	2.63	0.50
1:CA:306:G:O2'	1:CA:307:C:H5'	2.12	0.50
1:CA:703:G:O2'	1:CA:704:A:OP2	2.29	0.50
1:CA:1118:C:H42	1:CA:1155:G:H1	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1303:C:N4	1:CA:1304:G:C6	2.80	0.50
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.11	0.50
2:CB:7:VAL:C	2:CB:11:LEU:HG	2.36	0.50
5:CE:8:GLU:CA	5:CE:34:VAL:HG23	2.42	0.50
5:CE:136:MET:O	5:CE:137:GLU:C	2.54	0.50
5:CE:139:LEU:C	5:CE:141:GLN:N	2.70	0.50
5:CE:144:THR:O	5:CE:145:LYS:C	2.55	0.50
6:CF:15:ASP:C	6:CF:17:SER:H	2.18	0.50
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.46	0.50
8:CH:6:ILE:HD12	8:CH:6:ILE:H	1.77	0.50
8:CH:86:ILE:HG13	8:CH:133:LEU:HD22	1.92	0.50
16:CP:60:LEU:HD21	16:CP:66:PRO:HD3	1.92	0.50
21:CU:23:PRO:C	21:CU:25:LYS:N	2.69	0.50
24:CY:38:ARG:O	24:CY:39:ILE:C	2.54	0.50
24:CY:439:ARG:O	24:CY:452:SER:CB	2.60	0.50
35:DA:346:A:H2'	35:DA:346:A:N3	2.25	0.50
35:DA:600:G:H2'	35:DA:601:C:C6	2.47	0.50
35:DA:750:A:H3'	35:DA:751:A:H5''	1.94	0.50
35:DA:945:A:C2	35:DA:2448:A:N1	2.80	0.50
35:DA:1316:U:O2'	35:DA:1317:A:H5'	2.11	0.50
35:DA:1536:C:H2'	35:DA:1537:G:H4'	1.93	0.50
35:DA:1567:A:H5'	38:DD:58:HIS:CD2	2.46	0.50
35:DA:1669:A:H4'	35:DA:2549:G:H4'	1.94	0.50
35:DA:1719:G:H2'	35:DA:1720:U:H5'	1.94	0.50
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.47	0.50
35:DA:2415:G:H2'	35:DA:2416:C:C6	2.47	0.50
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	2.26	0.50
36:DB:81:G:H2'	36:DB:82:G:H5'	1.93	0.50
38:DD:39:LYS:HZ1	38:DD:87:ASN:HB3	1.74	0.50
38:DD:43:ARG:CB	38:DD:54:ARG:HB2	2.39	0.50
41:DG:114:ILE:O	41:DG:114:ILE:HG22	2.12	0.50
48:DP:132:LYS:O	48:DP:136:GLU:HG2	2.11	0.50
49:DQ:110:THR:CG2	49:DQ:113:GLN:HG3	2.42	0.50
56:DX:43:VAL:C	56:DX:45:THR:H	2.19	0.50
56:DX:57:LEU:N	56:DX:57:LEU:HD13	2.27	0.50
58:DZ:154:ASP:N	58:DZ:154:ASP:OD2	2.44	0.50
58:DZ:171:ILE:HG13	58:DZ:172:ALA:H	1.76	0.50
1:AA:6:G:H2'	5:AE:119:LEU:CD1	2.42	0.50
1:AA:404:U:H2'	1:AA:405:U:C6	2.47	0.50
1:AA:895:G:H5''	1:AA:896:C:OP2	2.11	0.50
1:AA:950:U:H2'	1:AA:951:G:C8	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:957:U:H2'	1:AA:959:A:OP2	2.12	0.50
1:AA:1430:C:H6	1:AA:1430:C:O5'	1.95	0.50
2:AB:91:PRO:HG2	2:AB:155:LEU:HD23	1.94	0.50
3:AC:90:GLU:HA	3:AC:93:LYS:CB	2.41	0.50
4:AD:61:LYS:NZ	4:AD:72:GLU:OE2	2.42	0.50
10:AJ:47:PHE:CE2	14:AN:37:PHE:CE2	3.00	0.50
11:AK:34:ASP:C	11:AK:34:ASP:OD2	2.55	0.50
12:AL:115:LYS:O	12:AL:117:ARG:N	2.45	0.50
15:AO:43:LEU:HD12	15:AO:56:LEU:HD22	1.93	0.50
24:AY:388:THR:CG2	24:AY:399:LEU:HD13	2.42	0.50
24:AY:415:PRO:HG3	24:AY:421:GLN:HG2	1.94	0.50
24:AY:481:VAL:HG23	24:AY:483:TYR:CE2	2.47	0.50
24:AY:655:TYR:CZ	24:AY:659:LEU:HD23	2.47	0.50
24:AY:679:VAL:HB	24:AY:683:VAL:HB	1.94	0.50
26:B1:94:LEU:C	26:B1:96:LYS:N	2.69	0.50
27:B2:35:LEU:C	27:B2:35:LEU:HD23	2.37	0.50
35:BA:803:U:H2'	35:BA:804:A:H5'	1.92	0.50
35:BA:1064:C:H4'	44:BK:89:HIS:CD2	2.46	0.50
35:BA:1168:G:H2'	35:BA:1169:G:O4'	2.12	0.50
35:BA:1829:A:N3	38:BD:15:PHE:CZ	2.80	0.50
35:BA:2733:A:O2'	35:BA:2734:A:H5'	2.12	0.50
36:BB:13:A:O2'	36:BB:15:A:H5''	2.11	0.50
37:BC:4:HIS:HB3	37:BC:8:TYR:HD2	1.77	0.50
38:BD:26:LYS:O	38:BD:27:THR:CB	2.60	0.50
39:BE:14:ILE:HG13	39:BE:21:VAL:CG2	2.41	0.50
40:BF:29:ASN:O	40:BF:30:PRO:C	2.55	0.50
40:BF:41:LEU:HD23	40:BF:44:ARG:HE	1.77	0.50
41:BG:61:ALA:HB2	41:BG:68:PRO:HD3	1.94	0.50
42:BH:29:PRO:HD2	42:BH:79:VAL:O	2.12	0.50
46:BN:23:LEU:HB3	46:BN:60:ILE:CG2	2.39	0.50
47:BO:53:LYS:O	47:BO:54:GLU:C	2.54	0.50
49:BQ:17:LEU:O	49:BQ:18:LYS:HD2	2.12	0.50
49:BQ:41:TRP:HE1	49:BQ:96:VAL:HG22	1.76	0.50
49:BQ:110:THR:HG22	49:BQ:113:GLN:OE1	2.11	0.50
53:BU:57:PHE:O	53:BU:58:ARG:C	2.55	0.50
54:BV:5:VAL:HG23	54:BV:37:VAL:HG23	1.93	0.50
58:BZ:67:LEU:HD23	58:BZ:90:VAL:HG11	1.93	0.50
1:CA:429:U:H4'	1:CA:430:A:O5'	2.11	0.50
1:CA:538:G:OP2	12:CL:115:LYS:HG3	2.11	0.50
1:CA:622:A:C8	1:CA:623:C:C5	2.99	0.50
1:CA:1147:C:O2'	9:CI:16:ARG:HD2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1222:G:O2'	1:CA:1223:C:H5'	2.11	0.50
1:CA:1277:C:H3'	1:CA:1277:C:H6	1.77	0.50
2:CB:211:ILE:HG22	2:CB:215:LEU:HD23	1.93	0.50
2:CB:223:ILE:HG23	2:CB:226:ARG:HD2	1.93	0.50
3:CC:54:ARG:HH11	3:CC:54:ARG:HG2	1.76	0.50
4:CD:163:GLU:C	4:CD:165:MET:H	2.20	0.50
14:CN:12:ARG:O	14:CN:14:PRO:CD	2.59	0.50
22:CW:11:A:H61	22:CW:25:U:H3	1.59	0.50
22:CW:53:G:O6	22:CW:63:C:N3	2.45	0.50
24:CY:122:TRP:O	24:CY:125:ALA:N	2.31	0.50
26:D1:23:LYS:HE2	26:D1:28:GLY:CA	2.30	0.50
26:D1:26:ARG:HG3	26:D1:27:GLU:N	2.26	0.50
27:D2:21:LEU:O	27:D2:25:VAL:HG23	2.11	0.50
27:D2:59:ARG:HA	35:DA:76:C:O2'	2.11	0.50
31:D6:16:CYS:O	31:D6:17:LYS:C	2.53	0.50
35:DA:582:G:C6	35:DA:1259:G:N1	2.80	0.50
35:DA:636:G:H2'	48:DP:115:LEU:HD12	1.93	0.50
35:DA:737:C:H2'	35:DA:738:G:H5'	1.93	0.50
35:DA:1043:C:H2'	35:DA:1044:G:C5'	2.19	0.50
35:DA:1240:U:O2'	35:DA:1241:A:H5'	2.10	0.50
35:DA:1344:G:H1	35:DA:1403:C:H42	1.60	0.50
35:DA:1528:A:C2	35:DA:1542:A:H2	2.29	0.50
35:DA:1930:G:N2	35:DA:1968:G:H2'	2.27	0.50
35:DA:2337:G:H2'	35:DA:2338:G:H8	1.77	0.50
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.76	0.50
42:DH:37:VAL:CG1	42:DH:38:SER:N	2.75	0.50
44:DK:95:LYS:HG2	44:DK:137:GLU:OE1	2.11	0.50
46:DN:15:LEU:HD23	46:DN:53:VAL:HB	1.94	0.50
48:DP:101:VAL:HB	48:DP:107:LYS:HA	1.94	0.50
48:DP:127:ALA:C	48:DP:148:LEU:HD11	2.37	0.50
52:DT:56:GLY:O	52:DT:59:THR:HG23	2.11	0.50
53:DU:13:LYS:O	53:DU:16:LYS:HB2	2.12	0.50
56:DX:10:ALA:HB1	56:DX:11:PRO:CD	2.41	0.50
57:DY:10:GLY:C	57:DY:27:VAL:HG22	2.37	0.50
58:DZ:128:VAL:CG2	58:DZ:129:SER:N	2.73	0.50
1:AA:141:A:H1'	1:AA:182:U:C2	2.47	0.50
1:AA:174:C:H2'	1:AA:175:C:H6	1.75	0.50
1:AA:555:C:H2'	1:AA:556:C:C6	2.47	0.50
1:AA:620:C:C2	4:AD:135:LEU:HG	2.47	0.50
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.42	0.50
3:AC:25:GLY:C	3:AC:27:LYS:N	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:83:ARG:C	3:AC:85:ARG:H	2.20	0.50
3:AC:87:LEU:O	3:AC:88:ARG:C	2.55	0.50
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.36	0.50
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.41	0.50
5:AE:142:LEU:O	5:AE:143:ARG:NE	2.42	0.50
6:AF:53:ALA:C	6:AF:55:ASP:H	2.19	0.50
11:AK:58:PRO:O	11:AK:59:TYR:C	2.54	0.50
18:AR:87:ARG:HH11	18:AR:87:ARG:CB	2.25	0.50
19:AS:41:VAL:CG2	19:AS:44:MET:HB2	2.35	0.50
22:AV:20:U:C3'	22:AV:21:A:C5'	2.90	0.50
24:AY:74:TRP:CH2	24:AY:270:GLN:HG2	2.47	0.50
24:AY:177:ILE:HG22	24:AY:178:ILE:H	1.77	0.50
24:AY:181:LEU:HD12	24:AY:242:LEU:HD13	1.94	0.50
24:AY:417:THR:C	24:AY:419:ALA:N	2.70	0.50
24:AY:422:GLU:O	24:AY:423:LYS:C	2.54	0.50
24:AY:628:ARG:HG2	24:AY:628:ARG:HH11	1.77	0.50
26:B1:68:PRO:C	26:B1:70:VAL:N	2.70	0.50
27:B2:3:LEU:HD22	27:B2:7:ARG:HH22	1.76	0.50
29:B4:14:ILE:HG22	29:B4:15:ILE:N	2.27	0.50
35:BA:760:G:C2'	35:BA:761:A:H5'	2.41	0.50
35:BA:781:A:H2'	35:BA:1777:U:O2'	2.11	0.50
35:BA:1142(A):A:C5	35:BA:1144:G:C5	3.00	0.50
35:BA:1623:G:H2'	35:BA:1624:G:H8	1.77	0.50
35:BA:1827:C:H2'	35:BA:1828:G:O4'	2.11	0.50
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.27	0.50
35:BA:2348:U:C2'	35:BA:2349:G:C5'	2.88	0.50
35:BA:2892:A:H62	35:BA:2893:G:H21	1.59	0.50
36:BB:15:A:C3'	36:BB:16:G:H5'	2.42	0.50
37:BC:60:ARG:HG2	37:BC:61:GLY:N	2.26	0.50
39:BE:9:VAL:HG22	39:BE:10:GLY:N	2.26	0.50
39:BE:38:THR:C	39:BE:40:GLU:H	2.20	0.50
40:BF:160:ASN:HD21	40:BF:162:LEU:HD13	1.76	0.50
40:BF:170:LEU:HD22	40:BF:170:LEU:N	2.27	0.50
41:BG:98:ARG:NH1	41:BG:98:ARG:H	2.07	0.50
42:BH:50:VAL:HG12	42:BH:51:ARG:N	2.26	0.50
44:BK:95:LYS:HG2	44:BK:137:GLU:OE1	2.11	0.50
46:BN:2:LYS:O	46:BN:4:TYR:CZ	2.65	0.50
50:BR:59:ASP:O	50:BR:60:LEU:C	2.55	0.50
53:BU:83:LEU:CD1	53:BU:83:LEU:N	2.72	0.50
58:BZ:9:TYR:HB3	58:BZ:35:ARG:HH22	1.77	0.50
1:CA:1122:U:C2'	1:CA:1123:A:H5'	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:128:PHE:O	3:CC:130:VAL:N	2.45	0.50
4:CD:101:LEU:HD23	4:CD:121:VAL:HG13	1.94	0.50
6:CF:67:MET:HB2	6:CF:68:PRO:CD	2.37	0.50
9:CI:5:TYR:HD2	9:CI:17:VAL:O	1.94	0.50
9:CI:93:ARG:HA	9:CI:96:LEU:HB2	1.94	0.50
13:CM:54:VAL:O	13:CM:56:LEU:N	2.45	0.50
24:CY:120:THR:O	24:CY:124:GLN:CD	2.55	0.50
28:D3:54:VAL:HG12	28:D3:55:ARG:N	2.27	0.50
30:D5:48:GLU:O	30:D5:49:CYS:HB3	2.12	0.50
31:D6:27:LYS:HB3	31:D6:32:ASN:HD22	1.75	0.50
31:D6:47:THR:CG2	31:D6:48:VAL:H	2.19	0.50
35:DA:71:A:H4'	35:DA:72:U:H5''	1.93	0.50
35:DA:274:G:N3	35:DA:274:G:C2'	2.74	0.50
35:DA:664:C:O2'	35:DA:665:C:H5'	2.10	0.50
35:DA:811:U:H3'	35:DA:812:C:C5'	2.41	0.50
35:DA:827:U:H2'	35:DA:2068:U:O2	2.12	0.50
35:DA:852:G:H2'	35:DA:853:G:C8	2.46	0.50
35:DA:1317:A:H2'	35:DA:1318:C:C6	2.47	0.50
35:DA:1437:C:H2'	35:DA:1438:U:C6	2.46	0.50
35:DA:1784:A:H4'	35:DA:1785:A:O5'	2.10	0.50
35:DA:1998:G:O2'	35:DA:1999:C:H5'	2.12	0.50
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.47	0.50
35:DA:2705:A:H2'	35:DA:2706:G:O4'	2.12	0.50
38:DD:24:ILE:CG1	38:DD:25:THR:N	2.75	0.50
39:DE:69:LYS:HG2	39:DE:90:THR:OG1	2.12	0.50
40:DF:100:THR:HG22	40:DF:100:THR:O	2.12	0.50
41:DG:88:ILE:HG23	41:DG:89:GLY:N	2.27	0.50
42:DH:149:ARG:HA	42:DH:162:ILE:HG13	1.92	0.50
46:DN:2:LYS:O	46:DN:4:TYR:CZ	2.64	0.50
48:DP:89:ALA:HA	48:DP:121:LYS:HD3	1.93	0.50
48:DP:112:LEU:N	48:DP:128:HIS:HD2	2.09	0.50
49:DQ:109:VAL:HG12	49:DQ:113:GLN:HB2	1.94	0.50
50:DR:10:LEU:CD2	50:DR:17:ARG:HD3	2.42	0.50
50:DR:26:LYS:CE	50:DR:71:GLN:H	2.25	0.50
50:DR:100:LEU:N	50:DR:100:LEU:HD13	2.26	0.50
53:DU:47:TYR:CA	53:DU:50:ARG:NH2	2.73	0.50
53:DU:57:PHE:O	53:DU:58:ARG:C	2.53	0.50
56:DX:35:THR:HG22	56:DX:36:LYS:N	2.27	0.50
58:DZ:35:ARG:HH11	58:DZ:35:ARG:CG	2.25	0.50
1:AA:375:U:C2	1:AA:376:G:C8	2.99	0.50
1:AA:489:C:H2'	1:AA:490:G:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:505:G:H5'	1:AA:534:U:H2'	1.94	0.50
1:AA:940:C:O2'	1:AA:941:G:H5'	2.12	0.50
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.47	0.50
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.11	0.50
2:AB:51:LEU:CD2	2:AB:55:PHE:HE2	2.24	0.50
3:AC:94:LEU:O	3:AC:94:LEU:HD12	2.11	0.50
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.70	0.50
19:AS:41:VAL:C	19:AS:43:GLU:N	2.68	0.50
22:AW:20:G:C5	35:BA:2169:A:H2	2.29	0.50
24:AY:115:GLU:O	24:AY:115:GLU:HG3	2.12	0.50
26:B1:64:ALA:C	26:B1:66:HIS:N	2.70	0.50
26:B1:76:ARG:CZ	26:B1:95:LEU:HD22	2.41	0.50
31:B6:15:GLU:CD	31:B6:44:ARG:HH22	2.18	0.50
35:BA:259:G:N2	35:BA:621:A:H8	2.09	0.50
35:BA:483:A:N3	35:BA:483:A:H2'	2.26	0.50
35:BA:568:U:O2'	35:BA:570:G:N7	2.40	0.50
35:BA:1052:C:O2'	35:BA:1053:C:O5'	2.30	0.50
35:BA:1071:G:N2	35:BA:1090:U:C5	2.80	0.50
35:BA:1186:G:C2'	35:BA:1187:G:H5'	2.42	0.50
35:BA:2019:A:O4'	53:BU:34:LYS:HD2	2.12	0.50
35:BA:2307:G:H21	35:BA:2308:G:C5'	2.25	0.50
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.46	0.50
38:BD:78:LYS:HG2	38:BD:79:VAL:N	2.27	0.50
39:BE:145:LYS:O	39:BE:146:THR:C	2.54	0.50
40:BF:42:ALA:O	40:BF:45:ARG:HG3	2.12	0.50
40:BF:180:GLY:O	40:BF:182:ASN:N	2.45	0.50
41:BG:58:GLN:C	41:BG:60:LEU:N	2.69	0.50
44:BK:13:PRO:HA	44:BK:52:ILE:HA	1.94	0.50
44:BK:100:THR:OG1	44:BK:103:GLN:HG3	2.12	0.50
46:BN:135:PRO:O	46:BN:136:GLU:C	2.55	0.50
47:BO:64:ARG:NH1	47:BO:83:ALA:HB2	2.27	0.50
48:BP:101:VAL:HB	48:BP:107:LYS:HA	1.93	0.50
50:BR:7:GLY:HA3	50:BR:8:ARG:NH2	2.27	0.50
51:BS:17:ARG:HA	51:BS:20:ARG:NH1	2.27	0.50
54:BV:46:VAL:HG13	54:BV:47:VAL:N	2.27	0.50
55:BW:14:PRO:HG2	55:BW:78:GLU:HB2	1.94	0.50
1:CA:238:G:C6	1:CA:239:U:C4	3.00	0.50
1:CA:509:A:H5'	1:CA:510:A:P	2.50	0.50
1:CA:1125:U:H2'	1:CA:1126:U:H2'	1.94	0.50
1:CA:1205:U:O2'	3:CC:195:VAL:HG23	2.12	0.50
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1490:C:H2'	1:CA:1491:G:C5'	2.41	0.50
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.59	0.50
5:CE:12:LEU:HD13	5:CE:12:LEU:O	2.12	0.50
5:CE:72:GLN:O	5:CE:73:ASN:HB2	2.11	0.50
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.94	0.50
10:CJ:50:ILE:HD13	10:CJ:50:ILE:N	2.16	0.50
12:CL:79:GLU:HB2	24:CY:442:THR:CG2	2.35	0.50
18:CR:30:ASP:C	18:CR:32:ARG:H	2.19	0.50
20:CT:26:ASN:ND2	20:CT:26:ASN:N	2.59	0.50
24:CY:65:ILE:HD13	24:CY:65:ILE:H	1.77	0.50
24:CY:119:GLU:O	24:CY:121:VAL:N	2.43	0.50
24:CY:137:ASN:ND2	24:CY:263:ALA:H	2.10	0.50
24:CY:182:ARG:C	24:CY:184:LYS:N	2.70	0.50
24:CY:264:LEU:HD22	24:CY:265:LYS:HZ3	1.77	0.50
24:CY:441:SER:O	24:CY:449:THR:HG23	2.12	0.50
29:D4:14:ILE:HD13	29:D4:22:ILE:C	2.36	0.50
29:D4:25:TYR:O	41:DG:105:LYS:NZ	2.45	0.50
30:D5:16:ARG:HD2	30:D5:20:ARG:HH12	1.77	0.50
30:D5:58:LEU:HD22	30:D5:58:LEU:C	2.37	0.50
31:D6:29:ASN:CG	31:D6:30:THR:N	2.70	0.50
35:DA:74:A:O2'	35:DA:75:G:OP2	2.28	0.50
35:DA:999:U:H5''	35:DA:1154:G:O6	2.12	0.50
35:DA:1142(A):A:C5	35:DA:1144:G:C5	3.00	0.50
35:DA:1145:C:H2'	35:DA:1146:C:H6	1.77	0.50
35:DA:1491:G:O2'	38:DD:101:GLU:HB2	2.12	0.50
35:DA:1623:G:H2'	35:DA:1624:G:H8	1.77	0.50
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.77	0.50
35:DA:1972:A:H2'	35:DA:1973:G:C8	2.46	0.50
35:DA:2453:A:H2'	35:DA:2454:G:C8	2.46	0.50
35:DA:2521:C:N4	35:DA:2544:G:H1	2.07	0.50
37:DC:4:HIS:HB3	37:DC:8:TYR:HD2	1.77	0.50
38:DD:176:ARG:HH11	38:DD:176:ARG:CG	2.24	0.50
38:DD:210:GLY:O	38:DD:211:ARG:CB	2.60	0.50
39:DE:9:VAL:HG22	39:DE:10:GLY:N	2.25	0.50
39:DE:32:PRO:N	39:DE:90:THR:HG23	2.27	0.50
39:DE:50:GLY:CA	39:DE:78:LEU:HB3	2.40	0.50
39:DE:81:ILE:O	39:DE:81:ILE:CG2	2.59	0.50
41:DG:77:ILE:CG2	41:DG:80:PHE:N	2.74	0.50
41:DG:123:ASN:C	41:DG:125:PHE:N	2.64	0.50
42:DH:53:GLU:CD	42:DH:54:ARG:H	2.19	0.50
49:DQ:62:GLY:HA2	58:DZ:116:VAL:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:112:ARG:HH11	53:DU:112:ARG:CG	2.25	0.50
58:DZ:70:LEU:HG	58:DZ:91:LEU:CD1	2.42	0.50
58:DZ:102:LEU:HD11	58:DZ:124:ILE:HG21	1.93	0.50
58:DZ:142:SER:N	58:DZ:144:LEU:HD23	2.26	0.50
58:DZ:152:ALA:HB3	58:DZ:154:ASP:OD2	2.12	0.50
1:AA:193:C:H2'	1:AA:194:C:C6	2.47	0.49
1:AA:376:G:OP2	16:AP:67:THR:HG21	2.12	0.49
1:AA:429:U:H4'	1:AA:430:A:O5'	2.11	0.49
1:AA:737:A:H2'	1:AA:738:C:H6	1.74	0.49
1:AA:1346:A:N6	1:AA:1375:A:OP2	2.41	0.49
2:AB:8:LYS:O	2:AB:9:GLU:C	2.54	0.49
3:AC:5:ILE:CD1	3:AC:5:ILE:H	2.25	0.49
5:AE:12:LEU:HD13	5:AE:12:LEU:O	2.12	0.49
9:AI:40:LEU:O	9:AI:42:ARG:N	2.41	0.49
12:AL:47:LYS:CB	12:AL:48:PRO:CD	2.89	0.49
12:AL:92:ASP:O	12:AL:94:PRO:HD3	2.12	0.49
13:AM:78:ILE:CA	13:AM:81:LEU:HD23	2.40	0.49
22:AV:28:C:H2'	22:AV:29:G:C8	2.47	0.49
24:AY:92:ILE:CG2	24:AY:93:GLU:N	2.74	0.49
24:AY:223:PHE:CE2	24:AY:249:GLY:HA3	2.47	0.49
24:AY:337:SER:HA	24:AY:355:LEU:CD2	2.42	0.49
24:AY:525:PHE:CD1	24:AY:525:PHE:N	2.80	0.49
27:B2:2:LYS:HB3	35:BA:97:C:H5''	1.94	0.49
27:B2:47:ASN:HD22	35:BA:94(A):G:H21	1.59	0.49
30:B5:42:PRO:HB2	30:B5:43:HIS:CD2	2.47	0.49
31:B6:28:ARG:O	31:B6:32:ASN:HB2	2.11	0.49
31:B6:43:CYS:O	31:B6:44:ARG:NE	2.45	0.49
35:BA:302:C:H2'	35:BA:303:U:H6	1.77	0.49
35:BA:342:G:O2'	35:BA:343:C:H5'	2.12	0.49
35:BA:802:A:H2'	35:BA:803:U:C6	2.47	0.49
35:BA:1336:A:OP2	56:BX:64:LYS:HE3	2.11	0.49
35:BA:1558:A:O2'	35:BA:1559:G:OP2	2.29	0.49
35:BA:1567:A:C5'	38:BD:58:HIS:CD2	2.95	0.49
35:BA:1668:A:H61	35:BA:1676:A:H61	1.59	0.49
35:BA:2028:U:H2'	35:BA:2029:G:C8	2.47	0.49
35:BA:2062:A:O4'	35:BA:2062:A:N3	2.45	0.49
35:BA:2502:G:H5''	35:BA:2503:A:C5'	2.37	0.49
37:BC:135:ARG:HD2	37:BC:135:ARG:N	2.27	0.49
38:BD:73:VAL:O	38:BD:75:ILE:HG12	2.11	0.49
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.93	0.49
39:BE:36:ARG:NH2	39:BE:88:GLY:CA	2.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BJ:26:UNK:CB	43:BJ:84:UNK:HA	2.41	0.49
48:BP:16:ARG:HD3	48:BP:18:ARG:N	2.11	0.49
49:BQ:67:ARG:HD2	49:BQ:105:GLU:OE1	2.12	0.49
53:BU:92:ARG:CD	53:BU:94:ASN:HB3	2.41	0.49
54:BV:2:PHE:O	54:BV:14:VAL:O	2.30	0.49
1:CA:66:G:C4'	1:CA:173:U:C5	2.95	0.49
1:CA:318:G:H2'	1:CA:319:G:H8	1.76	0.49
1:CA:719:C:O2'	18:CR:49:LYS:HB3	2.12	0.49
1:CA:1377:A:H2'	7:CG:7:ALA:HB2	1.94	0.49
4:CD:170:VAL:O	4:CD:171:GLY:O	2.30	0.49
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.94	0.49
9:CI:83:ARG:O	9:CI:86:VAL:HG12	2.12	0.49
14:CN:44:LEU:HD12	14:CN:44:LEU:C	2.37	0.49
22:CV:19:G:H3'	22:CV:20:U:O2	2.12	0.49
22:CV:23:C:H2'	22:CV:24:U:C6	2.46	0.49
24:CY:678:GLU:CG	24:CY:679:VAL:N	2.74	0.49
31:D6:11:LEU:HD22	31:D6:11:LEU:C	2.37	0.49
31:D6:30:THR:O	31:D6:31:PRO:C	2.55	0.49
32:D7:46:VAL:CG1	32:D7:47:ARG:N	2.73	0.49
35:DA:667:U:H2'	35:DA:668:G:O4'	2.12	0.49
35:DA:917:A:H2'	35:DA:918:A:O4'	2.12	0.49
35:DA:1264:G:O3'	35:DA:2615:U:H5'	2.12	0.49
35:DA:1542:A:H3'	35:DA:1542:A:C8	2.47	0.49
35:DA:1899:G:O2'	35:DA:1900:A:H5''	2.12	0.49
35:DA:2543:G:H8	35:DA:2543:G:H5'	1.77	0.49
36:DB:20:C:C2'	36:DB:21:G:H5''	2.42	0.49
36:DB:87:G:H2'	36:DB:88:C:H5''	1.94	0.49
37:DC:79:ALA:O	37:DC:120:VAL:HG11	2.12	0.49
37:DC:84:ILE:HG12	37:DC:96:GLY:O	2.11	0.49
38:DD:77:ALA:HB2	38:DD:97:TYR:HA	1.93	0.49
39:DE:93:VAL:C	39:DE:95:ILE:H	2.20	0.49
40:DF:192:LEU:CD2	40:DF:194:MET:HG3	2.26	0.49
42:DH:46:GLU:HG3	42:DH:51:ARG:H	1.77	0.49
42:DH:103:LEU:HB2	42:DH:123:PHE:HD2	1.77	0.49
44:DK:13:PRO:HA	44:DK:52:ILE:HA	1.94	0.49
48:DP:16:ARG:CZ	48:DP:18:ARG:HB2	2.42	0.49
48:DP:140:ALA:O	48:DP:141:ALA:HB3	2.12	0.49
51:DS:56:LEU:C	51:DS:58:LEU:H	2.19	0.49
55:DW:59:VAL:HG21	55:DW:66:GLU:HB2	1.93	0.49
58:DZ:102:LEU:HD11	58:DZ:124:ILE:CG2	2.41	0.49
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:137:ARG:HH11	2:AB:137:ARG:HG2	1.77	0.49
3:AC:51:GLY:O	3:AC:115:LEU:HD21	2.11	0.49
4:AD:58:LEU:HD23	4:AD:58:LEU:O	2.12	0.49
6:AF:22:GLU:HA	6:AF:22:GLU:OE2	2.12	0.49
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	2.42	0.49
9:AI:11:LYS:HG2	9:AI:11:LYS:O	2.11	0.49
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.92	0.49
14:AN:41:ARG:HG2	14:AN:41:ARG:NH1	2.19	0.49
19:AS:72:GLY:C	19:AS:74:PHE:N	2.70	0.49
24:AY:121:VAL:CA	24:AY:124:GLN:HE22	2.25	0.49
24:AY:368:GLU:C	24:AY:369:LEU:HD12	2.36	0.49
24:AY:616:TYR:CE2	24:AY:664:GLN:HG3	2.47	0.49
30:B5:55:ARG:NH1	50:BR:33:ARG:HD2	2.26	0.49
31:B6:30:THR:O	31:B6:31:PRO:C	2.55	0.49
32:B7:8:ASN:HD22	32:B7:8:ASN:C	2.18	0.49
33:B8:36:LYS:O	33:B8:37:SER:C	2.55	0.49
35:BA:350:U:H2'	35:BA:351:G:O4'	2.12	0.49
35:BA:654(P):C:H2'	35:BA:654(Q):C:O4'	2.12	0.49
35:BA:948:G:H1	35:BA:969:U:H3	1.60	0.49
35:BA:1666:G:C2'	35:BA:1667:G:H5'	2.41	0.49
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.77	0.49
35:BA:2051:A:H2'	35:BA:2578:G:O5'	2.12	0.49
35:BA:2056:G:N2	35:BA:2057:A:N9	2.60	0.49
36:BB:20:C:C2'	36:BB:21:G:H5''	2.41	0.49
36:BB:85:G:O2'	36:BB:86:G:H5'	2.11	0.49
36:BB:87:G:H2'	36:BB:88:C:H5''	1.94	0.49
37:BC:153:ILE:O	37:BC:157:ILE:HG13	2.12	0.49
38:BD:35:LYS:NZ	38:BD:35:LYS:HB3	2.27	0.49
42:BH:40:GLU:HG3	42:BH:64:LEU:HD13	1.94	0.49
43:BJ:69:UNK:O	43:BJ:71:UNK:N	2.45	0.49
46:BN:132:ALA:O	46:BN:133:GLN:CB	2.60	0.49
51:BS:35:ILE:CD1	51:BS:99:LYS:HE3	2.42	0.49
53:BU:64:ARG:O	53:BU:65:ILE:C	2.55	0.49
57:BY:12:THR:HG23	57:BY:25:GLY:O	2.12	0.49
57:BY:52:SER:N	57:BY:53:PRO:CD	2.75	0.49
57:BY:76:CYS:SG	57:BY:77:PRO:CD	2.86	0.49
58:BZ:151:HIS:HA	58:BZ:171:ILE:CG2	2.26	0.49
1:CA:159:G:H2'	1:CA:160:A:H5''	1.93	0.49
1:CA:665:A:H2'	1:CA:725:G:N2	2.27	0.49
1:CA:1081:G:O2'	1:CA:1082:G:H5'	2.12	0.49
2:CB:17:PHE:CD2	2:CB:18:GLY:N	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:119:GLU:C	2:CB:121:LEU:H	2.20	0.49
4:CD:158:ILE:CG2	4:CD:162:LEU:HD12	2.43	0.49
8:CH:1:MET:HE2	8:CH:1:MET:H3	1.77	0.49
8:CH:17:THR:CG2	8:CH:63:LEU:HD12	2.42	0.49
8:CH:34:GLU:O	8:CH:35:ILE:C	2.54	0.49
12:CL:70:ILE:HD12	12:CL:75:HIS:NE2	2.27	0.49
12:CL:75:HIS:CD2	12:CL:77:LEU:HD12	2.43	0.49
14:CN:41:ARG:HG2	14:CN:41:ARG:NH1	2.24	0.49
20:CT:23:ARG:HA	20:CT:26:ASN:HD21	1.77	0.49
24:CY:282:SER:C	24:CY:284:LEU:N	2.70	0.49
24:CY:329:ARG:HG2	24:CY:331:TYR:OH	2.12	0.49
24:CY:528:ALA:O	24:CY:568:TYR:HA	2.12	0.49
24:CY:601:ILE:O	24:CY:678:GLU:HA	2.12	0.49
25:D0:70:GLN:NE2	25:D0:80:HIS:NE2	2.60	0.49
30:D5:36:CYS:SG	30:D5:36:CYS:O	2.69	0.49
31:D6:10:LEU:HB3	33:D8:34:TRP:CD1	2.47	0.49
32:D7:27:GLY:HA2	32:D7:30:VAL:HG23	1.94	0.49
35:DA:52:A:C2'	35:DA:53:A:H5'	2.42	0.49
35:DA:528:A:C2	35:DA:2043:C:H5'	2.47	0.49
35:DA:2115:G:H3'	35:DA:2116:G:C5'	2.42	0.49
35:DA:2206:G:H3'	35:DA:2206:G:N3	2.27	0.49
35:DA:2313:C:H5'	35:DA:2313:C:C6	2.39	0.49
35:DA:2712:U:C2'	35:DA:2712(A):A:O5'	2.60	0.49
38:DD:62:TYR:CE1	38:DD:64:ILE:HA	2.47	0.49
39:DE:116:VAL:HG22	39:DE:122:PHE:CG	2.47	0.49
41:DG:125:PHE:CZ	41:DG:170:ARG:HA	2.47	0.49
42:DH:118:PRO:CG	42:DH:121:ILE:HD12	2.38	0.49
44:DK:100:THR:OG1	44:DK:103:GLN:HG3	2.11	0.49
47:DO:63:VAL:HG23	47:DO:64:ARG:HG3	1.93	0.49
54:DV:5:VAL:HG23	54:DV:37:VAL:O	2.11	0.49
54:DV:99:ILE:HD13	54:DV:99:ILE:H	1.77	0.49
55:DW:40:ASN:O	55:DW:41:LYS:HG2	2.12	0.49
55:DW:41:LYS:C	55:DW:43:GLY:N	2.69	0.49
55:DW:88:ARG:CB	55:DW:92:ARG:HB3	2.42	0.49
56:DX:14:SER:H	56:DX:17:ALA:HB3	1.76	0.49
58:DZ:43:GLU:O	58:DZ:47:VAL:N	2.45	0.49
58:DZ:82:ARG:O	58:DZ:83:PRO:C	2.54	0.49
1:AA:636:U:H2'	1:AA:637:G:C8	2.47	0.49
1:AA:719:C:C2	18:AR:50:ILE:HG12	2.47	0.49
1:AA:972:C:H4'	10:AJ:57:LYS:CB	2.42	0.49
1:AA:1094:G:O2'	1:AA:1095:U:OP2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1144:G:N2	1:AA:1146:A:H62	2.10	0.49
2:AB:163:PHE:CD2	2:AB:185:ILE:HG13	2.47	0.49
2:AB:215:LEU:O	2:AB:218:ALA:HB3	2.12	0.49
3:AC:54:ARG:HH11	3:AC:54:ARG:HG2	1.77	0.49
3:AC:179:ARG:NH2	3:AC:206:GLU:OE2	2.45	0.49
10:AJ:69:ASN:O	10:AJ:70:ARG:HG3	2.12	0.49
16:AP:9:PHE:HE2	16:AP:18:ARG:HD2	1.76	0.49
18:AR:30:ASP:C	18:AR:32:ARG:H	2.19	0.49
18:AR:87:ARG:NH1	18:AR:87:ARG:CB	2.74	0.49
19:AS:50:ALA:O	19:AS:51:VAL:C	2.56	0.49
22:AW:5:G:C6	22:AW:70:C:N4	2.77	0.49
24:AY:210:ARG:O	24:AY:214:GLU:HG2	2.12	0.49
24:AY:681:LYS:HD2	24:AY:682:GLN:N	2.27	0.49
26:B1:82:LEU:C	26:B1:83:GLU:HG3	2.37	0.49
27:B2:61:LEU:HA	27:B2:64:LEU:HB3	1.94	0.49
28:B3:44:ARG:O	28:B3:45:GLY:C	2.54	0.49
35:BA:86:C:H4'	35:BA:104:U:H1'	1.93	0.49
35:BA:123:G:O2'	35:BA:124:G:H5'	2.12	0.49
35:BA:753:C:H2'	35:BA:754:C:H6	1.77	0.49
35:BA:811:U:H3'	35:BA:812:C:C5'	2.42	0.49
35:BA:1248:G:N3	53:BU:3:ARG:HD2	2.26	0.49
35:BA:1750:G:O2'	35:BA:1751:C:H5'	2.11	0.49
37:BC:34:ALA:CB	37:BC:179:ALA:HB2	2.43	0.49
37:BC:34:ALA:HA	37:BC:40:GLU:OE2	2.12	0.49
37:BC:120:VAL:O	37:BC:124:VAL:HG23	2.12	0.49
38:BD:48:ARG:HG3	38:BD:48:ARG:HH11	1.76	0.49
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.38	0.49
41:BG:7:LEU:HB3	41:BG:100:TRP:HE3	1.76	0.49
42:BH:61:HIS:O	42:BH:62:LYS:C	2.55	0.49
45:BL:70:UNK:HA	45:BL:73:UNK:CB	2.43	0.49
46:BN:65:LYS:NZ	46:BN:65:LYS:CB	2.76	0.49
49:BQ:108:GLY:C	49:BQ:109:VAL:HG23	2.37	0.49
49:BQ:109:VAL:HG12	49:BQ:110:THR:N	2.25	0.49
50:BR:45:ARG:HG3	50:BR:46:GLY:N	2.12	0.49
50:BR:53:HIS:ND1	50:BR:53:HIS:O	2.43	0.49
51:BS:49:VAL:HG22	51:BS:80:LEU:HD12	1.95	0.49
51:BS:74:ALA:HB3	51:BS:103:GLU:HG3	1.95	0.49
53:BU:47:TYR:CA	53:BU:50:ARG:NH2	2.74	0.49
57:BY:84:ARG:HB2	57:BY:97:ARG:HB2	1.92	0.49
58:BZ:79:ARG:O	58:BZ:79:ARG:HG3	2.12	0.49
1:CA:177:C:C2	1:CA:178:C:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:509:A:H2	1:CA:543:C:H1'	1.76	0.49
1:CA:1404:C:H1'	1:CA:1499:A:N1	2.26	0.49
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.12	0.49
4:CD:57:ARG:NH1	4:CD:205:GLU:OE2	2.45	0.49
11:CK:33:THR:HB	11:CK:38:ASN:C	2.37	0.49
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.44	0.49
19:CS:42:PRO:C	19:CS:43:GLU:HG3	2.37	0.49
20:CT:16:HIS:O	20:CT:17:ARG:C	2.55	0.49
22:CV:76:A:OP1	22:CV:76:A:H4'	2.12	0.49
24:CY:32:ILE:HG23	24:CY:273:LEU:HD21	1.94	0.49
24:CY:227:ILE:HG23	24:CY:237:PRO:CG	2.37	0.49
24:CY:336:THR:HG22	24:CY:337:SER:N	2.27	0.49
24:CY:506:GLN:OE1	24:CY:506:GLN:HA	2.11	0.49
24:CY:510:VAL:HA	24:CY:570:GLY:HA3	1.94	0.49
26:D1:90:ILE:HG22	26:D1:94:LEU:CD1	2.42	0.49
28:D3:46:ASN:O	28:D3:47:VAL:C	2.54	0.49
31:D6:15:GLU:O	31:D6:16:CYS:O	2.30	0.49
31:D6:54:ILE:HD13	35:DA:2420:C:C5'	2.42	0.49
35:DA:1556:C:H2'	35:DA:1557:C:C6	2.47	0.49
35:DA:1827:C:H2'	35:DA:1828:G:O4'	2.12	0.49
35:DA:2019:A:O3'	53:DU:27:LEU:HD12	2.12	0.49
35:DA:2308:G:N2	41:DG:79:ASN:CB	2.74	0.49
35:DA:2454:G:H2'	35:DA:2455:G:H5'	1.94	0.49
38:DD:26:LYS:O	38:DD:27:THR:CB	2.61	0.49
39:DE:59:VAL:HG21	39:DE:63:LEU:HA	1.93	0.49
39:DE:87:GLU:O	39:DE:88:GLY:C	2.55	0.49
40:DF:83:PHE:O	40:DF:84:VAL:C	2.53	0.49
40:DF:168:ARG:HG3	40:DF:175:THR:HB	1.93	0.49
41:DG:39:ILE:CG1	41:DG:92:VAL:HG23	2.42	0.49
41:DG:57:ALA:O	41:DG:60:LEU:HB3	2.11	0.49
44:DK:93:ARG:HB2	58:DZ:112:ARG:HH21	1.76	0.49
46:DN:57:ALA:O	46:DN:58:ASP:C	2.53	0.49
48:DP:144:GLU:HG2	48:DP:144:GLU:O	2.12	0.49
50:DR:18:LEU:HD23	50:DR:19:ALA:N	2.27	0.49
50:DR:59:ASP:O	50:DR:60:LEU:C	2.56	0.49
52:DT:55:ASN:CG	52:DT:55:ASN:O	2.54	0.49
52:DT:66:VAL:HA	52:DT:71:GLY:HA2	1.94	0.49
53:DU:113:ALA:C	53:DU:115:ALA:N	2.62	0.49
57:DY:47:LYS:O	57:DY:48:ALA:O	2.30	0.49
1:AA:159:G:C2'	1:AA:160:A:H5''	2.42	0.49
1:AA:189(D):C:H2'	1:AA:189(E):U:O4'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:308:C:H2'	1:AA:309:G:H8	1.78	0.49
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.12	0.49
1:AA:1133:G:C4	1:AA:1142:G:N2	2.80	0.49
3:AC:140:ARG:HG3	3:AC:140:ARG:HH11	1.76	0.49
5:AE:28:PHE:CD2	5:AE:51:VAL:HG22	2.48	0.49
5:AE:127:ASN:O	5:AE:131:ILE:HG12	2.12	0.49
7:AG:82:GLY:HA3	23:AX:13:A:C2	2.47	0.49
8:AH:104:ARG:O	8:AH:107:LEU:N	2.46	0.49
15:AO:33:THR:HG23	15:AO:63:ARG:HH12	1.78	0.49
16:AP:7:ALA:O	16:AP:17:TYR:HA	2.11	0.49
24:AY:8:ASP:O	24:AY:10:LYS:N	2.44	0.49
24:AY:16:GLY:N	24:AY:101:LEU:HD13	2.27	0.49
24:AY:124:GLN:C	24:AY:127:LYS:HB3	2.37	0.49
24:AY:340:TYR:CE2	24:AY:351:ARG:HD3	2.47	0.49
25:B0:45:PHE:O	25:B0:59:LEU:HD11	2.12	0.49
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.89	0.49
35:BA:363(A):A:H2'	35:BA:363(B):G:C8	2.46	0.49
35:BA:614(A):U:O2'	35:BA:614(B):G:H5'	2.12	0.49
35:BA:796:C:H2'	35:BA:797:C:H6	1.75	0.49
35:BA:876:C:H2'	35:BA:877:U:O4'	2.12	0.49
35:BA:1248:G:C4	53:BU:3:ARG:HD2	2.47	0.49
35:BA:1536:C:H2'	35:BA:1537:G:H4'	1.94	0.49
35:BA:1669:A:H4'	35:BA:2549:G:H4'	1.94	0.49
35:BA:1719:G:C2'	35:BA:1720:U:H5'	2.41	0.49
35:BA:2050:C:H1'	39:BE:156:MET:CE	2.43	0.49
35:BA:2470:G:P	49:BQ:56:ARG:NH1	2.82	0.49
35:BA:2653:U:O2'	42:BH:110:SER:HB3	2.12	0.49
35:BA:2787:C:O2	39:BE:61:ARG:HD3	2.12	0.49
37:BC:30:VAL:O	37:BC:33:LEU:N	2.45	0.49
37:BC:148:PHE:C	37:BC:150:ILE:H	2.21	0.49
39:BE:69:LYS:O	39:BE:71:GLY:N	2.45	0.49
46:BN:102:ALA:O	46:BN:106:MET:CE	2.58	0.49
48:BP:147:LEU:O	48:BP:148:LEU:HB2	2.12	0.49
52:BT:82:LEU:HD23	52:BT:85:LYS:HD2	1.92	0.49
56:BX:34:ALA:HA	56:BX:38:GLU:OE2	2.13	0.49
57:BY:10:GLY:C	57:BY:27:VAL:HG22	2.37	0.49
1:CA:174:C:H2'	1:CA:175:C:H6	1.77	0.49
1:CA:311:C:HO2'	1:CA:312:C:H5'	1.77	0.49
1:CA:460:G:O6	1:CA:470:C:H4'	2.11	0.49
1:CA:936:C:H2'	1:CA:937:A:O4'	2.12	0.49
1:CA:1225:A:H3'	1:CA:1226:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:82:ARG:HH11	2:CB:82:ARG:HG3	1.77	0.49
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.12	0.49
3:CC:123:GLN:HB3	3:CC:128:PHE:CD2	2.45	0.49
4:CD:62:GLN:O	4:CD:66:ARG:HB2	2.12	0.49
4:CD:199:ASN:OD1	4:CD:201:GLN:HB2	2.13	0.49
13:CM:91:ARG:HH21	19:CS:81:ARG:NH2	2.10	0.49
15:CO:31:LEU:CD2	15:CO:31:LEU:N	2.76	0.49
15:CO:50:HIS:O	15:CO:53:HIS:HB3	2.12	0.49
18:CR:40:LEU:C	18:CR:42:ARG:N	2.67	0.49
18:CR:87:ARG:NH1	18:CR:87:ARG:CB	2.76	0.49
21:CU:10:ARG:O	21:CU:13:ILE:N	2.45	0.49
22:CV:2:G:H5'	25:D0:8:GLY:HA2	1.95	0.49
22:CV:59:A:C2'	22:CV:60:U:H5'	2.41	0.49
24:CY:138:LYS:HE2	62:CY:703:GDP:N9	2.27	0.49
24:CY:182:ARG:C	24:CY:184:LYS:H	2.21	0.49
24:CY:293:THR:C	24:CY:295:GLU:N	2.67	0.49
24:CY:439:ARG:HB2	24:CY:452:SER:CB	2.43	0.49
24:CY:491:VAL:HG21	24:CY:597:GLY:CA	2.42	0.49
25:D0:20:ARG:HH11	25:D0:20:ARG:HG2	1.77	0.49
26:D1:61:ARG:HH11	26:D1:61:ARG:CB	2.23	0.49
27:D2:65:ASN:HD21	35:DA:112:U:H5'	1.76	0.49
33:D8:31:HIS:HE1	35:DA:2392:A:OP2	1.94	0.49
35:DA:244:A:H1'	35:DA:255:A:N6	2.28	0.49
35:DA:478:A:C6	35:DA:480:A:C6	3.01	0.49
35:DA:515:A:C2	35:DA:1261:C:H1'	2.48	0.49
35:DA:545:C:H2'	35:DA:547:A:C5'	2.32	0.49
35:DA:650:C:C2'	35:DA:651:G:H5''	2.42	0.49
35:DA:654(O):G:H2'	35:DA:654(P):C:C6	2.48	0.49
35:DA:769:G:H2'	35:DA:770:G:H8	1.77	0.49
35:DA:769:G:H4'	35:DA:1379:A:N1	2.27	0.49
35:DA:1368:G:O2'	35:DA:1369:G:H5'	2.13	0.49
35:DA:2075:U:C2'	35:DA:2076:U:H5''	2.42	0.49
35:DA:2564:A:OP1	35:DA:2648:C:H4'	2.12	0.49
35:DA:2653:U:O2'	42:DH:110:SER:HB3	2.12	0.49
35:DA:2875:C:O2'	52:DT:5:ALA:HB3	2.12	0.49
38:DD:108:PRO:HG2	38:DD:111:LEU:HB2	1.93	0.49
38:DD:142:VAL:HG23	38:DD:193:VAL:HA	1.95	0.49
39:DE:119:ARG:HD2	39:DE:120:TRP:NE1	2.27	0.49
42:DH:104:GLU:HA	42:DH:113:VAL:O	2.11	0.49
45:DL:64:UNK:O	45:DL:65:UNK:C	2.59	0.49
46:DN:120:LEU:CD1	46:DN:122:VAL:HG23	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:92:ARG:CD	53:DU:94:ASN:HB3	2.41	0.49
53:DU:115:ALA:C	53:DU:117:GLN:N	2.70	0.49
57:DY:39:VAL:O	57:DY:40:GLU:CD	2.55	0.49
57:DY:84:ARG:HB2	57:DY:97:ARG:HB2	1.94	0.49
58:DZ:127:LYS:HB3	58:DZ:127:LYS:NZ	2.26	0.49
1:AA:392:G:H2'	1:AA:393:A:C8	2.48	0.49
1:AA:392:G:H2'	1:AA:393:A:H8	1.77	0.49
1:AA:678:U:H2'	1:AA:679:C:C6	2.47	0.49
1:AA:1216:G:OP1	14:AN:2:ALA:HA	2.13	0.49
6:AF:29:ALA:O	6:AF:31:GLU:N	2.45	0.49
12:AL:26:ALA:O	12:AL:27:LEU:O	2.31	0.49
24:AY:18:ALA:O	24:AY:19:ALA:CB	2.59	0.49
24:AY:21:ILE:H	24:AY:21:ILE:CD1	2.20	0.49
24:AY:122:TRP:CZ3	24:AY:132:ARG:HD2	2.48	0.49
24:AY:181:LEU:HD23	24:AY:182:ARG:HH12	1.77	0.49
24:AY:252:ASP:O	24:AY:253:LEU:HB2	2.12	0.49
24:AY:510:VAL:CG1	24:AY:567:LEU:HD13	2.42	0.49
24:AY:681:LYS:HD2	24:AY:681:LYS:C	2.38	0.49
25:B0:23:VAL:HG11	25:B0:69:PHE:HZ	1.77	0.49
26:B1:53:VAL:O	26:B1:54:ALA:C	2.54	0.49
26:B1:76:ARG:HH12	26:B1:95:LEU:CD2	2.15	0.49
26:B1:76:ARG:HH22	26:B1:95:LEU:CB	2.24	0.49
28:B3:38:GLU:HB3	28:B3:43:ILE:HG13	1.93	0.49
30:B5:40:LYS:HE2	30:B5:46:CYS:CB	2.42	0.49
31:B6:10:LEU:HD23	31:B6:10:LEU:N	2.27	0.49
33:B8:4:MET:CE	33:B8:61:LEU:HD22	2.42	0.49
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.75	0.49
34:B9:27:CYS:SG	34:B9:29:ASN:ND2	2.84	0.49
35:BA:552:G:O2'	35:BA:553:G:H5'	2.12	0.49
35:BA:1035:U:O5'	42:BH:59:ARG:NH1	2.46	0.49
35:BA:1722:A:H2	35:BA:1740:G:H2'	1.76	0.49
35:BA:1858:G:O2'	35:BA:1884:A:N6	2.45	0.49
38:BD:24:ILE:CG1	38:BD:25:THR:N	2.74	0.49
38:BD:183:ARG:HD2	38:BD:270:ILE:HG23	1.94	0.49
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	1.93	0.49
40:BF:10:PRO:HG2	40:BF:11:VAL:H	1.77	0.49
41:BG:77:ILE:CG2	41:BG:80:PHE:HB2	2.42	0.49
42:BH:33:LEU:HD12	42:BH:75:ALA:O	2.13	0.49
42:BH:34:GLU:O	42:BH:36:PRO:HD3	2.11	0.49
42:BH:40:GLU:HG3	42:BH:64:LEU:CD1	2.43	0.49
44:BK:75:SER:C	44:BK:78:ILE:HG22	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:120:LEU:HA	44:BK:123:ALA:HB3	1.95	0.49
52:BT:91:ARG:O	52:BT:117:ASP:CB	2.61	0.49
53:BU:70:ARG:NH2	53:BU:75:ASN:HB2	2.27	0.49
56:BX:68:ARG:O	56:BX:68:ARG:HD3	2.12	0.49
56:BX:71:GLY:C	56:BX:72:LYS:HG3	2.37	0.49
57:BY:47:LYS:HG3	57:BY:60:PHE:CE2	2.42	0.49
1:CA:15:G:H4'	5:CE:24:ARG:NH1	2.27	0.49
1:CA:323:U:H5'	20:CT:23:ARG:HB2	1.95	0.49
1:CA:559:A:P	5:CE:126:ARG:HH22	2.35	0.49
1:CA:619:U:N3	4:CD:134:ASP:OD2	2.39	0.49
1:CA:948:C:H2'	1:CA:949:A:H8	1.77	0.49
1:CA:1399:C:C2	1:CA:1502:A:N6	2.80	0.49
2:CB:223:ILE:O	2:CB:226:ARG:N	2.45	0.49
3:CC:46:GLU:O	3:CC:47:LEU:CB	2.55	0.49
3:CC:83:ARG:C	3:CC:85:ARG:H	2.21	0.49
7:CG:92:SER:O	7:CG:93:PRO:C	2.54	0.49
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.24	0.49
22:CW:37:U:H2'	22:CW:38:A:C8	2.47	0.49
24:CY:122:TRP:C	24:CY:124:GLN:N	2.69	0.49
24:CY:182:ARG:HG2	24:CY:239:GLU:OE2	2.12	0.49
24:CY:250:THR:HA	24:CY:255:ILE:HG23	1.95	0.49
24:CY:440:VAL:HG12	24:CY:449:THR:CG2	2.42	0.49
24:CY:457:LEU:O	24:CY:458:HIS:C	2.55	0.49
24:CY:533:VAL:HB	24:CY:570:GLY:O	2.12	0.49
24:CY:630:GLN:NE2	24:CY:646:PHE:HB2	2.28	0.49
25:D0:12:ASN:O	25:D0:14:ARG:N	2.41	0.49
29:D4:48:ARG:O	29:D4:48:ARG:HG2	2.11	0.49
30:D5:40:LYS:HE2	30:D5:46:CYS:CB	2.42	0.49
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.76	0.49
34:D9:26:ILE:HG22	34:D9:27:CYS:N	2.27	0.49
35:DA:154(A):C:C5	35:DA:155:U:H1'	2.47	0.49
35:DA:408:G:O2'	35:DA:409:C:H5'	2.12	0.49
35:DA:644:A:C2	35:DA:2369:A:H1'	2.47	0.49
35:DA:979:G:H2'	35:DA:982:C:N4	2.28	0.49
35:DA:1028:A:H61	35:DA:1125:G:H2'	1.75	0.49
35:DA:1132:A:H2'	35:DA:1133:U:H6	1.77	0.49
35:DA:1654:A:C2	39:DE:113:PHE:CD1	3.01	0.49
35:DA:1750:G:O2'	35:DA:1751:C:H5'	2.13	0.49
35:DA:1996:C:OP1	47:DO:31:LYS:HE2	2.13	0.49
35:DA:2130:U:OP1	37:DC:6:LYS:HB2	2.13	0.49
35:DA:2481:G:O2'	35:DA:2482:G:P	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2872:G:C2	35:DA:2873:A:N6	2.81	0.49
37:DC:34:ALA:HA	37:DC:40:GLU:OE2	2.13	0.49
40:DF:185:ASP:HA	40:DF:188:ARG:HD3	1.94	0.49
42:DH:50:VAL:HG12	42:DH:51:ARG:N	2.26	0.49
42:DH:121:ILE:HA	42:DH:134:SER:O	2.13	0.49
46:DN:42:TRP:CZ3	46:DN:48:MET:HE1	2.46	0.49
48:DP:31:ALA:C	48:DP:33:ARG:N	2.70	0.49
48:DP:147:LEU:O	48:DP:148:LEU:HB2	2.11	0.49
51:DS:89:ARG:CG	51:DS:92:TYR:CA	2.87	0.49
52:DT:11:GLU:C	52:DT:13:ARG:N	2.70	0.49
52:DT:83:ILE:CG1	52:DT:84:GLN:N	2.74	0.49
52:DT:102:ILE:HB	52:DT:110:ILE:HD12	1.94	0.49
53:DU:50:ARG:C	53:DU:52:ARG:N	2.69	0.49
1:AA:297:G:H4'	1:AA:557:G:H4'	1.95	0.49
1:AA:499:A:O2'	1:AA:500:G:C8	2.64	0.49
1:AA:995:C:O2'	1:AA:996:A:H5'	2.13	0.49
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.94	0.49
4:AD:163:GLU:C	4:AD:165:MET:H	2.21	0.49
10:AJ:33:GLN:H	10:AJ:75:ILE:HD11	1.77	0.49
19:AS:5:LEU:HD12	19:AS:8:GLY:C	2.36	0.49
21:AU:2:GLY:C	21:AU:4:GLY:N	2.70	0.49
24:AY:168:ILE:HD11	24:AY:178:ILE:CD1	2.43	0.49
24:AY:435:ASP:C	24:AY:435:ASP:OD2	2.55	0.49
24:AY:466:LEU:O	24:AY:470:PHE:HB2	2.12	0.49
24:AY:539:ILE:HD12	24:AY:567:LEU:CD2	2.42	0.49
26:B1:81:LYS:CE	35:BA:271(H):G:H4'	2.33	0.49
27:B2:13:ALA:C	27:B2:15:LYS:N	2.69	0.49
29:B4:43:TYR:CD2	29:B4:44:THR:HG23	2.47	0.49
30:B5:24:ALA:HB2	35:BA:15:G:OP1	2.12	0.49
30:B5:35:GLU:O	30:B5:36:CYS:HB3	2.12	0.49
31:B6:24:GLU:OE2	35:BA:2346:A:H8	1.95	0.49
31:B6:33:LYS:HG2	31:B6:34:LEU:N	2.28	0.49
31:B6:54:ILE:HD13	35:BA:2420:C:C5'	2.41	0.49
35:BA:211:A:C3'	35:BA:212:G:H5''	2.41	0.49
35:BA:585:G:H2'	35:BA:1251:C:H42	1.77	0.49
35:BA:680:G:H2'	35:BA:681:G:H8	1.77	0.49
35:BA:825:C:C2'	35:BA:826:U:H5'	2.43	0.49
35:BA:1081:U:O3'	44:BK:117:THR:HG22	2.13	0.49
35:BA:1169:G:N2	35:BA:1181:C:N3	2.61	0.49
35:BA:1891:G:H2'	35:BA:1892:C:O4'	2.12	0.49
36:BB:81:G:H2'	36:BB:82:G:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:38:THR:O	39:BE:42:ASP:HB2	2.12	0.49
40:BF:156:LEU:HD21	40:BF:163:VAL:HG12	1.95	0.49
41:BG:35:GLU:O	41:BG:36:LYS:HB3	2.10	0.49
44:BK:17:ALA:HB3	44:BK:38:VAL:CG2	2.38	0.49
47:BO:69:ILE:HB	47:BO:77:ILE:HG22	1.95	0.49
48:BP:7:ARG:HH11	48:BP:7:ARG:HG3	1.77	0.49
51:BS:89:ARG:HE	51:BS:91:PRO:HG2	1.78	0.49
53:BU:33:ARG:C	53:BU:35:ALA:H	2.20	0.49
54:BV:46:VAL:O	54:BV:47:VAL:HG13	2.13	0.49
57:BY:46:LYS:HB2	57:BY:62:GLU:HB2	1.95	0.49
58:BZ:79:ARG:O	58:BZ:80:ARG:CB	2.53	0.49
1:CA:78:G:H1	1:CA:91:C:H42	1.59	0.49
1:CA:344:A:H5''	1:CA:345:C:OP2	2.12	0.49
1:CA:719:C:O2	18:CR:50:ILE:HG12	2.13	0.49
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.77	0.49
1:CA:1348:U:H2'	1:CA:1349:A:C8	2.45	0.49
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	2.12	0.49
2:CB:8:LYS:O	2:CB:9:GLU:C	2.56	0.49
2:CB:15:VAL:H	2:CB:16:HIS:CE1	2.31	0.49
2:CB:101:MET:HG2	2:CB:152:PHE:CE2	2.48	0.49
2:CB:221:LEU:HD13	2:CB:221:LEU:O	2.12	0.49
2:CB:238:LEU:O	2:CB:239:VAL:C	2.55	0.49
3:CC:5:ILE:CD1	3:CC:5:ILE:H	2.26	0.49
3:CC:43:LEU:HD22	3:CC:47:LEU:HD22	1.95	0.49
3:CC:126:ARG:HD2	3:CC:128:PHE:CZ	2.47	0.49
3:CC:156:ARG:NH2	3:CC:160:ALA:O	2.45	0.49
4:CD:163:GLU:C	4:CD:165:MET:N	2.69	0.49
8:CH:35:ILE:HG22	8:CH:39:LEU:HD21	1.95	0.49
8:CH:63:LEU:N	8:CH:63:LEU:HD22	2.26	0.49
15:CO:31:LEU:N	15:CO:31:LEU:HD22	2.28	0.49
15:CO:65:ARG:H	15:CO:65:ARG:HD2	1.77	0.49
15:CO:83:GLU:C	15:CO:85:LEU:N	2.70	0.49
22:CW:43:G:N2	22:CW:44:A:H1'	2.27	0.49
24:CY:34:TYR:CD2	24:CY:35:TYR:CE2	3.01	0.49
26:D1:56:GLN:HE22	26:D1:87:PRO:CB	2.24	0.49
32:D7:41:ARG:NH2	35:DA:460:A:OP1	2.46	0.49
35:DA:190:A:H2'	35:DA:191:A:C8	2.47	0.49
35:DA:246:C:C2'	35:DA:247:G:H5'	2.42	0.49
35:DA:363(F):A:O2'	35:DA:364:C:P	2.70	0.49
35:DA:428:A:H3'	35:DA:429:A:C8	2.47	0.49
35:DA:598:G:C5'	48:DP:15:ARG:HB2	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:876:C:H2'	35:DA:877:U:O4'	2.13	0.49
35:DA:1095:A:H2'	35:DA:1096:A:C8	2.47	0.49
35:DA:2062:A:O4'	35:DA:2062:A:N3	2.45	0.49
38:DD:73:VAL:O	38:DD:75:ILE:HG12	2.11	0.49
39:DE:104:VAL:HG22	39:DE:198:VAL:HG22	1.92	0.49
40:DF:176:LEU:HD11	40:DF:180:GLY:HA3	1.94	0.49
40:DF:192:LEU:C	40:DF:192:LEU:CD2	2.85	0.49
40:DF:198:ALA:C	40:DF:201:VAL:HG12	2.38	0.49
40:DF:206:ILE:HG22	40:DF:207:GLY:H	1.78	0.49
42:DH:89:ILE:C	42:DH:89:ILE:HD12	2.38	0.49
42:DH:172:LYS:HB3	42:DH:175:LYS:HB3	1.94	0.49
46:DN:132:ALA:O	46:DN:133:GLN:HB2	2.12	0.49
49:DQ:58:PHE:HD1	49:DQ:58:PHE:O	1.96	0.49
50:DR:97:VAL:O	50:DR:98:LEU:HD23	2.12	0.49
52:DT:92:GLY:C	52:DT:94:ALA:N	2.70	0.49
53:DU:112:ARG:CZ	54:DV:46:VAL:HG21	2.42	0.49
54:DV:28:GLU:CB	54:DV:31:ALA:HB2	2.36	0.49
54:DV:46:VAL:HG13	54:DV:47:VAL:N	2.27	0.49
58:DZ:130:PRO:CA	58:DZ:133:ILE:HD11	2.38	0.49
1:AA:190:U:O2'	1:AA:191:G:H5'	2.12	0.49
1:AA:560:U:H4'	1:AA:561:U:H5''	1.94	0.49
1:AA:1271:G:H2'	1:AA:1272:G:H8	1.77	0.49
1:AA:1281:U:H5'	1:AA:1282:C:OP2	2.13	0.49
2:AB:17:PHE:CD2	2:AB:18:GLY:N	2.81	0.49
3:AC:72:LYS:HE3	3:AC:72:LYS:CA	2.43	0.49
6:AF:62:TRP:CD1	18:AR:35:ARG:NH1	2.81	0.49
12:AL:27:LEU:C	12:AL:29:GLY:H	2.20	0.49
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.13	0.49
13:AM:56:LEU:HD13	13:AM:60:VAL:HG23	1.94	0.49
13:AM:91:ARG:HH21	19:AS:81:ARG:NH2	2.10	0.49
18:AR:59:SER:N	18:AR:62:GLU:HB2	2.24	0.49
19:AS:79:THR:HG22	19:AS:80:TYR:N	2.27	0.49
24:AY:85:PRO:HG3	24:AY:94:VAL:HG13	1.95	0.49
25:B0:10:THR:HG22	25:B0:11:ARG:N	2.27	0.49
26:B1:4:VAL:HG21	26:B1:11:ARG:NH1	2.27	0.49
27:B2:7:ARG:NH1	27:B2:7:ARG:HG3	2.27	0.49
29:B4:14:ILE:HD13	29:B4:22:ILE:C	2.38	0.49
31:B6:17:LYS:HB2	31:B6:44:ARG:NH1	2.27	0.49
35:BA:142(A):C:O2'	35:BA:1597:A:H5''	2.13	0.49
35:BA:848:G:C4	35:BA:933:A:H8	2.31	0.49
35:BA:884:C:N4	35:BA:886:C:H42	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:991:C:H5'	35:BA:991:C:C6	2.40	0.49
35:BA:1654:A:OP2	50:BR:3:HIS:HB2	2.12	0.49
37:BC:69:LEU:O	37:BC:70:GLY:C	2.55	0.49
38:BD:224:ALA:O	38:BD:225:ALA:HB2	2.13	0.49
39:BE:176:ILE:CG2	39:BE:178:GLU:HB3	2.37	0.49
39:BE:177:PRO:O	39:BE:178:GLU:C	2.56	0.49
40:BF:192:LEU:HD23	40:BF:193:VAL:N	2.26	0.49
41:BG:102:PHE:O	41:BG:104:GLU:N	2.46	0.49
44:BK:39:LYS:O	44:BK:43:ALA:HB2	2.13	0.49
44:BK:109:LYS:CA	44:BK:112:MET:HE3	2.24	0.49
46:BN:26:LEU:C	46:BN:26:LEU:CD1	2.80	0.49
47:BO:63:VAL:HG23	47:BO:64:ARG:HG3	1.94	0.49
49:BQ:3:MET:HG3	49:BQ:4:PRO:O	2.12	0.49
50:BR:41:ALA:C	50:BR:43:GLU:N	2.69	0.49
52:BT:102:ILE:O	52:BT:106:SER:HB3	2.12	0.49
53:BU:115:ALA:C	53:BU:117:GLN:H	2.20	0.49
1:CA:489:C:H2'	1:CA:490:G:C8	2.48	0.49
1:CA:490:G:H2'	1:CA:491:G:C8	2.42	0.49
1:CA:502:G:OP1	12:CL:118:SER:HB3	2.12	0.49
1:CA:738:C:H2'	1:CA:739:C:H6	1.78	0.49
1:CA:946:A:H3'	1:CA:947:G:H8	1.77	0.49
1:CA:979:C:C3'	1:CA:980:C:C5'	2.78	0.49
1:CA:995:C:O2'	1:CA:996:A:H5'	2.12	0.49
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.47	0.49
2:CB:204:ASN:ND2	2:CB:204:ASN:C	2.62	0.49
5:CE:150:ARG:HB2	5:CE:150:ARG:NH1	2.28	0.49
9:CI:10:ARG:CZ	9:CI:105:ASP:OD2	2.61	0.49
9:CI:26:VAL:CG2	9:CI:61:ALA:HB3	2.40	0.49
10:CJ:55:LYS:HE3	10:CJ:55:LYS:N	2.26	0.49
12:CL:17:LYS:HD3	12:CL:18:VAL:N	2.28	0.49
12:CL:70:ILE:HG21	12:CL:77:LEU:HD12	1.95	0.49
15:CO:25:THR:O	15:CO:26:GLU:C	2.55	0.49
16:CP:67:THR:N	16:CP:70:ALA:HB3	2.28	0.49
24:CY:25:LYS:HG3	62:CY:703:GDP:O1B	2.12	0.49
26:D1:63:ALA:O	26:D1:67:ILE:HG13	2.13	0.49
30:D5:40:LYS:HZ1	30:D5:46:CYS:N	2.09	0.49
31:D6:25:LYS:HE2	33:D8:34:TRP:HE1	1.77	0.49
31:D6:54:ILE:HD13	35:DA:2420:C:H5'	1.94	0.49
35:DA:112:U:H2'	35:DA:113:G:H5'	1.95	0.49
35:DA:884:C:N4	35:DA:886:C:H42	2.11	0.49
35:DA:925:C:C3'	35:DA:926:A:H5''	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1064:C:H42	35:DA:1074:G:H1	1.60	0.49
35:DA:1081:U:O3'	44:DK:117:THR:HG22	2.12	0.49
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.43	0.49
35:DA:1678:G:N2	35:DA:1989:G:N2	2.53	0.49
35:DA:2016:U:O2'	35:DA:2017:U:H5'	2.13	0.49
35:DA:2110:G:HO2'	35:DA:2120:G:H5'	1.74	0.49
35:DA:2308:G:N7	35:DA:2310:A:C5'	2.69	0.49
36:DB:53:A:N3	36:DB:53:A:H2'	2.27	0.49
36:DB:95:C:O2'	36:DB:96:U:H5'	2.12	0.49
37:DC:69:LEU:O	37:DC:70:GLY:C	2.55	0.49
37:DC:128:LEU:CD1	37:DC:132:LEU:HG	2.41	0.49
39:DE:14:ILE:HG13	39:DE:21:VAL:CG2	2.43	0.49
41:DG:19:LEU:HD11	41:DG:172:LEU:HD12	1.95	0.49
41:DG:107:LEU:HD21	41:DG:178:PHE:CE1	2.48	0.49
44:DK:77:LEU:H	44:DK:77:LEU:CD2	2.08	0.49
49:DQ:2:LEU:HG	49:DQ:69:PHE:CE1	2.48	0.49
50:DR:9:LYS:C	50:DR:10:LEU:HG	2.37	0.49
56:DX:68:ARG:O	56:DX:68:ARG:HD3	2.13	0.49
58:DZ:61:LEU:HD12	58:DZ:65:GLN:CB	2.42	0.49
58:DZ:103:ARG:HD2	58:DZ:136:PHE:CE1	2.48	0.49
1:AA:170:U:O2'	1:AA:171:A:H5'	2.13	0.49
1:AA:344:A:H5''	1:AA:345:C:OP2	2.13	0.49
1:AA:529:G:O6	12:AL:49:ASN:HA	2.13	0.49
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.61	0.49
1:AA:1104:G:P	2:AB:111:ARG:HD2	2.53	0.49
1:AA:1226:C:H5''	13:AM:103:THR:OG1	2.13	0.49
1:AA:1258:G:C6	1:AA:1259:C:N4	2.81	0.49
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.12	0.49
2:AB:17:PHE:O	2:AB:18:GLY:C	2.55	0.49
2:AB:121:LEU:HD21	2:AB:126:GLU:OE2	2.13	0.49
3:AC:151:VAL:HG12	3:AC:152:ILE:N	2.26	0.49
5:AE:144:THR:O	5:AE:146:ALA:N	2.45	0.49
7:AG:116:ALA:O	7:AG:120:ILE:HG12	2.12	0.49
14:AN:44:LEU:HD12	14:AN:44:LEU:C	2.37	0.49
19:AS:35:SER:C	19:AS:37:ARG:H	2.19	0.49
23:AX:11:U:O2	23:AX:11:U:C2'	2.60	0.49
24:AY:84:THR:O	24:AY:85:PRO:O	2.30	0.49
24:AY:122:TRP:O	24:AY:125:ALA:N	2.29	0.49
24:AY:146:LEU:O	24:AY:147:TRP:C	2.56	0.49
24:AY:230:LYS:HZ2	24:AY:230:LYS:HB2	1.78	0.49
24:AY:232:LEU:N	24:AY:232:LEU:HD22	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:406:GLU:CB	24:AY:407:PRO:HD2	2.42	0.49
24:AY:451:ILE:HG23	24:AY:459:LEU:HD23	1.95	0.49
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.77	0.49
35:BA:52:A:C2'	35:BA:53:A:H5'	2.43	0.49
35:BA:250:G:H2'	35:BA:251:A:C8	2.47	0.49
35:BA:657:U:H2'	35:BA:658:C:H6	1.74	0.49
35:BA:1141:U:OP2	46:BN:63:THR:OG1	2.24	0.49
35:BA:1168:G:H2'	35:BA:1169:G:H8	1.74	0.49
35:BA:1344:G:H1	35:BA:1403:C:H42	1.60	0.49
35:BA:1692:U:H2'	35:BA:1694:C:C4	2.48	0.49
35:BA:2156:G:H2'	35:BA:2157:G:O4'	2.13	0.49
35:BA:2860:A:C2'	35:BA:2861:G:H5'	2.43	0.49
37:BC:138:LEU:O	37:BC:139:PRO:C	2.55	0.49
41:BG:31:VAL:HG23	41:BG:32:PRO:HD2	1.95	0.49
42:BH:46:GLU:HG3	42:BH:51:ARG:H	1.78	0.49
42:BH:68:THR:C	42:BH:70:THR:N	2.69	0.49
46:BN:115:ARG:HA	46:BN:118:LYS:HE2	1.94	0.49
58:BZ:9:TYR:HB3	58:BZ:35:ARG:NH2	2.27	0.49
58:BZ:89:PHE:CE1	58:BZ:96:VAL:HG21	2.47	0.49
58:BZ:115:GLY:HA2	58:BZ:177:PRO:CD	2.43	0.49
58:BZ:120:ILE:O	58:BZ:120:ILE:CG2	2.60	0.49
1:CA:46:G:O2'	1:CA:365:U:H1'	2.13	0.49
1:CA:64:G:N2	1:CA:67:C:C4	2.81	0.49
1:CA:184:G:O2'	1:CA:185:A:H5'	2.13	0.49
1:CA:324:G:N2	1:CA:326:G:H3'	2.27	0.49
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.36	0.49
1:CA:1447:A:N3	1:CA:1447:A:H2'	2.26	0.49
2:CB:148:TYR:O	2:CB:149:LEU:HD23	2.12	0.49
2:CB:223:ILE:O	2:CB:225:ALA:N	2.45	0.49
3:CC:82:GLU:CD	3:CC:82:GLU:N	2.70	0.49
10:CJ:63:PHE:CD2	10:CJ:63:PHE:N	2.81	0.49
12:CL:47:LYS:CB	12:CL:48:PRO:CD	2.89	0.49
19:CS:72:GLY:C	19:CS:74:PHE:N	2.71	0.49
20:CT:96:GLY:O	20:CT:97:ALA:O	2.31	0.49
22:CV:36:U:H1'	24:CY:503:GLY:H	1.78	0.49
24:CY:343:ASN:C	24:CY:343:ASN:ND2	2.67	0.49
24:CY:513:LYS:CB	24:CY:566:THR:HB	2.43	0.49
24:CY:532:GLY:C	24:CY:534:ILE:N	2.67	0.49
24:CY:583:LYS:HD3	24:CY:583:LYS:C	2.37	0.49
26:D1:76:ARG:HH22	26:D1:95:LEU:HB2	1.77	0.49
30:D5:55:ARG:NH1	50:DR:33:ARG:CD	2.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:33:LYS:HG2	31:D6:34:LEU:N	2.28	0.49
35:DA:685:A:C5	35:DA:774:A:C2	3.00	0.49
35:DA:1168:G:H2'	35:DA:1169:G:O4'	2.13	0.49
35:DA:1528:A:O2'	35:DA:1528(A):A:O5'	2.30	0.49
35:DA:2116:G:N7	35:DA:2117:A:C5	2.81	0.49
35:DA:2192:G:C3'	35:DA:2193:G:H5''	2.42	0.49
35:DA:2317:C:O2'	35:DA:2318:G:H5'	2.11	0.49
35:DA:2845:G:O2'	35:DA:2846:G:H5'	2.13	0.49
37:DC:135:ARG:C	37:DC:137:LEU:H	2.20	0.49
39:DE:89:ASP:O	39:DE:90:THR:O	2.30	0.49
46:DN:96:GLU:O	46:DN:100:GLU:HG3	2.13	0.49
52:DT:62:THR:HA	52:DT:74:ARG:O	2.13	0.49
57:DY:46:LYS:HB2	57:DY:62:GLU:HB2	1.94	0.49
58:DZ:54:HIS:HE1	58:DZ:123:ASP:OD2	1.96	0.49
1:AA:142:G:H1	1:AA:221:C:H42	1.61	0.49
1:AA:265:G:O2'	1:AA:266:G:H5'	2.13	0.49
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.12	0.49
1:AA:1402:C:O2	1:AA:1500:A:N1	2.46	0.49
1:AA:1442:G:H2'	52:BT:118:ARG:HH12	1.77	0.49
2:AB:101:MET:HG2	2:AB:152:PHE:CE2	2.48	0.49
2:AB:144:ARG:O	2:AB:145:LEU:C	2.56	0.49
2:AB:178:ARG:HH11	2:AB:178:ARG:CG	2.26	0.49
7:AG:78:ARG:HE	7:AG:156:TRP:HB3	1.78	0.49
8:AH:34:GLU:O	8:AH:35:ILE:C	2.54	0.49
8:AH:86:ILE:HG13	8:AH:133:LEU:HD22	1.93	0.49
10:AJ:22:LYS:O	10:AJ:22:LYS:HD2	2.12	0.49
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.76	0.49
12:AL:46:LYS:HZ2	12:AL:94:PRO:HG3	1.78	0.49
12:AL:70:ILE:HD12	12:AL:75:HIS:NE2	2.27	0.49
14:AN:12:ARG:O	14:AN:14:PRO:CD	2.61	0.49
15:AO:17:ARG:NH1	15:AO:77:ARG:CZ	2.76	0.49
16:AP:23:ASP:OD1	16:AP:24:ALA:N	2.45	0.49
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.95	0.49
20:AT:33:ILE:CD1	20:AT:63:ILE:HA	2.43	0.49
21:AU:9:ARG:HH11	21:AU:22:ARG:HG3	1.78	0.49
23:AX:11:U:H4'	23:AX:12:A:O5'	2.11	0.49
23:AX:16:A:H2'	23:AX:17:U:H6	1.78	0.49
24:AY:230:LYS:HB2	24:AY:230:LYS:NZ	2.28	0.49
24:AY:289:ILE:O	24:AY:301:ILE:HG12	2.13	0.49
24:AY:292:THR:HG23	24:AY:297:GLU:H	1.77	0.49
25:B0:78:TYR:N	25:B0:78:TYR:CD1	2.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:29:GLY:O	26:B1:31:GLY:N	2.46	0.49
27:B2:57:ILE:HG22	27:B2:61:LEU:HD12	1.94	0.49
35:BA:272(D):G:H1	35:BA:364:C:H42	1.61	0.49
35:BA:825:C:H2'	35:BA:826:U:O4'	2.13	0.49
35:BA:979:G:H2'	35:BA:982:C:N4	2.27	0.49
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.11	0.49
35:BA:1169:G:C2	35:BA:1181:C:N3	2.81	0.49
35:BA:1461:G:H2'	35:BA:1462:C:H6	1.77	0.49
35:BA:1499:C:O2'	35:BA:1500:G:H5'	2.13	0.49
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.34	0.49
35:BA:2019:A:O3'	53:BU:27:LEU:HD12	2.12	0.49
35:BA:2305:A:O2'	41:BG:136:ARG:HG2	2.13	0.49
36:BB:8:U:H5'	36:BB:8:U:H6	1.78	0.49
39:BE:34:VAL:O	39:BE:34:VAL:HG22	2.11	0.49
41:BG:103:LEU:HA	41:BG:106:LEU:HB3	1.94	0.49
42:BH:17:VAL:HB	42:BH:45:VAL:HG13	1.93	0.49
44:BK:17:ALA:HB1	44:BK:38:VAL:HG22	1.91	0.49
48:BP:85:LEU:HD12	48:BP:120:ALA:CB	2.32	0.49
51:BS:12:PHE:C	51:BS:12:PHE:HD1	2.20	0.49
53:BU:96:ALA:C	53:BU:98:LEU:H	2.20	0.49
55:BW:82:LEU:N	55:BW:82:LEU:CD1	2.76	0.49
57:BY:29:GLU:OE1	57:BY:29:GLU:N	2.46	0.49
1:CA:190:U:O2'	1:CA:191:G:H5'	2.13	0.49
1:CA:218:C:H5'	1:CA:470:C:H41	1.78	0.49
1:CA:409:G:H1	1:CA:433:C:H42	1.61	0.49
1:CA:624:C:H2'	1:CA:625:G:C8	2.48	0.49
1:CA:858:G:O2'	1:CA:859:A:H5''	2.13	0.49
1:CA:1216:G:H2'	1:CA:1217:C:C6	2.48	0.49
1:CA:1226:C:H5''	13:CM:103:THR:HB	1.94	0.49
2:CB:109:SER:O	2:CB:112:VAL:HB	2.13	0.49
3:CC:173:VAL:O	3:CC:175:LEU:HD12	2.12	0.49
4:CD:31:CYS:O	4:CD:32:ALA:CB	2.60	0.49
19:CS:31:ILE:HG23	19:CS:31:ILE:O	2.12	0.49
22:CW:18:U:H2'	22:CW:18:U:O2	2.13	0.49
24:CY:34:TYR:CD2	24:CY:35:TYR:HE2	2.30	0.49
24:CY:102:ASP:O	24:CY:130:VAL:HG22	2.12	0.49
24:CY:272:LEU:HD12	24:CY:275:ALA:HB3	1.95	0.49
24:CY:326:THR:OG1	24:CY:377:VAL:HG22	2.13	0.49
24:CY:456:GLU:O	24:CY:460:GLU:HB2	2.12	0.49
24:CY:670:VAL:O	24:CY:671:MET:HB3	2.12	0.49
26:D1:30:VAL:CG2	26:D1:31:GLY:H	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:24:ALA:HB2	35:DA:15:G:OP1	2.12	0.49
33:D8:21:LYS:HD3	33:D8:48:PHE:CE2	2.48	0.49
35:DA:29:U:O2'	35:DA:30:G:H5'	2.12	0.49
35:DA:324:A:OP2	35:DA:1205:U:N3	2.46	0.49
35:DA:325:G:H2'	35:DA:326:G:H8	1.78	0.49
35:DA:2012:G:C4'	55:DW:96:ILE:HD11	2.18	0.49
35:DA:2020:A:C6	35:DA:2022:U:N3	2.81	0.49
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.43	0.49
35:DA:2320:A:C2	35:DA:2333:A:C8	3.01	0.49
35:DA:2892:A:H62	35:DA:2893:G:H21	1.59	0.49
36:DB:86:G:C6	36:DB:92:C:N3	2.81	0.49
38:DD:11:PRO:C	38:DD:13:ARG:N	2.66	0.49
38:DD:14:ARG:HG3	38:DD:15:PHE:N	2.28	0.49
38:DD:33:LEU:C	38:DD:33:LEU:HD23	2.38	0.49
39:DE:69:LYS:O	39:DE:71:GLY:N	2.45	0.49
39:DE:201:THR:C	39:DE:202:LYS:HD2	2.37	0.49
41:DG:55:LYS:HD3	41:DG:55:LYS:C	2.36	0.49
44:DK:93:ARG:CG	58:DZ:112:ARG:HE	2.26	0.49
46:DN:120:LEU:C	46:DN:120:LEU:HD13	2.38	0.49
46:DN:133:GLN:O	46:DN:134:ARG:HB3	2.13	0.49
51:DS:12:PHE:C	51:DS:12:PHE:HD1	2.21	0.49
52:DT:23:ARG:C	52:DT:25:GLY:H	2.13	0.49
52:DT:50:ILE:CG1	52:DT:102:ILE:HD11	2.42	0.49
52:DT:117:ASP:O	52:DT:118:ARG:C	2.56	0.49
53:DU:55:ARG:HA	53:DU:58:ARG:HB2	1.95	0.49
53:DU:59:ARG:O	53:DU:62:ILE:N	2.42	0.49
57:DY:46:LYS:H	57:DY:62:GLU:CB	2.19	0.49
57:DY:49:VAL:O	57:DY:51:VAL:HG23	2.12	0.49
57:DY:105:ALA:C	57:DY:107:ASP:N	2.71	0.49
58:DZ:128:VAL:CG2	58:DZ:129:SER:H	2.23	0.49
1:AA:63:C:O2'	1:AA:380:G:H4'	2.13	0.49
1:AA:253:U:H2'	1:AA:254:G:H8	1.77	0.49
1:AA:318:G:H2'	1:AA:319:G:H8	1.77	0.49
1:AA:1225:A:H3'	1:AA:1226:C:C6	2.48	0.49
1:AA:1277:C:H6	1:AA:1277:C:H3'	1.77	0.49
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.94	0.49
1:AA:1347:G:HO2'	1:AA:1348:U:P	2.36	0.49
2:AB:15:VAL:H	2:AB:16:HIS:CE1	2.31	0.49
3:AC:10:PHE:CE1	3:AC:178:LEU:HD11	2.48	0.49
4:AD:31:CYS:O	4:AD:32:ALA:CB	2.60	0.49
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:134:ALA:O	7:AG:137:LYS:N	2.42	0.49
9:AI:59:PHE:N	9:AI:59:PHE:CD1	2.81	0.49
24:AY:413:ILE:HG23	24:AY:413:ILE:O	2.13	0.49
24:AY:519:ARG:HH21	24:AY:677:GLN:HB2	1.78	0.49
24:AY:679:VAL:HG23	24:AY:684:GLN:NE2	2.28	0.49
25:B0:47:PRO:HB3	25:B0:51:VAL:O	2.12	0.49
28:B3:2:PRO:O	28:B3:3:ARG:O	2.31	0.49
29:B4:2:LYS:HG2	36:BB:44:G:P	2.52	0.49
35:BA:29:U:O2'	35:BA:30:G:H5'	2.13	0.49
35:BA:194:G:H2'	35:BA:195:A:O4'	2.11	0.49
35:BA:272(I):U:O2	35:BA:272(I):U:C3'	2.59	0.49
35:BA:345:A:O2'	35:BA:346:A:N7	2.46	0.49
35:BA:408:G:O2'	35:BA:409:C:H5'	2.13	0.49
35:BA:478:A:C6	35:BA:480:A:C6	3.00	0.49
35:BA:729:G:OP2	38:BD:13:ARG:NH1	2.46	0.49
35:BA:821:A:O2'	35:BA:945:A:H3'	2.13	0.49
35:BA:958:U:H5'	49:BQ:14:ARG:NH1	2.27	0.49
35:BA:1040:C:H2'	35:BA:1041:C:C6	2.47	0.49
35:BA:1326:U:H5''	35:BA:2011:U:H1'	1.93	0.49
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.13	0.49
35:BA:1462:C:H4'	35:BA:2703:C:H5'	1.94	0.49
35:BA:1582:C:H2'	35:BA:1583:A:C8	2.43	0.49
37:BC:23:ILE:CB	37:BC:229:SER:OXT	2.60	0.49
37:BC:115:VAL:HG12	37:BC:145:THR:CG2	2.40	0.49
38:BD:213:ARG:C	38:BD:215:LEU:N	2.67	0.49
39:BE:51:PHE:N	39:BE:74:PRO:HG3	2.28	0.49
41:BG:56:ALA:CB	41:BG:153:ARG:NH2	2.76	0.49
47:BO:52:VAL:C	47:BO:53:LYS:HG3	2.37	0.49
48:BP:107:LYS:O	48:BP:109:GLY:N	2.45	0.49
49:BQ:52:VAL:C	49:BQ:54:MET:N	2.71	0.49
50:BR:12:ARG:HB3	50:BR:16:HIS:HD2	1.78	0.49
51:BS:40:ILE:CG2	51:BS:41:ASP:N	2.76	0.49
52:BT:113:LYS:C	52:BT:114:LEU:HD23	2.38	0.49
53:BU:112:ARG:CZ	54:BV:46:VAL:HG21	2.43	0.49
58:BZ:109:ALA:HB1	58:BZ:145:GLU:OE2	2.13	0.49
1:CA:60:A:C5'	1:CA:331:G:H22	2.23	0.49
1:CA:1346:A:N6	1:CA:1375:A:OP2	2.40	0.49
1:CA:1497:G:O2'	1:CA:1498:U:H5'	2.13	0.49
1:CA:1511:G:O2'	1:CA:1512:U:H5'	2.13	0.49
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.12	0.49
6:CF:22:GLU:OE2	6:CF:22:GLU:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:31:PHE:O	8:CH:34:GLU:HB2	2.13	0.49
8:CH:74:PRO:O	8:CH:75:ARG:C	2.56	0.49
11:CK:87:THR:O	11:CK:88:GLY:C	2.54	0.49
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.12	0.49
21:CU:2:GLY:C	21:CU:4:GLY:H	2.21	0.49
24:CY:105:ILE:N	24:CY:105:ILE:HD12	2.28	0.49
24:CY:146:LEU:HD12	24:CY:167:PRO:HD3	1.95	0.49
24:CY:451:ILE:O	24:CY:451:ILE:HG23	2.13	0.49
24:CY:513:LYS:HB2	24:CY:566:THR:HB	1.95	0.49
24:CY:529:ILE:HD11	24:CY:534:ILE:HD12	1.95	0.49
25:D0:10:THR:HG22	25:D0:11:ARG:N	2.28	0.49
27:D2:16:LEU:O	27:D2:20:GLU:HB3	2.13	0.49
27:D2:53:LEU:O	27:D2:57:ILE:HG12	2.11	0.49
28:D3:31:LEU:HD22	28:D3:32:GLN:H	1.77	0.49
30:D5:55:ARG:O	30:D5:56:LYS:CB	2.52	0.49
32:D7:28:ARG:HG3	32:D7:28:ARG:NH1	2.28	0.49
35:DA:48:G:N2	35:DA:177:G:N2	2.61	0.49
35:DA:76:C:O2'	35:DA:77:C:H5'	2.13	0.49
35:DA:90:U:H3'	35:DA:90:U:O2	2.13	0.49
35:DA:537:C:H2'	35:DA:538:G:C8	2.48	0.49
35:DA:618:C:H2'	35:DA:619:G:O4'	2.13	0.49
35:DA:718:A:H2'	35:DA:719:C:O4'	2.13	0.49
35:DA:756:C:C2'	35:DA:757:U:H5'	2.43	0.49
35:DA:777:A:H2'	35:DA:778:G:C8	2.48	0.49
35:DA:938:G:H2'	35:DA:939:G:H8	1.77	0.49
35:DA:961:C:N4	35:DA:2031:A:H1'	2.27	0.49
35:DA:1035:U:H2'	35:DA:1036:G:C8	2.47	0.49
35:DA:2282:G:O2'	35:DA:2283:C:OP2	2.29	0.49
35:DA:2453:A:OP1	35:DA:2573:C:H5	1.96	0.49
35:DA:2747:G:O2'	42:DH:67:LEU:HD12	2.13	0.49
35:DA:2804:C:H2'	35:DA:2805:G:H8	1.69	0.49
36:DB:74:U:H2'	36:DB:75:G:H5'	1.95	0.49
38:DD:81:ALA:HA	38:DD:113:VAL:CG2	2.43	0.49
39:DE:152:LYS:HG3	39:DE:153:GLY:N	2.27	0.49
40:DF:42:ALA:O	40:DF:45:ARG:HG3	2.12	0.49
41:DG:40:ASN:O	41:DG:156:ASP:N	2.40	0.49
41:DG:46:ALA:O	41:DG:47:LYS:O	2.31	0.49
46:DN:18:ALA:O	46:DN:21:LYS:HB2	2.12	0.49
46:DN:133:GLN:CG	46:DN:134:ARG:N	2.75	0.49
50:DR:63:ARG:HA	50:DR:80:PHE:CZ	2.48	0.49
51:DS:89:ARG:HG3	51:DS:92:TYR:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:82:LEU:CD2	52:DT:85:LYS:HD2	2.43	0.49
58:DZ:96:VAL:O	58:DZ:96:VAL:HG13	2.11	0.49
1:AA:238:G:C6	1:AA:239:U:C4	3.00	0.48
1:AA:509:A:H2	1:AA:543:C:H1'	1.78	0.48
1:AA:532:A:H61	3:AC:193:TYR:HB3	1.78	0.48
1:AA:908:A:H2'	1:AA:909:A:C8	2.48	0.48
4:AD:170:VAL:O	4:AD:171:GLY:O	2.31	0.48
7:AG:57:GLU:O	7:AG:58:PRO:C	2.56	0.48
8:AH:30:ARG:HH11	8:AH:30:ARG:CB	2.26	0.48
8:AH:32:LYS:O	8:AH:34:GLU:N	2.46	0.48
8:AH:85:ARG:HH11	8:AH:85:ARG:HG3	1.77	0.48
9:AI:83:ARG:O	9:AI:86:VAL:HG12	2.13	0.48
10:AJ:22:LYS:NZ	10:AJ:88:LEU:HD23	2.29	0.48
13:AM:49:THR:C	13:AM:51:ALA:N	2.70	0.48
13:AM:54:VAL:C	13:AM:56:LEU:N	2.71	0.48
13:AM:79:LYS:HA	13:AM:82:MET:HG3	1.95	0.48
24:AY:139:MET:CE	24:AY:167:PRO:HG3	2.42	0.48
24:AY:341:VAL:HG23	24:AY:350:GLU:HB2	1.95	0.48
27:B2:48:HIS:HD1	35:BA:95:G:HO2'	1.58	0.48
29:B4:22:ILE:CG2	29:B4:23:GLU:N	2.76	0.48
30:B5:27:PRO:CD	55:BW:23:LEU:HD11	2.43	0.48
30:B5:55:ARG:NH1	50:BR:33:ARG:CD	2.75	0.48
31:B6:27:LYS:CD	31:B6:30:THR:HB	2.43	0.48
35:BA:409:C:O2'	35:BA:410:G:H5'	2.13	0.48
35:BA:603:A:O2'	35:BA:604:G:OP2	2.31	0.48
35:BA:910:A:C6	49:BQ:13:GLN:HG3	2.48	0.48
35:BA:1353:A:H4'	38:BD:38:LYS:HE3	1.95	0.48
35:BA:2230:G:H2'	35:BA:2231:C:C6	2.48	0.48
35:BA:2348:U:H2'	35:BA:2349:G:H5'	1.95	0.48
35:BA:2367:G:H2'	35:BA:2368:C:H6	1.77	0.48
39:BE:36:ARG:HH21	39:BE:88:GLY:HA2	1.77	0.48
39:BE:203:LYS:HG3	39:BE:204:ALA:N	2.27	0.48
40:BF:198:ALA:C	40:BF:201:VAL:HG12	2.38	0.48
41:BG:97:ASP:O	41:BG:101:ILE:N	2.42	0.48
41:BG:110:ALA:HA	41:BG:140:ILE:O	2.13	0.48
42:BH:141:VAL:O	42:BH:142:GLY:C	2.56	0.48
46:BN:15:LEU:HD13	46:BN:15:LEU:C	2.38	0.48
47:BO:98:VAL:CG2	47:BO:118:ALA:HA	2.43	0.48
48:BP:16:ARG:CZ	48:BP:18:ARG:HB2	2.43	0.48
48:BP:64:LYS:O	48:BP:64:LYS:HD3	2.13	0.48
49:BQ:134:ARG:HG3	49:BQ:134:ARG:HH11	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:33:LYS:HG2	51:BS:34:HIS:CD2	2.48	0.48
52:BT:62:THR:HA	52:BT:74:ARG:O	2.13	0.48
57:BY:31:LEU:HD22	57:BY:31:LEU:H	1.77	0.48
1:CA:965:A:C2	1:CA:969:A:C2	3.01	0.48
1:CA:973:G:O4'	10:CJ:55:LYS:HE2	2.13	0.48
1:CA:986:A:H2'	1:CA:987:G:H8	1.78	0.48
1:CA:1296:C:O2'	1:CA:1302:U:C5	2.60	0.48
10:CJ:42:THR:HG23	10:CJ:67:THR:O	2.12	0.48
19:CS:19:VAL:HG12	19:CS:20:LEU:HG	1.95	0.48
22:CV:57:A:H2'	22:CV:58:A:H5'	1.95	0.48
24:CY:122:TRP:HH2	24:CY:256:THR:OG1	1.96	0.48
24:CY:192:LEU:HD12	24:CY:194:THR:HG23	1.94	0.48
24:CY:423:LYS:NZ	24:CY:470:PHE:O	2.38	0.48
25:D0:73:GLY:C	25:D0:75:LEU:N	2.71	0.48
29:D4:22:ILE:CG2	29:D4:23:GLU:N	2.76	0.48
30:D5:19:ARG:HD2	35:DA:1266:G:OP1	2.13	0.48
30:D5:35:GLU:O	30:D5:36:CYS:CB	2.60	0.48
35:DA:1047:G:O2'	35:DA:1110:G:N2	2.45	0.48
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.95	0.48
35:DA:1558:A:O2'	35:DA:1559:G:OP2	2.30	0.48
35:DA:1755:A:P	52:DT:113:LYS:HZ1	2.36	0.48
35:DA:2656:U:N3	35:DA:2665:A:H2	2.11	0.48
35:DA:2794:C:H42	35:DA:2801(A):A:N6	2.11	0.48
37:DC:148:PHE:C	37:DC:150:ILE:H	2.21	0.48
39:DE:68:ALA:C	39:DE:70:ALA:H	2.21	0.48
41:DG:126:ASP:CB	41:DG:130:ASN:HB2	2.42	0.48
43:DJ:18:UNK:O	43:DJ:88:UNK:CB	2.61	0.48
48:DP:95:VAL:CG2	48:DP:125:VAL:HG23	2.42	0.48
48:DP:112:LEU:H	48:DP:128:HIS:HD2	1.58	0.48
52:DT:27:THR:C	52:DT:28:VAL:HG23	2.37	0.48
54:DV:31:ALA:C	54:DV:61:VAL:HG12	2.37	0.48
1:AA:409:G:H1	1:AA:433:C:H42	1.60	0.48
1:AA:1222:G:O2'	1:AA:1223:C:H5'	2.13	0.48
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.34	0.48
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.49	0.48
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	1.95	0.48
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.13	0.48
3:AC:83:ARG:C	3:AC:85:ARG:N	2.68	0.48
4:AD:96:LEU:HD22	4:AD:96:LEU:N	2.23	0.48
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.43	0.48
20:AT:26:ASN:N	20:AT:26:ASN:ND2	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:152:THR:C	24:AY:154:GLN:H	2.21	0.48
24:AY:204:GLU:O	24:AY:205:TYR:C	2.56	0.48
25:B0:5:LYS:NZ	25:B0:5:LYS:HB3	2.29	0.48
30:B5:2:ALA:CA	35:BA:2015:A:C1'	2.86	0.48
32:B7:8:ASN:HD22	32:B7:9:ARG:H	1.60	0.48
32:B7:34:ARG:HH12	32:B7:39:ARG:CD	2.26	0.48
35:BA:68:G:H2'	35:BA:69:C:C6	2.47	0.48
35:BA:229:A:OP1	35:BA:229:A:H8	1.96	0.48
35:BA:247:G:H4'	35:BA:386:G:C5	2.48	0.48
35:BA:618:C:H2'	35:BA:619:G:O4'	2.13	0.48
35:BA:1270:C:H5''	35:BA:1271:G:O5'	2.13	0.48
35:BA:1767:C:H2'	35:BA:1768:U:O4'	2.13	0.48
35:BA:2053:G:H1	35:BA:2616:C:H42	1.60	0.48
35:BA:2115:G:H3'	35:BA:2116:G:C5'	2.43	0.48
35:BA:2135:A:H2'	35:BA:2136:C:O4'	2.13	0.48
35:BA:2470:G:C6	35:BA:2471:C:C5	3.01	0.48
38:BD:4:LYS:NZ	38:BD:21:PHE:H	2.11	0.48
42:BH:171:LEU:HD23	42:BH:172:LYS:N	2.28	0.48
44:BK:2:LYS:NZ	44:BK:2:LYS:HB2	2.28	0.48
46:BN:67:LEU:HB3	46:BN:88:GLU:HG2	1.93	0.48
48:BP:124:LYS:HD3	48:BP:143:GLY:CA	2.43	0.48
49:BQ:35:VAL:HG23	49:BQ:101:ARG:C	2.37	0.48
49:BQ:58:PHE:O	49:BQ:58:PHE:CD1	2.66	0.48
50:BR:18:LEU:HD23	50:BR:19:ALA:N	2.28	0.48
52:BT:107:ASP:CG	52:BT:108:ARG:N	2.67	0.48
52:BT:113:LYS:O	52:BT:114:LEU:HD23	2.13	0.48
58:BZ:26:GLY:O	58:BZ:27:VAL:HB	2.13	0.48
1:CA:6:G:H2'	5:CE:119:LEU:CD1	2.44	0.48
1:CA:63:C:O2'	1:CA:380:G:H4'	2.13	0.48
1:CA:201:C:C2'	1:CA:202:U:H5''	2.43	0.48
1:CA:542:G:H5'	4:CD:41:GLY:HA2	1.95	0.48
1:CA:814:A:H5'	1:CA:1511:G:H4'	1.95	0.48
1:CA:908:A:H2'	1:CA:909:A:C8	2.48	0.48
1:CA:1216:G:OP1	14:CN:2:ALA:HA	2.12	0.48
1:CA:1298:C:H5''	7:CG:114:ARG:NH2	2.28	0.48
1:CA:1485:U:O2'	1:CA:1486:G:H5'	2.12	0.48
2:CB:137:ARG:HH11	2:CB:137:ARG:HG2	1.77	0.48
3:CC:59:ARG:HG2	3:CC:64:VAL:HA	1.95	0.48
8:CH:114:THR:C	8:CH:116:LYS:H	2.21	0.48
8:CH:123:GLU:O	8:CH:126:LYS:HB3	2.12	0.48
10:CJ:4:ILE:CD1	10:CJ:74:ILE:HG13	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:45:VAL:HA	13:CM:48:LEU:CD1	2.44	0.48
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.13	0.48
16:CP:54:GLU:HA	16:CP:54:GLU:OE2	2.13	0.48
17:CQ:94:ASN:O	17:CQ:96:GLU:N	2.46	0.48
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	1.94	0.48
20:CT:74:LYS:HD3	20:CT:74:LYS:H	1.77	0.48
21:CU:8:THR:O	21:CU:9:ARG:C	2.55	0.48
22:CW:2:G:H2'	22:CW:3:C:C6	2.48	0.48
22:CW:36:A:O2'	22:CW:37:U:H5'	2.14	0.48
24:CY:9:LEU:CD2	24:CY:284:LEU:HB2	2.43	0.48
24:CY:125:ALA:C	24:CY:127:LYS:H	2.22	0.48
24:CY:231:TYR:HE2	45:DL:87:UNK:CB	2.26	0.48
26:D1:29:GLY:O	26:D1:31:GLY:N	2.46	0.48
27:D2:16:LEU:O	27:D2:20:GLU:CB	2.61	0.48
30:D5:55:ARG:NH1	50:DR:33:ARG:HD2	2.28	0.48
31:D6:6:ARG:O	31:D6:7:ILE:CB	2.61	0.48
35:DA:1233:C:H2'	35:DA:1234:U:H6	1.76	0.48
35:DA:1767:C:H2'	35:DA:1768:U:O4'	2.13	0.48
35:DA:2293:C:OP1	51:DS:92:TYR:OH	2.31	0.48
36:DB:8:U:H5'	36:DB:8:U:H6	1.78	0.48
36:DB:68:C:H2'	36:DB:69:G:C8	2.48	0.48
39:DE:36:ARG:NH2	39:DE:88:GLY:CA	2.75	0.48
39:DE:87:GLU:O	39:DE:89:ASP:N	2.46	0.48
39:DE:177:PRO:O	39:DE:178:GLU:C	2.56	0.48
40:DF:62:ARG:NH2	40:DF:64:ILE:HA	2.28	0.48
40:DF:199:TRP:O	40:DF:202:PHE:HB3	2.13	0.48
41:DG:133:LEU:HD12	41:DG:133:LEU:C	2.38	0.48
42:DH:17:VAL:O	42:DH:45:VAL:CG2	2.60	0.48
42:DH:146:ALA:O	42:DH:149:ARG:N	2.46	0.48
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.60	0.48
46:DN:132:ALA:O	46:DN:133:GLN:CB	2.61	0.48
48:DP:146:VAL:HG13	48:DP:147:LEU:N	2.27	0.48
49:DQ:68:ILE:HG23	49:DQ:103:MET:HA	1.94	0.48
51:DS:35:ILE:CD1	51:DS:99:LYS:HE3	2.42	0.48
52:DT:91:ARG:O	52:DT:117:ASP:CB	2.61	0.48
54:DV:2:PHE:O	54:DV:14:VAL:O	2.31	0.48
57:DY:52:SER:N	57:DY:53:PRO:CD	2.76	0.48
58:DZ:11:GLU:CD	58:DZ:11:GLU:H	2.21	0.48
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.29	0.48
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.12	0.48
2:AB:60:ASP:O	2:AB:64:ARG:NE	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:43:LEU:C	3:AC:45:LYS:H	2.21	0.48
3:AC:126:ARG:HD2	3:AC:128:PHE:CZ	2.48	0.48
3:AC:127:ARG:HH11	3:AC:127:ARG:HG2	1.78	0.48
4:AD:163:GLU:C	4:AD:165:MET:N	2.70	0.48
10:AJ:40:LEU:CB	10:AJ:41:PRO:HD2	2.44	0.48
11:AK:60:ALA:O	11:AK:61:ALA:C	2.57	0.48
20:AT:84:LEU:O	20:AT:86:ARG:N	2.46	0.48
24:AY:25:LYS:NZ	24:AY:86:GLY:HA2	2.27	0.48
24:AY:77:HIS:CD2	24:AY:277:VAL:HG21	2.48	0.48
24:AY:122:TRP:CZ2	24:AY:159:ALA:HB2	2.49	0.48
24:AY:303:PRO:HA	24:AY:331:TYR:O	2.12	0.48
24:AY:314:PHE:CD1	24:AY:315:LYS:HB2	2.48	0.48
24:AY:510:VAL:HG11	24:AY:567:LEU:HD13	1.96	0.48
24:AY:518:PRO:HD2	24:AY:521:SER:OG	2.13	0.48
24:AY:686:LYS:HD3	24:AY:686:LYS:C	2.39	0.48
26:B1:82:LEU:C	26:B1:83:GLU:CG	2.86	0.48
28:B3:46:ASN:O	28:B3:47:VAL:C	2.54	0.48
35:BA:90:U:H3'	35:BA:90:U:O2	2.13	0.48
35:BA:295:G:O2'	35:BA:296:C:H5'	2.13	0.48
35:BA:428:A:H3'	35:BA:429:A:C8	2.47	0.48
35:BA:443:A:H3'	40:BF:45:ARG:NH2	2.27	0.48
35:BA:688:U:C4'	35:BA:1780:A:C2	2.97	0.48
35:BA:938:G:H2'	35:BA:939:G:H8	1.78	0.48
35:BA:999:U:OP2	35:BA:1153:C:OP2	2.31	0.48
35:BA:1028:A:H61	35:BA:1125:G:H2'	1.77	0.48
35:BA:1047:G:O2'	35:BA:1110:G:N2	2.46	0.48
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.48	0.48
35:BA:2205:C:H2'	35:BA:2205:C:O2	2.12	0.48
35:BA:2678:C:O2'	35:BA:2679:A:H5'	2.14	0.48
35:BA:2754:U:H2'	35:BA:2756:U:OP1	2.12	0.48
38:BD:43:ARG:HB3	38:BD:54:ARG:CB	2.42	0.48
38:BD:77:ALA:O	38:BD:116:GLN:HG3	2.12	0.48
38:BD:183:ARG:HH11	38:BD:183:ARG:CG	2.14	0.48
38:BD:259:THR:O	38:BD:260:ARG:O	2.32	0.48
40:BF:150:GLY:HA2	40:BF:172:TRP:CE3	2.49	0.48
42:BH:38:SER:C	42:BH:40:GLU:H	2.21	0.48
44:BK:121:GLU:O	44:BK:125:ARG:HG3	2.13	0.48
48:BP:140:ALA:O	48:BP:141:ALA:HB3	2.12	0.48
49:BQ:45:GLN:H	49:BQ:45:GLN:HE21	1.54	0.48
56:BX:7:VAL:HB	56:BX:8:ILE:HD12	1.95	0.48
58:BZ:9:TYR:HE2	58:BZ:61:LEU:HD13	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:92:SER:HB2	58:BZ:93:ASP:H	1.36	0.48
1:CA:174:C:O2'	1:CA:175:C:H5'	2.13	0.48
1:CA:509:A:H2'	1:CA:509:A:N3	2.27	0.48
1:CA:779:C:H2'	1:CA:780:A:O4'	2.14	0.48
1:CA:1047:G:H5''	14:CN:4:LYS:HD3	1.96	0.48
1:CA:1405:G:H21	1:CA:1518:A:H1'	1.77	0.48
1:CA:1444:C:H6	1:CA:1444:C:O5'	1.96	0.48
2:CB:187:LEU:HD22	2:CB:201:ILE:O	2.14	0.48
3:CC:78:GLY:HA3	3:CC:83:ARG:HB3	1.96	0.48
5:CE:28:PHE:CD2	5:CE:51:VAL:HG22	2.48	0.48
12:CL:41:ARG:HG2	12:CL:42:THR:N	2.23	0.48
19:CS:62:ILE:O	19:CS:62:ILE:HG13	2.12	0.48
24:CY:13:ARG:NH1	24:CY:277:VAL:HG23	2.27	0.48
24:CY:92:ILE:CB	24:CY:405:PRO:HG2	2.43	0.48
24:CY:137:ASN:ND2	24:CY:263:ALA:CB	2.76	0.48
24:CY:208:GLN:O	24:CY:209:ALA:O	2.31	0.48
24:CY:312:LEU:HD11	24:CY:401:SER:OG	2.13	0.48
24:CY:610:VAL:O	24:CY:610:VAL:HG23	2.12	0.48
26:D1:67:ILE:N	26:D1:68:PRO:CD	2.71	0.48
31:D6:8:LYS:HZ1	35:DA:2285:C:H5	1.53	0.48
31:D6:42:TRP:CH2	35:DA:643:A:N7	2.81	0.48
32:D7:11:LYS:HE2	35:DA:686:G:H5''	1.95	0.48
33:D8:50:LEU:O	33:D8:52:LYS:N	2.34	0.48
35:DA:112:U:C2'	35:DA:113:G:H5'	2.44	0.48
35:DA:230:U:O2'	35:DA:231:C:H5'	2.12	0.48
35:DA:295:G:O2'	35:DA:296:C:H5'	2.13	0.48
35:DA:363(F):A:H1'	35:DA:364:C:H5	1.78	0.48
35:DA:557:U:H2'	35:DA:558:G:H8	1.77	0.48
35:DA:729:G:OP2	38:DD:13:ARG:NH1	2.46	0.48
35:DA:739:G:HO2'	35:DA:740:U:H6	1.60	0.48
35:DA:755:C:H2'	35:DA:756:C:C6	2.49	0.48
35:DA:760:G:C2'	35:DA:761:A:H5'	2.44	0.48
35:DA:777:A:H2'	35:DA:778:G:H8	1.77	0.48
35:DA:786:C:C2'	35:DA:787:U:H5'	2.43	0.48
35:DA:821:A:O2'	35:DA:945:A:H3'	2.13	0.48
35:DA:1141:U:H1'	35:DA:1142(A):A:C2	2.48	0.48
35:DA:1491:G:H21	35:DA:1492:G:H1'	1.77	0.48
35:DA:1721:G:O6	35:DA:1739:U:H5'	2.14	0.48
35:DA:1788:C:H2'	35:DA:1789:A:H8	1.77	0.48
40:DF:89:VAL:O	40:DF:91:GLY:N	2.43	0.48
42:DH:17:VAL:HB	42:DH:45:VAL:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:83:TYR:CB	42:DH:134:SER:HA	2.38	0.48
47:DO:108:GLU:OE2	47:DO:108:GLU:N	2.44	0.48
48:DP:64:LYS:O	48:DP:66:GLY:N	2.40	0.48
55:DW:6:ILE:HG13	55:DW:104:THR:HG23	1.95	0.48
58:DZ:17:ALA:HA	58:DZ:20:ARG:HD3	1.95	0.48
58:DZ:55:HIS:CE1	58:DZ:135:GLU:OE2	2.65	0.48
1:AA:603:U:H2'	1:AA:604:G:H8	1.77	0.48
1:AA:779:C:H2'	1:AA:780:A:O4'	2.13	0.48
1:AA:819:A:H4'	1:AA:820:U:OP2	2.13	0.48
1:AA:858:G:O2'	1:AA:859:A:H5''	2.13	0.48
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.95	0.48
1:AA:1030:C:N4	1:AA:1032:G:C2	2.82	0.48
1:AA:1124:G:C5'	10:AJ:35:SER:HB2	2.43	0.48
2:AB:44:LEU:H	2:AB:44:LEU:CD1	2.12	0.48
9:AI:26:VAL:CG2	9:AI:61:ALA:HB3	2.39	0.48
12:AL:27:LEU:CG	12:AL:62:SER:HB2	2.43	0.48
20:AT:33:ILE:HD13	20:AT:63:ILE:HA	1.94	0.48
24:AY:113:GLY:O	24:AY:115:GLU:N	2.42	0.48
24:AY:635:GLU:CD	24:AY:635:GLU:N	2.71	0.48
24:AY:646:PHE:O	24:AY:647:VAL:HG13	2.13	0.48
31:B6:10:LEU:HB3	33:B8:34:TRP:HD1	1.78	0.48
31:B6:15:GLU:O	31:B6:16:CYS:O	2.30	0.48
35:BA:177:G:H3'	35:BA:178:G:H8	1.78	0.48
35:BA:278:A:C2	35:BA:279:C:C2	3.01	0.48
35:BA:322:A:P	40:BF:169:ASN:HD22	2.37	0.48
35:BA:453:C:H4'	35:BA:472:A:N6	2.29	0.48
35:BA:588:U:H2'	35:BA:589:C:C6	2.47	0.48
35:BA:636:G:H2'	48:BP:115:LEU:HD12	1.95	0.48
35:BA:1081:U:H4'	44:BK:117:THR:CG2	2.44	0.48
35:BA:1210:A:H5''	35:BA:1212:G:O4'	2.13	0.48
35:BA:1275:A:C4	50:BR:16:HIS:ND1	2.81	0.48
35:BA:1285:G:C2'	35:BA:1286:A:H5'	2.38	0.48
35:BA:1719:G:O2'	35:BA:1720:U:H5'	2.13	0.48
35:BA:1899:G:N2	35:BA:1902:C:C4	2.80	0.48
35:BA:2320:A:C2	35:BA:2333:A:C8	3.01	0.48
35:BA:2352:A:H2'	35:BA:2353:G:H5'	1.95	0.48
37:BC:90:ALA:HA	37:BC:155:ARG:HH12	1.77	0.48
38:BD:165:ILE:HD13	38:BD:175:LEU:HD21	1.95	0.48
40:BF:160:ASN:HD22	40:BF:160:ASN:C	2.21	0.48
40:BF:174:VAL:HG21	40:BF:189:THR:CG2	2.42	0.48
40:BF:206:ILE:HG22	40:BF:207:GLY:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:58:GLN:C	41:BG:60:LEU:H	2.20	0.48
41:BG:133:LEU:CD1	41:BG:157:ILE:HB	2.43	0.48
41:BG:153:ARG:HB3	41:BG:153:ARG:HH11	1.79	0.48
42:BH:41:MET:SD	42:BH:53:GLU:N	2.86	0.48
42:BH:144:VAL:HA	42:BH:147:ASN:HB2	1.94	0.48
46:BN:15:LEU:HD23	46:BN:53:VAL:HB	1.94	0.48
50:BR:38:VAL:CB	50:BR:39:PRO:HD3	2.36	0.48
53:BU:10:ARG:O	53:BU:12:ARG:N	2.47	0.48
58:BZ:17:ALA:HA	58:BZ:20:ARG:HG2	1.94	0.48
58:BZ:29:TYR:HA	58:BZ:33:LEU:O	2.13	0.48
1:CA:505:G:H5'	1:CA:534:U:H2'	1.96	0.48
1:CA:554:C:H2'	1:CA:555:C:C6	2.49	0.48
1:CA:1152:A:OP1	10:CJ:68:HIS:CD2	2.65	0.48
2:CB:17:PHE:O	2:CB:18:GLY:C	2.56	0.48
3:CC:69:HIS:HA	3:CC:104:GLN:HB2	1.95	0.48
4:CD:159:ARG:O	4:CD:163:GLU:N	2.46	0.48
10:CJ:94:VAL:CG1	10:CJ:95:GLU:N	2.76	0.48
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.94	0.48
12:CL:8:ASN:O	12:CL:12:ARG:HG3	2.13	0.48
12:CL:51:ALA:O	12:CL:52:LEU:HD23	2.13	0.48
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.35	0.48
20:CT:30:LYS:HZ2	20:CT:34:LYS:HE3	1.77	0.48
24:CY:74:TRP:CD1	24:CY:273:LEU:HB3	2.49	0.48
24:CY:315:LYS:NZ	24:CY:317:MET:HG2	2.27	0.48
24:CY:519:ARG:NH1	24:CY:678:GLU:N	2.54	0.48
24:CY:580:MET:O	24:CY:580:MET:HG2	2.12	0.48
29:D4:2:LYS:HB2	36:DB:40:U:C4	2.47	0.48
31:D6:42:TRP:NE1	35:DA:643:A:OP1	2.46	0.48
35:DA:25:U:H2'	35:DA:26:G:O4'	2.13	0.48
35:DA:229:A:OP1	35:DA:229:A:H8	1.95	0.48
35:DA:465:G:H2'	35:DA:466:A:C8	2.49	0.48
35:DA:537:C:H6	35:DA:537:C:O5'	1.96	0.48
35:DA:900:A:H5'	35:DA:900:A:C8	2.44	0.48
35:DA:1081:U:H4'	44:DK:117:THR:CG2	2.42	0.48
35:DA:1301:A:O2'	35:DA:1302:A:O5'	2.31	0.48
35:DA:1666:G:O3'	47:DO:6:THR:HG23	2.13	0.48
35:DA:1799:G:H5'	35:DA:1819:A:N6	2.28	0.48
35:DA:1930:G:C2'	35:DA:1931:U:OP2	2.61	0.48
35:DA:2137:C:H2'	35:DA:2138:C:C6	2.49	0.48
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.48	0.48
35:DA:2229:C:O2'	35:DA:2230:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2309:A:C2'	35:DA:2310:A:H5''	2.43	0.48
36:DB:57:A:C4	41:DG:29:TRP:HB2	2.49	0.48
37:DC:65:LEU:HD11	37:DC:162:ILE:HD13	1.96	0.48
37:DC:74:ARG:N	37:DC:112:ASP:HB2	2.27	0.48
38:DD:8:PRO:C	38:DD:10:THR:H	2.20	0.48
38:DD:39:LYS:HB2	38:DD:62:TYR:HB2	1.95	0.48
38:DD:45:ASN:CG	38:DD:46:GLN:H	2.21	0.48
40:DF:41:LEU:HD23	40:DF:44:ARG:HE	1.79	0.48
40:DF:170:LEU:N	40:DF:170:LEU:HD22	2.28	0.48
42:DH:76:VAL:C	42:DH:78:GLY:H	2.21	0.48
44:DK:75:SER:C	44:DK:78:ILE:HG22	2.38	0.48
44:DK:121:GLU:O	44:DK:125:ARG:HG3	2.14	0.48
46:DN:3:THR:CG2	46:DN:5:VAL:HG23	2.42	0.48
46:DN:9:VAL:HG12	46:DN:10:GLU:H	1.77	0.48
48:DP:101:VAL:HG12	48:DP:106:LEU:CB	2.41	0.48
49:DQ:134:ARG:HH11	49:DQ:134:ARG:HG3	1.77	0.48
50:DR:21:TYR:OH	50:DR:43:GLU:HG2	2.13	0.48
52:DT:108:ARG:HB2	52:DT:108:ARG:HH11	1.78	0.48
58:DZ:16:SER:OG	58:DZ:17:ALA:N	2.46	0.48
1:AA:948:C:H2'	1:AA:949:A:H8	1.78	0.48
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.49	0.48
1:AA:1147:C:O2'	9:AI:16:ARG:HD2	2.14	0.48
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.95	0.48
1:AA:1345:U:OP1	9:AI:120:ARG:NH1	2.46	0.48
4:AD:96:LEU:O	4:AD:97:LEU:C	2.56	0.48
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.47	0.48
7:AG:5:ARG:N	7:AG:5:ARG:HD2	2.28	0.48
9:AI:5:TYR:HD2	9:AI:17:VAL:O	1.96	0.48
10:AJ:63:PHE:HA	14:AN:59:ALA:CB	2.43	0.48
11:AK:29:ILE:HB	11:AK:44:SER:CB	2.44	0.48
13:AM:116:THR:CG2	13:AM:117:VAL:N	2.76	0.48
14:AN:60:SER:O	14:AN:61:TRP:HB3	2.14	0.48
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	1.95	0.48
21:AU:10:ARG:O	21:AU:13:ILE:N	2.46	0.48
24:AY:422:GLU:C	24:AY:424:LEU:N	2.68	0.48
24:AY:518:PRO:O	24:AY:520:GLY:N	2.46	0.48
24:AY:549:ALA:HB2	24:AY:587:SER:OG	2.13	0.48
61:AY:702:FUA:O1	61:AY:702:FUA:C1	2.60	0.48
31:B6:11:LEU:HD23	31:B6:51:GLU:CG	2.44	0.48
31:B6:29:ASN:CG	31:B6:30:THR:N	2.70	0.48
34:B9:26:ILE:HG22	34:B9:27:CYS:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:654(O):G:H2'	35:BA:654(P):C:C6	2.48	0.48
35:BA:654(P):C:H2'	35:BA:654(Q):C:C5'	2.44	0.48
35:BA:1972:A:H2'	35:BA:1973:G:C8	2.47	0.48
35:BA:2389:G:C5'	35:BA:2390:U:H5'	2.41	0.48
35:BA:2539:C:O2	35:BA:2539:C:H2'	2.12	0.48
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.13	0.48
36:BB:20:C:C2'	36:BB:21:G:C5'	2.91	0.48
40:BF:18:ARG:CZ	40:BF:199:TRP:CZ3	2.97	0.48
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.76	0.48
41:BG:63:ILE:C	41:BG:63:ILE:CD1	2.86	0.48
42:BH:173:PRO:O	42:BH:174:GLY:C	2.57	0.48
48:BP:85:LEU:HA	48:BP:88:LEU:HB3	1.96	0.48
49:BQ:60:ARG:HB2	49:BQ:60:ARG:CZ	2.43	0.48
49:BQ:62:GLY:CA	58:BZ:116:VAL:HG21	2.43	0.48
51:BS:58:LEU:CD1	51:BS:59:LYS:H	2.26	0.48
52:BT:75:ILE:N	52:BT:75:ILE:CD1	2.76	0.48
53:BU:52:ARG:O	53:BU:55:ARG:HG2	2.13	0.48
58:BZ:10:ARG:NH2	58:BZ:26:GLY:O	2.45	0.48
1:CA:78:G:H1	1:CA:91:C:N4	2.11	0.48
1:CA:404:U:H2'	1:CA:405:U:C6	2.48	0.48
1:CA:703:G:C2'	1:CA:704:A:OP2	2.61	0.48
1:CA:1343:G:H1'	9:CI:121:ARG:NH1	2.28	0.48
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.79	0.48
1:CA:1459:C:H2'	1:CA:1460:A:H8	1.75	0.48
3:CC:43:LEU:C	3:CC:45:LYS:H	2.22	0.48
5:CE:68:GLU:O	5:CE:68:GLU:HG3	2.11	0.48
10:CJ:4:ILE:HB	10:CJ:74:ILE:HG13	1.95	0.48
10:CJ:81:THR:C	10:CJ:83:GLU:N	2.69	0.48
24:CY:164:MET:HG3	24:CY:259:PHE:CZ	2.49	0.48
24:CY:455:GLY:O	24:CY:456:GLU:C	2.55	0.48
33:D8:4:MET:CE	33:D8:61:LEU:HD22	2.44	0.48
33:D8:42:ARG:C	33:D8:44:LYS:H	2.19	0.48
33:D8:55:ALA:O	33:D8:59:LYS:HE2	2.12	0.48
35:DA:271(Z):C:H1'	35:DA:272(C):G:H1'	1.96	0.48
35:DA:445:C:O2'	35:DA:446:G:H5'	2.13	0.48
35:DA:453:C:H4'	35:DA:472:A:N6	2.28	0.48
35:DA:1141:U:OP2	46:DN:63:THR:OG1	2.22	0.48
35:DA:1169:G:C2	35:DA:1181:C:N3	2.81	0.48
35:DA:2135:A:H2'	35:DA:2136:C:O4'	2.13	0.48
36:DB:15:A:C3'	36:DB:16:G:H5'	2.42	0.48
37:DC:196:ALA:O	37:DC:199:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:35:LYS:NZ	38:DD:35:LYS:HB3	2.28	0.48
38:DD:96:HIS:CE1	38:DD:102:LYS:HE2	2.48	0.48
38:DD:227:ASN:HB3	38:DD:228:PRO:HD2	1.94	0.48
39:DE:51:PHE:CD1	39:DE:52:LEU:HD12	2.48	0.48
39:DE:76:ARG:O	39:DE:77:ILE:O	2.32	0.48
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.37	0.48
39:DE:170:LEU:H	39:DE:170:LEU:CD1	2.25	0.48
41:DG:181:ARG:HH11	41:DG:181:ARG:CG	2.26	0.48
44:DK:88:ALA:O	44:DK:90:LYS:N	2.44	0.48
46:DN:135:PRO:O	46:DN:136:GLU:C	2.56	0.48
47:DO:9:GLU:O	47:DO:83:ALA:HA	2.13	0.48
50:DR:12:ARG:HB3	50:DR:16:HIS:HD2	1.79	0.48
52:DT:8:LYS:C	52:DT:10:VAL:N	2.72	0.48
53:DU:12:ARG:O	53:DU:13:LYS:C	2.56	0.48
53:DU:47:TYR:O	53:DU:51:LYS:HG2	2.13	0.48
53:DU:82:GLY:O	53:DU:84:LYS:N	2.46	0.48
53:DU:82:GLY:C	53:DU:84:LYS:N	2.69	0.48
55:DW:36:LEU:HD12	55:DW:48:ALA:HA	1.96	0.48
57:DY:29:GLU:OE1	57:DY:29:GLU:N	2.46	0.48
1:AA:60:A:C5'	1:AA:331:G:H22	2.26	0.48
1:AA:155:C:H2'	1:AA:156:G:H8	1.78	0.48
1:AA:538:G:OP2	12:AL:115:LYS:HG3	2.13	0.48
1:AA:771:G:H2'	1:AA:772:U:C6	2.48	0.48
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.27	0.48
1:AA:967:C:H2'	1:AA:968:A:C8	2.48	0.48
1:AA:1122:U:O2'	1:AA:1123:A:H5'	2.13	0.48
1:AA:1123:A:O3'	10:AJ:36:GLY:HA3	2.14	0.48
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.13	0.48
3:AC:155:GLY:O	3:AC:156:ARG:CB	2.61	0.48
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.13	0.48
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.46	0.48
13:AM:97:PRO:HA	13:AM:110:ARG:CD	2.35	0.48
20:AT:18:GLN:O	20:AT:19:SER:C	2.56	0.48
24:AY:207:ASP:O	24:AY:208:GLN:C	2.56	0.48
24:AY:219:VAL:C	24:AY:221:ALA:N	2.72	0.48
24:AY:250:THR:O	24:AY:253:LEU:N	2.35	0.48
25:B0:34:GLY:O	25:B0:35:ASN:C	2.55	0.48
27:B2:17:SER:HB2	27:B2:18:PRO:HD2	1.96	0.48
27:B2:39:ALA:HA	27:B2:45:SER:HB3	1.95	0.48
33:B8:56:GLU:C	33:B8:58:ILE:H	2.22	0.48
35:BA:325:G:O2'	35:BA:326:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:900:A:H5'	35:BA:900:A:C8	2.44	0.48
35:BA:1362:C:H2'	35:BA:1363:C:H6	1.78	0.48
35:BA:1630:G:C2	35:BA:1637:A:C2	3.01	0.48
35:BA:1748:G:H5'	35:BA:1748:G:C8	2.40	0.48
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.29	0.48
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.13	0.48
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.48	0.48
35:BA:2464:C:O2'	35:BA:2465:C:O5'	2.32	0.48
36:BB:81:G:C2	36:BB:82:G:N7	2.82	0.48
38:BD:35:LYS:HD2	38:BD:36:PRO:HA	1.93	0.48
39:BE:170:LEU:H	39:BE:170:LEU:CD1	2.24	0.48
41:BG:7:LEU:HB3	41:BG:100:TRP:CE3	2.48	0.48
41:BG:55:LYS:C	41:BG:57:ALA:N	2.66	0.48
46:BN:42:TRP:CZ3	46:BN:48:MET:HE1	2.49	0.48
48:BP:77:ARG:HB2	48:BP:78:PRO:CD	2.40	0.48
50:BR:100:LEU:N	50:BR:100:LEU:HD13	2.28	0.48
52:BT:89:VAL:C	52:BT:91:ARG:H	2.21	0.48
53:BU:112:ARG:HH11	53:BU:112:ARG:CG	2.26	0.48
54:BV:19:LYS:HE2	54:BV:19:LYS:HA	1.96	0.48
55:BW:6:ILE:HG13	55:BW:104:THR:HG23	1.95	0.48
58:BZ:5:LEU:HB3	58:BZ:59:LEU:HD23	1.95	0.48
1:CA:177:C:H2'	1:CA:178:C:H6	1.79	0.48
1:CA:967:C:H2'	1:CA:968:A:C8	2.49	0.48
1:CA:1030(C):G:H2'	1:CA:1030(D):A:C8	2.47	0.48
1:CA:1316:G:H4'	14:CN:18:VAL:HG12	1.95	0.48
1:CA:1325:C:C2	1:CA:1326:C:C5	3.01	0.48
2:CB:51:LEU:CD2	2:CB:201:ILE:HG23	2.43	0.48
2:CB:144:ARG:O	2:CB:145:LEU:C	2.57	0.48
3:CC:5:ILE:HD13	3:CC:5:ILE:O	2.14	0.48
12:CL:6:THR:H	12:CL:9:GLN:NE2	2.12	0.48
12:CL:27:LEU:CG	12:CL:62:SER:HB2	2.43	0.48
13:CM:72:ALA:O	13:CM:73:GLU:C	2.54	0.48
13:CM:74:VAL:CA	13:CM:77:ASN:HD22	2.27	0.48
15:CO:43:LEU:CD1	15:CO:56:LEU:HD22	2.44	0.48
16:CP:67:THR:HB	16:CP:70:ALA:HB2	1.96	0.48
18:CR:87:ARG:CB	18:CR:87:ARG:HH11	2.26	0.48
20:CT:50:GLU:HG3	20:CT:51:GLU:H	1.77	0.48
24:CY:73:PHE:HZ	24:CY:78:ARG:NH2	2.11	0.48
24:CY:453:GLY:HA3	24:CY:459:LEU:CD2	2.43	0.48
24:CY:538:TYR:CD1	24:CY:579:GLU:HA	2.49	0.48
26:D1:6:GLU:OE1	26:D1:61:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:47:ASN:O	27:D2:48:HIS:C	2.55	0.48
28:D3:28:LEU:CD2	28:D3:35:ARG:HD2	2.44	0.48
28:D3:46:ASN:O	28:D3:49:LYS:N	2.47	0.48
30:D5:56:LYS:O	30:D5:57:VAL:O	2.31	0.48
35:DA:245:G:H5'	48:DP:73:GLY:HA2	1.94	0.48
35:DA:350:U:H2'	35:DA:351:G:O4'	2.14	0.48
35:DA:487:C:H1'	55:DW:53:SER:HA	1.96	0.48
35:DA:552:G:O2'	35:DA:553:G:H5'	2.13	0.48
35:DA:733:G:C6	35:DA:761:A:N7	2.81	0.48
35:DA:781:A:H2'	35:DA:1777:U:O2'	2.13	0.48
35:DA:1045:A:N3	35:DA:1047:G:N2	2.61	0.48
35:DA:1052:C:O2'	35:DA:1053:C:O5'	2.32	0.48
35:DA:1100:C:H2'	35:DA:1100:C:O2	2.14	0.48
35:DA:1270:C:H5''	35:DA:1271:G:O5'	2.14	0.48
36:DB:54:G:H2'	36:DB:55:U:H6	1.78	0.48
39:DE:76:ARG:O	39:DE:77:ILE:C	2.57	0.48
40:DF:9:ILE:HG12	40:DF:14:PRO:HA	1.94	0.48
40:DF:150:GLY:HA2	40:DF:172:TRP:CE3	2.48	0.48
41:DG:51:ARG:NH1	41:DG:53:LEU:HD21	2.28	0.48
42:DH:38:SER:C	42:DH:40:GLU:H	2.22	0.48
42:DH:144:VAL:HA	42:DH:147:ASN:HB2	1.95	0.48
48:DP:46:LYS:HG2	48:DP:52:GLU:HG2	1.96	0.48
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.22	0.48
49:DQ:37:LEU:HD12	49:DQ:128:LYS:HB3	1.96	0.48
50:DR:51:LEU:H	50:DR:51:LEU:HD12	1.78	0.48
52:DT:28:VAL:HG13	52:DT:46:GLU:CA	2.41	0.48
53:DU:115:ALA:C	53:DU:117:GLN:H	2.20	0.48
54:DV:2:PHE:O	54:DV:3:ALA:CB	2.62	0.48
58:DZ:109:ALA:O	58:DZ:111:VAL:N	2.47	0.48
1:AA:424:G:O2'	1:AA:425:G:H5'	2.13	0.48
1:AA:430:A:OP2	4:AD:8:VAL:HG22	2.13	0.48
1:AA:542:G:H5'	4:AD:41:GLY:HA2	1.96	0.48
3:AC:84:ILE:O	3:AC:84:ILE:HG12	2.14	0.48
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.95	0.48
4:AD:43:HIS:O	4:AD:45:GLN:N	2.47	0.48
5:AE:51:VAL:O	5:AE:52:PRO:C	2.57	0.48
10:AJ:8:LEU:HB2	10:AJ:70:ARG:O	2.13	0.48
12:AL:75:HIS:CD2	12:AL:77:LEU:HD12	2.47	0.48
13:AM:3:ARG:HB2	29:B4:34:GLU:HG2	1.94	0.48
24:AY:17:ILE:N	24:AY:17:ILE:CD1	2.77	0.48
24:AY:128:TYR:O	24:AY:129:LYS:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:170:ARG:HH22	24:AY:208:GLN:HE22	1.62	0.48
24:AY:351:ARG:O	24:AY:351:ARG:HG3	2.13	0.48
24:AY:416:LYS:NZ	24:AY:417:THR:HG23	2.29	0.48
24:AY:512:ILE:CD1	24:AY:512:ILE:N	2.74	0.48
24:AY:539:ILE:HD12	24:AY:567:LEU:HD21	1.96	0.48
26:B1:86:SER:O	26:B1:87:PRO:C	2.56	0.48
29:B4:48:ARG:O	29:B4:48:ARG:HG2	2.09	0.48
31:B6:11:LEU:C	31:B6:11:LEU:HD13	2.37	0.48
32:B7:27:GLY:HA2	32:B7:30:VAL:HG23	1.96	0.48
33:B8:33:ASN:ND2	33:B8:33:ASN:N	2.41	0.48
33:B8:56:GLU:C	33:B8:58:ILE:N	2.70	0.48
35:BA:640:C:C4	35:BA:641:C:N4	2.82	0.48
35:BA:654(S):G:C5	35:BA:654(T):C:H1'	2.48	0.48
35:BA:709:U:H2'	35:BA:710:G:H8	1.77	0.48
35:BA:769:G:H5'	35:BA:1379:A:N6	2.28	0.48
35:BA:849:A:C8	35:BA:850:C:C5	3.02	0.48
35:BA:958:U:C6	35:BA:958:U:C3'	2.96	0.48
35:BA:1141:U:H1'	35:BA:1142(A):A:C2	2.48	0.48
35:BA:1328:G:H2'	35:BA:1330:C:C4	2.49	0.48
35:BA:1472:A:O2'	35:BA:1473:G:H5'	2.13	0.48
35:BA:1666:G:O3'	47:BO:6:THR:HG23	2.14	0.48
35:BA:1909:C:O2'	35:BA:1910:G:H5'	2.14	0.48
35:BA:2293:C:OP1	51:BS:92:TYR:OH	2.31	0.48
36:BB:91:C:H5'	49:BQ:17:LEU:O	2.13	0.48
37:BC:115:VAL:CG1	37:BC:145:THR:HG23	2.42	0.48
38:BD:26:LYS:HE2	38:BD:26:LYS:N	2.27	0.48
38:BD:91:ARG:O	38:BD:107:ALA:HB3	2.14	0.48
39:BE:108:SER:O	39:BE:162:ALA:HA	2.14	0.48
39:BE:177:PRO:HG2	39:BE:178:GLU:H	1.78	0.48
40:BF:121:GLY:C	40:BF:123:LEU:H	2.22	0.48
41:BG:53:LEU:N	41:BG:53:LEU:HD22	2.29	0.48
41:BG:82:LEU:HD21	41:BG:87:PRO:HG3	1.95	0.48
48:BP:17:LYS:O	48:BP:17:LYS:HG2	2.13	0.48
48:BP:112:LEU:N	48:BP:128:HIS:HD2	2.12	0.48
49:BQ:68:ILE:HG23	49:BQ:103:MET:HA	1.94	0.48
50:BR:9:LYS:C	50:BR:10:LEU:HG	2.39	0.48
51:BS:106:ARG:O	51:BS:107:GLU:HB2	2.13	0.48
53:BU:49:HIS:O	53:BU:52:ARG:HB2	2.14	0.48
53:BU:95:LEU:O	53:BU:98:LEU:HG	2.13	0.48
53:BU:113:ALA:O	53:BU:115:ALA:N	2.46	0.48
55:BW:24:ILE:HG21	55:BW:36:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:31:LEU:HD23	57:BY:36:ALA:H	1.79	0.48
57:BY:95:LYS:HD3	57:BY:100:ALA:CB	2.44	0.48
58:BZ:71:VAL:CG1	58:BZ:74:VAL:HG23	2.43	0.48
58:BZ:130:PRO:O	58:BZ:133:ILE:CD1	2.61	0.48
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.13	0.48
1:CA:819:A:H4'	1:CA:820:U:OP2	2.14	0.48
1:CA:1010:G:N1	1:CA:1020:U:H1'	2.28	0.48
1:CA:1161:C:O2'	1:CA:1162:C:H5'	2.13	0.48
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.95	0.48
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.95	0.48
2:CB:233:SER:CB	2:CB:234:PRO:HD2	2.44	0.48
8:CH:85:ARG:HH12	8:CH:134:ILE:HG23	1.79	0.48
11:CK:15:ALA:HA	11:CK:76:GLY:O	2.12	0.48
12:CL:86:ARG:HG2	12:CL:86:ARG:O	2.14	0.48
22:CW:11:A:O2'	22:CW:12:G:H5'	2.14	0.48
25:D0:5:LYS:HB3	25:D0:5:LYS:NZ	2.28	0.48
25:D0:12:ASN:C	25:D0:14:ARG:H	2.21	0.48
27:D2:7:ARG:HH11	27:D2:7:ARG:HG3	1.79	0.48
27:D2:65:ASN:HD21	35:DA:112:U:C5'	2.27	0.48
28:D3:44:ARG:O	28:D3:48:GLU:HG2	2.14	0.48
35:DA:272(G):C:C3'	35:DA:272(H):C:H5''	2.44	0.48
35:DA:385:C:O2	48:DP:71:VAL:HG21	2.14	0.48
35:DA:578:A:H5'	35:DA:1254:A:OP1	2.14	0.48
35:DA:1186:G:C2'	35:DA:1187:G:H5'	2.43	0.48
35:DA:1909:C:O2'	35:DA:1910:G:H5'	2.13	0.48
35:DA:2097:C:O2'	35:DA:2098:U:H5'	2.13	0.48
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.49	0.48
35:DA:2369:A:H2'	35:DA:2370:G:H8	1.79	0.48
35:DA:2754:U:H2'	35:DA:2756:U:OP1	2.14	0.48
39:DE:38:THR:C	39:DE:40:GLU:H	2.21	0.48
39:DE:108:SER:O	39:DE:162:ALA:HA	2.13	0.48
48:DP:106:LEU:HD11	48:DP:112:LEU:HD23	1.94	0.48
49:DQ:52:VAL:HG12	49:DQ:53:ALA:N	2.28	0.48
51:DS:85:VAL:O	51:DS:106:ARG:HG2	2.13	0.48
51:DS:101:LEU:C	51:DS:101:LEU:CD1	2.87	0.48
52:DT:11:GLU:O	52:DT:13:ARG:N	2.37	0.48
52:DT:102:ILE:HG13	52:DT:103:ARG:N	2.28	0.48
53:DU:96:ALA:C	53:DU:98:LEU:H	2.20	0.48
56:DX:71:GLY:C	56:DX:72:LYS:HG3	2.38	0.48
58:DZ:54:HIS:HA	58:DZ:98:MET:HE1	1.95	0.48
1:AA:509:A:N1	1:AA:510:A:C2	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:703:G:C2'	1:AA:704:A:OP2	2.61	0.48
1:AA:973:G:O4'	10:AJ:55:LYS:HE2	2.13	0.48
1:AA:986:A:H2'	1:AA:987:G:C8	2.48	0.48
1:AA:1065:U:O2'	1:AA:1066:C:P	2.71	0.48
1:AA:1239:A:C2'	1:AA:1298:C:N4	2.74	0.48
2:AB:211:ILE:HG22	2:AB:215:LEU:HD23	1.95	0.48
3:AC:79:ARG:HB2	3:AC:79:ARG:NH1	2.14	0.48
3:AC:82:GLU:N	3:AC:82:GLU:OE2	2.47	0.48
4:AD:62:GLN:O	4:AD:66:ARG:HB2	2.13	0.48
4:AD:108:LEU:HD23	4:AD:110:PHE:CZ	2.49	0.48
5:AE:68:GLU:O	5:AE:68:GLU:HG3	2.13	0.48
7:AG:69:VAL:HG21	7:AG:104:LEU:CD2	2.43	0.48
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.27	0.48
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.56	0.48
20:AT:16:HIS:O	20:AT:19:SER:HB3	2.13	0.48
21:AU:3:LYS:HB3	21:AU:14:TRP:CD1	2.49	0.48
22:AV:3:C:N4	22:AV:70:G:H1	2.11	0.48
22:AW:15:G:H2'	22:AW:60:A:N1	2.28	0.48
24:AY:238:THR:C	24:AY:240:GLU:H	2.20	0.48
24:AY:451:ILE:HG23	24:AY:451:ILE:O	2.13	0.48
24:AY:504:ARG:O	24:AY:506:GLN:N	2.47	0.48
28:B3:31:LEU:O	28:B3:32:GLN:CB	2.62	0.48
29:B4:30:GLU:C	29:B4:31:ILE:HD12	2.38	0.48
30:B5:36:CYS:SG	30:B5:36:CYS:O	2.72	0.48
31:B6:7:ILE:N	31:B6:7:ILE:CD1	2.77	0.48
32:B7:5:TRP:CH2	35:BA:686:G:N7	2.81	0.48
35:BA:303:U:H2'	35:BA:304:G:H8	1.76	0.48
35:BA:484:C:O2'	35:BA:485:C:H5'	2.14	0.48
35:BA:544:G:H21	35:BA:547:A:H2'	1.79	0.48
35:BA:667:U:H2'	35:BA:668:G:O4'	2.13	0.48
35:BA:1598:C:H2'	35:BA:1599:C:C6	2.49	0.48
35:BA:1983:C:O2'	35:BA:1984:G:H5'	2.13	0.48
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.13	0.48
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.78	0.48
35:BA:2779:U:H5'	35:BA:2780:G:O5'	2.14	0.48
37:BC:135:ARG:C	37:BC:137:LEU:H	2.22	0.48
38:BD:13:ARG:NH1	38:BD:16:MET:SD	2.87	0.48
38:BD:227:ASN:O	38:BD:230:ASP:N	2.44	0.48
39:BE:108:SER:O	39:BE:109:LYS:C	2.55	0.48
40:BF:168:ARG:HG3	40:BF:175:THR:HB	1.95	0.48
41:BG:100:TRP:CD1	41:BG:100:TRP:H	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:100:TRP:O	41:BG:104:GLU:HB2	2.12	0.48
42:BH:17:VAL:CG1	42:BH:50:VAL:HG21	2.38	0.48
47:BO:114:ILE:H	47:BO:114:ILE:CD1	2.21	0.48
48:BP:16:ARG:HH11	48:BP:16:ARG:CB	2.25	0.48
51:BS:11:LYS:N	51:BS:11:LYS:HD2	2.29	0.48
52:BT:66:VAL:HA	52:BT:71:GLY:HA2	1.94	0.48
55:BW:44:ALA:O	55:BW:45:TYR:C	2.57	0.48
1:CA:1133:G:C4	1:CA:1142:G:N2	2.81	0.48
2:CB:77:ALA:O	2:CB:81:VAL:HG23	2.14	0.48
3:CC:140:ARG:HH11	3:CC:140:ARG:HG3	1.78	0.48
3:CC:207:VAL:HG12	3:CC:207:VAL:O	2.13	0.48
6:CF:53:ALA:C	6:CF:55:ASP:H	2.21	0.48
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.44	0.48
10:CJ:78:ASN:C	10:CJ:79:ARG:NH1	2.71	0.48
10:CJ:82:ILE:O	10:CJ:86:MET:CB	2.61	0.48
11:CK:126:ARG:O	11:CK:127:LYS:C	2.56	0.48
16:CP:28:ARG:HG2	16:CP:28:ARG:NH1	2.28	0.48
24:CY:112:GLN:HG3	24:CY:115:GLU:HA	1.96	0.48
24:CY:181:LEU:CD1	24:CY:242:LEU:HD13	2.44	0.48
25:D0:47:PRO:HB3	25:D0:51:VAL:O	2.13	0.48
27:D2:7:ARG:NH1	27:D2:7:ARG:HG3	2.27	0.48
28:D3:38:GLU:HB3	28:D3:43:ILE:HG13	1.94	0.48
29:D4:51:ASP:OD2	29:D4:52:THR:N	2.47	0.48
31:D6:12:GLU:HB3	31:D6:23:THR:HG22	1.96	0.48
34:D9:2:LYS:HD3	35:DA:2526:G:N3	2.29	0.48
35:DA:272(H):C:C2'	35:DA:272(I):U:H5''	2.43	0.48
35:DA:614(A):U:O2'	35:DA:614(B):G:H5'	2.13	0.48
35:DA:661:C:H4'	48:DP:18:ARG:HG2	1.95	0.48
35:DA:1675:C:O2	39:DE:129:HIS:HA	2.13	0.48
35:DA:1945:G:H2'	35:DA:1945:G:N3	2.29	0.48
35:DA:1956:U:C2'	35:DA:1957:C:H5'	2.44	0.48
35:DA:2406:U:N3	48:DP:72:PRO:HB2	2.28	0.48
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.14	0.48
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.29	0.48
38:DD:73:VAL:C	38:DD:75:ILE:H	2.22	0.48
38:DD:125:ILE:HG22	38:DD:125:ILE:O	2.13	0.48
39:DE:16:ARG:NH1	39:DE:171:GLU:OE2	2.47	0.48
40:DF:25:PRO:HB3	40:DF:119:ARG:HB2	1.96	0.48
41:DG:139:LEU:C	41:DG:141:PHE:H	2.22	0.48
42:DH:41:MET:SD	42:DH:53:GLU:N	2.86	0.48
42:DH:70:THR:HG22	42:DH:74:ASN:ND2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DJ:148:UNK:C	43:DJ:150:UNK:N	2.73	0.48
44:DK:39:LYS:O	44:DK:43:ALA:HB2	2.13	0.48
47:DO:32:TYR:N	47:DO:32:TYR:CD1	2.80	0.48
47:DO:87:ILE:HG22	47:DO:92:GLU:C	2.38	0.48
49:DQ:108:GLY:O	49:DQ:109:VAL:CG2	2.62	0.48
58:DZ:7:ALA:HA	58:DZ:39:VAL:HG12	1.95	0.48
58:DZ:72:ARG:HD3	58:DZ:72:ARG:HA	1.72	0.48
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.13	0.48
1:AA:1030(C):G:H2'	1:AA:1030(D):A:C8	2.48	0.48
1:AA:1134:G:N2	1:AA:1141:C:C2	2.82	0.48
3:AC:62:ASP:O	3:AC:64:VAL:N	2.45	0.48
4:AD:119:GLN:HG3	4:AD:123:HIS:NE2	2.29	0.48
8:AH:38:ILE:O	8:AH:39:LEU:C	2.57	0.48
9:AI:5:TYR:O	9:AI:84:ALA:HA	2.14	0.48
9:AI:20:ARG:O	9:AI:59:PHE:HA	2.14	0.48
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.28	0.48
17:AQ:88:TYR:O	17:AQ:89:LEU:C	2.57	0.48
24:AY:21:ILE:HG13	35:BA:2661:G:C5'	2.40	0.48
24:AY:150:ILE:C	24:AY:152:THR:N	2.69	0.48
24:AY:298:VAL:HG13	24:AY:299:VAL:N	2.26	0.48
24:AY:334:THR:CG2	24:AY:370:LYS:HG2	2.42	0.48
24:AY:406:GLU:CB	24:AY:407:PRO:CD	2.92	0.48
29:B4:1:MET:HE3	29:B4:1:MET:N	2.29	0.48
29:B4:22:ILE:HD12	29:B4:22:ILE:H	1.79	0.48
31:B6:15:GLU:HG2	31:B6:16:CYS:O	2.13	0.48
32:B7:4:THR:O	35:BA:687:C:H5'	2.14	0.48
33:B8:42:ARG:C	33:B8:44:LYS:H	2.17	0.48
34:B9:11:CYS:O	34:B9:11:CYS:SG	2.72	0.48
35:BA:182:A:O2'	35:BA:183:C:H5'	2.13	0.48
35:BA:492:A:O2'	35:BA:493:G:H5'	2.14	0.48
35:BA:859:G:N2	35:BA:917:A:OP2	2.27	0.48
35:BA:1266:G:O2'	35:BA:2012:G:O6	2.27	0.48
35:BA:1609:A:H1'	35:BA:1616:A:H1'	1.96	0.48
35:BA:1629:U:H2'	35:BA:1630:G:C8	2.48	0.48
35:BA:1654:A:C2	39:BE:113:PHE:HD1	2.32	0.48
35:BA:2282:G:O2'	35:BA:2283:C:OP2	2.29	0.48
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.14	0.48
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.49	0.48
37:BC:150:ILE:O	37:BC:154:ILE:HG13	2.14	0.48
37:BC:202:PRO:HB2	37:BC:205:ALA:HB2	1.95	0.48
38:BD:46:GLN:N	38:BD:46:GLN:OE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:81:ALA:HA	38:BD:113:VAL:CG2	2.44	0.48
39:BE:36:ARG:NH2	39:BE:88:GLY:N	2.61	0.48
39:BE:76:ARG:O	39:BE:77:ILE:C	2.56	0.48
40:BF:25:PRO:HB3	40:BF:119:ARG:HB2	1.95	0.48
41:BG:109:VAL:CG1	41:BG:142:PRO:HD3	2.42	0.48
42:BH:138:LYS:C	42:BH:140:LYS:N	2.69	0.48
46:BN:3:THR:CG2	46:BN:5:VAL:HG23	2.44	0.48
48:BP:29:LYS:HB3	48:BP:34:GLY:H	1.79	0.48
49:BQ:41:TRP:NE1	49:BQ:96:VAL:HG22	2.28	0.48
51:BS:44:LYS:O	51:BS:46:VAL:HG23	2.14	0.48
51:BS:85:VAL:O	51:BS:106:ARG:HG2	2.14	0.48
55:BW:62:HIS:O	55:BW:63:ASP:C	2.56	0.48
1:CA:489:C:H2'	1:CA:490:G:H8	1.79	0.48
1:CA:1489:G:C3'	1:CA:1490:C:H5''	2.42	0.48
3:CC:83:ARG:C	3:CC:85:ARG:N	2.69	0.48
3:CC:139:GLN:O	3:CC:140:ARG:C	2.57	0.48
4:CD:54:TYR:O	4:CD:55:ALA:C	2.57	0.48
4:CD:58:LEU:HD22	4:CD:59:ARG:NH1	2.28	0.48
4:CD:125:HIS:C	4:CD:126:ILE:HD12	2.39	0.48
9:CI:59:PHE:N	9:CI:59:PHE:CD1	2.81	0.48
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.53	0.48
11:CK:60:ALA:O	11:CK:61:ALA:C	2.56	0.48
12:CL:115:LYS:O	12:CL:117:ARG:HG3	2.14	0.48
24:CY:97:SER:O	24:CY:100:VAL:HG12	2.12	0.48
25:D0:40:GLN:HE22	25:D0:43:THR:C	2.22	0.48
25:D0:43:THR:N	35:DA:2331:G:H4'	2.23	0.48
29:D4:56:VAL:O	29:D4:56:VAL:CG1	2.56	0.48
35:DA:391:G:O2'	35:DA:392:C:H5'	2.14	0.48
35:DA:588:U:H1'	40:DF:90:PHE:HB3	1.95	0.48
35:DA:619:G:H3'	35:DA:620:G:H21	1.79	0.48
35:DA:943:U:OP2	48:DP:38:GLN:CD	2.56	0.48
35:DA:946:G:H2'	35:DA:947:G:H8	1.75	0.48
35:DA:1161:C:H2'	35:DA:1162:G:H8	1.79	0.48
35:DA:1169:G:N2	35:DA:1181:C:N3	2.62	0.48
35:DA:1275:A:N1	35:DA:1295:C:O2'	2.47	0.48
35:DA:2245:U:C5'	35:DA:2246:G:H5'	2.35	0.48
35:DA:2260:C:H2'	35:DA:2261:C:C6	2.49	0.48
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.48	0.48
35:DA:2531:A:H5''	42:DH:157:TYR:CZ	2.49	0.48
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.49	0.48
35:DA:2867:G:N7	52:DT:23:ARG:NH1	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:106:G:H5''	58:DZ:31:ARG:HB3	1.94	0.48
37:DC:164:PHE:HB2	37:DC:172:ILE:HD11	1.96	0.48
38:DD:24:ILE:CD1	38:DD:25:THR:H	2.24	0.48
39:DE:15:PHE:CE2	52:DT:80:SER:HB2	2.49	0.48
39:DE:30:PRO:O	39:DE:32:PRO:HD3	2.14	0.48
40:DF:29:ASN:O	40:DF:30:PRO:C	2.56	0.48
41:DG:83:ARG:HD2	41:DG:83:ARG:H	1.79	0.48
41:DG:110:ALA:O	41:DG:111:LEU:C	2.55	0.48
42:DH:40:GLU:HG3	42:DH:64:LEU:HD13	1.94	0.48
42:DH:120:GLY:C	42:DH:121:ILE:HG13	2.38	0.48
44:DK:98:ARG:HD2	44:DK:139:VAL:HG22	1.96	0.48
46:DN:115:ARG:HA	46:DN:118:LYS:HE2	1.94	0.48
48:DP:146:VAL:CG2	48:DP:147:LEU:H	2.11	0.48
50:DR:41:ALA:C	50:DR:43:GLU:N	2.70	0.48
51:DS:25:ARG:CG	51:DS:26:LEU:N	2.77	0.48
52:DT:62:THR:CG2	52:DT:75:ILE:HG13	2.44	0.48
53:DU:52:ARG:O	53:DU:55:ARG:HG2	2.13	0.48
55:DW:41:LYS:C	55:DW:43:GLY:H	2.21	0.48
57:DY:42:VAL:O	57:DY:65:ALA:N	2.39	0.48
58:DZ:8:TYR:N	58:DZ:8:TYR:CD1	2.81	0.48
58:DZ:17:ALA:C	58:DZ:20:ARG:HG2	2.38	0.48
58:DZ:41:LEU:O	58:DZ:43:GLU:N	2.47	0.48
1:AA:182:U:H3'	1:AA:183:G:C5'	2.44	0.48
1:AA:582:U:OP1	15:AO:68:ARG:NH2	2.47	0.48
1:AA:937:A:C2	1:AA:1379:G:O6	2.66	0.48
1:AA:1325:C:C2	1:AA:1326:C:C5	3.02	0.48
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.49	0.48
2:AB:223:ILE:O	2:AB:226:ARG:N	2.44	0.48
3:AC:129:ALA:C	3:AC:131:ARG:N	2.72	0.48
4:AD:187:ARG:HH11	4:AD:187:ARG:HG2	1.79	0.48
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.14	0.48
7:AG:72:ARG:HG3	7:AG:73:MET:HG3	1.95	0.48
14:AN:47:LEU:O	14:AN:48:ALA:C	2.56	0.48
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.43	0.48
18:AR:26:LEU:HD21	18:AR:42:ARG:NH1	2.29	0.48
19:AS:19:VAL:CG1	19:AS:44:MET:HG2	2.43	0.48
22:AW:60:A:H2'	22:AW:61:U:C5'	2.44	0.48
24:AY:73:PHE:CE2	24:AY:78:ARG:HB2	2.49	0.48
24:AY:122:TRP:HD1	24:AY:123:ARG:N	2.12	0.48
24:AY:154:GLN:CA	24:AY:158:GLY:HA2	2.43	0.48
24:AY:228:MET:HE3	24:AY:229:LEU:HG	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:523:PHE:CE1	24:AY:550:MET:SD	3.07	0.48
27:B2:59:ARG:O	27:B2:60:LEU:C	2.57	0.48
29:B4:21:VAL:HG12	29:B4:21:VAL:O	2.14	0.48
33:B8:21:LYS:HD3	33:B8:48:PHE:CE2	2.49	0.48
35:BA:64:A:H2'	35:BA:65:C:O4'	2.14	0.48
35:BA:999:U:H5''	35:BA:1154:G:O6	2.14	0.48
35:BA:1367:A:C2'	35:BA:1368:G:H5'	2.42	0.48
35:BA:1576:U:H2'	35:BA:1577:C:C6	2.49	0.48
35:BA:1829:A:N3	38:BD:15:PHE:HZ	2.10	0.48
35:BA:2531:A:H5''	42:BH:157:TYR:CZ	2.49	0.48
35:BA:2723:C:H5''	50:BR:2:ARG:NH1	2.17	0.48
38:BD:94:LEU:HD23	38:BD:95:LEU:N	2.29	0.48
39:BE:51:PHE:CD1	39:BE:52:LEU:HD12	2.48	0.48
39:BE:161:GLY:O	39:BE:162:ALA:C	2.57	0.48
41:BG:40:ASN:ND2	41:BG:41:GLN:H	2.12	0.48
41:BG:53:LEU:HD22	41:BG:53:LEU:H	1.79	0.48
41:BG:67:LYS:HD3	41:BG:68:PRO:HD2	1.95	0.48
41:BG:71:THR:HG23	41:BG:90:LEU:N	2.29	0.48
41:BG:129:GLY:O	41:BG:130:ASN:CG	2.56	0.48
46:BN:57:ALA:O	46:BN:58:ASP:C	2.55	0.48
54:BV:5:VAL:HG23	54:BV:37:VAL:O	2.13	0.48
57:BY:13:VAL:HG22	57:BY:73:ARG:O	2.14	0.48
1:CA:170:U:O2'	1:CA:171:A:H5'	2.14	0.48
1:CA:182:U:H3'	1:CA:183:G:C5'	2.44	0.48
1:CA:265:G:H5'	17:CQ:64:PRO:O	2.14	0.48
1:CA:678:U:H2'	1:CA:679:C:C6	2.48	0.48
1:CA:1101:A:H4'	1:CA:1102:A:H4'	1.95	0.48
1:CA:1164:G:O2'	1:CA:1165:C:H5'	2.14	0.48
1:CA:1237:C:H5''	1:CA:1238:A:C8	2.49	0.48
3:CC:87:LEU:C	3:CC:89:GLU:N	2.70	0.48
8:CH:6:ILE:N	8:CH:6:ILE:CD1	2.77	0.48
13:CM:63:THR:CG2	13:CM:64:TRP:H	2.24	0.48
15:CO:23:GLY:O	15:CO:24:SER:O	2.32	0.48
16:CP:23:ASP:OD1	16:CP:24:ALA:N	2.47	0.48
16:CP:59:TRP:O	16:CP:62:VAL:HG22	2.13	0.48
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.95	0.48
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.79	0.48
20:CT:58:LYS:O	20:CT:59:ALA:C	2.57	0.48
20:CT:81:LYS:C	20:CT:83:ARG:N	2.72	0.48
24:CY:210:ARG:HG2	24:CY:210:ARG:NH1	2.25	0.48
24:CY:302:HIS:C	24:CY:304:ASP:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:409:ILE:HD12	24:CY:654:GLY:HA2	1.96	0.48
24:CY:573:HIS:HD2	24:CY:576:ASP:H	1.61	0.48
34:D9:3:VAL:O	34:D9:4:ARG:HB3	2.14	0.48
35:DA:64:A:H2'	35:DA:65:C:O4'	2.14	0.48
35:DA:654(P):C:H2'	35:DA:654(Q):C:O4'	2.13	0.48
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.14	0.48
35:DA:1607:C:H5'	35:DA:1608:A:C8	2.49	0.48
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.14	0.48
35:DA:2051:A:H2'	35:DA:2578:G:O5'	2.13	0.48
35:DA:2463:C:C2'	35:DA:2464:C:H5'	2.43	0.48
35:DA:2602:A:H4'	35:DA:2603:G:C5'	2.43	0.48
36:DB:40:U:H5''	36:DB:41:U:OP2	2.14	0.48
37:DC:11:LEU:C	37:DC:13:GLU:H	2.22	0.48
37:DC:111:PHE:CE1	37:DC:137:LEU:HD13	2.37	0.48
38:DD:211:ARG:O	38:DD:215:LEU:HG	2.13	0.48
39:DE:117:MET:CA	39:DE:122:PHE:H	2.16	0.48
43:DJ:139:UNK:C	43:DJ:141:UNK:N	2.77	0.48
46:DN:62:VAL:HG22	46:DN:66:LYS:CG	2.39	0.48
47:DO:61:VAL:N	47:DO:87:ILE:HD11	2.29	0.48
48:DP:83:VAL:O	48:DP:83:VAL:HG13	2.14	0.48
48:DP:124:LYS:HD3	48:DP:143:GLY:CA	2.44	0.48
50:DR:12:ARG:HH11	50:DR:12:ARG:CG	2.27	0.48
52:DT:102:ILE:O	52:DT:106:SER:HB3	2.14	0.48
53:DU:79:PHE:HE2	53:DU:83:LEU:HD11	1.79	0.48
53:DU:106:PHE:HA	53:DU:109:LEU:HD12	1.96	0.48
55:DW:24:ILE:HG21	55:DW:36:LEU:HD21	1.95	0.48
55:DW:44:ALA:O	55:DW:45:TYR:C	2.57	0.48
1:AA:15:G:H4'	5:AE:24:ARG:NH1	2.29	0.47
1:AA:402:G:O2'	1:AA:403:C:H5'	2.14	0.47
1:AA:475:G:O2'	1:AA:476:G:H5'	2.13	0.47
1:AA:707:C:H4'	11:AK:20:TYR:CD1	2.49	0.47
1:AA:1318:A:C2'	1:AA:1319:A:H5'	2.43	0.47
2:AB:111:ARG:HG2	2:AB:111:ARG:NH1	2.29	0.47
6:AF:91:VAL:CG1	6:AF:92:LYS:N	2.76	0.47
8:AH:1:MET:H3	8:AH:1:MET:CE	2.25	0.47
12:AL:17:LYS:HD3	12:AL:18:VAL:N	2.29	0.47
20:AT:53:LEU:HB3	20:AT:102:GLY:HA3	1.96	0.47
20:AT:96:GLY:O	20:AT:97:ALA:O	2.31	0.47
24:AY:5:VAL:C	24:AY:7:TYR:H	2.22	0.47
24:AY:9:LEU:C	24:AY:9:LEU:CD2	2.86	0.47
24:AY:422:GLU:O	24:AY:425:SER:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:539:ILE:CA	24:AY:542:VAL:HG12	2.44	0.47
25:B0:77:ARG:NH2	35:BA:857:C:H5'	2.25	0.47
26:B1:44:PRO:C	26:B1:46:LEU:HD13	2.39	0.47
35:BA:6:A:HO2'	46:BN:130:HIS:HB2	1.78	0.47
35:BA:41:C:H42	35:BA:437:G:H1	1.62	0.47
35:BA:797:C:P	40:BF:62:ARG:HG3	2.54	0.47
35:BA:799:G:OP2	35:BA:800:A:H3'	2.13	0.47
35:BA:1045:A:N3	35:BA:1047:G:N2	2.62	0.47
35:BA:1472:A:H2'	35:BA:1473:G:C8	2.49	0.47
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.95	0.47
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.29	0.47
35:BA:2051:A:H4'	39:BE:141:ILE:HD13	1.96	0.47
35:BA:2170:A:H5''	37:BC:135:ARG:HE	1.79	0.47
35:BA:2206:G:H3'	35:BA:2206:G:N3	2.29	0.47
35:BA:2453:A:OP1	35:BA:2573:C:H5	1.96	0.47
35:BA:2463:C:C2'	35:BA:2464:C:H5'	2.44	0.47
35:BA:2584:U:O2	35:BA:2584:U:O4'	2.31	0.47
36:BB:53:A:H2'	36:BB:53:A:N3	2.29	0.47
36:BB:74:U:H2'	36:BB:75:G:H5'	1.96	0.47
37:BC:225:ILE:HD12	37:BC:225:ILE:O	2.13	0.47
39:BE:16:ARG:NH1	39:BE:171:GLU:OE2	2.47	0.47
39:BE:24:THR:CG2	39:BE:186:GLY:HA2	2.38	0.47
40:BF:133:ASN:O	40:BF:134:GLY:C	2.57	0.47
41:BG:138:GLN:O	41:BG:144:ILE:HD13	2.14	0.47
43:BJ:125:UNK:C	43:BJ:127:UNK:N	2.76	0.47
46:BN:18:ALA:O	46:BN:21:LYS:HB2	2.14	0.47
47:BO:17:ARG:O	47:BO:18:LYS:HG3	2.13	0.47
48:BP:89:ALA:O	48:BP:121:LYS:HD2	2.15	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:HB3	1.94	0.47
58:BZ:84:GLU:O	58:BZ:85:HIS:CB	2.55	0.47
58:BZ:151:HIS:CB	58:BZ:170:THR:HA	2.39	0.47
1:CA:103:C:H3'	1:CA:104:G:C8	2.40	0.47
1:CA:108:G:N2	1:CA:109:A:C2	2.82	0.47
1:CA:392:G:H2'	1:CA:393:A:C8	2.48	0.47
1:CA:393:A:H5'	1:CA:483:C:O2'	2.14	0.47
1:CA:430:A:OP2	4:CD:8:VAL:HG22	2.14	0.47
1:CA:1152:A:OP1	10:CJ:68:HIS:HD2	1.97	0.47
1:CA:1237:C:H3'	1:CA:1336:C:H41	1.79	0.47
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.38	0.47
2:CB:207:ALA:C	2:CB:209:ARG:N	2.70	0.47
4:CD:119:GLN:HG3	4:CD:123:HIS:NE2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:132:ARG:HD2	4:CD:132:ARG:C	2.38	0.47
4:CD:194:LEU:HB3	4:CD:196:LEU:CD1	2.37	0.47
5:CE:143:ARG:HH12	8:CH:77:GLU:CD	2.22	0.47
11:CK:29:ILE:HB	11:CK:44:SER:HB2	1.96	0.47
12:CL:41:ARG:HH11	12:CL:41:ARG:CB	2.18	0.47
15:CO:82:ILE:C	15:CO:82:ILE:CD1	2.82	0.47
19:CS:43:GLU:HB2	19:CS:44:MET:SD	2.53	0.47
22:CW:10:G:O2'	22:CW:11:A:H5'	2.14	0.47
24:CY:181:LEU:HD13	24:CY:216:LEU:HD21	1.96	0.47
24:CY:261:GLY:O	24:CY:262:SER:C	2.56	0.47
24:CY:341:VAL:HG22	24:CY:350:GLU:HB2	1.95	0.47
24:CY:609:GLU:HB2	24:CY:670:VAL:CG2	2.44	0.47
30:D5:40:LYS:HZ3	30:D5:46:CYS:H	1.59	0.47
35:DA:83:G:O2'	35:DA:84:A:C8	2.56	0.47
35:DA:272(D):G:H1	35:DA:364:C:H42	1.62	0.47
35:DA:651:G:C2'	35:DA:652:C:H5'	2.43	0.47
35:DA:654(P):C:H2'	35:DA:654(Q):C:C5'	2.44	0.47
35:DA:709:U:H2'	35:DA:710:G:H8	1.77	0.47
35:DA:883:G:H2'	35:DA:884:C:O4'	2.14	0.47
35:DA:1064:C:H4'	44:DK:89:HIS:CD2	2.47	0.47
35:DA:1971:A:N3	38:DD:240:ALA:HA	2.29	0.47
35:DA:2884:U:H2'	35:DA:2885:C:H5'	1.96	0.47
37:DC:29:LEU:C	37:DC:29:LEU:CD2	2.88	0.47
39:DE:12:THR:O	39:DE:23:VAL:N	2.42	0.47
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.82	0.47
40:DF:133:ASN:O	40:DF:134:GLY:C	2.57	0.47
41:DG:172:LEU:O	41:DG:176:LEU:HD12	2.14	0.47
46:DN:4:TYR:O	46:DN:5:VAL:C	2.57	0.47
48:DP:7:ARG:HG3	48:DP:7:ARG:HH11	1.79	0.47
48:DP:47:ASP:HB3	48:DP:48:PRO:C	2.39	0.47
48:DP:64:LYS:O	48:DP:64:LYS:HD3	2.14	0.47
48:DP:70:GLN:HA	48:DP:70:GLN:OE1	2.12	0.47
48:DP:83:VAL:HG13	48:DP:114:ILE:HA	1.96	0.47
50:DR:53:HIS:C	50:DR:53:HIS:HD1	2.22	0.47
51:DS:49:VAL:HG22	51:DS:80:LEU:HD12	1.95	0.47
51:DS:74:ALA:HB2	51:DS:101:LEU:CD2	2.44	0.47
51:DS:74:ALA:HB3	51:DS:103:GLU:HG3	1.95	0.47
51:DS:97:ARG:NE	51:DS:97:ARG:O	2.47	0.47
52:DT:137:LYS:HG2	52:DT:138:ALA:N	2.30	0.47
57:DY:31:LEU:HD23	57:DY:36:ALA:H	1.79	0.47
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:78:G:H1	1:AA:91:C:N4	2.12	0.47
1:AA:533:A:OP1	1:AA:533:A:H3'	2.15	0.47
1:AA:930:C:O2'	1:AA:931:C:H5'	2.14	0.47
1:AA:1225:A:H5''	1:AA:1226:C:OP2	2.14	0.47
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.74	0.47
2:AB:82:ARG:HG3	2:AB:82:ARG:HH11	1.79	0.47
4:AD:189:PRO:HB2	4:AD:194:LEU:CD2	2.43	0.47
9:AI:46:ALA:C	9:AI:47:LEU:HD12	2.39	0.47
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.82	0.47
18:AR:72:ARG:O	18:AR:73:ALA:C	2.57	0.47
21:AU:8:THR:O	21:AU:9:ARG:C	2.56	0.47
24:AY:217:VAL:HG22	24:AY:242:LEU:HD21	1.95	0.47
24:AY:282:SER:C	24:AY:284:LEU:N	2.72	0.47
24:AY:315:LYS:HD2	24:AY:317:MET:HG3	1.95	0.47
24:AY:445:GLU:HA	24:AY:445:GLU:OE1	2.13	0.47
25:B0:51:VAL:HG22	25:B0:81:VAL:CG2	2.44	0.47
27:B2:47:ASN:CB	35:BA:95:G:H1'	2.44	0.47
30:B5:22:HIS:CE1	35:BA:2624:G:H1'	2.49	0.47
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.29	0.47
34:B9:16:VAL:HA	34:B9:25:VAL:HG22	1.95	0.47
35:BA:25:U:H2'	35:BA:26:G:O4'	2.13	0.47
35:BA:385:C:O2	48:BP:71:VAL:HG21	2.14	0.47
35:BA:614:U:H2'	35:BA:614(A):U:O4'	2.14	0.47
35:BA:925:C:C3'	35:BA:926:A:H5''	2.43	0.47
35:BA:1708:C:O2'	35:BA:1709:U:H5'	2.14	0.47
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.79	0.47
35:BA:2400:G:N2	35:BA:2417:C:C2	2.82	0.47
35:BA:2704:C:O2'	35:BA:2705:A:H5'	2.14	0.47
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.78	0.47
35:BA:2860:A:H2'	35:BA:2861:G:H5'	1.95	0.47
39:BE:145:LYS:O	39:BE:148:GLY:N	2.47	0.47
41:BG:114:ILE:O	41:BG:116:ASP:N	2.39	0.47
46:BN:9:VAL:HG12	46:BN:10:GLU:H	1.77	0.47
49:BQ:21:THR:CG2	49:BQ:101:ARG:HB2	2.44	0.47
51:BS:59:LYS:HG2	51:BS:60:GLY:H	1.79	0.47
52:BT:8:LYS:C	52:BT:10:VAL:N	2.71	0.47
54:BV:4:ILE:HG22	54:BV:4:ILE:O	2.13	0.47
55:BW:20:VAL:O	55:BW:23:LEU:N	2.46	0.47
57:BY:61:ILE:CG1	57:BY:62:GLU:N	2.77	0.47
1:CA:1444:C:C2	1:CA:1445:C:C5	3.01	0.47
2:CB:213:LEU:HD23	2:CB:213:LEU:C	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:131:ARG:O	3:CC:132:ARG:C	2.56	0.47
4:CD:36:ARG:HH11	4:CD:36:ARG:CG	2.27	0.47
9:CI:20:ARG:O	9:CI:59:PHE:HA	2.13	0.47
9:CI:42:ARG:O	9:CI:43:ALA:C	2.57	0.47
10:CJ:22:LYS:HZ2	10:CJ:88:LEU:HD23	1.79	0.47
10:CJ:33:GLN:H	10:CJ:75:ILE:HD11	1.79	0.47
16:CP:32:TYR:O	16:CP:32:TYR:CD2	2.62	0.47
24:CY:20:HIS:N	24:CY:121:VAL:HG11	2.29	0.47
24:CY:74:TRP:CE2	24:CY:273:LEU:HB3	2.49	0.47
24:CY:119:GLU:O	24:CY:120:THR:OG1	2.29	0.47
24:CY:288:PRO:HB3	24:CY:301:ILE:O	2.14	0.47
24:CY:460:GLU:O	24:CY:463:VAL:HB	2.14	0.47
32:D7:5:TRP:CH2	35:DA:686:G:N7	2.82	0.47
32:D7:8:ASN:HD22	32:D7:8:ASN:C	2.19	0.47
35:DA:962:G:C2'	35:DA:963:U:H5'	2.43	0.47
35:DA:1050:A:H2'	35:DA:1051:G:O4'	2.14	0.47
35:DA:1285:G:C2'	35:DA:1286:A:H5'	2.36	0.47
35:DA:1445(A):C:H5'	35:DA:1446:C:OP2	2.14	0.47
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.96	0.47
35:DA:2313:C:O2'	35:DA:2314:C:H5'	2.15	0.47
35:DA:2395:C:C2	35:DA:2396:G:C8	3.02	0.47
35:DA:2593:U:C2	35:DA:2594:C:C5	3.02	0.47
35:DA:2735:G:H2'	35:DA:2736:G:C8	2.44	0.47
37:DC:185:LYS:HE3	37:DC:185:LYS:CA	2.44	0.47
38:DD:46:GLN:N	38:DD:46:GLN:OE1	2.48	0.47
38:DD:77:ALA:HB2	38:DD:97:TYR:CG	2.49	0.47
46:DN:65:LYS:CB	46:DN:69:GLN:HG3	2.41	0.47
47:DO:19:ILE:HD12	47:DO:41:ALA:CB	2.45	0.47
48:DP:100:LEU:N	48:DP:100:LEU:HD22	2.29	0.47
49:DQ:26:TYR:CE1	49:DQ:140:ALA:HB3	2.49	0.47
49:DQ:55:VAL:HG12	49:DQ:56:ARG:H	1.79	0.47
53:DU:8:VAL:CG2	53:DU:12:ARG:HE	2.27	0.47
53:DU:90:VAL:HG13	54:DV:39:LEU:HG	1.95	0.47
54:DV:38:LEU:C	54:DV:39:LEU:HD22	2.39	0.47
54:DV:38:LEU:HD12	54:DV:56:SER:HA	1.96	0.47
55:DW:1:MET:HE3	55:DW:2:GLU:H	1.78	0.47
58:DZ:89:PHE:CE1	58:DZ:96:VAL:HG21	2.48	0.47
1:AA:17:U:H2'	1:AA:18:C:C6	2.49	0.47
1:AA:502:G:OP1	12:AL:118:SER:HB3	2.14	0.47
1:AA:936:C:H2'	1:AA:937:A:O4'	2.14	0.47
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1368:G:OP2	9:AI:112:LYS:HD3	2.14	0.47
1:AA:1442:G:C5	1:AA:1442(B):A:C2	3.02	0.47
1:AA:1484:C:H2'	1:AA:1485:U:O4'	2.15	0.47
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.38	0.47
3:AC:173:VAL:HG12	3:AC:175:LEU:CD1	2.44	0.47
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.78	0.47
4:AD:158:ILE:CG2	4:AD:162:LEU:HD12	2.43	0.47
5:AE:122:GLU:O	5:AE:123:LEU:HD23	2.14	0.47
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.82	0.47
11:AK:15:ALA:HA	11:AK:76:GLY:O	2.14	0.47
11:AK:34:ASP:CB	11:AK:35:PRO:CD	2.93	0.47
19:AS:15:LEU:O	19:AS:19:VAL:HB	2.14	0.47
19:AS:58:VAL:O	19:AS:60:VAL:N	2.47	0.47
22:AW:29:C:O2'	22:AW:30:G:H5'	2.14	0.47
24:AY:259:PHE:N	24:AY:259:PHE:CD1	2.81	0.47
24:AY:528:ALA:O	24:AY:568:TYR:HA	2.14	0.47
24:AY:561:VAL:O	24:AY:562:ASP:HB2	2.13	0.47
24:AY:610:VAL:HG23	24:AY:643:ILE:HB	1.95	0.47
26:B1:18:ILE:HD11	26:B1:37:ILE:HG12	1.96	0.47
26:B1:51:VAL:O	26:B1:58:ILE:HG22	2.14	0.47
29:B4:39:CYS:O	29:B4:42:PHE:CE2	2.67	0.47
29:B4:43:TYR:HD2	29:B4:44:THR:HG23	1.79	0.47
30:B5:16:ARG:HD2	30:B5:20:ARG:HH12	1.79	0.47
30:B5:35:GLU:O	30:B5:36:CYS:CB	2.62	0.47
30:B5:48:GLU:C	30:B5:49:CYS:SG	2.98	0.47
31:B6:6:ARG:O	31:B6:7:ILE:CB	2.62	0.47
31:B6:10:LEU:HB3	33:B8:34:TRP:CD1	2.49	0.47
35:BA:883:G:H2'	35:BA:884:C:O4'	2.14	0.47
35:BA:1181:C:O2'	35:BA:1182:A:H5'	2.14	0.47
35:BA:1658:C:H6	35:BA:1658:C:O5'	1.97	0.47
35:BA:1719:G:H2'	35:BA:1720:U:H5'	1.96	0.47
35:BA:2759:G:O2'	35:BA:2760:C:H5'	2.14	0.47
36:BB:86:G:C6	36:BB:92:C:N3	2.82	0.47
37:BC:85:LYS:O	37:BC:89:GLU:HG3	2.14	0.47
37:BC:164:PHE:HB2	37:BC:172:ILE:HD11	1.96	0.47
39:BE:15:PHE:CE2	52:BT:80:SER:HB2	2.49	0.47
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.14	0.47
39:BE:110:GLY:O	50:BR:2:ARG:HD3	2.14	0.47
39:BE:188:VAL:HG23	39:BE:189:PRO:HD2	1.97	0.47
41:BG:41:GLN:HB3	41:BG:43:LEU:CD2	2.44	0.47
41:BG:162:THR:O	41:BG:163:ALA:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:125:GLY:CA	46:BN:126:PRO:O	2.62	0.47
47:BO:17:ARG:HH21	47:BO:47:ILE:HD11	1.79	0.47
48:BP:70:GLN:OE1	48:BP:70:GLN:HA	2.12	0.47
49:BQ:26:TYR:CE1	49:BQ:140:ALA:HB3	2.49	0.47
49:BQ:32:TYR:N	49:BQ:32:TYR:CD1	2.83	0.47
50:BR:83:ILE:O	50:BR:87:TYR:CE2	2.67	0.47
50:BR:96:ARG:O	50:BR:114:VAL:HA	2.14	0.47
51:BS:70:GLY:O	51:BS:72:ALA:N	2.47	0.47
52:BT:10:VAL:C	52:BT:12:SER:H	2.22	0.47
52:BT:23:ARG:C	52:BT:25:GLY:H	2.17	0.47
52:BT:118:ARG:HA	52:BT:121:ILE:HD12	1.96	0.47
58:BZ:108:PRO:HB3	58:BZ:141:VAL:HG12	1.95	0.47
1:CA:360:A:O2'	1:CA:361:G:H5'	2.14	0.47
1:CA:392:G:H2'	1:CA:393:A:H8	1.79	0.47
1:CA:763:G:H2'	1:CA:764:C:H6	1.80	0.47
1:CA:1318:A:C2'	1:CA:1319:A:H5'	2.44	0.47
1:CA:1354:C:H2'	1:CA:1355:G:H8	1.79	0.47
3:CC:25:GLY:C	3:CC:27:LYS:N	2.70	0.47
4:CD:14:ARG:C	4:CD:16:GLY:N	2.71	0.47
5:CE:119:LEU:N	5:CE:119:LEU:HD23	2.29	0.47
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	2.11	0.47
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.83	0.47
12:CL:117:ARG:O	12:CL:119:LYS:O	2.32	0.47
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.95	0.47
24:CY:5:VAL:CG1	24:CY:6:GLU:H	2.22	0.47
24:CY:427:ALA:HB1	24:CY:466:LEU:CD1	2.44	0.47
24:CY:492:ASP:CG	24:CY:512:ILE:O	2.58	0.47
26:D1:76:ARG:HH22	26:D1:95:LEU:CG	2.27	0.47
27:D2:13:ALA:O	27:D2:14:ARG:C	2.56	0.47
27:D2:27:GLU:O	27:D2:30:ARG:N	2.47	0.47
30:D5:2:ALA:O	30:D5:3:LYS:HB3	2.13	0.47
31:D6:47:THR:CG2	31:D6:49:HIS:CE1	2.97	0.47
32:D7:16:HIS:ND1	35:DA:684:G:OP1	2.47	0.47
33:D8:56:GLU:C	33:D8:58:ILE:H	2.23	0.47
35:DA:999:U:OP2	35:DA:1153:C:OP2	2.32	0.47
35:DA:2134:A:N3	35:DA:2134:A:H2'	2.29	0.47
35:DA:2150:U:H2'	35:DA:2151:G:H8	1.79	0.47
35:DA:2394:C:P	48:DP:63:PRO:HD2	2.54	0.47
35:DA:2573:C:OP1	35:DA:2575:C:OP2	2.33	0.47
35:DA:2888:C:H2'	35:DA:2889:C:C6	2.48	0.47
37:DC:79:ALA:HB1	37:DC:83:LYS:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:156:LEU:HD21	40:DF:163:VAL:HG12	1.95	0.47
42:DH:72:ILE:O	42:DH:75:ALA:N	2.47	0.47
48:DP:17:LYS:HG2	48:DP:17:LYS:O	2.14	0.47
50:DR:13:HIS:O	50:DR:14:SER:C	2.57	0.47
51:DS:65:VAL:C	51:DS:67:ARG:H	2.21	0.47
52:DT:126:ALA:C	52:DT:128:GLU:N	2.72	0.47
53:DU:70:ARG:NH2	53:DU:75:ASN:HB2	2.29	0.47
53:DU:95:LEU:O	53:DU:98:LEU:HG	2.14	0.47
57:DY:28:LYS:HE3	57:DY:30:VAL:HG22	1.95	0.47
57:DY:95:LYS:HD3	57:DY:100:ALA:CB	2.44	0.47
58:DZ:9:TYR:HB3	58:DZ:35:ARG:HH22	1.78	0.47
58:DZ:48:PHE:C	58:DZ:48:PHE:CD1	2.92	0.47
58:DZ:166:SER:CB	58:DZ:168:GLU:N	2.76	0.47
1:AA:509:A:N3	1:AA:509:A:H2'	2.30	0.47
1:AA:736:C:H2'	1:AA:737:A:H8	1.77	0.47
1:AA:881:G:P	12:AL:12:ARG:HH22	2.37	0.47
1:AA:1293:G:O2'	1:AA:1294:G:H5'	2.14	0.47
2:AB:8:LYS:HB2	2:AB:9:GLU:OE2	2.14	0.47
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.36	0.47
2:AB:109:SER:O	2:AB:112:VAL:HB	2.14	0.47
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.15	0.47
4:AD:170:VAL:O	4:AD:171:GLY:C	2.57	0.47
6:AF:99:ALA:O	6:AF:100:ASN:HB2	2.14	0.47
7:AG:31:MET:SD	7:AG:36:LYS:HB2	2.53	0.47
11:AK:24:SER:O	11:AK:88:GLY:HA2	2.14	0.47
17:AQ:45:HIS:HB2	17:AQ:65:ILE:HD13	1.97	0.47
17:AQ:45:HIS:CG	17:AQ:65:ILE:HD13	2.49	0.47
17:AQ:50:LYS:HG3	17:AQ:50:LYS:O	2.15	0.47
19:AS:48:THR:HG22	19:AS:61:TYR:HD1	1.80	0.47
22:AW:75:C:H5'	22:AW:75:C:C6	2.48	0.47
24:AY:176:GLY:HA2	24:AY:187:THR:HA	1.95	0.47
24:AY:555:LEU:CD1	24:AY:599:PRO:HB2	2.43	0.47
32:B7:41:ARG:NH2	35:BA:460:A:OP1	2.48	0.47
33:B8:39:LYS:HG3	33:B8:43:GLN:NE2	2.30	0.47
35:BA:307:G:H21	35:BA:330:A:N6	2.13	0.47
35:BA:583:G:H2'	35:BA:584:C:H6	1.78	0.47
35:BA:588:U:H2'	35:BA:589:C:H6	1.78	0.47
35:BA:733:G:C6	35:BA:761:A:N7	2.83	0.47
35:BA:809:G:O2'	35:BA:810:U:H5'	2.14	0.47
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.96	0.47
35:BA:1336:A:O2'	35:BA:1337:G:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1577:C:H2'	35:BA:1578:U:O4'	2.15	0.47
35:BA:1661:G:O2'	35:BA:1662:C:H5'	2.14	0.47
35:BA:1675:C:O2	39:BE:129:HIS:HA	2.14	0.47
35:BA:2116:G:N7	35:BA:2117:A:C5	2.82	0.47
35:BA:2794:C:H42	35:BA:2801(A):A:N6	2.11	0.47
37:BC:14:LYS:O	37:BC:15:VAL:HG13	2.14	0.47
37:BC:65:LEU:HD11	37:BC:162:ILE:HD13	1.96	0.47
39:BE:68:ALA:C	39:BE:70:ALA:H	2.22	0.47
41:BG:117:PHE:HE1	41:BG:120:LEU:N	2.12	0.47
41:BG:125:PHE:CE1	41:BG:131:TYR:HD1	2.32	0.47
42:BH:89:ILE:O	42:BH:89:ILE:CG1	2.62	0.47
42:BH:146:ALA:O	42:BH:149:ARG:N	2.47	0.47
44:BK:6:ALA:CB	44:BK:30:HIS:HE1	2.28	0.47
49:BQ:35:VAL:O	49:BQ:129:THR:HG22	2.15	0.47
50:BR:13:HIS:O	50:BR:14:SER:C	2.56	0.47
51:BS:36:TYR:N	51:BS:36:TYR:HD1	2.12	0.47
51:BS:101:LEU:C	51:BS:101:LEU:CD1	2.87	0.47
52:BT:99:LEU:HB2	52:BT:101:PHE:HE1	1.80	0.47
52:BT:128:GLU:OE2	52:BT:129:ARG:N	2.48	0.47
53:BU:115:ALA:C	53:BU:117:GLN:N	2.70	0.47
54:BV:2:PHE:O	54:BV:3:ALA:CB	2.63	0.47
54:BV:40:LEU:CA	54:BV:45:THR:HB	2.40	0.47
55:BW:88:ARG:CB	55:BW:92:ARG:HB3	2.44	0.47
57:BY:85:VAL:HG13	57:BY:93:GLY:O	2.13	0.47
1:CA:164:U:H2'	1:CA:165:C:H6	1.79	0.47
1:CA:265:G:O2'	1:CA:266:G:H5'	2.14	0.47
1:CA:417:C:H2'	1:CA:418:C:H6	1.79	0.47
1:CA:542:G:P	4:CD:10:ARG:HH21	2.38	0.47
1:CA:603:U:H2'	1:CA:604:G:H8	1.78	0.47
1:CA:608:A:O2'	1:CA:609:A:H5'	2.15	0.47
1:CA:1134:G:N2	1:CA:1141:C:C2	2.83	0.47
2:CB:179:LYS:HG2	2:CB:179:LYS:O	2.14	0.47
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.14	0.47
4:CD:13:ARG:HD2	4:CD:38:TYR:O	2.14	0.47
4:CD:25:ARG:O	4:CD:28:SER:N	2.48	0.47
6:CF:29:ALA:O	6:CF:31:GLU:N	2.48	0.47
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.20	0.47
8:CH:19:VAL:CG2	8:CH:21:LYS:HE2	2.44	0.47
8:CH:44:PHE:HE2	8:CH:109:ILE:CG2	2.28	0.47
9:CI:9:ARG:HG2	9:CI:14:VAL:HA	1.96	0.47
10:CJ:69:ASN:O	10:CJ:70:ARG:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:23:ALA:O	11:CK:86:GLY:HA3	2.14	0.47
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.48	0.47
16:CP:57:ARG:O	16:CP:58:TYR:C	2.57	0.47
18:CR:59:SER:H	18:CR:62:GLU:CB	2.25	0.47
20:CT:81:LYS:C	20:CT:83:ARG:H	2.23	0.47
22:CV:29:G:O2'	22:CV:30:G:H5'	2.15	0.47
24:CY:26:THR:HB	62:CY:703:GDP:O2A	2.14	0.47
24:CY:74:TRP:NE1	24:CY:273:LEU:HB3	2.29	0.47
24:CY:84:THR:C	61:CY:702:FUA:H322	2.39	0.47
24:CY:92:ILE:HG12	24:CY:405:PRO:HG2	1.91	0.47
24:CY:121:VAL:HG23	24:CY:122:TRP:N	2.29	0.47
24:CY:168:ILE:HD11	24:CY:178:ILE:HD11	1.95	0.47
24:CY:286:ILE:HD12	24:CY:286:ILE:N	2.29	0.47
24:CY:491:VAL:CG2	24:CY:597:GLY:HA2	2.44	0.47
24:CY:510:VAL:HG11	24:CY:567:LEU:HD13	1.95	0.47
25:D0:23:VAL:HG13	25:D0:38:VAL:HG22	1.97	0.47
29:D4:39:CYS:O	29:D4:42:PHE:CE2	2.67	0.47
30:D5:16:ARG:NH1	30:D5:17:ASP:OD1	2.48	0.47
30:D5:44:THR:CG2	30:D5:45:VAL:H	2.23	0.47
31:D6:28:ARG:O	31:D6:32:ASN:HB2	2.14	0.47
33:D8:29:LYS:HD2	33:D8:44:LYS:CB	2.44	0.47
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.29	0.47
35:DA:177:G:H3'	35:DA:178:G:H8	1.79	0.47
35:DA:393:C:O2'	35:DA:394:A:H5'	2.13	0.47
35:DA:544:G:H21	35:DA:547:A:H2'	1.79	0.47
35:DA:750:A:C2	35:DA:753:C:C6	3.02	0.47
35:DA:799:G:C3'	35:DA:800:A:H5''	2.43	0.47
35:DA:848:G:C4	35:DA:933:A:H8	2.32	0.47
35:DA:1288:U:H4'	35:DA:1289:C:OP2	2.14	0.47
35:DA:1582:C:H2'	35:DA:1583:A:C8	2.43	0.47
35:DA:1629:U:H2'	35:DA:1630:G:C8	2.50	0.47
35:DA:1851:U:H2'	35:DA:1852:C:O4'	2.14	0.47
35:DA:1899:G:N2	35:DA:1902:C:C4	2.80	0.47
35:DA:2334:G:C2	51:DS:15:ARG:NH1	2.83	0.47
37:DC:182:PRO:HD2	37:DC:185:LYS:HG2	1.96	0.47
38:DD:28:GLU:HB2	38:DD:29:PRO:HD3	1.96	0.47
41:DG:39:ILE:HD11	41:DG:92:VAL:HG23	1.95	0.47
44:DK:5:VAL:HG12	44:DK:59:ILE:HG23	1.96	0.47
46:DN:1:MET:HE2	46:DN:1:MET:C	2.38	0.47
46:DN:2:LYS:HZ1	54:DV:12:TYR:HB3	1.80	0.47
46:DN:38:HIS:C	53:DU:67:ALA:HB1	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:88:ASN:C	47:DO:90:GLN:H	2.22	0.47
49:DQ:43:THR:HB	49:DQ:45:GLN:HE21	1.80	0.47
51:DS:85:VAL:HG23	51:DS:106:ARG:CG	2.42	0.47
54:DV:40:LEU:HD22	54:DV:40:LEU:N	2.29	0.47
54:DV:46:VAL:O	54:DV:47:VAL:HG13	2.15	0.47
1:AA:624:C:H2'	1:AA:625:G:C8	2.47	0.47
1:AA:710:G:O2'	1:AA:711:G:H5'	2.14	0.47
1:AA:830:G:O2'	1:AA:831:U:H5'	2.14	0.47
1:AA:1352:C:OP1	21:AU:3:LYS:HE2	2.15	0.47
2:AB:178:ARG:HD2	8:AH:71:GLY:C	2.40	0.47
2:AB:238:LEU:O	2:AB:239:VAL:C	2.57	0.47
4:AD:132:ARG:HD2	4:AD:132:ARG:C	2.39	0.47
8:AH:19:VAL:HG21	8:AH:21:LYS:HE2	1.96	0.47
9:AI:4:TYR:CE1	9:AI:88:TYR:CD2	3.03	0.47
10:AJ:31:GLY:O	10:AJ:32:ALA:C	2.58	0.47
12:AL:6:THR:HG23	12:AL:9:GLN:NE2	2.21	0.47
16:AP:67:THR:HB	16:AP:70:ALA:HB2	1.97	0.47
20:AT:43:LEU:O	20:AT:44:ALA:C	2.57	0.47
24:AY:9:LEU:HD23	24:AY:10:LYS:N	2.28	0.47
24:AY:198:GLU:O	24:AY:198:GLU:HG3	2.13	0.47
24:AY:210:ARG:HH11	24:AY:210:ARG:HG2	1.79	0.47
24:AY:250:THR:C	24:AY:252:ASP:H	2.22	0.47
24:AY:282:SER:O	24:AY:286:ILE:HD13	2.14	0.47
25:B0:40:GLN:HE22	25:B0:43:THR:C	2.22	0.47
35:BA:328:U:H4'	57:BY:68:HIS:NE2	2.29	0.47
35:BA:537:C:H2'	35:BA:538:G:C8	2.50	0.47
35:BA:582:G:C6	35:BA:1259:G:N1	2.83	0.47
35:BA:979:G:N2	35:BA:985:C:N4	2.62	0.47
35:BA:1050:A:H2'	35:BA:1051:G:O4'	2.14	0.47
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.15	0.47
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.49	0.47
35:BA:1310:G:H2'	35:BA:1311:G:H5'	1.96	0.47
35:BA:1582:C:O2'	35:BA:1586:A:C8	2.66	0.47
35:BA:2552:U:O5'	35:BA:2552:U:H6	1.98	0.47
35:BA:2656:U:N3	35:BA:2665:A:H2	2.12	0.47
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.49	0.47
38:BD:24:ILE:CD1	38:BD:25:THR:H	2.22	0.47
38:BD:34:VAL:O	38:BD:36:PRO:HG2	2.15	0.47
39:BE:82:ARG:O	39:BE:83:ASP:C	2.57	0.47
40:BF:32:LEU:C	40:BF:32:LEU:CD2	2.88	0.47
40:BF:199:TRP:O	40:BF:202:PHE:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:83:VAL:HG13	48:BP:114:ILE:HA	1.96	0.47
49:BQ:110:THR:CG2	49:BQ:113:GLN:HG3	2.44	0.47
53:BU:47:TYR:O	53:BU:51:LYS:HG2	2.14	0.47
54:BV:39:LEU:HA	54:BV:47:VAL:CG1	2.44	0.47
54:BV:88:ARG:O	54:BV:90:PRO:HD3	2.15	0.47
57:BY:49:VAL:O	57:BY:51:VAL:HG23	2.15	0.47
1:CA:59:A:H5''	1:CA:60:A:H5'	1.96	0.47
1:CA:538:G:O2'	1:CA:539:A:H5'	2.14	0.47
1:CA:930:C:C2'	1:CA:931:C:H5'	2.45	0.47
1:CA:1299:A:C2	1:CA:1301:U:N3	2.82	0.47
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.43	0.47
5:CE:78:HIS:HE1	5:CE:80:ILE:HG23	1.79	0.47
8:CH:85:ARG:HG3	8:CH:85:ARG:HH11	1.80	0.47
9:CI:46:ALA:C	9:CI:47:LEU:HD12	2.39	0.47
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.39	0.47
17:CQ:67:LYS:CA	17:CQ:70:ARG:HH12	2.24	0.47
19:CS:23:ASN:OD1	19:CS:44:MET:HE2	2.15	0.47
20:CT:30:LYS:HZ2	20:CT:34:LYS:CE	2.28	0.47
20:CT:33:ILE:HG21	20:CT:63:ILE:HG12	1.95	0.47
22:CW:20:G:C5	35:DA:2169:A:H2	2.31	0.47
29:D4:7:PRO:HG2	41:DG:61:ALA:HB1	1.96	0.47
30:D5:3:LYS:CE	35:DA:2613:U:H2'	2.44	0.47
31:D6:11:LEU:HB3	31:D6:26:ASN:HD21	1.78	0.47
35:DA:79:G:O2'	35:DA:80:G:H5'	2.14	0.47
35:DA:272(J):C:H5'	35:DA:274:G:OP2	2.15	0.47
35:DA:298:G:H8	35:DA:298:G:O5'	1.97	0.47
35:DA:539:G:O2'	35:DA:540:C:H5'	2.14	0.47
35:DA:753:C:H2'	35:DA:754:C:C6	2.49	0.47
35:DA:769:G:H5'	35:DA:1379:A:N6	2.30	0.47
35:DA:915:C:H2'	35:DA:916:G:H8	1.79	0.47
35:DA:1416:G:O2'	35:DA:1417:C:H5	1.97	0.47
35:DA:2031:A:N3	35:DA:2455:G:O2'	2.47	0.47
35:DA:2086:U:H2'	35:DA:2087:G:C8	2.50	0.47
38:DD:161:THR:O	38:DD:162:SER:HB3	2.14	0.47
39:DE:61:ARG:HG2	39:DE:62:PRO:CD	2.43	0.47
40:DF:10:PRO:HG2	40:DF:11:VAL:H	1.79	0.47
40:DF:68:LYS:HG3	40:DF:69:HIS:HD2	1.79	0.47
42:DH:46:GLU:HG2	42:DH:46:GLU:H	1.35	0.47
42:DH:141:VAL:O	42:DH:142:GLY:C	2.57	0.47
42:DH:146:ALA:O	42:DH:147:ASN:C	2.57	0.47
48:DP:33:ARG:O	48:DP:35:HIS:O	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:35:VAL:HG23	49:DQ:101:ARG:C	2.39	0.47
51:DS:104:GLY:O	51:DS:106:ARG:N	2.46	0.47
53:DU:59:ARG:HG2	53:DU:59:ARG:NH1	2.26	0.47
55:DW:14:PRO:CG	55:DW:78:GLU:HB2	2.44	0.47
56:DX:57:LEU:C	56:DX:57:LEU:HD22	2.39	0.47
58:DZ:77:ASP:C	58:DZ:78:LYS:HG2	2.40	0.47
58:DZ:116:VAL:HG12	58:DZ:117:LEU:N	2.30	0.47
1:AA:299:G:H2'	1:AA:300:A:H8	1.74	0.47
1:AA:495:A:H4'	1:AA:496:A:OP1	2.14	0.47
1:AA:965:A:C2	1:AA:969:A:C2	3.03	0.47
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.97	0.47
8:AH:26:VAL:HG23	8:AH:27:PRO:HD2	1.96	0.47
8:AH:34:GLU:HB3	8:AH:118:VAL:HG21	1.96	0.47
8:AH:74:PRO:O	8:AH:75:ARG:C	2.57	0.47
9:AI:9:ARG:HG2	9:AI:14:VAL:HA	1.96	0.47
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.14	0.47
11:AK:33:THR:HB	11:AK:38:ASN:O	2.14	0.47
13:AM:66:LEU:N	13:AM:66:LEU:CD1	2.69	0.47
17:AQ:60:ILE:HG22	17:AQ:72:ARG:O	2.15	0.47
22:AW:73:A:O2'	22:AW:74:A:O5'	2.27	0.47
24:AY:106:VAL:CG2	24:AY:132:ARG:HG3	2.43	0.47
61:AY:702:FUA:O1	61:AY:702:FUA:C20	2.62	0.47
26:B1:90:ILE:O	26:B1:94:LEU:CD1	2.63	0.47
30:B5:48:GLU:O	30:B5:49:CYS:HB3	2.13	0.47
31:B6:7:ILE:O	31:B6:7:ILE:HG22	2.13	0.47
35:BA:48:G:N2	35:BA:177:G:N2	2.62	0.47
35:BA:139(A):G:N2	56:BX:44:GLU:CD	2.73	0.47
35:BA:253:C:H2'	35:BA:254:G:O4'	2.15	0.47
35:BA:363:G:H2'	35:BA:363(A):A:H8	1.78	0.47
35:BA:531:C:C5	35:BA:2035:G:C2	3.02	0.47
35:BA:588:U:H1'	40:BF:90:PHE:HB3	1.96	0.47
35:BA:783:A:H2'	35:BA:784:A:O5'	2.14	0.47
35:BA:1100:C:H2'	35:BA:1100:C:O2	2.13	0.47
35:BA:1263:U:H2'	35:BA:1264:G:C8	2.50	0.47
35:BA:1930:G:C2'	35:BA:1931:U:OP2	2.63	0.47
35:BA:1985:G:O2'	35:BA:1986:A:H5'	2.13	0.47
35:BA:2137:C:O2'	35:BA:2138:C:H5'	2.14	0.47
35:BA:2309:A:C2'	35:BA:2310:A:H5''	2.44	0.47
35:BA:2314:C:C2'	35:BA:2315:G:H5'	2.45	0.47
35:BA:2555:U:C2'	35:BA:2556:C:H5'	2.43	0.47
35:BA:2564:A:OP1	35:BA:2648:C:H4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2602:A:H4'	35:BA:2603:G:C5'	2.44	0.47
37:BC:150:ILE:HG13	37:BC:154:ILE:HG13	1.96	0.47
40:BF:38:ARG:O	40:BF:42:ALA:CB	2.63	0.47
40:BF:127:GLU:OE2	40:BF:127:GLU:O	2.32	0.47
41:BG:51:ARG:CZ	41:BG:53:LEU:HD21	2.44	0.47
41:BG:77:ILE:HG22	41:BG:77:ILE:O	2.14	0.47
43:BJ:69:UNK:O	43:BJ:70:UNK:C	2.62	0.47
43:BJ:71:UNK:C	43:BJ:72:UNK:O	2.62	0.47
44:BK:103:GLN:C	44:BK:106:GLU:HG2	2.39	0.47
48:BP:64:LYS:C	48:BP:66:GLY:N	2.67	0.47
49:BQ:12:GLN:HE21	49:BQ:72:LYS:HA	1.79	0.47
49:BQ:87:LYS:CG	49:BQ:88:GLY:H	2.26	0.47
50:BR:30:THR:HA	50:BR:78:LYS:HZ1	1.78	0.47
52:BT:28:VAL:HG13	52:BT:46:GLU:CA	2.44	0.47
52:BT:64:ARG:HG2	52:BT:64:ARG:NH1	2.29	0.47
57:BY:39:VAL:O	57:BY:40:GLU:CD	2.57	0.47
57:BY:54:LYS:HZ3	57:BY:55:TYR:HE2	1.63	0.47
58:BZ:81:ARG:O	58:BZ:81:ARG:HG3	2.14	0.47
58:BZ:107:THR:HG23	58:BZ:111:VAL:HB	1.96	0.47
1:CA:182:U:H5'	1:CA:183:G:P	2.54	0.47
1:CA:417:C:H2'	1:CA:418:C:C6	2.50	0.47
1:CA:1221:G:P	19:CS:36:ARG:HD3	2.55	0.47
1:CA:1305:G:H5''	21:CU:4:GLY:C	2.40	0.47
2:CB:223:ILE:C	2:CB:225:ALA:N	2.70	0.47
3:CC:86:VAL:HG23	3:CC:87:LEU:HD23	1.96	0.47
3:CC:165:THR:O	3:CC:165:THR:HG23	2.15	0.47
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.50	0.47
6:CF:60:PHE:CE2	18:CR:78:LEU:HD21	2.50	0.47
13:CM:54:VAL:C	13:CM:56:LEU:N	2.72	0.47
16:CP:1:MET:HG3	16:CP:65:GLN:HG3	1.97	0.47
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.30	0.47
24:CY:637:ARG:HG3	24:CY:642:VAL:HG21	1.97	0.47
26:D1:20:ARG:HG2	26:D1:20:ARG:NH1	2.29	0.47
28:D3:56:VAL:CG1	28:D3:57:GLU:H	2.22	0.47
30:D5:44:THR:CG2	50:DR:101:ALA:N	2.78	0.47
31:D6:42:TRP:HA	31:D6:42:TRP:HE3	1.78	0.47
35:DA:41:C:H42	35:DA:437:G:H1	1.63	0.47
35:DA:253:C:H2'	35:DA:254:G:O4'	2.14	0.47
35:DA:265:A:N6	35:DA:428:A:H1'	2.29	0.47
35:DA:363:G:H2'	35:DA:363(A):A:H8	1.79	0.47
35:DA:381:G:O2'	35:DA:382:G:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:383:U:H2'	35:DA:385:C:H5	1.79	0.47
35:DA:548:A:H2'	35:DA:548:A:N3	2.29	0.47
35:DA:583:G:H2'	35:DA:584:C:H6	1.79	0.47
35:DA:641:C:H2'	35:DA:642:G:O4'	2.15	0.47
35:DA:1053:C:H2'	35:DA:1054:A:C5'	2.41	0.47
35:DA:1218:C:H2'	35:DA:1219:G:C8	2.50	0.47
35:DA:1544:A:O2'	35:DA:1545:A:H5'	2.15	0.47
35:DA:1658:C:O5'	35:DA:1658:C:H6	1.98	0.47
35:DA:2373:G:O2'	35:DA:2374:C:H5'	2.14	0.47
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.39	0.47
37:DC:202:PRO:HB2	37:DC:205:ALA:HB2	1.96	0.47
38:DD:31:LYS:HZ1	38:DD:33:LEU:HB2	1.78	0.47
38:DD:44:ASN:OD1	38:DD:44:ASN:N	2.46	0.47
38:DD:224:ALA:O	38:DD:225:ALA:HB2	2.15	0.47
39:DE:103:ASP:OD2	39:DE:201:THR:HA	2.15	0.47
42:DH:94:TYR:HA	42:DH:106:THR:O	2.14	0.47
46:DN:2:LYS:HZ3	54:DV:12:TYR:HA	1.79	0.47
46:DN:102:ALA:O	46:DN:106:MET:CE	2.62	0.47
48:DP:95:VAL:HA	48:DP:99:LEU:CD2	2.40	0.47
48:DP:102:ARG:CB	48:DP:102:ARG:HH21	2.27	0.47
49:DQ:135:ASP:CG	58:DZ:49:ARG:NH1	2.73	0.47
50:DR:85:PRO:C	50:DR:87:TYR:N	2.73	0.47
52:DT:50:ILE:HA	52:DT:99:LEU:HD11	1.97	0.47
52:DT:55:ASN:ND2	52:DT:58:ASN:HD21	2.12	0.47
53:DU:21:ALA:O	53:DU:22:LYS:C	2.57	0.47
54:DV:69:LYS:HE3	54:DV:71:LEU:HD21	1.97	0.47
1:AA:25:C:H2'	1:AA:26:A:C8	2.49	0.47
1:AA:184:G:O2'	1:AA:185:A:H5'	2.14	0.47
1:AA:255:G:O3'	17:AQ:17:LYS:HD2	2.15	0.47
1:AA:341:C:C2	1:AA:349:A:C2	3.03	0.47
1:AA:824:C:H2'	1:AA:825:G:C8	2.46	0.47
1:AA:1125:U:H2'	1:AA:1126:U:H2'	1.97	0.47
1:AA:1135:U:HO2'	1:AA:1136:U:H5	1.62	0.47
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.80	0.47
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.49	0.47
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.14	0.47
2:AB:77:ALA:O	2:AB:81:VAL:HG23	2.14	0.47
2:AB:164:VAL:CG1	2:AB:165:VAL:N	2.78	0.47
3:AC:59:ARG:HG2	3:AC:64:VAL:HA	1.95	0.47
3:AC:86:VAL:HG23	3:AC:87:LEU:HD23	1.97	0.47
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:58:LEU:C	4:AD:58:LEU:CD2	2.86	0.47
5:AE:11:ILE:HD12	5:AE:31:LEU:HD13	1.96	0.47
8:AH:19:VAL:CG2	8:AH:21:LYS:HE2	2.44	0.47
9:AI:42:ARG:O	9:AI:43:ALA:C	2.57	0.47
9:AI:95:LYS:NZ	9:AI:96:LEU:CD1	2.71	0.47
9:AI:114:TYR:HD1	10:AJ:60:ARG:HG3	1.79	0.47
11:AK:126:ARG:O	11:AK:127:LYS:C	2.57	0.47
14:AN:8:GLU:O	14:AN:11:LYS:HB2	2.14	0.47
16:AP:54:GLU:OE2	16:AP:54:GLU:HA	2.13	0.47
22:AV:36:U:O2	24:AY:502:GLY:HA2	2.15	0.47
22:AV:59:A:H2'	22:AV:60:U:H5'	1.97	0.47
22:AV:73:A:O3'	22:AV:74:C:C6	2.68	0.47
24:AY:87:HIS:NE2	24:AY:120:THR:OG1	2.47	0.47
24:AY:121:VAL:CG2	24:AY:122:TRP:N	2.77	0.47
24:AY:122:TRP:CE2	24:AY:157:LEU:HD12	2.49	0.47
24:AY:139:MET:CE	24:AY:146:LEU:HB2	2.45	0.47
24:AY:277:VAL:HG13	24:AY:278:ASP:H	1.79	0.47
24:AY:456:GLU:O	24:AY:457:LEU:C	2.58	0.47
24:AY:514:VAL:HG21	24:AY:593:ALA:HB1	1.94	0.47
24:AY:541:ALA:HB2	24:AY:579:GLU:HG3	1.96	0.47
24:AY:601:ILE:HG22	24:AY:601:ILE:O	2.15	0.47
25:B0:12:ASN:O	25:B0:14:ARG:N	2.41	0.47
30:B5:10:LYS:HB2	35:BA:2017:U:O2	2.14	0.47
30:B5:11:THR:OG1	35:BA:1263:U:O3'	2.33	0.47
30:B5:19:ARG:NH1	35:BA:1266:G:OP1	2.46	0.47
33:B8:42:ARG:HH11	35:BA:2350:C:H5	1.63	0.47
34:B9:29:ASN:O	34:B9:31:LYS:N	2.47	0.47
35:BA:112:U:C2'	35:BA:113:G:H5'	2.45	0.47
35:BA:460:A:C2	35:BA:470:A:C4	3.03	0.47
35:BA:1064:C:H42	35:BA:1074:G:H1	1.62	0.47
35:BA:1260:G:H2'	35:BA:1261:C:C6	2.50	0.47
35:BA:1534:U:H2'	35:BA:1535:A:O4'	2.14	0.47
35:BA:1683:C:H2'	35:BA:1684:C:H6	1.79	0.47
35:BA:1771:C:H2'	35:BA:1772:G:C8	2.49	0.47
35:BA:1783:A:C2	35:BA:2587:A:C4	3.01	0.47
35:BA:1808:U:H2'	35:BA:1809:A:O4'	2.15	0.47
35:BA:2148:G:O2'	35:BA:2149:G:H5'	2.14	0.47
35:BA:2163:C:H2'	35:BA:2164:C:H5'	1.96	0.47
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.78	0.47
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.95	0.47
36:BB:40:U:O2'	36:BB:43:C:C5	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:54:G:H2'	36:BB:55:U:H6	1.80	0.47
36:BB:95:C:O2'	36:BB:96:U:H5'	2.15	0.47
37:BC:11:LEU:C	37:BC:13:GLU:H	2.22	0.47
37:BC:29:LEU:O	37:BC:31:LYS:N	2.48	0.47
37:BC:73:VAL:O	37:BC:73:VAL:HG13	2.15	0.47
38:BD:26:LYS:O	38:BD:27:THR:HB	2.13	0.47
38:BD:28:GLU:HB2	38:BD:29:PRO:HD3	1.96	0.47
38:BD:55:GLY:O	38:BD:216:GLY:HA2	2.15	0.47
38:BD:77:ALA:HB2	38:BD:97:TYR:CG	2.50	0.47
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.50	0.47
38:BD:267:SER:C	38:BD:270:ILE:HD11	2.40	0.47
39:BE:30:PRO:O	39:BE:32:PRO:HD3	2.14	0.47
39:BE:76:ARG:O	39:BE:77:ILE:O	2.32	0.47
39:BE:92:THR:OG1	39:BE:95:ILE:HD11	2.15	0.47
40:BF:167:ALA:O	40:BF:169:ASN:N	2.48	0.47
41:BG:12:TYR:O	41:BG:16:ARG:HB2	2.14	0.47
41:BG:59:GLU:C	41:BG:61:ALA:H	2.22	0.47
41:BG:106:LEU:O	41:BG:111:LEU:HD12	2.14	0.47
42:BH:76:VAL:C	42:BH:78:GLY:H	2.21	0.47
44:BK:98:ARG:HD2	44:BK:139:VAL:HG22	1.97	0.47
46:BN:4:TYR:O	46:BN:5:VAL:C	2.57	0.47
46:BN:126:PRO:O	46:BN:127:ASP:CB	2.62	0.47
48:BP:83:VAL:HG13	48:BP:83:VAL:O	2.14	0.47
50:BR:3:HIS:O	50:BR:4:LEU:HB3	2.15	0.47
53:BU:59:ARG:HH11	53:BU:59:ARG:CG	2.26	0.47
53:BU:79:PHE:HE2	53:BU:83:LEU:HD11	1.80	0.47
54:BV:38:LEU:HD12	54:BV:56:SER:HA	1.95	0.47
55:BW:79:GLY:C	55:BW:100:THR:CG2	2.87	0.47
55:BW:107:LEU:HD22	55:BW:107:LEU:N	2.28	0.47
57:BY:95:LYS:CE	57:BY:101:LYS:H	2.27	0.47
58:BZ:27:VAL:N	58:BZ:37:VAL:HG22	2.29	0.47
1:CA:337:C:H2'	1:CA:338:A:H8	1.79	0.47
1:CA:473:G:H2'	1:CA:474:G:C8	2.46	0.47
1:CA:475:G:O2'	1:CA:476:G:H5'	2.15	0.47
1:CA:657:G:O2'	1:CA:658:G:H5'	2.14	0.47
1:CA:830:G:O2'	1:CA:831:U:H5'	2.14	0.47
1:CA:1004:A:H5'	1:CA:1025:U:C4	2.50	0.47
1:CA:1281:U:H5'	1:CA:1282:C:OP2	2.15	0.47
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.49	0.47
2:CB:22:LYS:HE2	2:CB:22:LYS:CA	2.38	0.47
2:CB:53:ARG:O	2:CB:53:ARG:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:60:ASP:O	2:CB:64:ARG:NE	2.48	0.47
2:CB:170:GLU:C	2:CB:172:ILE:HD12	2.40	0.47
4:CD:43:HIS:O	4:CD:45:GLN:N	2.48	0.47
4:CD:91:SER:O	4:CD:92:VAL:C	2.56	0.47
6:CF:12:PRO:C	6:CF:14:LEU:H	2.23	0.47
7:CG:75:VAL:HG21	7:CG:144:MET:HB3	1.96	0.47
9:CI:63:ILE:HG22	9:CI:64:THR:N	2.28	0.47
10:CJ:5:ARG:HG3	10:CJ:71:LEU:HD11	1.96	0.47
12:CL:86:ARG:HH22	12:CL:99:HIS:CD2	2.33	0.47
13:CM:79:LYS:HA	13:CM:82:MET:HG3	1.96	0.47
17:CQ:40:LYS:HD3	17:CQ:42:TYR:OH	2.15	0.47
17:CQ:45:HIS:HB2	17:CQ:65:ILE:HD13	1.97	0.47
17:CQ:50:LYS:O	17:CQ:50:LYS:HG3	2.13	0.47
22:CW:52:C:C2'	22:CW:53:G:H5''	2.45	0.47
24:CY:427:ALA:HB1	24:CY:466:LEU:HG	1.97	0.47
24:CY:526:VAL:CG1	24:CY:566:THR:HG23	2.45	0.47
24:CY:527:ASN:C	24:CY:527:ASN:ND2	2.73	0.47
24:CY:553:GLY:H	24:CY:557:GLY:C	2.22	0.47
26:D1:24:ALA:O	26:D1:27:GLU:O	2.33	0.47
27:D2:27:GLU:O	27:D2:28:LYS:C	2.58	0.47
28:D3:8:LEU:O	28:D3:31:LEU:HD22	2.15	0.47
30:D5:2:ALA:N	35:DA:2015:A:H1'	2.30	0.47
30:D5:3:LYS:CD	30:D5:5:PRO:HD2	2.40	0.47
31:D6:11:LEU:C	31:D6:11:LEU:HD13	2.39	0.47
31:D6:17:LYS:HB2	31:D6:44:ARG:NH1	2.27	0.47
33:D8:4:MET:SD	33:D8:61:LEU:HD22	2.55	0.47
33:D8:56:GLU:C	33:D8:58:ILE:N	2.71	0.47
35:DA:191:A:O2'	35:DA:192:C:H5'	2.15	0.47
35:DA:328:U:H4'	57:DY:68:HIS:NE2	2.29	0.47
35:DA:585:G:H2'	35:DA:1251:C:H42	1.79	0.47
35:DA:825:C:C2'	35:DA:826:U:H5'	2.45	0.47
35:DA:849:A:C8	35:DA:850:C:C5	3.02	0.47
35:DA:1534:U:H2'	35:DA:1535:A:O4'	2.13	0.47
35:DA:1582:C:O2'	35:DA:1583:A:H5'	2.15	0.47
35:DA:1858:G:O2'	35:DA:1884:A:N6	2.48	0.47
35:DA:2190:G:O2'	35:DA:2191:G:H5'	2.15	0.47
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	2.14	0.47
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.50	0.47
36:DB:20:C:C2'	36:DB:21:G:C5'	2.92	0.47
38:DD:85:ASP:CG	38:DD:88:ARG:HG2	2.40	0.47
38:DD:145:VAL:HG12	38:DD:146:GLU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:145:VAL:CG1	38:DD:146:GLU:N	2.77	0.47
39:DE:111:ARG:CZ	50:DR:2:ARG:NH2	2.78	0.47
40:DF:3:GLU:CB	40:DF:24:LEU:HG	2.43	0.47
40:DF:74:ARG:O	40:DF:75:HIS:CG	2.68	0.47
40:DF:167:ALA:O	40:DF:169:ASN:N	2.48	0.47
41:DG:32:PRO:HB3	41:DG:163:ALA:HB2	1.97	0.47
41:DG:53:LEU:N	41:DG:53:LEU:HD22	2.30	0.47
41:DG:56:ALA:HA	41:DG:59:GLU:OE1	2.14	0.47
41:DG:111:LEU:HA	41:DG:114:ILE:HD11	1.96	0.47
42:DH:175:LYS:O	42:DH:176:ALA:HB2	2.13	0.47
46:DN:15:LEU:HD13	46:DN:15:LEU:C	2.39	0.47
46:DN:15:LEU:CD2	46:DN:53:VAL:HB	2.45	0.47
46:DN:40:PRO:HB3	53:DU:68:ALA:HB2	1.97	0.47
47:DO:60:ALA:CA	47:DO:87:ILE:HD11	2.44	0.47
48:DP:85:LEU:HA	48:DP:88:LEU:HB3	1.96	0.47
49:DQ:3:MET:HG3	49:DQ:4:PRO:O	2.13	0.47
49:DQ:12:GLN:HE21	49:DQ:72:LYS:HA	1.79	0.47
49:DQ:32:TYR:N	49:DQ:32:TYR:CD1	2.82	0.47
49:DQ:35:VAL:O	49:DQ:129:THR:HG22	2.14	0.47
50:DR:65:LEU:HD12	50:DR:65:LEU:O	2.14	0.47
51:DS:70:GLY:O	51:DS:72:ALA:N	2.48	0.47
51:DS:89:ARG:HG3	51:DS:92:TYR:N	2.30	0.47
52:DT:29:ARG:HG2	52:DT:85:LYS:HA	1.96	0.47
52:DT:48:ILE:HD12	52:DT:48:ILE:N	2.30	0.47
52:DT:102:ILE:O	52:DT:103:ARG:C	2.57	0.47
54:DV:39:LEU:HA	54:DV:47:VAL:HG11	1.96	0.47
55:DW:66:GLU:HA	55:DW:69:LEU:CD1	2.44	0.47
57:DY:13:VAL:CG2	57:DY:73:ARG:O	2.63	0.47
57:DY:37:VAL:HG23	57:DY:38:ILE:N	2.30	0.47
58:DZ:6:LYS:O	58:DZ:39:VAL:HG12	2.14	0.47
58:DZ:9:TYR:CD1	58:DZ:35:ARG:NH2	2.77	0.47
58:DZ:79:ARG:O	58:DZ:80:ARG:CB	2.62	0.47
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD11	1.93	0.47
58:DZ:176:PRO:O	58:DZ:177:PRO:O	2.32	0.47
1:AA:37:U:O2'	1:AA:500:G:H4'	2.15	0.47
1:AA:201:C:C2'	1:AA:202:U:H5''	2.44	0.47
1:AA:1231:G:C2'	1:AA:1232:U:H5'	2.45	0.47
2:AB:126:GLU:O	2:AB:129:GLU:OE2	2.33	0.47
4:AD:22:LYS:O	4:AD:113:SER:HB3	2.15	0.47
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	2.13	0.47
10:AJ:4:ILE:HB	10:AJ:74:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CD1	2.37	0.47
12:AL:70:ILE:HG21	12:AL:77:LEU:HD12	1.96	0.47
13:AM:63:THR:CG2	13:AM:64:TRP:H	2.24	0.47
17:AQ:51:TYR:CZ	17:AQ:73:VAL:HG11	2.50	0.47
19:AS:6:LYS:H	19:AS:6:LYS:CD	2.28	0.47
19:AS:9:VAL:C	19:AS:11:VAL:N	2.73	0.47
24:AY:432:ALA:HA	24:AY:438:PHE:CZ	2.50	0.47
24:AY:495:GLY:O	24:AY:510:VAL:N	2.43	0.47
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.80	0.47
27:B2:36:ARG:O	27:B2:37:PHE:C	2.56	0.47
29:B4:26:SER:HB3	41:BG:105:LYS:NZ	2.30	0.47
29:B4:50:VAL:O	29:B4:51:ASP:CB	2.62	0.47
31:B6:11:LEU:HB3	31:B6:26:ASN:HD21	1.79	0.47
31:B6:47:THR:CG2	31:B6:49:HIS:CE1	2.97	0.47
33:B8:37:SER:O	33:B8:38:GLY:C	2.56	0.47
35:BA:76:C:O2'	35:BA:77:C:H5'	2.14	0.47
35:BA:112:U:H2'	35:BA:113:G:H5'	1.96	0.47
35:BA:286:C:H2'	35:BA:287:C:H6	1.77	0.47
35:BA:654(R):C:O2'	35:BA:654(S):G:H8	1.98	0.47
35:BA:733:G:O6	35:BA:761:A:C8	2.68	0.47
35:BA:775:G:O6	35:BA:787:U:H2'	2.14	0.47
35:BA:946:G:H2'	35:BA:947:G:H8	1.80	0.47
35:BA:1052:C:O4'	35:BA:1052:C:P	2.73	0.47
35:BA:1064:C:H5''	44:BK:86:LYS:HB2	1.97	0.47
35:BA:1115:G:H5'	35:BA:1115:G:C8	2.47	0.47
35:BA:1436:G:H1'	35:BA:1477:A:O2'	2.15	0.47
35:BA:1902:C:H4'	38:BD:244:ARG:CB	2.44	0.47
35:BA:2888:C:H2'	35:BA:2889:C:C6	2.49	0.47
37:BC:126:SER:C	37:BC:128:LEU:H	2.22	0.47
39:BE:6:GLY:HA2	39:BE:27:LEU:O	2.15	0.47
39:BE:14:ILE:HD11	39:BE:173:VAL:HG11	1.96	0.47
39:BE:38:THR:CG2	39:BE:40:GLU:HB2	2.45	0.47
39:BE:119:ARG:HD2	39:BE:120:TRP:CE2	2.49	0.47
39:BE:174:ASP:OD2	39:BE:175:VAL:N	2.48	0.47
40:BF:83:PHE:O	40:BF:84:VAL:C	2.57	0.47
40:BF:185:ASP:HA	40:BF:188:ARG:HD3	1.95	0.47
42:BH:157:TYR:CE1	42:BH:171:LEU:HD21	2.23	0.47
45:BL:89:UNK:O	45:BL:94:UNK:N	2.48	0.47
49:BQ:24:GLY:CA	49:BQ:67:ARG:HH12	2.28	0.47
52:BT:102:ILE:HB	52:BT:110:ILE:HD12	1.96	0.47
53:BU:90:VAL:HG13	54:BV:39:LEU:HG	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:32:THR:HG22	54:BV:33:VAL:N	2.30	0.47
56:BX:90:GLU:HA	56:BX:93:GLU:HG2	1.96	0.47
1:CA:189(A):C:H2'	1:CA:189(B):C:C6	2.49	0.47
1:CA:189(C):C:H2'	1:CA:189(D):C:O4'	2.15	0.47
1:CA:452:A:H4'	16:CP:72:ARG:CZ	2.44	0.47
1:CA:470:C:C2'	1:CA:471:G:OP1	2.63	0.47
1:CA:631:G:C2'	1:CA:632:A:C8	2.94	0.47
1:CA:636:U:H2'	1:CA:637:G:H8	1.80	0.47
1:CA:1082:G:C2'	1:CA:1083:U:H5'	2.45	0.47
1:CA:1123:A:H61	1:CA:1149:C:N4	2.13	0.47
2:CB:77:ALA:HA	2:CB:80:ILE:HD13	1.96	0.47
3:CC:151:VAL:CG1	3:CC:152:ILE:N	2.77	0.47
6:CF:21:LEU:O	6:CF:24:GLU:HB3	2.14	0.47
7:CG:18:TYR:HD2	7:CG:59:LEU:HD13	1.79	0.47
11:CK:22:HIS:C	11:CK:22:HIS:CD2	2.92	0.47
13:CM:37:THR:HG21	13:CM:56:LEU:HA	1.96	0.47
14:CN:8:GLU:O	14:CN:11:LYS:HB2	2.15	0.47
18:CR:66:LEU:HG	18:CR:70:ILE:CD1	2.44	0.47
22:CW:62:C:O2'	22:CW:63:C:H5'	2.14	0.47
24:CY:290:LYS:HB3	24:CY:298:VAL:CG2	2.44	0.47
24:CY:346:LYS:NZ	24:CY:384:ILE:HD11	2.29	0.47
24:CY:421:GLN:O	24:CY:424:LEU:HB3	2.15	0.47
29:D4:12:ALA:HB2	29:D4:29:PRO:HA	1.97	0.47
29:D4:14:ILE:O	29:D4:15:ILE:HD13	2.15	0.47
34:D9:16:VAL:HA	34:D9:25:VAL:HG22	1.97	0.47
35:DA:325:G:O2'	35:DA:326:G:H5'	2.14	0.47
35:DA:654(S):G:C5	35:DA:654(T):C:H1'	2.50	0.47
35:DA:754:C:H2'	35:DA:755:C:C6	2.50	0.47
35:DA:925:C:C4	35:DA:926:A:N7	2.83	0.47
35:DA:1155:A:O3'	53:DU:55:ARG:NH1	2.48	0.47
35:DA:1639:U:HO2'	35:DA:1640:C:H5''	1.80	0.47
35:DA:1774:C:H6	35:DA:1774:C:O5'	1.97	0.47
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.48	0.47
35:DA:2203:U:H1'	38:DD:151:LYS:HE3	1.97	0.47
35:DA:2476:A:C2	35:DA:2477:C:C6	3.03	0.47
35:DA:2745:C:C4	35:DA:2746:U:C4	3.03	0.47
37:DC:132:LEU:HB3	37:DC:137:LEU:C	2.40	0.47
37:DC:156:GLU:OE1	37:DC:161:ARG:HD3	2.15	0.47
37:DC:225:ILE:HD12	37:DC:225:ILE:C	2.39	0.47
41:DG:46:ALA:HA	41:DG:51:ARG:HB2	1.97	0.47
46:DN:134:ARG:O	46:DN:134:ARG:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:136:ALA:C	49:DQ:138:ASP:H	2.20	0.47
50:DR:118:GLU:HA	50:DR:118:GLU:OE1	2.15	0.47
51:DS:33:LYS:HG2	51:DS:34:HIS:CD2	2.49	0.47
54:DV:19:LYS:HE2	54:DV:19:LYS:HA	1.96	0.47
1:AA:98:G:H2'	1:AA:99:U:O4'	2.15	0.47
1:AA:720:C:H6	1:AA:720:C:O5'	1.98	0.47
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.79	0.47
3:AC:134:ILE:O	3:AC:135:LYS:C	2.58	0.47
4:AD:179:GLU:C	4:AD:181:MET:H	2.23	0.47
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.96	0.47
9:AI:117:HIS:C	9:AI:118:LYS:HG3	2.40	0.47
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.14	0.47
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.45	0.47
10:AJ:22:LYS:C	10:AJ:24:VAL:H	2.23	0.47
12:AL:33:ARG:HG3	12:AL:60:LEU:HD12	1.96	0.47
12:AL:59:ARG:CZ	24:AY:422:GLU:OE2	2.62	0.47
14:AN:41:ARG:NH1	14:AN:41:ARG:CG	2.78	0.47
15:AO:43:LEU:C	15:AO:45:VAL:H	2.21	0.47
20:AT:74:LYS:HB2	20:AT:75:ASN:H	1.47	0.47
24:AY:17:ILE:HG22	24:AY:25:LYS:HG2	1.96	0.47
24:AY:346:LYS:HE2	24:AY:384:ILE:HG12	1.97	0.47
24:AY:420:ASP:N	24:AY:420:ASP:OD2	2.45	0.47
24:AY:590:ILE:C	24:AY:592:GLU:N	2.73	0.47
25:B0:55:ARG:HE	25:B0:55:ARG:HB3	1.46	0.47
30:B5:56:LYS:O	30:B5:57:VAL:O	2.32	0.47
31:B6:15:GLU:N	31:B6:49:HIS:CD2	2.83	0.47
33:B8:55:ALA:O	33:B8:59:LYS:HE2	2.15	0.47
34:B9:17:ILE:HG22	34:B9:18:ARG:H	1.80	0.47
35:BA:272(H):C:C2'	35:BA:272(I):U:H5''	2.42	0.47
35:BA:363(F):A:H1'	35:BA:364:C:H5	1.79	0.47
35:BA:548:A:H2'	35:BA:548:A:N3	2.29	0.47
35:BA:769:G:H4'	35:BA:1379:A:N1	2.30	0.47
35:BA:1132:A:H2'	35:BA:1133:U:H6	1.80	0.47
35:BA:1539:G:N3	35:BA:1540:U:H1'	2.29	0.47
35:BA:1805:U:H2'	35:BA:1806:C:H6	1.79	0.47
35:BA:1948:G:H8	35:BA:1948:G:C5'	2.28	0.47
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.44	0.47
38:BD:155:LEU:N	38:BD:155:LEU:CD1	2.77	0.47
39:BE:37:ARG:HA	39:BE:42:ASP:OD2	2.15	0.47
39:BE:107:THR:HA	39:BE:163:GLU:O	2.15	0.47
46:BN:15:LEU:HB2	46:BN:134:ARG:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:131:GLN:NE2	46:BN:133:GLN:N	2.63	0.47
48:BP:32:THR:HG22	48:BP:37:GLY:HA2	1.97	0.47
48:BP:112:LEU:HD22	48:BP:113:LYS:N	2.29	0.47
52:BT:50:ILE:HA	52:BT:99:LEU:HD11	1.96	0.47
52:BT:74:ARG:C	52:BT:75:ILE:HD12	2.40	0.47
54:BV:19:LYS:HZ3	54:BV:20:LEU:H	1.63	0.47
54:BV:39:LEU:HA	54:BV:47:VAL:HG11	1.95	0.47
57:BY:56:PRO:O	57:BY:57:GLN:HB2	2.14	0.47
57:BY:105:ALA:O	57:BY:106:LEU:HB2	2.15	0.47
58:BZ:96:VAL:HG22	58:BZ:97:GLU:N	2.30	0.47
58:BZ:121:HIS:CD2	58:BZ:123:ASP:O	2.68	0.47
1:CA:142:G:H1	1:CA:221:C:H42	1.63	0.47
1:CA:203:U:H5'	1:CA:216:G:N2	2.30	0.47
1:CA:812:C:O2'	1:CA:813:U:P	2.73	0.47
1:CA:1209:C:O2'	1:CA:1210:C:H5'	2.15	0.47
3:CC:72:LYS:HE3	3:CC:72:LYS:C	2.40	0.47
3:CC:72:LYS:HE3	3:CC:72:LYS:CA	2.45	0.47
3:CC:131:ARG:HH22	3:CC:168:ALA:HB2	1.78	0.47
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.79	0.47
5:CE:144:THR:O	5:CE:146:ALA:N	2.48	0.47
6:CF:91:VAL:CG1	6:CF:92:LYS:N	2.77	0.47
12:CL:41:ARG:NH1	12:CL:41:ARG:CB	2.78	0.47
22:CW:14:A:C4	22:CW:23:G:N2	2.83	0.47
24:CY:314:PHE:CZ	24:CY:327:PHE:HB3	2.50	0.47
24:CY:454:MET:N	24:CY:458:HIS:HD2	2.12	0.47
24:CY:507:TYR:C	24:CY:507:TYR:HD1	2.22	0.47
24:CY:632:LEU:CD1	24:CY:645:ALA:HA	2.44	0.47
61:CY:702:FUA:O4	61:CY:702:FUA:C31	2.62	0.47
27:D2:61:LEU:HD12	35:DA:72:U:H6	1.77	0.47
28:D3:7:LYS:HE3	28:D3:32:GLN:O	2.15	0.47
33:D8:28:GLY:H	35:DA:2393:A:P	2.37	0.47
35:DA:706:A:H2'	35:DA:707:G:O4'	2.15	0.47
35:DA:1241:A:H2'	35:DA:1242:A:O4'	2.15	0.47
35:DA:1336:A:O2'	35:DA:1337:G:H5'	2.15	0.47
35:DA:2056:G:N2	35:DA:2057:A:N9	2.63	0.47
35:DA:2170:A:H5''	37:DC:135:ARG:HE	1.80	0.47
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.15	0.47
35:DA:2759:G:O2'	35:DA:2760:C:H5'	2.14	0.47
35:DA:2762:G:H8	35:DA:2762:G:C5'	2.26	0.47
35:DA:2787:C:O2	39:DE:61:ARG:HD3	2.15	0.47
36:DB:51:G:H5'	36:DB:52:A:OP2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:126:SER:C	37:DC:128:LEU:H	2.23	0.47
37:DC:150:ILE:O	37:DC:154:ILE:HG13	2.15	0.47
39:DE:145:LYS:O	39:DE:146:THR:C	2.58	0.47
40:DF:36:VAL:O	40:DF:39:TRP:HB3	2.15	0.47
40:DF:157:VAL:O	40:DF:157:VAL:HG23	2.15	0.47
41:DG:147:ASP:C	41:DG:149:VAL:N	2.73	0.47
43:DJ:8:UNK:C	43:DJ:10:UNK:N	2.78	0.47
43:DJ:95:UNK:C	43:DJ:97:UNK:N	2.78	0.47
44:DK:2:LYS:HB2	44:DK:2:LYS:NZ	2.30	0.47
44:DK:30:HIS:CG	44:DK:59:ILE:HB	2.50	0.47
46:DN:14:VAL:HG11	46:DN:137:LYS:CD	2.45	0.47
47:DO:22:ILE:O	47:DO:23:ARG:HB3	2.14	0.47
48:DP:99:LEU:HG	48:DP:100:LEU:HD22	1.96	0.47
51:DS:14:VAL:CG1	51:DS:16:ASN:HD22	2.28	0.47
52:DT:10:VAL:C	52:DT:12:SER:H	2.22	0.47
52:DT:30:VAL:HG21	52:DT:83:ILE:CG1	2.44	0.47
56:DX:7:VAL:HB	56:DX:8:ILE:HD12	1.96	0.47
56:DX:28:PHE:CD1	56:DX:28:PHE:N	2.83	0.47
58:DZ:163:LEU:H	58:DZ:163:LEU:CD2	2.24	0.47
1:AA:337:C:H2'	1:AA:338:A:H8	1.79	0.47
1:AA:738:C:H2'	1:AA:739:C:H6	1.80	0.47
1:AA:1010:G:C6	1:AA:1020:U:H1'	2.50	0.47
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.47	0.47
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.55	0.47
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.63	0.47
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.96	0.47
1:AA:1485:U:O2'	1:AA:1486:G:H5'	2.15	0.47
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.96	0.47
2:AB:81:VAL:O	2:AB:82:ARG:C	2.58	0.47
3:AC:69:HIS:HA	3:AC:104:GLN:HB2	1.97	0.47
3:AC:112:SER:OG	3:AC:114:PRO:HD2	2.15	0.47
3:AC:139:GLN:O	3:AC:140:ARG:C	2.57	0.47
4:AD:133:VAL:HG12	4:AD:134:ASP:N	2.30	0.47
9:AI:63:ILE:HG22	9:AI:64:THR:N	2.29	0.47
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	2.16	0.47
10:AJ:63:PHE:HB3	14:AN:58:LYS:CA	2.41	0.47
13:AM:61:GLU:OE2	41:BG:113:ARG:NH2	2.46	0.47
13:AM:86:CYS:HA	19:AS:73:GLU:O	2.15	0.47
16:AP:67:THR:N	16:AP:70:ALA:HB3	2.30	0.47
18:AR:31:LEU:HD23	18:AR:31:LEU:N	2.23	0.47
18:AR:79:LEU:HD22	18:AR:80:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:33:ILE:HG21	20:AT:63:ILE:HG12	1.97	0.47
20:AT:81:LYS:C	20:AT:83:ARG:H	2.23	0.47
24:AY:119:GLU:OE1	24:AY:666:ARG:HG2	2.15	0.47
24:AY:139:MET:HG3	24:AY:260:LEU:HB2	1.97	0.47
24:AY:205:TYR:O	24:AY:206:LEU:C	2.57	0.47
24:AY:409:ILE:HG22	24:AY:459:LEU:HD13	1.97	0.47
24:AY:635:GLU:HA	24:AY:636:PRO:HD2	1.74	0.47
28:B3:7:LYS:HE3	28:B3:32:GLN:O	2.15	0.47
28:B3:46:ASN:O	28:B3:49:LYS:N	2.47	0.47
31:B6:11:LEU:HD12	31:B6:25:LYS:HA	1.97	0.47
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.95	0.47
35:BA:154(A):C:H42	35:BA:172:C:N4	2.13	0.47
35:BA:325:G:H2'	35:BA:326:G:H8	1.80	0.47
35:BA:519:U:O2'	35:BA:520:G:H5'	2.15	0.47
35:BA:894:C:C2'	35:BA:895:U:H5'	2.45	0.47
35:BA:1022:G:O2'	35:BA:1023:U:P	2.72	0.47
35:BA:1416:G:O2'	35:BA:1417:C:H5	1.98	0.47
35:BA:1491:G:O2'	38:BD:101:GLU:HB2	2.14	0.47
35:BA:2415:G:H2'	35:BA:2416:C:C6	2.50	0.47
35:BA:2453:A:H2'	35:BA:2454:G:C8	2.48	0.47
35:BA:2464:C:O2'	35:BA:2465:C:H6	1.97	0.47
35:BA:2551:C:H2'	35:BA:2552:U:C6	2.51	0.47
35:BA:2552:U:C2	35:BA:2554:U:C5'	2.97	0.47
35:BA:2762:G:H2'	35:BA:2763:G:H5'	1.97	0.47
38:BD:117:VAL:CG2	38:BD:118:VAL:N	2.78	0.47
40:BF:167:ALA:C	40:BF:170:LEU:HD23	2.39	0.47
40:BF:176:LEU:HD11	40:BF:180:GLY:HA3	1.97	0.47
40:BF:205:ARG:O	40:BF:206:ILE:HD13	2.15	0.47
41:BG:29:TRP:O	41:BG:31:VAL:N	2.48	0.47
41:BG:157:ILE:CG2	41:BG:158:ALA:N	2.78	0.47
42:BH:13:LYS:O	42:BH:15:VAL:N	2.37	0.47
42:BH:70:THR:HG22	42:BH:74:ASN:ND2	2.30	0.47
42:BH:152:ARG:O	42:BH:153:LYS:C	2.56	0.47
44:BK:30:HIS:CG	44:BK:59:ILE:HB	2.50	0.47
44:BK:108:ALA:O	44:BK:112:MET:HB3	2.15	0.47
46:BN:2:LYS:NZ	54:BV:12:TYR:HA	2.27	0.47
46:BN:65:LYS:CB	46:BN:69:GLN:HG3	2.42	0.47
48:BP:112:LEU:H	48:BP:128:HIS:HD2	1.61	0.47
49:BQ:59:ARG:O	49:BQ:60:ARG:HB2	2.15	0.47
50:BR:26:LYS:HE2	50:BR:71:GLN:H	1.79	0.47
51:BS:17:ARG:C	51:BS:19:LYS:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:25:ARG:CG	51:BS:26:LEU:N	2.78	0.47
51:BS:42:ASP:O	51:BS:43:GLU:HB2	2.14	0.47
52:BT:7:ILE:O	52:BT:10:VAL:HB	2.14	0.47
1:CA:355:C:C4	1:CA:356:A:N7	2.83	0.47
1:CA:509:A:H3'	1:CA:510:A:C8	2.50	0.47
1:CA:720:C:O5'	1:CA:720:C:H6	1.98	0.47
1:CA:830:G:H2'	1:CA:831:U:C6	2.50	0.47
1:CA:836:G:C6	1:CA:851:G:C6	3.03	0.47
1:CA:1253:G:C2	1:CA:1254:C:C2	3.02	0.47
1:CA:1321:C:C5'	1:CA:1322:C:C5'	2.93	0.47
1:CA:1422:G:H2'	1:CA:1423:G:C8	2.50	0.47
1:CA:1490:C:C5'	1:CA:1490:C:C6	2.92	0.47
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.14	0.47
7:CG:82:GLY:HA3	23:CX:13:A:C2	2.48	0.47
8:CH:29:SER:OG	8:CH:32:LYS:HG3	2.15	0.47
9:CI:5:TYR:CG	9:CI:6:GLY:N	2.83	0.47
10:CJ:90:LEU:H	10:CJ:91:PRO:HD3	1.80	0.47
18:CR:26:LEU:HD21	18:CR:42:ARG:NH1	2.30	0.47
19:CS:6:LYS:HE3	19:CS:6:LYS:N	2.29	0.47
19:CS:35:SER:C	19:CS:37:ARG:H	2.22	0.47
19:CS:48:THR:HG22	19:CS:61:TYR:HD1	1.80	0.47
20:CT:11:SER:HA	20:CT:13:LEU:CD1	2.44	0.47
24:CY:237:PRO:HB2	24:CY:242:LEU:HG	1.97	0.47
24:CY:457:LEU:O	24:CY:460:GLU:N	2.48	0.47
24:CY:459:LEU:HD12	24:CY:460:GLU:H	1.80	0.47
24:CY:515:GLU:HG3	24:CY:564:LYS:HB3	1.97	0.47
24:CY:615:GLU:OE2	24:CY:666:ARG:NH2	2.48	0.47
26:D1:4:VAL:HG22	26:D1:5:CYS:N	2.30	0.47
26:D1:44:PRO:O	35:DA:2230:G:H4'	2.15	0.47
26:D1:83:GLU:C	26:D1:83:GLU:OE2	2.58	0.47
28:D3:43:ILE:O	28:D3:47:VAL:HG23	2.15	0.47
31:D6:33:LYS:HG2	31:D6:34:LEU:H	1.80	0.47
35:DA:834:C:O2'	35:DA:835:A:H5'	2.15	0.47
35:DA:1034:G:OP1	35:DA:1034:G:H8	1.98	0.47
35:DA:1582:C:O2'	35:DA:1586:A:C8	2.66	0.47
35:DA:1688:U:O2	35:DA:1700:A:H5''	2.15	0.47
35:DA:2483:C:H5'	35:DA:2484:G:OP2	2.15	0.47
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.50	0.47
35:DA:2839:G:H2'	35:DA:2840:C:H6	1.79	0.47
37:DC:34:ALA:CB	37:DC:179:ALA:HB2	2.44	0.47
38:DD:34:VAL:O	38:DD:36:PRO:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:55:GLY:O	38:DD:216:GLY:HA2	2.15	0.47
39:DE:36:ARG:NH2	39:DE:88:GLY:N	2.61	0.47
39:DE:69:LYS:HD3	39:DE:89:ASP:HA	1.97	0.47
40:DF:121:GLY:C	40:DF:123:LEU:H	2.23	0.47
41:DG:82:LEU:HD22	41:DG:87:PRO:HB3	1.96	0.47
41:DG:142:PRO:HG2	41:DG:143:GLU:CD	2.39	0.47
46:DN:16:ILE:O	46:DN:54:VAL:HA	2.15	0.47
46:DN:131:GLN:NE2	46:DN:133:GLN:N	2.62	0.47
47:DO:52:VAL:C	47:DO:53:LYS:HG3	2.39	0.47
48:DP:25:SER:O	48:DP:30:THR:OG1	2.30	0.47
49:DQ:62:GLY:O	58:DZ:178:GLU:OE1	2.32	0.47
50:DR:56:LYS:C	50:DR:58:GLY:H	2.22	0.47
52:DT:128:GLU:O	52:DT:129:ARG:HD3	2.15	0.47
52:DT:134:GLU:O	52:DT:135:ALA:CB	2.62	0.47
53:DU:110:VAL:HG12	53:DU:114:LYS:HD2	1.93	0.47
55:DW:62:HIS:O	55:DW:63:ASP:C	2.58	0.47
57:DY:31:LEU:HD22	57:DY:31:LEU:H	1.77	0.47
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD11	1.95	0.47
1:AA:8:A:C6	4:AD:209:ARG:HB2	2.50	0.46
1:AA:738:C:H5''	6:AF:69:GLU:HB2	1.95	0.46
1:AA:1010:G:N1	1:AA:1020:U:H1'	2.30	0.46
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.78	0.46
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.46	0.46
1:AA:1458:G:C6	1:AA:1459:C:C4	3.03	0.46
3:AC:78:GLY:HA3	3:AC:83:ARG:HB3	1.96	0.46
5:AE:53:LEU:O	5:AE:56:GLN:HB3	2.15	0.46
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.97	0.46
9:AI:10:ARG:CZ	9:AI:105:ASP:OD2	2.63	0.46
10:AJ:61:GLU:HG3	14:AN:58:LYS:CE	2.45	0.46
13:AM:22:ILE:HD12	13:AM:22:ILE:N	2.30	0.46
13:AM:45:VAL:HA	13:AM:48:LEU:CD1	2.45	0.46
16:AP:57:ARG:O	16:AP:58:TYR:C	2.57	0.46
19:AS:5:LEU:HG	19:AS:10:PHE:HD1	1.80	0.46
22:AW:51:U:H3	22:AW:65:G:H1	1.63	0.46
24:AY:74:TRP:NE1	24:AY:273:LEU:HB3	2.30	0.46
24:AY:182:ARG:HG3	24:AY:182:ARG:HH11	1.80	0.46
24:AY:289:ILE:CD1	24:AY:331:TYR:CZ	2.97	0.46
27:B2:69:ARG:HH12	35:BA:111:A:H5'	1.79	0.46
30:B5:51:TYR:HD2	30:B5:52:TYR:H	1.62	0.46
32:B7:12:ARG:HH11	32:B7:12:ARG:HG3	1.79	0.46
33:B8:4:MET:O	33:B8:62:LEU:CD1	2.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(J):C:O2	35:BA:271(J):C:C2'	2.63	0.46
35:BA:718:A:H2'	35:BA:719:C:O4'	2.16	0.46
35:BA:1045:A:O2'	35:BA:1047:G:C5	2.68	0.46
35:BA:1555:G:H2'	35:BA:1555:G:N3	2.30	0.46
35:BA:1680:U:H2'	35:BA:1681:G:O4'	2.14	0.46
35:BA:2305:A:H2'	35:BA:2306:C:O4'	2.15	0.46
35:BA:2476:A:C2	35:BA:2477:C:C6	3.03	0.46
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	2.15	0.46
35:BA:2820:A:HO2'	35:BA:2821:A:P	2.36	0.46
37:BC:79:ALA:O	37:BC:120:VAL:HG11	2.15	0.46
38:BD:77:ALA:HB2	38:BD:97:TYR:HA	1.97	0.46
38:BD:227:ASN:O	38:BD:228:PRO:C	2.58	0.46
39:BE:68:ALA:HB3	39:BE:69:LYS:HE2	1.98	0.46
39:BE:142:GLY:C	39:BE:143:ASN:ND2	2.73	0.46
40:BF:2:LYS:CG	40:BF:25:PRO:HG2	2.45	0.46
40:BF:3:GLU:CB	40:BF:24:LEU:HG	2.43	0.46
41:BG:9:ARG:HD3	41:BG:13:GLU:OE1	2.15	0.46
41:BG:54:GLU:C	41:BG:57:ALA:HB3	2.39	0.46
42:BH:120:GLY:C	42:BH:121:ILE:HG13	2.40	0.46
46:BN:15:LEU:O	46:BN:136:GLU:HA	2.16	0.46
47:BO:87:ILE:HG22	47:BO:92:GLU:C	2.40	0.46
48:BP:106:LEU:HD11	48:BP:112:LEU:HD23	1.97	0.46
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.27	0.46
50:BR:51:LEU:H	50:BR:51:LEU:HD12	1.80	0.46
51:BS:19:LYS:C	51:BS:20:ARG:CZ	2.88	0.46
52:BT:117:ASP:O	52:BT:118:ARG:C	2.58	0.46
53:BU:66:ASN:O	53:BU:68:ALA:N	2.48	0.46
57:BY:37:VAL:HG23	57:BY:38:ILE:N	2.30	0.46
58:BZ:144:LEU:HD11	58:BZ:150:LEU:HD22	1.96	0.46
1:CA:308:C:H2'	1:CA:309:G:H8	1.80	0.46
1:CA:396:G:O2'	1:CA:398:C:OP1	2.26	0.46
1:CA:965:A:C2	1:CA:969:A:N1	2.83	0.46
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.80	0.46
2:CB:81:VAL:O	2:CB:82:ARG:C	2.59	0.46
4:CD:29:PRO:O	4:CD:30:LYS:CB	2.61	0.46
5:CE:8:GLU:HA	5:CE:34:VAL:HA	1.96	0.46
10:CJ:79:ARG:HH11	10:CJ:79:ARG:N	2.13	0.46
11:CK:93:GLN:O	11:CK:94:ALA:C	2.57	0.46
12:CL:24:VAL:O	12:CL:24:VAL:HG12	2.16	0.46
12:CL:110:VAL:CG2	12:CL:120:TYR:HB3	2.44	0.46
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:2:VAL:HG22	16:CP:2:VAL:O	2.14	0.46
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.15	0.46
17:CQ:45:HIS:CG	17:CQ:65:ILE:HD13	2.50	0.46
19:CS:11:VAL:O	19:CS:11:VAL:HG13	2.16	0.46
20:CT:86:ARG:HG3	20:CT:86:ARG:NH1	2.30	0.46
22:CW:8:U:H3	22:CW:14:A:H62	1.62	0.46
24:CY:19:ALA:C	24:CY:121:VAL:HG11	2.40	0.46
24:CY:34:TYR:O	24:CY:38:ARG:HB2	2.15	0.46
24:CY:216:LEU:O	24:CY:220:ALA:N	2.46	0.46
24:CY:319:ASP:OD2	24:CY:322:VAL:HG22	2.15	0.46
24:CY:530:VAL:HG13	24:CY:531:GLY:N	2.29	0.46
25:D0:51:VAL:HG22	25:D0:81:VAL:CG2	2.43	0.46
27:D2:69:ARG:HH22	35:DA:111:A:C4'	2.28	0.46
29:D4:30:GLU:C	29:D4:31:ILE:HD12	2.39	0.46
30:D5:36:CYS:SG	30:D5:49:CYS:HB3	2.55	0.46
31:D6:9:LEU:O	31:D6:9:LEU:HD13	2.15	0.46
31:D6:43:CYS:CB	31:D6:44:ARG:HH21	2.23	0.46
33:D8:48:PHE:HB3	33:D8:49:VAL:H	1.45	0.46
35:DA:345:A:O2'	35:DA:346:A:N7	2.47	0.46
35:DA:604:G:O2'	35:DA:605:C:H5'	2.15	0.46
35:DA:725:G:C6	35:DA:726:G:N1	2.83	0.46
35:DA:733:G:O6	35:DA:761:A:C8	2.68	0.46
35:DA:797:C:P	40:DF:62:ARG:HG3	2.55	0.46
35:DA:894:C:C2'	35:DA:895:U:H5'	2.46	0.46
35:DA:1181:C:O2'	35:DA:1182:A:H5'	2.15	0.46
35:DA:1326:U:H5''	35:DA:2011:U:H1'	1.96	0.46
35:DA:1362:C:H2'	35:DA:1363:C:H6	1.80	0.46
35:DA:1448:G:N3	35:DA:1528(A):A:H2	2.13	0.46
35:DA:1843:C:H2'	35:DA:1844:C:H6	1.78	0.46
35:DA:2001:A:H4'	35:DA:2689:U:H2'	1.98	0.46
35:DA:2137:C:O2'	35:DA:2138:C:H5'	2.15	0.46
35:DA:2393:A:H5'	48:DP:60:MET:O	2.15	0.46
39:DE:68:ALA:O	39:DE:70:ALA:N	2.48	0.46
39:DE:168:MET:HE1	39:DE:202:LYS:HE2	1.96	0.46
40:DF:18:ARG:CZ	40:DF:199:TRP:CZ3	2.98	0.46
46:DN:90:MET:HB3	46:DN:98:VAL:HG22	1.97	0.46
47:DO:114:ILE:H	47:DO:114:ILE:CD1	2.22	0.46
49:DQ:21:THR:CG2	49:DQ:101:ARG:HB2	2.44	0.46
51:DS:42:ASP:O	51:DS:43:GLU:HB2	2.15	0.46
52:DT:102:ILE:HB	52:DT:110:ILE:CD1	2.45	0.46
52:DT:118:ARG:HA	52:DT:121:ILE:CB	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:83:LEU:CD1	53:DU:83:LEU:N	2.73	0.46
55:DW:25:ARG:NH1	55:DW:25:ARG:HB2	2.30	0.46
57:DY:10:GLY:C	57:DY:27:VAL:HG13	2.40	0.46
58:DZ:61:LEU:N	58:DZ:65:GLN:O	2.43	0.46
1:AA:190:U:O2	20:AT:105:SER:HB2	2.15	0.46
1:AA:719:C:O2	18:AR:50:ILE:HG12	2.15	0.46
2:AB:189:ASP:OD2	2:AB:205:ASP:OD1	2.33	0.46
2:AB:233:SER:CB	2:AB:234:PRO:HD2	2.44	0.46
3:AC:32:LEU:HB3	3:AC:59:ARG:HH22	1.81	0.46
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.45	0.46
5:AE:11:ILE:HD13	5:AE:105:VAL:HG13	1.97	0.46
5:AE:78:HIS:CE1	5:AE:80:ILE:HG23	2.50	0.46
6:AF:20:ALA:O	6:AF:21:LEU:C	2.59	0.46
7:AG:18:TYR:HD2	7:AG:59:LEU:HD13	1.79	0.46
10:AJ:63:PHE:HB2	14:AN:57:ARG:O	2.15	0.46
12:AL:58:VAL:O	12:AL:65:GLU:HA	2.14	0.46
24:AY:227:ILE:CD1	24:AY:242:LEU:HA	2.45	0.46
24:AY:337:SER:HB2	24:AY:355:LEU:HD23	1.98	0.46
24:AY:553:GLY:H	24:AY:557:GLY:C	2.23	0.46
24:AY:605:ILE:HD11	24:AY:677:GLN:HG2	1.97	0.46
26:B1:94:LEU:O	26:B1:96:LYS:N	2.48	0.46
27:B2:24:LEU:O	27:B2:27:GLU:HB2	2.15	0.46
27:B2:37:PHE:O	27:B2:41:ILE:HG23	2.14	0.46
28:B3:19:GLN:O	28:B3:22:ALA:HB3	2.16	0.46
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.48	0.46
31:B6:5:VAL:HG22	35:BA:2283:C:OP1	2.15	0.46
31:B6:8:LYS:CE	31:B6:25:LYS:HD3	2.35	0.46
35:BA:134:C:O2'	35:BA:135:G:H5'	2.15	0.46
35:BA:205:G:O2'	35:BA:206:U:OP2	2.31	0.46
35:BA:996:A:H2'	35:BA:997:G:H8	1.80	0.46
35:BA:1161:C:H2'	35:BA:1162:G:H8	1.80	0.46
35:BA:2190:G:O2'	35:BA:2191:G:H5'	2.16	0.46
35:BA:2795:G:N3	35:BA:2795:G:H2'	2.30	0.46
35:BA:2845:G:H8	35:BA:2845:G:O5'	1.97	0.46
36:BB:66:A:N6	36:BB:108:U:H2'	2.23	0.46
37:BC:86:GLU:O	37:BC:90:ALA:HB2	2.16	0.46
37:BC:185:LYS:HE3	37:BC:185:LYS:CA	2.45	0.46
38:BD:28:GLU:CD	38:BD:28:GLU:N	2.74	0.46
38:BD:73:VAL:C	38:BD:75:ILE:H	2.24	0.46
41:BG:61:ALA:O	41:BG:65:GLY:N	2.48	0.46
41:BG:98:ARG:O	41:BG:102:PHE:HB2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:103:LEU:O	41:BG:104:GLU:C	2.58	0.46
41:BG:164:GLU:O	41:BG:165:THR:HG23	2.15	0.46
42:BH:41:MET:HE3	42:BH:42:ARG:O	2.16	0.46
44:BK:99:ILE:O	44:BK:139:VAL:N	2.47	0.46
46:BN:26:LEU:HD12	46:BN:26:LEU:O	2.15	0.46
46:BN:57:ALA:O	46:BN:58:ASP:O	2.32	0.46
46:BN:134:ARG:O	46:BN:134:ARG:HG3	2.16	0.46
48:BP:122:PRO:HA	48:BP:141:ALA:O	2.16	0.46
49:BQ:56:ARG:NE	49:BQ:56:ARG:CA	2.75	0.46
50:BR:101:ALA:O	50:BR:102:GLU:HB2	2.14	0.46
53:BU:12:ARG:O	53:BU:13:LYS:C	2.58	0.46
53:BU:21:ALA:HA	53:BU:24:TYR:CD1	2.50	0.46
57:BY:52:SER:N	57:BY:53:PRO:HD2	2.30	0.46
57:BY:84:ARG:HD2	57:BY:97:ARG:HD2	1.97	0.46
58:BZ:24:LEU:HD21	58:BZ:86:VAL:HG23	1.96	0.46
58:BZ:127:LYS:O	58:BZ:128:VAL:HB	2.16	0.46
1:CA:620:C:H2'	1:CA:621:A:C8	2.50	0.46
1:CA:1030:C:N4	1:CA:1032:G:C2	2.83	0.46
1:CA:1351:U:O2'	1:CA:1352:C:H5'	2.15	0.46
2:CB:51:LEU:O	2:CB:55:PHE:HD2	1.96	0.46
3:CC:82:GLU:N	3:CC:82:GLU:OE2	2.49	0.46
3:CC:129:ALA:C	3:CC:131:ARG:N	2.70	0.46
4:CD:170:VAL:O	4:CD:171:GLY:C	2.56	0.46
5:CE:143:ARG:HA	5:CE:143:ARG:HD3	1.72	0.46
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.15	0.46
12:CL:42:THR:HG23	12:CL:42:THR:O	2.14	0.46
12:CL:92:ASP:O	12:CL:94:PRO:HD3	2.14	0.46
13:CM:86:CYS:HA	19:CS:73:GLU:O	2.15	0.46
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.78	0.46
16:CP:27:LYS:HG2	16:CP:30:GLY:HA3	1.97	0.46
19:CS:19:VAL:HG13	19:CS:44:MET:HG2	1.96	0.46
24:CY:255:ILE:CG1	24:CY:256:THR:N	2.78	0.46
24:CY:314:PHE:O	24:CY:315:LYS:HB2	2.15	0.46
24:CY:370:LYS:O	24:CY:371:ALA:C	2.57	0.46
24:CY:625:ASN:C	24:CY:627:ARG:N	2.73	0.46
29:D4:1:MET:HE2	41:DG:66:GLN:OE1	2.15	0.46
35:DA:247:G:H4'	35:DA:386:G:C5	2.49	0.46
35:DA:833:U:O2	48:DP:55:ARG:NH1	2.47	0.46
35:DA:958:U:C3'	35:DA:958:U:C6	2.99	0.46
35:DA:1081:U:H4'	44:DK:117:THR:HG21	1.96	0.46
35:DA:1097:U:C2'	35:DA:1098:A:H5'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1237:A:O2'	35:DA:1238:G:P	2.73	0.46
35:DA:1263:U:C4	35:DA:1264:G:C6	3.03	0.46
35:DA:1275:A:C4	50:DR:16:HIS:ND1	2.83	0.46
35:DA:1353:A:H4'	38:DD:38:LYS:HE3	1.96	0.46
35:DA:1472:A:O2'	35:DA:1473:G:H5'	2.15	0.46
35:DA:1484:G:H2'	35:DA:1485:G:H5''	1.97	0.46
35:DA:1630:G:C2	35:DA:1637:A:C2	3.03	0.46
35:DA:1770:G:C2'	35:DA:1771:C:H5'	2.45	0.46
35:DA:1783:A:C2	35:DA:2587:A:C4	3.04	0.46
35:DA:2012:G:H4'	55:DW:96:ILE:CD1	2.19	0.46
35:DA:2312:U:H2'	41:DG:40:ASN:OD1	2.16	0.46
35:DA:2389:G:C5'	35:DA:2390:U:H5'	2.39	0.46
35:DA:2521:C:H2'	35:DA:2521:C:O2	2.14	0.46
35:DA:2712:U:O2'	35:DA:2712(A):A:C8	2.43	0.46
38:DD:9:TYR:CD2	38:DD:10:THR:HG22	2.49	0.46
38:DD:26:LYS:O	38:DD:27:THR:HB	2.15	0.46
38:DD:53:PHE:HA	38:DD:218:ARG:HB2	1.98	0.46
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.96	0.46
40:DF:22:ALA:C	40:DF:24:LEU:N	2.72	0.46
40:DF:38:ARG:O	40:DF:42:ALA:CB	2.62	0.46
40:DF:160:ASN:HD21	40:DF:162:LEU:CD1	2.28	0.46
41:DG:46:ALA:C	41:DG:51:ARG:HG3	2.41	0.46
41:DG:131:TYR:HE2	41:DG:133:LEU:CD2	2.25	0.46
42:DH:33:LEU:HD21	42:DH:136:ILE:HG22	1.96	0.46
44:DK:108:ALA:O	44:DK:112:MET:HB3	2.15	0.46
46:DN:65:LYS:CB	46:DN:65:LYS:NZ	2.78	0.46
48:DP:29:LYS:HB3	48:DP:34:GLY:H	1.80	0.46
51:DS:11:LYS:N	51:DS:11:LYS:HD2	2.29	0.46
51:DS:47:THR:CG2	51:DS:49:VAL:O	2.63	0.46
51:DS:89:ARG:HG2	51:DS:89:ARG:NH1	2.28	0.46
1:AA:108:G:N2	1:AA:109:A:C2	2.83	0.46
1:AA:182:U:H5'	1:AA:183:G:P	2.55	0.46
1:AA:203:U:H5'	1:AA:216:G:N2	2.30	0.46
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.15	0.46
1:AA:276:G:O2'	1:AA:277:C:H5'	2.15	0.46
1:AA:773:G:C2'	1:AA:774:G:H5'	2.46	0.46
1:AA:1164:G:O2'	1:AA:1165:C:H5'	2.15	0.46
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.50	0.46
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.44	0.46
3:AC:80:GLY:HA3	3:AC:82:GLU:OE1	2.15	0.46
3:AC:138:VAL:O	3:AC:140:ARG:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:91:SER:O	4:AD:92:VAL:C	2.57	0.46
4:AD:159:ARG:O	4:AD:160:GLN:C	2.58	0.46
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.45	0.46
5:AE:101:ILE:HD11	5:AE:119:LEU:CD2	2.46	0.46
5:AE:139:LEU:C	5:AE:141:GLN:N	2.72	0.46
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.80	0.46
20:AT:81:LYS:C	20:AT:83:ARG:N	2.73	0.46
24:AY:277:VAL:HG13	24:AY:278:ASP:N	2.31	0.46
26:B1:44:PRO:HG2	26:B1:46:LEU:HD11	1.97	0.46
29:B4:9:LEU:HD13	29:B4:10:VAL:H	1.79	0.46
29:B4:9:LEU:HD12	29:B4:10:VAL:H	1.81	0.46
30:B5:36:CYS:SG	30:B5:49:CYS:HB3	2.54	0.46
35:BA:360:G:H2'	35:BA:361:G:H8	1.80	0.46
35:BA:487:C:H1'	55:BW:53:SER:HA	1.95	0.46
35:BA:578:A:H5'	35:BA:1254:A:OP1	2.16	0.46
35:BA:602:G:C2	35:BA:656:G:C6	3.03	0.46
35:BA:747:U:O2'	55:BW:88:ARG:HG3	2.16	0.46
35:BA:754:C:H2'	35:BA:755:C:C6	2.50	0.46
35:BA:975:C:H4'	35:BA:975:C:OP2	2.16	0.46
35:BA:1516:C:H2'	35:BA:1517:G:H5''	1.95	0.46
35:BA:1721:G:O6	35:BA:1739:U:H5'	2.15	0.46
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.45	0.46
35:BA:2291:U:O2'	35:BA:2292:C:H5'	2.14	0.46
35:BA:2291:U:OP1	35:BA:2380:C:O2'	2.33	0.46
35:BA:2682:U:C6	39:BE:11:MET:HE2	2.50	0.46
38:BD:8:PRO:C	38:BD:10:THR:H	2.23	0.46
38:BD:92:ILE:HD13	38:BD:92:ILE:H	1.79	0.46
38:BD:148:GLU:HB2	38:BD:151:LYS:CG	2.45	0.46
39:BE:1:MET:O	39:BE:2:LYS:C	2.56	0.46
41:BG:42:GLY:C	41:BG:43:LEU:HD22	2.41	0.46
41:BG:173:LEU:O	41:BG:178:PHE:HD1	1.99	0.46
42:BH:65:HIS:HE1	42:BH:69:ARG:NH1	2.14	0.46
46:BN:15:LEU:CD2	46:BN:53:VAL:HB	2.45	0.46
46:BN:61:ARG:HH11	46:BN:61:ARG:HG3	1.81	0.46
48:BP:100:LEU:N	48:BP:100:LEU:HD22	2.30	0.46
49:BQ:1:MET:HE1	49:BQ:45:GLN:N	2.31	0.46
49:BQ:55:VAL:HG12	49:BQ:56:ARG:H	1.80	0.46
50:BR:9:LYS:O	50:BR:10:LEU:CD2	2.60	0.46
50:BR:56:LYS:C	50:BR:58:GLY:H	2.23	0.46
51:BS:35:ILE:HD11	51:BS:99:LYS:HE3	1.97	0.46
52:BT:50:ILE:HG23	52:BT:99:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:137:LYS:HG2	52:BT:138:ALA:N	2.30	0.46
53:BU:53:ARG:O	53:BU:56:ASP:N	2.37	0.46
53:BU:53:ARG:CA	53:BU:56:ASP:OD2	2.60	0.46
57:BY:42:VAL:O	57:BY:65:ALA:N	2.39	0.46
57:BY:52:SER:O	57:BY:53:PRO:C	2.59	0.46
1:CA:98:G:H2'	1:CA:99:U:O4'	2.15	0.46
1:CA:322:C:H4'	20:CT:23:ARG:HD2	1.97	0.46
1:CA:357:G:O2'	1:CA:358:U:H5'	2.15	0.46
1:CA:794:A:O2'	1:CA:795:C:H5'	2.15	0.46
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.44	0.46
1:CA:1010:G:C6	1:CA:1020:U:H1'	2.50	0.46
2:CB:222:ILE:HB	2:CB:226:ARG:NH2	2.28	0.46
3:CC:206:GLU:HG2	3:CC:207:VAL:N	2.28	0.46
4:CD:58:LEU:C	4:CD:58:LEU:CD2	2.88	0.46
4:CD:191:ARG:O	4:CD:191:ARG:NH1	2.49	0.46
5:CE:101:ILE:HD11	5:CE:119:LEU:CD2	2.45	0.46
7:CG:44:TYR:HA	7:CG:47:CYS:SG	2.55	0.46
19:CS:50:ALA:O	19:CS:51:VAL:C	2.58	0.46
24:CY:18:ALA:O	24:CY:106:VAL:HA	2.15	0.46
24:CY:204:GLU:O	24:CY:205:TYR:C	2.57	0.46
24:CY:221:ALA:C	24:CY:223:PHE:H	2.22	0.46
24:CY:631:ILE:O	24:CY:632:LEU:HD23	2.15	0.46
24:CY:636:PRO:HG3	44:DK:20:ALA:HB1	1.97	0.46
31:D6:27:LYS:CD	31:D6:30:THR:HB	2.44	0.46
31:D6:43:CYS:O	31:D6:44:ARG:NE	2.48	0.46
32:D7:12:ARG:HG3	32:D7:12:ARG:HH11	1.80	0.46
34:D9:17:ILE:HG22	34:D9:18:ARG:H	1.80	0.46
35:DA:176:G:C2'	35:DA:177:G:H5'	2.44	0.46
35:DA:336:C:H4'	57:DY:7:VAL:CG2	2.45	0.46
35:DA:484:C:O2'	35:DA:485:C:H5'	2.15	0.46
35:DA:614:U:H2'	35:DA:614(A):U:O4'	2.15	0.46
35:DA:665:C:O2'	35:DA:666:G:H5'	2.15	0.46
35:DA:1718:G:H8	35:DA:1718:G:C5'	2.26	0.46
35:DA:2291:U:O2'	35:DA:2292:C:H5'	2.14	0.46
35:DA:2464:C:O2'	35:DA:2465:C:O5'	2.33	0.46
35:DA:2787:C:O2	35:DA:2787:C:H2'	2.15	0.46
36:DB:82:G:HO2'	36:DB:83:G:H5'	1.81	0.46
37:DC:46:ALA:HA	37:DC:212:SER:O	2.15	0.46
37:DC:60:ARG:HG3	37:DC:165:ARG:HG3	1.97	0.46
38:DD:138:VAL:HA	38:DD:165:ILE:HG21	1.98	0.46
38:DD:197:GLY:O	38:DD:198:ASN:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:218:ARG:HB3	38:DD:219:PRO:HD2	1.96	0.46
40:DF:26:ALA:O	40:DF:27:GLU:HG3	2.15	0.46
40:DF:132:VAL:CG2	40:DF:133:ASN:N	2.78	0.46
41:DG:34:LEU:H	41:DG:34:LEU:CD1	2.17	0.46
41:DG:72:ARG:HB3	41:DG:87:PRO:HD2	1.96	0.46
42:DH:65:HIS:HE1	42:DH:69:ARG:NH1	2.10	0.46
42:DH:72:ILE:O	42:DH:73:ALA:C	2.58	0.46
46:DN:57:ALA:O	46:DN:58:ASP:O	2.33	0.46
47:DO:64:ARG:NH1	47:DO:83:ALA:HB2	2.30	0.46
48:DP:106:LEU:HD21	48:DP:112:LEU:HG	1.97	0.46
50:DR:97:VAL:HG13	50:DR:114:VAL:CG2	2.46	0.46
51:DS:19:LYS:C	51:DS:20:ARG:CZ	2.89	0.46
52:DT:53:ARG:O	52:DT:59:THR:HB	2.15	0.46
53:DU:8:VAL:O	53:DU:9:VAL:C	2.57	0.46
57:DY:56:PRO:O	57:DY:57:GLN:HB3	2.16	0.46
58:DZ:92:SER:HB3	58:DZ:93:ASP:H	1.47	0.46
58:DZ:171:ILE:C	58:DZ:171:ILE:HD12	2.40	0.46
1:AA:720:C:C3'	1:AA:721:G:H5''	2.35	0.46
1:AA:759:A:C2'	1:AA:760:G:H5'	2.45	0.46
1:AA:1053:G:N7	1:AA:1200:C:C5'	2.73	0.46
1:AA:1217:C:H2'	1:AA:1217:C:O2	2.15	0.46
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.16	0.46
3:AC:3:ASN:OD1	3:AC:3:ASN:N	2.48	0.46
3:AC:120:VAL:O	3:AC:121:ALA:C	2.57	0.46
4:AD:57:ARG:NH1	4:AD:205:GLU:OE2	2.48	0.46
4:AD:173:TRP:O	4:AD:174:LEU:HD23	2.16	0.46
4:AD:194:LEU:HB3	4:AD:196:LEU:CD1	2.36	0.46
5:AE:28:PHE:O	5:AE:47:LYS:HA	2.15	0.46
5:AE:155:GLU:N	8:AH:64:LYS:HE2	2.31	0.46
11:AK:66:LEU:O	11:AK:67:ASP:C	2.58	0.46
12:AL:28:LYS:HB2	12:AL:33:ARG:HH22	1.81	0.46
15:AO:24:SER:O	15:AO:25:THR:C	2.57	0.46
20:AT:58:LYS:O	20:AT:59:ALA:C	2.57	0.46
24:AY:71:THR:HA	24:AY:79:ILE:O	2.16	0.46
24:AY:100:VAL:HG13	24:AY:101:LEU:H	1.81	0.46
24:AY:379:GLY:O	24:AY:380:LEU:O	2.33	0.46
24:AY:580:MET:HE3	24:AY:584:ILE:HG12	1.95	0.46
25:B0:20:ARG:HH11	25:B0:20:ARG:CG	2.29	0.46
29:B4:2:LYS:HB2	36:BB:40:U:O4	2.16	0.46
35:BA:79:G:O2'	35:BA:80:G:H5'	2.15	0.46
35:BA:94(A):G:H2'	35:BA:95:G:H5''	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:272(G):C:C3'	35:BA:272(H):C:H5''	2.45	0.46
35:BA:729:G:O2'	35:BA:763:G:H4'	2.15	0.46
35:BA:827:U:H2'	35:BA:2068:U:O2	2.15	0.46
35:BA:1448:G:N3	35:BA:1528(A):A:H2	2.13	0.46
35:BA:1485:G:H1'	35:BA:1505:C:N4	2.23	0.46
35:BA:1528:A:O2'	35:BA:1528(A):A:O5'	2.32	0.46
35:BA:1851:U:H2'	35:BA:1852:C:O4'	2.16	0.46
35:BA:1952:A:C2	47:BO:22:ILE:HG23	2.50	0.46
35:BA:2081:C:H2'	35:BA:2082:A:H8	1.79	0.46
35:BA:2406:U:N3	48:BP:72:PRO:HB2	2.30	0.46
35:BA:2523:G:C3'	35:BA:2524:G:H5''	2.45	0.46
37:BC:225:ILE:HD12	37:BC:225:ILE:C	2.40	0.46
38:BD:127:VAL:HA	38:BD:193:VAL:HG13	1.96	0.46
38:BD:229:VAL:HG23	38:BD:230:ASP:N	2.28	0.46
39:BE:24:THR:CG2	39:BE:184:VAL:HG23	2.37	0.46
40:BF:31:HIS:O	40:BF:32:LEU:C	2.57	0.46
40:BF:101:LEU:O	40:BF:106:ARG:NH1	2.49	0.46
44:BK:100:THR:CA	44:BK:139:VAL:HB	2.41	0.46
46:BN:90:MET:HB3	46:BN:98:VAL:HG22	1.97	0.46
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.81	0.46
48:BP:106:LEU:HD21	48:BP:112:LEU:HG	1.97	0.46
49:BQ:43:THR:HB	49:BQ:45:GLN:HE21	1.80	0.46
49:BQ:79:LEU:HD23	49:BQ:80:GLU:N	2.28	0.46
49:BQ:136:ALA:C	49:BQ:138:ASP:H	2.22	0.46
50:BR:85:PRO:C	50:BR:87:TYR:N	2.73	0.46
52:BT:29:ARG:HG2	52:BT:85:LYS:HA	1.96	0.46
52:BT:29:ARG:HG3	52:BT:30:VAL:HG13	1.97	0.46
52:BT:55:ASN:O	52:BT:55:ASN:CG	2.59	0.46
52:BT:92:GLY:C	52:BT:94:ALA:N	2.69	0.46
53:BU:55:ARG:HA	53:BU:58:ARG:HB2	1.98	0.46
53:BU:82:GLY:O	53:BU:84:LYS:N	2.48	0.46
53:BU:98:LEU:O	53:BU:106:PHE:HB2	2.16	0.46
58:BZ:50:GLN:O	58:BZ:51:ALA:C	2.57	0.46
1:CA:17:U:H2'	1:CA:18:C:C6	2.50	0.46
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.45	0.46
1:CA:329:A:H3'	1:CA:330:C:C5'	2.45	0.46
1:CA:519:C:H2'	1:CA:520:A:O4'	2.15	0.46
1:CA:710:G:O2'	1:CA:711:G:H5'	2.15	0.46
1:CA:756:C:H2'	1:CA:757:U:O4'	2.15	0.46
1:CA:1003:G:H1'	1:CA:1039:C:O2	2.15	0.46
1:CA:1237:C:H3'	1:CA:1336:C:N4	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:208:ILE:O	2:CB:212:GLN:HB2	2.15	0.46
3:CC:52:LEU:HD12	3:CC:55:VAL:HG22	1.97	0.46
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.98	0.46
4:CD:144:ASP:O	4:CD:184:LYS:HA	2.15	0.46
4:CD:187:ARG:HH11	4:CD:187:ARG:HG2	1.80	0.46
7:CG:47:CYS:HB3	7:CG:58:PRO:CB	2.46	0.46
7:CG:61:VAL:O	7:CG:62:PHE:C	2.58	0.46
11:CK:34:ASP:CB	11:CK:35:PRO:CD	2.92	0.46
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.16	0.46
19:CS:7:LYS:HD3	19:CS:7:LYS:HA	1.72	0.46
21:CU:9:ARG:HH11	21:CU:22:ARG:HG3	1.80	0.46
22:CW:50:G:C2	22:CW:51:U:C2	3.03	0.46
24:CY:30:GLU:O	24:CY:31:ARG:NH1	2.49	0.46
24:CY:92:ILE:HD13	24:CY:93:GLU:N	2.31	0.46
24:CY:170:ARG:O	24:CY:171:GLU:HG3	2.15	0.46
24:CY:487:ILE:CG2	24:CY:594:VAL:HG13	2.43	0.46
24:CY:510:VAL:HG12	24:CY:511:LYS:N	2.30	0.46
24:CY:603:GLU:C	24:CY:676:TYR:HD1	2.23	0.46
26:D1:3:LYS:HD2	26:D1:3:LYS:HA	1.67	0.46
27:D2:31:GLU:HB3	27:D2:53:LEU:HD11	1.98	0.46
31:D6:8:LYS:O	31:D6:9:LEU:O	2.32	0.46
33:D8:48:PHE:O	33:D8:49:VAL:CG1	2.58	0.46
35:DA:27:G:H1'	35:DA:513:A:H62	1.80	0.46
35:DA:128:C:O2'	35:DA:129:C:O5'	2.31	0.46
35:DA:302:C:H2'	35:DA:303:U:H6	1.78	0.46
35:DA:718:A:H3'	35:DA:719:C:H6	1.81	0.46
35:DA:775:G:O6	35:DA:787:U:H2'	2.15	0.46
35:DA:1260:G:H2'	35:DA:1261:C:C6	2.49	0.46
35:DA:2050:C:H1'	39:DE:156:MET:HE1	1.96	0.46
35:DA:2406:U:C2	48:DP:72:PRO:HB2	2.50	0.46
39:DE:51:PHE:N	39:DE:74:PRO:HG3	2.30	0.46
40:DF:2:LYS:CG	40:DF:25:PRO:HG2	2.45	0.46
40:DF:126:VAL:HG23	40:DF:127:GLU:N	2.31	0.46
41:DG:20:ILE:O	41:DG:24:GLY:N	2.48	0.46
43:DJ:103:UNK:HA	43:DJ:111:UNK:CB	2.45	0.46
47:DO:69:ILE:HB	47:DO:77:ILE:HG22	1.98	0.46
51:DS:70:GLY:CA	51:DS:101:LEU:HD23	2.46	0.46
56:DX:90:GLU:HA	56:DX:93:GLU:HG2	1.97	0.46
57:DY:38:ILE:CG2	57:DY:39:VAL:N	2.78	0.46
1:AA:218:C:H5'	1:AA:470:C:H41	1.78	0.46
1:AA:756:C:H2'	1:AA:757:U:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.15	0.46
1:AA:1321:C:C5'	1:AA:1322:C:C5'	2.92	0.46
2:AB:53:ARG:HG2	2:AB:53:ARG:O	2.15	0.46
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.16	0.46
3:AC:72:LYS:HE3	3:AC:72:LYS:C	2.40	0.46
3:AC:90:GLU:C	3:AC:93:LYS:HB3	2.35	0.46
5:AE:144:THR:C	5:AE:146:ALA:N	2.70	0.46
8:AH:36:LEU:O	8:AH:37:ARG:C	2.59	0.46
9:AI:79:LEU:HD13	9:AI:83:ARG:CB	2.41	0.46
9:AI:97:LYS:O	9:AI:98:PRO:C	2.59	0.46
12:AL:47:LYS:HB3	12:AL:47:LYS:NZ	2.31	0.46
22:AW:74:A:H2'	22:AW:75:C:C5'	2.46	0.46
23:AX:16:A:O2'	23:AX:17:U:H5'	2.16	0.46
24:AY:120:THR:C	24:AY:124:GLN:CD	2.83	0.46
24:AY:196:ILE:CG1	24:AY:197:ARG:H	2.29	0.46
24:AY:420:ASP:C	24:AY:422:GLU:N	2.72	0.46
24:AY:617:MET:O	24:AY:618:GLY:C	2.57	0.46
26:B1:60:PHE:O	26:B1:62:VAL:HG12	2.15	0.46
29:B4:37:SER:OG	41:BG:108:ASN:HA	2.15	0.46
30:B5:44:THR:HG21	50:BR:101:ALA:CB	2.30	0.46
31:B6:45:LYS:HG2	35:BA:2371:G:C4'	2.46	0.46
31:B6:54:ILE:O	31:B6:54:ILE:CG1	2.63	0.46
33:B8:28:GLY:H	35:BA:2393:A:P	2.39	0.46
33:B8:53:PRO:HG2	33:B8:54:GLU:H	1.80	0.46
35:BA:177:G:H3'	35:BA:178:G:C8	2.51	0.46
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.98	0.46
35:BA:324:A:OP2	35:BA:1205:U:N3	2.48	0.46
35:BA:438:G:H2'	35:BA:440:G:H8	1.80	0.46
35:BA:784:A:H5''	38:BD:227:ASN:HD21	1.80	0.46
35:BA:963:U:H2'	35:BA:964:C:C6	2.51	0.46
35:BA:1061:U:C4'	35:BA:1070:A:H1'	2.43	0.46
35:BA:1097:U:C2'	35:BA:1098:A:H5'	2.46	0.46
35:BA:1688:U:O2	35:BA:1700:A:H5''	2.15	0.46
35:BA:1813:G:H1'	38:BD:50:THR:OG1	2.15	0.46
35:BA:2137:C:H2'	35:BA:2138:C:C6	2.50	0.46
35:BA:2384:G:H2'	35:BA:2386:C:OP1	2.16	0.46
35:BA:2454:G:H2'	35:BA:2455:G:H5'	1.97	0.46
35:BA:2745:C:C4	35:BA:2746:U:C4	3.04	0.46
38:BD:48:ARG:HG3	38:BD:48:ARG:NH1	2.31	0.46
39:BE:36:ARG:HH22	39:BE:88:GLY:H	1.64	0.46
40:BF:74:ARG:O	40:BF:75:HIS:CG	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:60:ALA:CA	47:BO:87:ILE:HD11	2.45	0.46
48:BP:32:THR:CG2	48:BP:37:GLY:HA2	2.45	0.46
49:BQ:55:VAL:CG1	49:BQ:56:ARG:H	2.29	0.46
49:BQ:109:VAL:HG12	49:BQ:113:GLN:HB2	1.98	0.46
50:BR:10:LEU:CD2	50:BR:17:ARG:HD3	2.43	0.46
52:BT:83:ILE:CG1	52:BT:84:GLN:N	2.75	0.46
54:BV:64:HIS:ND1	54:BV:92:THR:CG2	2.79	0.46
56:BX:3:THR:O	56:BX:4:ALA:HB3	2.15	0.46
57:BY:38:ILE:CG2	57:BY:39:VAL:N	2.78	0.46
1:CA:608:A:C2'	1:CA:609:A:H5'	2.46	0.46
1:CA:651:C:H2'	1:CA:652:U:H6	1.80	0.46
1:CA:829:G:O2'	1:CA:830:G:H5'	2.15	0.46
1:CA:1065:U:C2'	1:CA:1066:C:OP2	2.63	0.46
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.30	0.46
2:CB:83:MET:CG	2:CB:234:PRO:HG3	2.44	0.46
3:CC:114:PRO:O	3:CC:118:GLN:OE1	2.34	0.46
4:CD:179:GLU:C	4:CD:181:MET:H	2.24	0.46
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.45	0.46
7:CG:57:GLU:O	7:CG:58:PRO:C	2.58	0.46
8:CH:99:GLU:O	8:CH:100:ILE:C	2.57	0.46
9:CI:70:LYS:O	9:CI:74:ILE:HG13	2.16	0.46
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.15	0.46
13:CM:19:LEU:N	13:CM:19:LEU:HD22	2.29	0.46
13:CM:49:THR:C	13:CM:51:ALA:N	2.70	0.46
14:CN:60:SER:O	14:CN:61:TRP:HB3	2.14	0.46
20:CT:93:GLU:OE1	20:CT:94:ALA:N	2.49	0.46
24:CY:420:ASP:OD2	24:CY:420:ASP:N	2.48	0.46
24:CY:427:ALA:O	24:CY:431:LEU:HB2	2.16	0.46
25:D0:37:LEU:HG	25:D0:60:PHE:HA	1.98	0.46
26:D1:76:ARG:CZ	26:D1:95:LEU:HD22	2.45	0.46
30:D5:39:MET:HG3	55:DW:34:ASN:ND2	2.31	0.46
31:D6:54:ILE:O	31:D6:54:ILE:CG1	2.63	0.46
33:D8:6:THR:HG21	33:D8:63:PRO:HD3	1.98	0.46
35:DA:63:U:H4'	35:DA:63:U:OP1	2.16	0.46
35:DA:360:G:H2'	35:DA:361:G:H8	1.81	0.46
35:DA:519:U:O2'	35:DA:520:G:H5'	2.16	0.46
35:DA:817:C:H2'	35:DA:818:G:O4'	2.15	0.46
35:DA:997:G:OP1	53:DU:93:LYS:HD3	2.15	0.46
35:DA:1494:A:O2'	35:DA:1495:A:C5'	2.53	0.46
35:DA:2820:A:C8	39:DE:191:PRO:CB	2.99	0.46
35:DA:2840:C:H5''	50:DR:53:HIS:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:15:A:H1'	36:DB:110:G:C5	2.51	0.46
37:DC:29:LEU:O	37:DC:32:GLU:N	2.41	0.46
37:DC:191:ARG:HG3	37:DC:191:ARG:NH1	2.29	0.46
39:DE:59:VAL:CG2	39:DE:63:LEU:HA	2.46	0.46
39:DE:68:ALA:HB3	39:DE:69:LYS:HE2	1.97	0.46
42:DH:20:ALA:CB	42:DH:21:PRO:CD	2.90	0.46
48:DP:32:THR:HG22	48:DP:37:GLY:HA2	1.98	0.46
50:DR:18:LEU:C	50:DR:20:LEU:N	2.74	0.46
52:DT:8:LYS:C	52:DT:10:VAL:H	2.24	0.46
52:DT:116:ALA:HB1	52:DT:121:ILE:HD11	1.98	0.46
53:DU:113:ALA:O	53:DU:115:ALA:N	2.48	0.46
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.45	0.46
1:AA:512:U:H2'	1:AA:513:C:C6	2.47	0.46
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.96	0.46
1:AA:1003:G:H1'	1:AA:1039:C:O2	2.16	0.46
1:AA:1253:G:C2	1:AA:1254:C:C2	3.04	0.46
1:AA:1343:G:H1'	9:AI:121:ARG:NH1	2.30	0.46
1:AA:1347:G:HO2'	1:AA:1373:G:H1	1.64	0.46
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.79	0.46
4:AD:68:TYR:O	4:AD:69:GLY:C	2.59	0.46
6:AF:67:MET:CE	6:AF:72:VAL:HA	2.45	0.46
8:AH:32:LYS:O	8:AH:33:GLU:C	2.58	0.46
9:AI:84:ALA:C	9:AI:86:VAL:N	2.74	0.46
9:AI:88:TYR:O	9:AI:89:ASN:CB	2.57	0.46
9:AI:125:TYR:HD2	9:AI:126:SER:N	2.14	0.46
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.15	0.46
12:AL:30:ALA:CB	12:AL:33:ARG:HH21	2.28	0.46
15:AO:31:LEU:CD2	15:AO:31:LEU:H	2.28	0.46
20:AT:93:GLU:OE1	20:AT:94:ALA:N	2.48	0.46
24:AY:99:ARG:CZ	24:AY:128:TYR:HB2	2.44	0.46
24:AY:238:THR:C	24:AY:240:GLU:N	2.74	0.46
24:AY:315:LYS:HZ3	24:AY:317:MET:HG2	1.80	0.46
24:AY:370:LYS:O	24:AY:371:ALA:C	2.58	0.46
26:B1:45:ASN:ND2	26:B1:47:GLN:HE21	2.04	0.46
31:B6:27:LYS:HB3	31:B6:32:ASN:HD21	1.74	0.46
31:B6:42:TRP:CH2	35:BA:643:A:N7	2.83	0.46
35:BA:45:C:OP2	35:BA:215:G:H5''	2.15	0.46
35:BA:142:A:O2'	35:BA:1407:C:O2'	2.28	0.46
35:BA:389:G:C6	48:BP:70:GLN:HG3	2.51	0.46
35:BA:755:C:H2'	35:BA:756:C:C6	2.51	0.46
35:BA:826:U:H5''	35:BA:2428:G:O3'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1218:C:H2'	35:BA:1219:G:H8	1.79	0.46
37:BC:60:ARG:HG3	37:BC:165:ARG:HG3	1.96	0.46
38:BD:210:GLY:O	38:BD:211:ARG:CB	2.62	0.46
39:BE:101:ARG:HD3	39:BE:101:ARG:HA	1.66	0.46
40:BF:24:LEU:CB	40:BF:25:PRO:HD2	2.39	0.46
40:BF:36:VAL:O	40:BF:39:TRP:HB3	2.15	0.46
41:BG:55:LYS:C	41:BG:55:LYS:HD3	2.41	0.46
41:BG:152:LEU:H	41:BG:152:LEU:HD23	1.79	0.46
44:BK:62:ASP:O	44:BK:63:ARG:HB2	2.16	0.46
46:BN:1:MET:HE2	46:BN:1:MET:C	2.41	0.46
46:BN:123:TYR:N	46:BN:123:TYR:CD1	2.83	0.46
52:BT:62:THR:CG2	52:BT:75:ILE:HG13	2.46	0.46
52:BT:92:GLY:C	52:BT:94:ALA:H	2.24	0.46
58:BZ:24:LEU:HD23	58:BZ:24:LEU:C	2.41	0.46
1:CA:277:C:C2'	1:CA:278:G:H5'	2.46	0.46
1:CA:311:C:H2'	1:CA:312:C:H6	1.81	0.46
1:CA:341:C:C2	1:CA:349:A:C2	3.03	0.46
1:CA:424:G:O2'	1:CA:425:G:H5'	2.16	0.46
1:CA:953:G:N7	13:CM:104:ARG:NH2	2.64	0.46
1:CA:1329:A:H4'	13:CM:24:GLY:O	2.16	0.46
1:CA:1416:G:H2'	1:CA:1417:G:C8	2.50	0.46
3:CC:62:ASP:O	3:CC:64:VAL:N	2.48	0.46
4:CD:11:LEU:C	4:CD:13:ARG:N	2.69	0.46
4:CD:173:TRP:O	4:CD:174:LEU:HD23	2.15	0.46
5:CE:53:LEU:O	5:CE:56:GLN:HB3	2.16	0.46
6:CF:29:ALA:O	6:CF:30:LEU:C	2.59	0.46
7:CG:52:GLU:O	7:CG:53:LYS:C	2.58	0.46
7:CG:84:ASN:N	7:CG:84:ASN:ND2	2.64	0.46
9:CI:55:ALA:HA	9:CI:58:HIS:HD2	1.80	0.46
9:CI:77:ILE:O	9:CI:78:LYS:C	2.58	0.46
12:CL:27:LEU:C	12:CL:29:GLY:H	2.24	0.46
13:CM:66:LEU:HA	13:CM:70:LEU:HD13	1.97	0.46
19:CS:79:THR:CG2	19:CS:80:TYR:N	2.79	0.46
20:CT:43:LEU:O	20:CT:44:ALA:C	2.58	0.46
26:D1:46:LEU:O	26:D1:47:GLN:NE2	2.47	0.46
26:D1:53:VAL:CG1	26:D1:90:ILE:HG21	2.46	0.46
29:D4:35:VAL:HG12	29:D4:36:CYS:N	2.31	0.46
30:D5:22:HIS:HE1	35:DA:2624:G:H1'	1.79	0.46
31:D6:47:THR:OG1	31:D6:48:VAL:N	2.48	0.46
35:DA:94(A):G:H2'	35:DA:95:G:H5''	1.97	0.46
35:DA:338:G:O2'	35:DA:339:U:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:430:G:H2'	35:DA:431:U:H5'	1.98	0.46
35:DA:586:A:C2	35:DA:1254:A:C2	3.04	0.46
35:DA:797:C:H2'	35:DA:798:G:C8	2.51	0.46
35:DA:1107:G:OP1	43:DJ:59:UNK:N	2.49	0.46
35:DA:1310:G:C2'	35:DA:1311:G:H5'	2.46	0.46
35:DA:1577:C:H2'	35:DA:1578:U:O4'	2.15	0.46
35:DA:1771:C:H2'	35:DA:1772:G:C8	2.51	0.46
35:DA:1819:A:O2'	35:DA:1820:U:OP2	2.33	0.46
35:DA:2039:C:O2'	35:DA:2040:C:H5'	2.15	0.46
35:DA:2105:C:N4	35:DA:2184:G:H1	2.12	0.46
35:DA:2373:G:H2'	35:DA:2374:C:H6	1.80	0.46
35:DA:2584:U:O2	35:DA:2584:U:O4'	2.33	0.46
37:DC:98:GLU:HA	37:DC:101:ILE:CD1	2.46	0.46
38:DD:229:VAL:HG23	38:DD:230:ASP:N	2.31	0.46
38:DD:270:ILE:HD12	38:DD:270:ILE:H	1.79	0.46
39:DE:6:GLY:HA2	39:DE:27:LEU:O	2.15	0.46
39:DE:38:THR:OG1	39:DE:41:LYS:HE2	2.15	0.46
39:DE:92:THR:OG1	39:DE:95:ILE:HD11	2.15	0.46
40:DF:89:VAL:C	40:DF:91:GLY:H	2.23	0.46
41:DG:58:GLN:CD	41:DG:58:GLN:C	2.82	0.46
42:DH:94:TYR:N	42:DH:94:TYR:CD1	2.84	0.46
43:DJ:51:UNK:CB	43:DJ:89:UNK:O	2.63	0.46
47:DO:112:MET:O	47:DO:113:LYS:C	2.58	0.46
48:DP:16:ARG:HH11	48:DP:16:ARG:CB	2.28	0.46
48:DP:126:VAL:HG12	48:DP:148:LEU:HD21	1.98	0.46
52:DT:64:ARG:HG2	52:DT:64:ARG:NH1	2.30	0.46
56:DX:57:LEU:HD22	56:DX:57:LEU:O	2.15	0.46
56:DX:65:ARG:HG2	56:DX:66:LEU:N	2.31	0.46
57:DY:14:LEU:HD13	57:DY:24:VAL:CG2	2.46	0.46
58:DZ:41:LEU:HD23	58:DZ:41:LEU:HA	1.81	0.46
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.51	0.46
1:AA:1316:G:H4'	14:AN:18:VAL:HG12	1.97	0.46
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.14	0.46
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.33	0.46
2:AB:51:LEU:CD2	2:AB:201:ILE:HG23	2.46	0.46
2:AB:95:GLN:HE21	2:AB:147:LYS:HE3	1.81	0.46
2:AB:142:LEU:CD2	2:AB:146:GLN:NE2	2.79	0.46
5:AE:100:VAL:O	5:AE:100:VAL:CG2	2.63	0.46
6:AF:12:PRO:C	6:AF:14:LEU:H	2.22	0.46
9:AI:114:TYR:O	9:AI:114:TYR:CD2	2.69	0.46
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:27:LEU:O	12:AL:28:LYS:C	2.58	0.46
12:AL:51:ALA:O	12:AL:52:LEU:HD23	2.15	0.46
21:AU:2:GLY:C	21:AU:4:GLY:H	2.24	0.46
24:AY:124:GLN:O	24:AY:127:LYS:HB3	2.16	0.46
24:AY:170:ARG:NH2	24:AY:205:TYR:HE1	2.13	0.46
24:AY:223:PHE:CZ	24:AY:249:GLY:HA3	2.51	0.46
24:AY:251:ILE:HG22	24:AY:251:ILE:O	2.14	0.46
24:AY:487:ILE:H	24:AY:487:ILE:CD1	2.28	0.46
24:AY:622:GLY:O	24:AY:623:ASP:C	2.58	0.46
25:B0:40:GLN:NE2	25:B0:44:ARG:N	2.64	0.46
26:B1:12:PRO:HG3	35:BA:1365:A:C5'	2.45	0.46
29:B4:39:CYS:SG	29:B4:42:PHE:HE2	2.37	0.46
33:B8:48:PHE:O	33:B8:49:VAL:CG2	2.60	0.46
35:BA:759:G:H2'	35:BA:760:G:C8	2.46	0.46
35:BA:1015:G:H2'	35:BA:1016:G:C8	2.51	0.46
35:BA:1101:U:H2'	35:BA:1102:C:C6	2.50	0.46
35:BA:1127:A:C2'	35:BA:1128:A:H5''	2.44	0.46
35:BA:1166:C:H2'	35:BA:1167:U:H6	1.81	0.46
35:BA:1529:G:C2	35:BA:1541:G:N2	2.84	0.46
35:BA:2193:G:H5'	35:BA:2193:G:H8	1.81	0.46
35:BA:2481:G:O2'	35:BA:2482:G:P	2.74	0.46
36:BB:64:C:O2'	36:BB:65:C:H5'	2.15	0.46
38:BD:45:ASN:HB2	38:BD:46:GLN:OE1	2.15	0.46
39:BE:82:ARG:HG3	39:BE:82:ARG:HH11	1.81	0.46
41:BG:31:VAL:HG22	41:BG:32:PRO:CD	2.46	0.46
41:BG:97:ASP:CB	41:BG:98:ARG:NH1	2.75	0.46
42:BH:33:LEU:HD21	42:BH:136:ILE:HG22	1.98	0.46
46:BN:120:LEU:HD13	46:BN:121:LYS:N	2.31	0.46
48:BP:144:GLU:O	48:BP:144:GLU:HG2	2.15	0.46
51:BS:63:THR:O	51:BS:64:GLU:C	2.59	0.46
52:BT:82:LEU:CD2	52:BT:85:LYS:HD2	2.45	0.46
56:BX:65:ARG:HG2	56:BX:66:LEU:N	2.31	0.46
1:CA:66:G:H4'	1:CA:173:U:H5	1.74	0.46
1:CA:376:G:OP2	16:CP:67:THR:HG21	2.16	0.46
1:CA:1353:G:H2'	1:CA:1354:C:H6	1.81	0.46
3:CC:40:ARG:HG3	3:CC:40:ARG:HH11	1.81	0.46
3:CC:127:ARG:HH11	3:CC:127:ARG:HG2	1.81	0.46
5:CE:28:PHE:O	5:CE:47:LYS:HA	2.15	0.46
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.98	0.46
8:CH:38:ILE:O	8:CH:39:LEU:C	2.58	0.46
10:CJ:61:GLU:OE1	14:CN:49:HIS:CE1	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:80:HIS:O	12:CL:81:SER:CB	2.58	0.46
13:CM:23:TYR:HE1	13:CM:70:LEU:HD22	1.81	0.46
19:CS:5:LEU:HG	19:CS:10:PHE:HD1	1.80	0.46
19:CS:9:VAL:C	19:CS:11:VAL:N	2.73	0.46
20:CT:50:GLU:HB2	20:CT:100:ILE:HB	1.97	0.46
22:CW:25:U:H2'	22:CW:26:C:O4'	2.15	0.46
22:CW:25:U:H2'	22:CW:26:C:H6	1.80	0.46
24:CY:309:LEU:HA	24:CY:332:SER:O	2.16	0.46
26:D1:65:SER:O	26:D1:68:PRO:HD2	2.16	0.46
31:D6:15:GLU:HG2	31:D6:16:CYS:O	2.15	0.46
31:D6:29:ASN:O	31:D6:30:THR:C	2.59	0.46
35:DA:389:G:C6	48:DP:70:GLN:HG3	2.51	0.46
35:DA:464:U:C4	35:DA:788:A:N7	2.84	0.46
35:DA:640:C:C4	35:DA:641:C:N4	2.83	0.46
35:DA:676:A:H1'	35:DA:2443:C:C1'	2.43	0.46
35:DA:958:U:C6	35:DA:958:U:H3'	2.50	0.46
35:DA:996:A:H2'	35:DA:997:G:H8	1.80	0.46
35:DA:1064:C:H5''	44:DK:86:LYS:HB2	1.98	0.46
35:DA:1590:U:H2'	35:DA:1591:G:H8	1.80	0.46
35:DA:2645:G:C3'	35:DA:2646:C:C5'	2.85	0.46
35:DA:2688:U:H5	35:DA:2720:U:OP2	1.99	0.46
35:DA:2740:A:C6	35:DA:2741:A:C6	3.04	0.46
39:DE:32:PRO:HA	39:DE:90:THR:HG23	1.97	0.46
40:DF:31:HIS:O	40:DF:32:LEU:C	2.59	0.46
44:DK:3:LYS:HB3	44:DK:3:LYS:HE3	1.78	0.46
48:DP:133:SER:O	48:DP:136:GLU:HG2	2.16	0.46
49:DQ:58:PHE:O	49:DQ:58:PHE:CD1	2.69	0.46
49:DQ:109:VAL:CG1	49:DQ:113:GLN:HB2	2.45	0.46
53:DU:98:LEU:O	53:DU:106:PHE:HB2	2.16	0.46
55:DW:82:LEU:N	55:DW:82:LEU:CD1	2.78	0.46
56:DX:34:ALA:HA	56:DX:38:GLU:OE2	2.16	0.46
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.15	0.46
1:AA:311:C:O2'	1:AA:312:C:H5'	2.16	0.46
1:AA:328:C:O2	1:AA:328:C:C2'	2.57	0.46
1:AA:509:A:H3'	1:AA:510:A:C8	2.50	0.46
1:AA:930:C:C2'	1:AA:931:C:H5'	2.46	0.46
1:AA:946:A:H3'	1:AA:947:G:H8	1.78	0.46
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.44	0.46
1:AA:1221:G:H4'	19:AS:77:THR:CG2	2.39	0.46
3:AC:173:VAL:O	3:AC:175:LEU:HD12	2.15	0.46
4:AD:159:ARG:O	4:AD:162:LEU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:72:GLN:O	5:AE:73:ASN:HB2	2.15	0.46
5:AE:143:ARG:NH1	8:AH:77:GLU:CD	2.74	0.46
8:AH:35:ILE:HG22	8:AH:39:LEU:HD21	1.98	0.46
9:AI:117:HIS:O	9:AI:118:LYS:HG3	2.16	0.46
10:AJ:3:LYS:N	10:AJ:75:ILE:O	2.49	0.46
10:AJ:42:THR:HG23	10:AJ:67:THR:O	2.16	0.46
13:AM:88:ARG:HG2	13:AM:88:ARG:HH11	1.80	0.46
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	2.30	0.46
16:AP:28:ARG:NH1	16:AP:28:ARG:HG2	2.31	0.46
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.31	0.46
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.98	0.46
24:AY:5:VAL:O	24:AY:7:TYR:N	2.49	0.46
24:AY:285:ASP:N	24:AY:285:ASP:OD2	2.48	0.46
24:AY:414:GLU:HA	24:AY:415:PRO:HD2	1.74	0.46
27:B2:20:GLU:C	27:B2:20:GLU:OE1	2.59	0.46
28:B3:43:ILE:O	28:B3:47:VAL:HG23	2.15	0.46
33:B8:4:MET:SD	33:B8:61:LEU:HD22	2.56	0.46
34:B9:2:LYS:HD3	35:BA:2526:G:N3	2.31	0.46
35:BA:383:U:H2'	35:BA:385:C:H5	1.80	0.46
35:BA:1081:U:H4'	44:BK:117:THR:HG21	1.98	0.46
35:BA:1241:A:H2'	35:BA:1242:A:O4'	2.15	0.46
35:BA:1264:G:O3'	35:BA:2615:U:H5'	2.16	0.46
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.67	0.46
35:BA:1782:C:H1'	35:BA:2609:U:C5'	2.37	0.46
35:BA:1821:A:H2'	35:BA:1822:G:C8	2.51	0.46
35:BA:1925:C:O2'	35:BA:1926:U:H5'	2.15	0.46
35:BA:1948:G:C8	35:BA:1948:G:C5'	2.96	0.46
35:BA:2075:U:C2'	35:BA:2076:U:H5''	2.46	0.46
35:BA:2126:A:C4'	35:BA:2127:G:O5'	2.60	0.46
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.28	0.46
35:BA:2809:A:OP2	35:BA:2891:G:N1	2.45	0.46
35:BA:2892:A:H62	35:BA:2893:G:N2	2.13	0.46
36:BB:68:C:H2'	36:BB:69:G:C8	2.48	0.46
38:BD:138:VAL:HA	38:BD:165:ILE:HG21	1.98	0.46
38:BD:244:ARG:HG2	38:BD:245:PRO:N	2.30	0.46
39:BE:199:ARG:HB2	39:BE:199:ARG:NH1	2.31	0.46
40:BF:160:ASN:HD21	40:BF:162:LEU:CD1	2.28	0.46
42:BH:20:ALA:CB	42:BH:21:PRO:CD	2.91	0.46
42:BH:169:VAL:HG13	42:BH:170:ARG:H	1.80	0.46
48:BP:122:PRO:O	48:BP:123:LEU:HD23	2.15	0.46
50:BR:41:ALA:C	50:BR:43:GLU:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:53:ARG:O	53:BU:54:LYS:C	2.57	0.46
55:BW:18:ARG:HG2	55:BW:18:ARG:HH11	1.81	0.46
1:CA:28:G:O2'	1:CA:296:U:OP1	2.33	0.46
1:CA:80:G:N1	1:CA:90:U:H5'	2.31	0.46
1:CA:114:U:H2'	1:CA:115:G:C8	2.51	0.46
1:CA:373:A:H2'	1:CA:374:A:H8	1.81	0.46
1:CA:416:G:H2'	1:CA:417:C:C6	2.51	0.46
1:CA:981:U:H2'	1:CA:982:U:C5	2.50	0.46
1:CA:1104:G:P	2:CB:111:ARG:HD2	2.56	0.46
1:CA:1363(A):A:C4'	1:CA:1364:U:H5''	2.41	0.46
1:CA:1415:G:O2'	1:CA:1416:G:H5'	2.16	0.46
1:CA:1420:C:O2	1:CA:1420:C:H2'	2.16	0.46
2:CB:235:SER:OG	2:CB:236:TYR:N	2.48	0.46
3:CC:20:SER:HA	3:CC:57:ILE:O	2.15	0.46
4:CD:22:LYS:O	4:CD:113:SER:HB3	2.15	0.46
6:CF:20:ALA:O	6:CF:21:LEU:C	2.59	0.46
11:CK:58:PRO:O	11:CK:59:TYR:C	2.58	0.46
17:CQ:88:TYR:O	17:CQ:89:LEU:C	2.58	0.46
20:CT:53:LEU:HB3	20:CT:102:GLY:HA3	1.97	0.46
23:CX:12:A:C2	23:CX:13:A:H5'	2.49	0.46
24:CY:92:ILE:HB	24:CY:405:PRO:HG2	1.98	0.46
24:CY:260:LEU:HB2	24:CY:261:GLY:H	1.67	0.46
24:CY:305:PRO:O	24:CY:333:GLY:HA2	2.16	0.46
31:D6:27:LYS:HB3	31:D6:32:ASN:HD21	1.77	0.46
34:D9:6:SER:HB2	35:DA:2466:C:H5''	1.98	0.46
35:DA:9:U:O4	35:DA:2629:A:N7	2.49	0.46
35:DA:177:G:H3'	35:DA:178:G:C8	2.51	0.46
35:DA:259:G:H1'	35:DA:621:A:HO2'	1.81	0.46
35:DA:286:C:H2'	35:DA:287:C:H6	1.79	0.46
35:DA:803:U:H2'	35:DA:804:A:C5'	2.46	0.46
35:DA:818:G:OP2	35:DA:1187:G:O6	2.34	0.46
35:DA:1050:A:C4	35:DA:1051:G:H1'	2.51	0.46
35:DA:1499:C:O2'	35:DA:1500:G:H5'	2.16	0.46
35:DA:1682:G:H5'	35:DA:1762:A:O2'	2.15	0.46
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.29	0.46
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.78	0.46
35:DA:2286:A:H8	35:DA:2287:A:C6	2.34	0.46
35:DA:2892:A:H62	35:DA:2893:G:N2	2.13	0.46
37:DC:76:LEU:HD21	37:DC:104:ILE:CD1	2.46	0.46
38:DD:28:GLU:N	38:DD:28:GLU:CD	2.73	0.46
38:DD:244:ARG:HG2	38:DD:245:PRO:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:49:LEU:O	39:DE:78:LEU:CB	2.64	0.46
39:DE:107:THR:HA	39:DE:163:GLU:O	2.16	0.46
39:DE:110:GLY:O	50:DR:2:ARG:HD3	2.15	0.46
44:DK:33:ASN:C	44:DK:35:MET:H	2.23	0.46
45:DL:15:UNK:O	45:DL:19:UNK:N	2.49	0.46
46:DN:15:LEU:HB2	46:DN:134:ARG:HB2	1.98	0.46
47:DO:53:LYS:O	47:DO:54:GLU:C	2.59	0.46
50:DR:26:LYS:HE2	50:DR:71:GLN:H	1.80	0.46
50:DR:45:ARG:O	50:DR:46:GLY:C	2.59	0.46
55:DW:20:VAL:HG23	55:DW:21:VAL:H	1.80	0.46
57:DY:8:LYS:HE2	57:DY:72:VAL:O	2.16	0.46
1:AA:46:G:O2'	1:AA:365:U:H1'	2.16	0.46
1:AA:324:G:N2	1:AA:326:G:H3'	2.31	0.46
1:AA:416:G:H2'	1:AA:417:C:C6	2.51	0.46
1:AA:814:A:H2'	1:AA:816:A:C5'	2.42	0.46
1:AA:826:C:H2'	1:AA:827:U:H6	1.79	0.46
1:AA:1118:C:H42	1:AA:1155:G:H1	1.63	0.46
1:AA:1423:G:H5''	47:BO:49:ARG:HH22	1.81	0.46
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.46	0.46
2:AB:32:ILE:CD1	2:AB:40:HIS:HB3	2.45	0.46
2:AB:51:LEU:HD22	2:AB:55:PHE:HE2	1.81	0.46
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.63	0.46
7:AG:134:ALA:O	7:AG:135:VAL:C	2.57	0.46
8:AH:44:PHE:HE2	8:AH:109:ILE:CG2	2.28	0.46
17:AQ:52:LYS:HD3	17:AQ:55:ASP:OD2	2.15	0.46
20:AT:75:ASN:H	20:AT:75:ASN:HD22	1.63	0.46
20:AT:104:LEU:HD23	20:AT:105:SER:O	2.16	0.46
22:AV:4:G:O2'	22:AV:5:G:P	2.74	0.46
22:AW:48:U:C6	22:AW:51:U:OP1	2.69	0.46
24:AY:25:LYS:HZ2	24:AY:86:GLY:HA2	1.81	0.46
24:AY:76:ASP:O	24:AY:77:HIS:CG	2.68	0.46
24:AY:100:VAL:HG23	24:AY:329:ARG:CG	2.44	0.46
24:AY:363:ARG:HG3	24:AY:363:ARG:NH1	2.23	0.46
24:AY:673:PHE:CG	24:AY:674:ASP:N	2.84	0.46
24:AY:689:LYS:CG	24:AY:690:GLY:N	2.78	0.46
25:B0:19:LYS:HD3	25:B0:41:ARG:NH2	2.26	0.46
26:B1:44:PRO:HB2	26:B1:46:LEU:CD1	2.46	0.46
26:B1:92:LYS:CE	35:BA:153:C:OP1	2.64	0.46
31:B6:43:CYS:CB	31:B6:44:ARG:HH21	2.23	0.46
34:B9:3:VAL:O	34:B9:4:ARG:HB3	2.16	0.46
35:BA:71:A:N3	35:BA:73:A:N6	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:324:A:N6	35:BA:338:G:O2'	2.49	0.46
35:BA:393:C:O2'	35:BA:394:A:H5'	2.14	0.46
35:BA:428:A:H3'	35:BA:429:A:H8	1.80	0.46
35:BA:1159:U:H6	35:BA:1159:U:H5''	1.81	0.46
35:BA:1196:C:O2'	35:BA:1197:G:H5'	2.16	0.46
35:BA:1491:G:H21	35:BA:1492:G:H1'	1.81	0.46
35:BA:2105:C:N4	35:BA:2184:G:H1	2.12	0.46
35:BA:2307:G:H3'	35:BA:2308:G:C5'	2.45	0.46
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.45	0.46
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.96	0.46
43:BJ:108:UNK:O	43:BJ:109:UNK:C	2.64	0.46
47:BO:9:GLU:O	47:BO:83:ALA:HA	2.15	0.46
48:BP:71:VAL:HG12	48:BP:72:PRO:HD3	1.97	0.46
48:BP:114:ILE:HD12	48:BP:114:ILE:C	2.40	0.46
50:BR:63:ARG:HA	50:BR:80:PHE:CZ	2.51	0.46
52:BT:26:ASP:OD2	52:BT:26:ASP:O	2.34	0.46
57:BY:10:GLY:C	57:BY:27:VAL:HG13	2.41	0.46
57:BY:74:PRO:HG3	57:BY:83:THR:CG2	2.45	0.46
58:BZ:153:SER:O	58:BZ:155:LEU:HD23	2.15	0.46
1:CA:961:U:OP2	1:CA:1223:C:C4'	2.64	0.46
1:CA:1053:G:C4'	1:CA:1054:C:H5'	2.46	0.46
2:CB:238:LEU:O	2:CB:240:GLN:N	2.49	0.46
3:CC:43:LEU:C	3:CC:45:LYS:N	2.72	0.46
4:CD:68:TYR:O	4:CD:69:GLY:C	2.58	0.46
8:CH:19:VAL:HG23	8:CH:21:LYS:HB2	1.97	0.46
9:CI:9:ARG:HB3	9:CI:104:ARG:HH12	1.81	0.46
12:CL:117:ARG:HH22	12:CL:124:LYS:HB2	1.81	0.46
13:CM:4:ILE:CG2	13:CM:5:ALA:H	2.25	0.46
13:CM:119:GLY:C	13:CM:121:LYS:H	2.23	0.46
18:CR:59:SER:N	18:CR:62:GLU:HB2	2.24	0.46
20:CT:18:GLN:O	20:CT:19:SER:C	2.59	0.46
24:CY:394:ALA:HB1	24:CY:395:PRO:HD2	1.97	0.46
25:D0:40:GLN:NE2	25:D0:44:ARG:N	2.64	0.46
29:D4:9:LEU:HD13	29:D4:10:VAL:H	1.81	0.46
35:DA:7:G:H1	35:DA:2896:C:N4	2.13	0.46
35:DA:325:G:H2'	35:DA:326:G:C8	2.50	0.46
35:DA:520:G:H2'	35:DA:521:G:H8	1.81	0.46
35:DA:821:A:H2'	35:DA:946:G:H5''	1.98	0.46
35:DA:848:G:H5''	35:DA:928:G:N2	2.30	0.46
35:DA:1006:C:O2'	46:DN:106:MET:HB3	2.15	0.46
35:DA:1061:U:C4'	35:DA:1070:A:H1'	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1077:A:O2'	35:DA:1078:U:H5'	2.16	0.46
35:DA:1109:C:O2	35:DA:1109:C:C2'	2.64	0.46
35:DA:1668:A:H61	35:DA:1676:A:H61	1.63	0.46
35:DA:1843:C:H2'	35:DA:1844:C:C6	2.50	0.46
37:DC:138:LEU:O	37:DC:139:PRO:C	2.57	0.46
37:DC:150:ILE:HG13	37:DC:154:ILE:HG13	1.97	0.46
39:DE:1:MET:O	39:DE:2:LYS:C	2.58	0.46
39:DE:36:ARG:HH22	39:DE:88:GLY:H	1.64	0.46
39:DE:161:GLY:O	39:DE:162:ALA:C	2.59	0.46
40:DF:165:ARG:HH11	40:DF:165:ARG:HB3	1.80	0.46
42:DH:20:ALA:HB1	42:DH:21:PRO:HD3	1.98	0.46
44:DK:99:ILE:O	44:DK:139:VAL:N	2.49	0.46
46:DN:129:PRO:O	46:DN:130:HIS:CB	2.59	0.46
49:DQ:78:PRO:HB2	49:DQ:81:VAL:HG11	1.98	0.46
50:DR:33:ARG:HG3	50:DR:115:GLU:HG3	1.98	0.46
52:DT:32:TYR:HB3	52:DT:81:PRO:HB2	1.98	0.46
52:DT:75:ILE:N	52:DT:75:ILE:CD1	2.77	0.46
52:DT:89:VAL:C	52:DT:91:ARG:N	2.72	0.46
57:DY:7:VAL:HG21	57:DY:8:LYS:NZ	2.31	0.46
57:DY:54:LYS:HZ3	57:DY:55:TYR:HE2	1.63	0.46
1:AA:243:A:C2	1:AA:246:A:C8	3.03	0.46
1:AA:473:G:H2'	1:AA:474:G:C8	2.47	0.46
1:AA:781:A:C2'	1:AA:782:A:H5'	2.46	0.46
1:AA:992:U:O2'	1:AA:993:G:P	2.74	0.46
1:AA:1198:G:C6	1:AA:1199:U:N3	2.84	0.46
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.51	0.46
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.46	0.46
3:AC:20:SER:HA	3:AC:57:ILE:O	2.16	0.46
3:AC:43:LEU:C	3:AC:45:LYS:N	2.73	0.46
6:AF:21:LEU:O	6:AF:24:GLU:HB3	2.16	0.46
7:AG:103:TRP:O	7:AG:104:LEU:C	2.58	0.46
8:AH:83:ILE:CD1	8:AH:137:VAL:HG22	2.41	0.46
10:AJ:79:ARG:HA	10:AJ:79:ARG:HD3	1.62	0.46
15:AO:31:LEU:N	15:AO:31:LEU:HD22	2.31	0.46
20:AT:57:ARG:NH1	20:AT:102:GLY:CA	2.74	0.46
22:AV:27:U:H6	22:AV:27:U:O5'	1.99	0.46
24:AY:70:THR:O	24:AY:80:ASN:HA	2.15	0.46
24:AY:111:SER:O	24:AY:112:GLN:C	2.58	0.46
24:AY:168:ILE:HG22	24:AY:175:SER:OG	2.16	0.46
24:AY:181:LEU:HD11	24:AY:242:LEU:HD22	1.97	0.46
25:B0:12:ASN:C	25:B0:14:ARG:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:24:ALA:HA	26:B1:32:LYS:HG3	1.98	0.46
26:B1:27:GLU:O	26:B1:28:GLY:C	2.58	0.46
26:B1:44:PRO:O	26:B1:46:LEU:HD13	2.16	0.46
27:B2:8:LYS:O	27:B2:9:GLN:C	2.58	0.46
31:B6:47:THR:OG1	31:B6:48:VAL:N	2.46	0.46
33:B8:56:GLU:HA	33:B8:59:LYS:HZ3	1.75	0.46
34:B9:4:ARG:NH1	35:BA:2477:C:N4	2.64	0.46
35:BA:391:G:O2'	35:BA:392:C:H5'	2.15	0.46
35:BA:654(P):C:O2'	35:BA:654(Q):C:H5'	2.15	0.46
35:BA:739:G:HO2'	35:BA:740:U:H6	1.60	0.46
35:BA:814:C:C5	48:BP:27:HIS:CE1	3.04	0.46
35:BA:911:A:H2'	49:BQ:9:TYR:OH	2.15	0.46
35:BA:1109:C:C2'	35:BA:1109:C:O2	2.64	0.46
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.45	0.46
35:BA:2163:C:C2'	35:BA:2164:C:H5'	2.46	0.46
35:BA:2478:A:C2'	35:BA:2479:G:H5'	2.46	0.46
35:BA:2794:C:N4	35:BA:2801(A):A:H61	2.13	0.46
39:BE:49:LEU:O	39:BE:78:LEU:CB	2.64	0.46
39:BE:81:ILE:O	39:BE:82:ARG:C	2.59	0.46
41:BG:7:LEU:HD11	41:BG:103:LEU:HB2	1.98	0.46
41:BG:111:LEU:CD2	41:BG:120:LEU:HD21	2.45	0.46
41:BG:139:LEU:HD23	41:BG:149:VAL:HG11	1.98	0.46
48:BP:47:ASP:HB3	48:BP:48:PRO:C	2.41	0.46
48:BP:50:ARG:HG3	48:BP:51:PHE:N	2.31	0.46
48:BP:115:LEU:HA	48:BP:134:ALA:CB	2.42	0.46
51:BS:89:ARG:HG3	51:BS:92:TYR:N	2.30	0.46
52:BT:82:LEU:N	52:BT:82:LEU:CD1	2.78	0.46
52:BT:102:ILE:HB	52:BT:110:ILE:CD1	2.45	0.46
52:BT:108:ARG:HB2	52:BT:108:ARG:HH11	1.79	0.46
53:BU:31:SER:O	53:BU:33:ARG:N	2.48	0.46
54:BV:38:LEU:C	54:BV:39:LEU:HD22	2.41	0.46
56:BX:12:VAL:CB	56:BX:17:ALA:HB1	2.14	0.46
57:BY:8:LYS:HE2	57:BY:72:VAL:O	2.16	0.46
57:BY:31:LEU:N	57:BY:31:LEU:CD2	2.78	0.46
1:CA:221:C:H5'	1:CA:222:U:OP2	2.16	0.46
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.16	0.46
1:CA:1346:A:H1'	1:CA:1348:U:C5	2.51	0.46
1:CA:1443:G:N3	1:CA:1443:G:H2'	2.29	0.46
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	1.98	0.46
5:CE:43:LEU:CD2	5:CE:132:ALA:HB1	2.46	0.46
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:3:LYS:N	10:CJ:75:ILE:O	2.49	0.46
10:CJ:61:GLU:HG3	14:CN:58:LYS:HZ1	1.79	0.46
13:CM:99:ARG:O	13:CM:100:GLY:C	2.58	0.46
13:CM:106:ASN:HB3	13:CM:107:ALA:H	1.52	0.46
15:CO:17:ARG:NH1	15:CO:77:ARG:NH1	2.64	0.46
24:CY:146:LEU:CD1	24:CY:167:PRO:HD3	2.46	0.46
24:CY:238:THR:HG23	24:CY:241:GLU:N	2.24	0.46
24:CY:276:VAL:CA	24:CY:280:LEU:HD23	2.46	0.46
24:CY:428:LEU:HD13	24:CY:440:VAL:HG11	1.96	0.46
24:CY:484:ARG:CD	24:CY:559:PRO:HB2	2.46	0.46
25:D0:60:PHE:C	25:D0:60:PHE:CD1	2.94	0.46
27:D2:45:SER:O	27:D2:46:GLN:NE2	2.49	0.46
31:D6:7:ILE:N	31:D6:7:ILE:CD1	2.79	0.46
31:D6:45:LYS:HG2	35:DA:2371:G:C4'	2.46	0.46
32:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.51	0.46
33:D8:42:ARG:HH11	35:DA:2350:C:H5	1.64	0.46
35:DA:20:C:H2'	35:DA:21:A:C8	2.51	0.46
35:DA:120:U:O2	35:DA:120:U:C2'	2.62	0.46
35:DA:186:G:C2	35:DA:211:A:C2	3.04	0.46
35:DA:211:A:H2'	35:DA:212:G:C5'	2.23	0.46
35:DA:288:C:O2'	35:DA:289:A:H5'	2.16	0.46
35:DA:343:C:O2'	35:DA:344:G:H5'	2.15	0.46
35:DA:492:A:O2'	35:DA:493:G:H5'	2.16	0.46
35:DA:773:U:H2'	35:DA:774:A:H5'	1.98	0.46
35:DA:814:C:C5	48:DP:27:HIS:CE1	3.04	0.46
35:DA:841:A:H2'	35:DA:842:G:O4'	2.15	0.46
35:DA:859:G:N2	35:DA:917:A:OP2	2.27	0.46
35:DA:1022:G:O2'	35:DA:1023:U:P	2.74	0.46
35:DA:1141:U:OP1	46:DN:25:ARG:NH1	2.49	0.46
35:DA:1596:A:C2'	35:DA:1597:A:H5'	2.45	0.46
35:DA:1808:U:H2'	35:DA:1809:A:O4'	2.16	0.46
35:DA:1812:A:O2'	35:DA:1813:G:H5'	2.16	0.46
35:DA:1930:G:O2'	35:DA:1931:U:O5'	2.34	0.46
35:DA:2228:G:H2'	35:DA:2229:C:H6	1.76	0.46
35:DA:2314:C:C2'	35:DA:2315:G:H5'	2.46	0.46
35:DA:2428:G:H5'	35:DA:2429:G:P	2.56	0.46
35:DA:2859:G:H2'	35:DA:2860:A:C8	2.51	0.46
37:DC:85:LYS:O	37:DC:89:GLU:HG3	2.16	0.46
38:DD:35:LYS:HD2	38:DD:36:PRO:HA	1.96	0.46
38:DD:139:GLY:H	38:DD:165:ILE:HB	1.80	0.46
38:DD:147:LEU:HA	38:DD:147:LEU:HD12	1.66	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:196:VAL:O	38:DD:196:VAL:HG12	2.16	0.46
38:DD:227:ASN:O	38:DD:230:ASP:N	2.45	0.46
38:DD:270:ILE:H	38:DD:270:ILE:CD1	2.28	0.46
39:DE:82:ARG:O	39:DE:83:ASP:C	2.57	0.46
42:DH:66:GLY:HA2	42:DH:69:ARG:CB	2.43	0.46
44:DK:17:ALA:HB3	44:DK:38:VAL:CG1	2.46	0.46
48:DP:77:ARG:HB2	48:DP:78:PRO:CD	2.40	0.46
48:DP:114:ILE:HD12	48:DP:114:ILE:C	2.40	0.46
48:DP:147:LEU:C	48:DP:148:LEU:HD12	2.41	0.46
50:DR:83:ILE:O	50:DR:87:TYR:CE2	2.69	0.46
52:DT:128:GLU:OE2	52:DT:129:ARG:N	2.49	0.46
54:DV:35:LEU:HB3	54:DV:37:VAL:HG23	1.98	0.46
57:DY:52:SER:N	57:DY:53:PRO:HD2	2.30	0.46
57:DY:74:PRO:HG3	57:DY:83:THR:CG2	2.45	0.46
58:DZ:56:VAL:HA	58:DZ:70:LEU:HD23	1.98	0.46
1:AA:252:U:C4	1:AA:253:U:O4	2.70	0.45
1:AA:335:C:O2'	1:AA:336:C:H5'	2.16	0.45
1:AA:545:C:O2'	1:AA:546:G:H5'	2.16	0.45
1:AA:830:G:H2'	1:AA:831:U:C6	2.52	0.45
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.45	0.45
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.50	0.45
2:AB:223:ILE:C	2:AB:225:ALA:N	2.70	0.45
3:AC:43:LEU:HD22	3:AC:47:LEU:HD22	1.98	0.45
3:AC:206:GLU:HG2	3:AC:207:VAL:N	2.30	0.45
11:AK:33:THR:HB	11:AK:38:ASN:C	2.41	0.45
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.14	0.45
14:AN:42:ILE:HD13	14:AN:42:ILE:HA	1.68	0.45
15:AO:31:LEU:CD2	15:AO:31:LEU:N	2.79	0.45
16:AP:59:TRP:O	16:AP:62:VAL:HG22	2.16	0.45
16:AP:74:LEU:HD22	16:AP:79:VAL:HG21	1.98	0.45
20:AT:75:ASN:O	20:AT:76:ALA:C	2.59	0.45
24:AY:447:GLY:O	24:AY:448:GLN:C	2.58	0.45
24:AY:526:VAL:N	24:AY:565:VAL:O	2.49	0.45
26:B1:84:GLY:O	26:B1:85:LEU:C	2.59	0.45
29:B4:7:PRO:HG2	41:BG:61:ALA:O	2.16	0.45
29:B4:14:ILE:O	29:B4:15:ILE:HD13	2.16	0.45
31:B6:12:GLU:HA	31:B6:23:THR:HA	1.99	0.45
35:BA:84:A:H5''	57:BY:9:LYS:HZ3	1.77	0.45
35:BA:539:G:O2'	35:BA:540:C:H5'	2.17	0.45
35:BA:560:C:H2'	35:BA:561:G:O4'	2.16	0.45
35:BA:626:U:H3	48:BP:105:LEU:HG	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:661:C:H4'	48:BP:18:ARG:HG2	1.97	0.45
35:BA:676:A:H1'	35:BA:2443:C:C1'	2.43	0.45
35:BA:725:G:C6	35:BA:726:G:N1	2.84	0.45
35:BA:818:G:OP2	35:BA:1187:G:O6	2.34	0.45
35:BA:925:C:C4	35:BA:926:A:N7	2.84	0.45
35:BA:962:G:C2'	35:BA:963:U:H5'	2.45	0.45
35:BA:1607:C:H5'	35:BA:1608:A:C8	2.51	0.45
35:BA:1614:A:H62	55:BW:93:ALA:HB2	1.81	0.45
35:BA:1788:C:H2'	35:BA:1789:A:C8	2.50	0.45
35:BA:2313:C:O2'	35:BA:2314:C:H5'	2.16	0.45
35:BA:2722:G:O2'	50:BR:5:LYS:HB2	2.16	0.45
35:BA:2732:G:H5''	35:BA:2733:A:C8	2.52	0.45
35:BA:2807:G:H3'	35:BA:2808:U:C5'	2.39	0.45
36:BB:15:A:H1'	36:BB:110:G:C5	2.50	0.45
37:BC:118:PRO:C	37:BC:121:MET:HG2	2.42	0.45
41:BG:55:LYS:C	41:BG:57:ALA:H	2.22	0.45
41:BG:152:LEU:HD23	41:BG:152:LEU:N	2.30	0.45
46:BN:32:THR:HG23	46:BN:37:LYS:HB3	1.99	0.45
46:BN:46:VAL:CG1	46:BN:48:MET:HE2	2.42	0.45
47:BO:69:ILE:HD12	47:BO:69:ILE:H	1.79	0.45
52:BT:33:LYS:NZ	52:BT:43:GLN:NE2	2.65	0.45
52:BT:102:ILE:HG13	52:BT:103:ARG:N	2.31	0.45
53:BU:72:HIS:HE1	53:BU:107:ALA:HB2	1.82	0.45
54:BV:21:ARG:HB3	54:BV:91:TYR:HD1	1.71	0.45
54:BV:39:LEU:O	54:BV:40:LEU:CB	2.64	0.45
54:BV:89:GLN:HA	54:BV:89:GLN:OE1	2.17	0.45
1:CA:190:U:O2	20:CT:105:SER:HB2	2.16	0.45
1:CA:311:C:O2'	1:CA:312:C:H5'	2.17	0.45
1:CA:534:U:H5'	1:CA:534:U:H6	1.81	0.45
1:CA:724:G:O2'	1:CA:725:G:H5'	2.16	0.45
1:CA:1094:G:O2'	1:CA:1095:U:OP2	2.34	0.45
1:CA:1431:C:H2'	1:CA:1432:G:H5'	1.98	0.45
2:CB:8:LYS:HB2	2:CB:9:GLU:OE2	2.16	0.45
2:CB:113:HIS:O	2:CB:117:GLU:HG3	2.16	0.45
3:CC:138:VAL:O	3:CC:140:ARG:N	2.49	0.45
5:CE:101:ILE:HD13	5:CE:101:ILE:N	2.20	0.45
6:CF:97:PHE:O	18:CR:31:LEU:HD23	2.17	0.45
8:CH:6:ILE:HG21	8:CH:85:ARG:NH1	2.30	0.45
9:CI:126:SER:O	9:CI:127:LYS:HB3	2.16	0.45
10:CJ:31:GLY:O	10:CJ:32:ALA:C	2.58	0.45
12:CL:115:LYS:O	12:CL:117:ARG:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:170:ARG:HH22	24:CY:205:TYR:HE1	1.62	0.45
24:CY:315:LYS:C	24:CY:316:ILE:HD13	2.41	0.45
24:CY:456:GLU:O	24:CY:459:LEU:HD12	2.16	0.45
24:CY:568:TYR:CD2	24:CY:569:ASP:HB2	2.51	0.45
27:D2:6:VAL:HG12	27:D2:6:VAL:O	2.16	0.45
27:D2:46:GLN:O	27:D2:47:ASN:O	2.33	0.45
30:D5:33:CYS:SG	30:D5:36:CYS:SG	3.11	0.45
35:DA:311:A:H5'	35:DA:332:A:N3	2.31	0.45
35:DA:777:A:C2	35:DA:778:G:C4	3.03	0.45
35:DA:911:A:H2'	49:DQ:9:TYR:OH	2.16	0.45
35:DA:1071:G:N2	35:DA:1090:U:C5	2.83	0.45
35:DA:1101:U:H2'	35:DA:1102:C:C6	2.50	0.45
35:DA:1187:G:H5''	54:DV:81:TYR:CE2	2.51	0.45
35:DA:1355:G:O2'	35:DA:1356:G:H5'	2.15	0.45
35:DA:1378:A:HO2'	35:DA:1379:A:H5''	1.73	0.45
35:DA:1462:C:H4'	35:DA:2703:C:H5'	1.98	0.45
35:DA:1675:C:H2'	35:DA:1676:A:O4'	2.17	0.45
35:DA:1843:C:H5'	38:DD:253:GLN:NE2	2.30	0.45
35:DA:2478:A:C2'	35:DA:2479:G:H5'	2.45	0.45
35:DA:2507:C:H2'	35:DA:2508:G:H8	1.81	0.45
35:DA:2543:G:C2	35:DA:2765:A:H2'	2.51	0.45
35:DA:2573:C:OP1	35:DA:2574:G:OP1	2.34	0.45
35:DA:2776:A:C6	35:DA:2782:G:H1'	2.50	0.45
35:DA:2809:A:OP2	35:DA:2891:G:N1	2.46	0.45
38:DD:35:LYS:CG	38:DD:63:ARG:HA	2.33	0.45
39:DE:120:TRP:CE3	39:DE:155:LYS:HE3	2.51	0.45
39:DE:174:ASP:OD2	39:DE:175:VAL:N	2.49	0.45
39:DE:199:ARG:NH1	39:DE:199:ARG:HB2	2.32	0.45
41:DG:31:VAL:O	41:DG:31:VAL:HG13	2.15	0.45
41:DG:47:LYS:HD3	41:DG:47:LYS:H	1.81	0.45
41:DG:77:ILE:C	41:DG:80:PHE:H	2.23	0.45
46:DN:119:ARG:HG3	46:DN:119:ARG:HH11	1.81	0.45
46:DN:123:TYR:N	46:DN:123:TYR:CD1	2.84	0.45
48:DP:32:THR:CG2	48:DP:37:GLY:HA2	2.45	0.45
48:DP:46:LYS:HG2	48:DP:52:GLU:CG	2.46	0.45
48:DP:98:GLU:O	48:DP:102:ARG:NH2	2.49	0.45
51:DS:35:ILE:HD11	51:DS:99:LYS:HE3	1.98	0.45
51:DS:44:LYS:O	51:DS:46:VAL:HG23	2.16	0.45
51:DS:106:ARG:O	51:DS:107:GLU:HB2	2.15	0.45
53:DU:49:HIS:O	53:DU:52:ARG:HB2	2.16	0.45
54:DV:39:LEU:HA	54:DV:47:VAL:CG1	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:12:ILE:HG13	55:DW:42:ARG:NH1	2.31	0.45
56:DX:3:THR:O	56:DX:4:ALA:HB3	2.17	0.45
1:AA:470:C:C2'	1:AA:471:G:OP1	2.64	0.45
1:AA:559:A:P	5:AE:126:ARG:HH22	2.39	0.45
1:AA:896:C:O2'	1:AA:897:C:H5'	2.17	0.45
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.51	0.45
1:AA:1371:G:C6	1:AA:1372:U:C4	3.03	0.45
2:AB:179:LYS:HG2	2:AB:179:LYS:O	2.16	0.45
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.16	0.45
3:AC:52:LEU:HD12	3:AC:55:VAL:HG22	1.98	0.45
3:AC:151:VAL:CG1	3:AC:152:ILE:N	2.79	0.45
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.31	0.45
9:AI:77:ILE:O	9:AI:78:LYS:C	2.59	0.45
9:AI:125:TYR:HD2	9:AI:126:SER:H	1.64	0.45
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.64	0.45
13:AM:4:ILE:CG2	13:AM:5:ALA:H	2.23	0.45
13:AM:19:LEU:HD22	13:AM:19:LEU:N	2.31	0.45
13:AM:54:VAL:HG12	13:AM:58:GLU:CG	2.46	0.45
15:AO:55:GLY:O	15:AO:56:LEU:C	2.59	0.45
17:AQ:88:TYR:O	17:AQ:91:ARG:N	2.50	0.45
20:AT:50:GLU:HG3	20:AT:51:GLU:H	1.78	0.45
22:AV:38:A:H2'	22:AV:39:C:O4'	2.16	0.45
24:AY:88:VAL:O	24:AY:90:PHE:N	2.49	0.45
24:AY:117:GLN:O	24:AY:118:SER:C	2.58	0.45
24:AY:120:THR:O	24:AY:124:GLN:CD	2.59	0.45
24:AY:408:VAL:HG22	24:AY:454:MET:HA	1.98	0.45
24:AY:498:ILE:HG22	24:AY:507:TYR:CG	2.51	0.45
24:AY:545:GLY:CA	24:AY:583:LYS:HG2	2.46	0.45
30:B5:44:THR:CG2	50:BR:101:ALA:HB2	2.30	0.45
31:B6:33:LYS:HG2	31:B6:34:LEU:H	1.81	0.45
33:B8:50:LEU:C	33:B8:52:LYS:N	2.74	0.45
33:B8:59:LYS:HD3	48:BP:50:ARG:HB3	1.99	0.45
34:B9:29:ASN:C	34:B9:31:LYS:H	2.24	0.45
34:B9:34:GLN:O	34:B9:35:ARG:CB	2.64	0.45
35:BA:85:G:N3	35:BA:103:A:C2	2.84	0.45
35:BA:272(G):C:H42	35:BA:363(C):G:H1	1.63	0.45
35:BA:753:C:H2'	35:BA:754:C:C6	2.51	0.45
35:BA:786:C:C2'	35:BA:787:U:H5'	2.46	0.45
35:BA:814:C:N3	35:BA:1193:G:O6	2.49	0.45
35:BA:1237:A:O2'	35:BA:1238:G:P	2.74	0.45
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2001:A:H4'	35:BA:2689:U:H2'	1.99	0.45
35:BA:2131:G:C8	35:BA:2133:G:N3	2.84	0.45
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.50	0.45
35:BA:2466:C:C2'	35:BA:2467:C:H5'	2.46	0.45
35:BA:2514:U:C2	35:BA:2515:C:C5	3.04	0.45
35:BA:2787:C:O2	35:BA:2787:C:H2'	2.17	0.45
35:BA:2850:A:C2	50:BR:61:HIS:CD2	3.03	0.45
37:BC:76:LEU:HB3	37:BC:114:VAL:HA	1.99	0.45
39:BE:9:VAL:HG13	39:BE:25:VAL:O	2.15	0.45
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.46	0.45
41:BG:77:ILE:HG22	41:BG:80:PHE:CA	2.42	0.45
41:BG:77:ILE:O	41:BG:78:SER:C	2.59	0.45
42:BH:121:ILE:HA	42:BH:134:SER:O	2.16	0.45
44:BK:105:LEU:CD2	44:BK:120:LEU:HD13	2.46	0.45
48:BP:95:VAL:CG2	48:BP:125:VAL:HG23	2.44	0.45
48:BP:99:LEU:HG	48:BP:100:LEU:HD22	1.97	0.45
52:BT:29:ARG:HD2	52:BT:29:ARG:HA	1.72	0.45
53:BU:46:ALA:O	53:BU:47:TYR:C	2.59	0.45
56:BX:41:ASN:HA	56:BX:44:GLU:HG2	1.97	0.45
1:CA:399:G:H2'	1:CA:400:C:C6	2.51	0.45
1:CA:495:A:H4'	1:CA:496:A:OP1	2.15	0.45
1:CA:666:G:N2	1:CA:667:G:H1'	2.32	0.45
1:CA:923:A:H2'	1:CA:924:C:C6	2.51	0.45
1:CA:1198:G:C6	1:CA:1199:U:N3	2.84	0.45
1:CA:1277:C:C3'	1:CA:1277:C:C6	3.00	0.45
1:CA:1511:G:C2'	1:CA:1512:U:H5'	2.46	0.45
2:CB:32:ILE:CD1	2:CB:40:HIS:HB3	2.46	0.45
2:CB:96:ARG:N	2:CB:96:ARG:CD	2.79	0.45
2:CB:164:VAL:CG1	2:CB:165:VAL:N	2.79	0.45
4:CD:168:ARG:HA	4:CD:168:ARG:HH11	1.80	0.45
6:CF:67:MET:CE	6:CF:72:VAL:HA	2.46	0.45
9:CI:84:ALA:C	9:CI:86:VAL:N	2.73	0.45
12:CL:105:TYR:C	12:CL:107:ALA:H	2.25	0.45
22:CV:20:U:H5'	22:CV:21:A:OP2	2.16	0.45
24:CY:148:LEU:CD1	24:CY:151:ARG:HH11	2.29	0.45
24:CY:190:ASN:HD21	24:CY:195:ASP:HB2	1.81	0.45
24:CY:259:PHE:CD1	24:CY:259:PHE:N	2.84	0.45
24:CY:264:LEU:HD22	24:CY:265:LYS:NZ	2.31	0.45
29:D4:22:ILE:HD12	29:D4:22:ILE:H	1.81	0.45
31:D6:5:VAL:HB	35:DA:2284:C:P	2.55	0.45
31:D6:11:LEU:HD12	31:D6:25:LYS:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:134:C:O2'	35:DA:135:G:H5'	2.17	0.45
35:DA:238:C:H2'	35:DA:239:U:O4'	2.15	0.45
35:DA:271(C):C:H2'	35:DA:271(D):G:H8	1.81	0.45
35:DA:272(G):C:H42	35:DA:363(C):G:H1	1.64	0.45
35:DA:759:G:H2'	35:DA:760:G:C8	2.48	0.45
35:DA:1114:G:O2'	35:DA:1115:G:H5''	2.17	0.45
35:DA:1132:A:C4	35:DA:1133:U:C5	3.04	0.45
35:DA:1345:C:C2'	35:DA:1346:G:H5'	2.47	0.45
35:DA:1487:G:H3'	35:DA:1488:G:H8	1.82	0.45
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.47	0.45
35:DA:2642:G:O2'	35:DA:2643:G:H5'	2.16	0.45
35:DA:2732:G:H5''	35:DA:2733:A:C8	2.51	0.45
35:DA:2795:G:H2'	35:DA:2795:G:N3	2.30	0.45
35:DA:2850:A:C2	50:DR:61:HIS:CD2	3.05	0.45
36:DB:81:G:C2	36:DB:82:G:N7	2.84	0.45
39:DE:107:THR:C	39:DE:190:GLY:HA2	2.36	0.45
41:DG:9:ARG:O	41:DG:10:LYS:C	2.60	0.45
41:DG:23:PHE:CE2	41:DG:168:GLU:HG2	2.51	0.45
42:DH:61:HIS:O	42:DH:62:LYS:C	2.57	0.45
42:DH:76:VAL:C	42:DH:78:GLY:N	2.74	0.45
42:DH:89:ILE:O	42:DH:89:ILE:CG1	2.63	0.45
44:DK:23:VAL:HG12	44:DK:23:VAL:O	2.16	0.45
46:DN:79:PRO:C	46:DN:81:GLY:H	2.24	0.45
48:DP:98:GLU:HA	48:DP:101:VAL:HG22	1.98	0.45
48:DP:115:LEU:HA	48:DP:134:ALA:CB	2.42	0.45
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.16	0.45
57:DY:12:THR:HA	57:DY:25:GLY:O	2.16	0.45
1:AA:56:U:H2'	1:AA:57:G:C8	2.52	0.45
1:AA:356:A:H2'	1:AA:357:G:H8	1.81	0.45
1:AA:542:G:P	4:AD:10:ARG:HH21	2.39	0.45
1:AA:763:G:H2'	1:AA:764:C:H6	1.82	0.45
1:AA:771:G:H2'	1:AA:772:U:H6	1.82	0.45
1:AA:1298:C:C5	7:AG:114:ARG:HD3	2.51	0.45
1:AA:1351:U:O5'	1:AA:1351:U:H6	2.00	0.45
1:AA:1452:C:OP1	1:AA:1452:C:O4'	2.34	0.45
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.16	0.45
2:AB:17:PHE:CG	2:AB:18:GLY:N	2.85	0.45
2:AB:169:LYS:HD3	2:AB:169:LYS:O	2.16	0.45
5:AE:19:MET:HE1	5:AE:24:ARG:HH21	1.81	0.45
7:AG:88:PRO:O	7:AG:88:PRO:HG2	2.16	0.45
8:AH:122:ARG:HH11	8:AH:122:ARG:HB3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:42:THR:O	12:AL:42:THR:HG23	2.16	0.45
15:AO:74:ASP:O	15:AO:76:GLU:N	2.49	0.45
15:AO:80:ALA:O	15:AO:81:LEU:C	2.59	0.45
20:AT:38:LYS:O	20:AT:39:LYS:C	2.58	0.45
22:AV:59:A:C2'	22:AV:60:U:H5'	2.47	0.45
22:AV:72:A:C6	22:AV:73:A:C6	3.03	0.45
24:AY:166:LEU:HD12	24:AY:166:LEU:N	2.31	0.45
24:AY:228:MET:HE3	24:AY:229:LEU:CD2	2.45	0.45
25:B0:26:TYR:CE2	35:BA:857:C:H1'	2.50	0.45
30:B5:2:ALA:N	35:BA:2015:A:H1'	2.30	0.45
30:B5:7:PRO:HG2	35:BA:2016:U:O2	2.15	0.45
30:B5:22:HIS:HE1	35:BA:2624:G:H1'	1.82	0.45
34:B9:6:SER:HB2	35:BA:2466:C:H5''	1.99	0.45
35:BA:440:G:N2	40:BF:46:ARG:NH2	2.64	0.45
35:BA:532:A:N1	35:BA:2020:A:H1'	2.31	0.45
35:BA:604:G:O2'	35:BA:605:C:H5'	2.15	0.45
35:BA:1146:C:O2	35:BA:1146:C:H2'	2.16	0.45
35:BA:1155:A:O3'	53:BU:55:ARG:NH1	2.50	0.45
35:BA:1315:C:H42	35:BA:1337:G:H1	1.65	0.45
35:BA:1951:U:H2'	35:BA:1953:A:OP2	2.16	0.45
35:BA:2016:U:O2'	35:BA:2017:U:H5'	2.16	0.45
37:BC:100:ILE:C	37:BC:102:GLN:N	2.74	0.45
37:BC:101:ILE:HG13	37:BC:128:LEU:CD1	2.42	0.45
37:BC:149:ASN:ND2	37:BC:149:ASN:C	2.72	0.45
39:BE:36:ARG:NH1	39:BE:36:ARG:CG	2.75	0.45
41:BG:55:LYS:HA	41:BG:58:GLN:HG3	1.98	0.45
42:BH:173:PRO:HG2	42:BH:174:GLY:H	1.80	0.45
44:BK:77:LEU:HD13	44:BK:110:GLN:OE1	2.15	0.45
46:BN:14:VAL:HG11	46:BN:137:LYS:CD	2.45	0.45
46:BN:79:PRO:C	46:BN:81:GLY:H	2.24	0.45
51:BS:28:VAL:CG1	51:BS:29:PHE:H	2.13	0.45
52:BT:118:ARG:HA	52:BT:121:ILE:CB	2.43	0.45
53:BU:13:LYS:O	53:BU:16:LYS:HB2	2.16	0.45
53:BU:49:HIS:CA	53:BU:52:ARG:HB2	2.46	0.45
57:BY:88:LYS:HE2	57:BY:93:GLY:HA3	1.99	0.45
58:BZ:26:GLY:O	58:BZ:27:VAL:CB	2.64	0.45
1:CA:141:A:H1'	1:CA:182:U:C2	2.50	0.45
1:CA:542:G:O2'	1:CA:543:C:H5'	2.16	0.45
1:CA:743:U:H2'	1:CA:744:C:C6	2.51	0.45
1:CA:940:C:O2'	1:CA:941:G:H5'	2.17	0.45
1:CA:1236:A:H2'	1:CA:1237:C:C5	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.80	0.45
1:CA:1291:G:H2'	1:CA:1292:U:C6	2.51	0.45
1:CA:1351:U:H6	1:CA:1351:U:O5'	1.98	0.45
2:CB:215:LEU:O	2:CB:218:ALA:HB3	2.16	0.45
3:CC:29:TYR:CG	14:CN:36:PHE:HE1	2.34	0.45
3:CC:53:ALA:HB2	3:CC:115:LEU:HG	1.97	0.45
4:CD:13:ARG:O	4:CD:16:GLY:N	2.39	0.45
4:CD:127:THR:HG23	4:CD:147:ALA:HB3	1.99	0.45
7:CG:72:ARG:HG3	7:CG:73:MET:HG3	1.98	0.45
9:CI:93:ARG:C	9:CI:95:LYS:N	2.74	0.45
13:CM:10:PRO:O	13:CM:11:ARG:CB	2.65	0.45
15:CO:29:VAL:HG11	15:CO:67:LEU:HD21	1.99	0.45
20:CT:26:ASN:N	20:CT:26:ASN:HD22	2.12	0.45
22:CV:47:U:H6	22:CV:47:U:OP1	2.00	0.45
24:CY:117:GLN:NE2	24:CY:120:THR:CG2	2.80	0.45
24:CY:136:ALA:HB3	24:CY:260:LEU:CB	2.26	0.45
24:CY:327:PHE:CD2	24:CY:376:ALA:HB2	2.50	0.45
24:CY:341:VAL:HG21	24:CY:389:LEU:HD23	1.98	0.45
27:D2:4:SER:C	27:D2:6:VAL:N	2.74	0.45
30:D5:11:THR:OG1	35:DA:1263:U:O3'	2.34	0.45
35:DA:272(H):C:H5'	35:DA:272(H):C:C6	2.33	0.45
35:DA:657:U:C2	35:DA:658:C:C5	3.05	0.45
35:DA:768:G:H2'	35:DA:769:G:C8	2.52	0.45
35:DA:904:C:H2'	35:DA:905:U:C6	2.51	0.45
35:DA:1080:C:H4'	44:DK:125:ARG:CB	2.41	0.45
35:DA:1326:U:HO2'	35:DA:1327:C:H5'	1.81	0.45
35:DA:1436:G:H1'	35:DA:1477:A:O2'	2.15	0.45
35:DA:1539:G:N3	35:DA:1540:U:H1'	2.30	0.45
35:DA:1628:G:O2'	35:DA:1629:U:H5'	2.17	0.45
35:DA:1638:C:H1'	35:DA:2698:U:O2'	2.16	0.45
35:DA:2393:A:O2'	35:DA:2394:C:H5'	2.16	0.45
36:DB:14:U:H5'	36:DB:71:C:O4'	2.16	0.45
37:DC:182:PRO:HB3	37:DC:184:GLU:OE2	2.16	0.45
39:DE:32:PRO:CA	39:DE:90:THR:HG23	2.46	0.45
39:DE:38:THR:CG2	39:DE:40:GLU:HB2	2.45	0.45
40:DF:32:LEU:C	40:DF:32:LEU:CD2	2.87	0.45
40:DF:81:PRO:C	40:DF:83:PHE:N	2.73	0.45
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.28	0.45
40:DF:180:GLY:O	40:DF:182:ASN:N	2.49	0.45
41:DG:33:ARG:N	41:DG:33:ARG:HD3	2.30	0.45
41:DG:125:PHE:CZ	41:DG:173:LEU:HD12	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:168:GLU:C	41:DG:170:ARG:N	2.74	0.45
42:DH:66:GLY:O	42:DH:67:LEU:C	2.58	0.45
43:DJ:9:UNK:O	43:DJ:11:UNK:N	2.48	0.45
46:DN:67:LEU:HB3	46:DN:88:GLU:HG2	1.95	0.45
48:DP:59:LEU:O	48:DP:59:LEU:HD23	2.17	0.45
49:DQ:55:VAL:CG2	58:DZ:178:GLU:HG3	2.46	0.45
50:DR:92:GLY:HA2	50:DR:94:TYR:CE1	2.51	0.45
51:DS:89:ARG:HE	51:DS:91:PRO:HG2	1.80	0.45
52:DT:7:ILE:O	52:DT:10:VAL:HB	2.17	0.45
53:DU:10:ARG:C	53:DU:12:ARG:N	2.74	0.45
53:DU:49:HIS:CA	53:DU:52:ARG:HB2	2.46	0.45
53:DU:76:TYR:CE2	53:DU:80:ILE:HG13	2.51	0.45
1:AA:221:C:H5'	1:AA:222:U:OP2	2.17	0.45
1:AA:253:U:H2'	1:AA:254:G:C8	2.51	0.45
1:AA:472:A:H2'	1:AA:473:G:O4'	2.16	0.45
1:AA:943:U:O2'	1:AA:944:G:H5'	2.17	0.45
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.46	0.45
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.16	0.45
3:AC:43:LEU:O	3:AC:45:LYS:N	2.50	0.45
3:AC:87:LEU:C	3:AC:89:GLU:N	2.69	0.45
4:AD:165:MET:HE3	4:AD:176:LEU:HD23	1.99	0.45
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.31	0.45
7:AG:52:GLU:O	7:AG:53:LYS:C	2.58	0.45
8:AH:1:MET:O	8:AH:2:LEU:C	2.59	0.45
11:AK:38:ASN:HA	11:AK:39:PRO:HD3	1.83	0.45
11:AK:93:GLN:O	11:AK:94:ALA:C	2.60	0.45
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.64	0.45
19:AS:79:THR:CG2	19:AS:80:TYR:N	2.80	0.45
22:AV:38:A:O2'	22:AV:39:C:H5'	2.16	0.45
24:AY:539:ILE:HA	24:AY:542:VAL:CG1	2.44	0.45
24:AY:662:LYS:HZ2	42:BH:175:LYS:HG3	1.76	0.45
26:B1:60:PHE:CE1	26:B1:91:LYS:HG3	2.51	0.45
28:B3:56:VAL:CG1	28:B3:57:GLU:H	2.22	0.45
29:B4:48:ARG:O	29:B4:49:PHE:HD1	1.99	0.45
30:B5:56:LYS:CG	30:B5:57:VAL:H	2.05	0.45
31:B6:43:CYS:O	31:B6:44:ARG:CB	2.63	0.45
35:BA:42:G:H2'	35:BA:42:G:N3	2.31	0.45
35:BA:325:G:H2'	35:BA:326:G:C8	2.52	0.45
35:BA:1341:U:H4'	56:BX:57:LEU:HB3	1.99	0.45
35:BA:1544:A:O2'	35:BA:1545:A:H5'	2.16	0.45
35:BA:1635:G:H2'	35:BA:1636:C:C6	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1709:U:H3	35:BA:1749:A:H61	1.65	0.45
35:BA:1780:A:H5'	35:BA:1781:C:OP2	2.16	0.45
35:BA:2037:G:C6	35:BA:2038:G:C6	3.04	0.45
35:BA:2134:A:H2'	35:BA:2134:A:N3	2.31	0.45
35:BA:2260:C:H2'	35:BA:2261:C:C6	2.49	0.45
35:BA:2373:G:H2'	35:BA:2374:C:H6	1.81	0.45
35:BA:2443:C:O2	35:BA:2443:C:C2'	2.65	0.45
35:BA:2616:C:O2	35:BA:2616:C:H2'	2.17	0.45
35:BA:2820:A:C8	39:BE:191:PRO:CB	2.99	0.45
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.51	0.45
37:BC:101:ILE:H	37:BC:101:ILE:CD1	2.29	0.45
39:BE:29:GLY:O	39:BE:30:PRO:C	2.58	0.45
40:BF:34:TRP:CB	48:BP:10:PRO:HB2	2.34	0.45
41:BG:81:LYS:O	41:BG:83:ARG:HG3	2.16	0.45
46:BN:119:ARG:HH11	46:BN:119:ARG:HG3	1.81	0.45
49:BQ:52:VAL:O	49:BQ:54:MET:N	2.50	0.45
51:BS:97:ARG:NE	51:BS:97:ARG:O	2.49	0.45
52:BT:134:GLU:O	52:BT:135:ALA:CB	2.63	0.45
53:BU:78:THR:O	53:BU:79:PHE:C	2.59	0.45
1:CA:243:A:C2	1:CA:246:A:C8	3.05	0.45
1:CA:451:A:O4'	1:CA:452:A:C8	2.69	0.45
1:CA:533:A:OP1	1:CA:533:A:H3'	2.17	0.45
1:CA:1408:A:H2'	1:CA:1409:C:H6	1.81	0.45
1:CA:1442:G:H3'	1:CA:1442:G:H8	1.81	0.45
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.99	0.45
2:CB:194:PRO:O	2:CB:195:ASP:C	2.60	0.45
4:CD:6:GLY:O	4:CD:7:PRO:C	2.59	0.45
5:CE:144:THR:C	5:CE:146:ALA:N	2.71	0.45
7:CG:116:ALA:O	7:CG:120:ILE:HG12	2.15	0.45
8:CH:19:VAL:HG21	8:CH:21:LYS:HE2	1.97	0.45
10:CJ:50:ILE:H	10:CJ:50:ILE:CD1	2.15	0.45
13:CM:63:THR:CG2	13:CM:64:TRP:N	2.77	0.45
16:CP:74:LEU:HD22	16:CP:79:VAL:HG21	1.98	0.45
19:CS:35:SER:C	19:CS:37:ARG:N	2.71	0.45
20:CT:69:GLY:O	20:CT:73:HIS:NE2	2.49	0.45
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.98	0.45
21:CU:18:TYR:CD2	21:CU:24:ARG:HA	2.51	0.45
22:CW:8:U:H3	22:CW:14:A:N6	2.15	0.45
24:CY:69:VAL:O	24:CY:69:VAL:HG13	2.17	0.45
24:CY:87:HIS:O	24:CY:88:VAL:C	2.59	0.45
24:CY:196:ILE:C	24:CY:196:ILE:HD12	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:41:ILE:O	27:D2:41:ILE:HG13	2.17	0.45
29:D4:1:MET:H1	36:DB:43:C:H4'	1.80	0.45
30:D5:51:TYR:HD2	30:D5:52:TYR:H	1.63	0.45
33:D8:50:LEU:C	33:D8:52:LYS:N	2.75	0.45
33:D8:53:PRO:HG2	33:D8:54:GLU:H	1.82	0.45
35:DA:71:A:N3	35:DA:73:A:N6	2.65	0.45
35:DA:85:G:N3	35:DA:103:A:C2	2.84	0.45
35:DA:87:C:OP2	35:DA:90:U:O4	2.34	0.45
35:DA:182:A:O2'	35:DA:183:C:H5'	2.17	0.45
35:DA:198:C:N4	35:DA:248:G:H1	2.14	0.45
35:DA:291:C:H2'	35:DA:292:C:C6	2.51	0.45
35:DA:333:G:H2'	35:DA:333:G:N3	2.31	0.45
35:DA:389:G:O4'	35:DA:2413:G:C4'	2.64	0.45
35:DA:428:A:H3'	35:DA:429:A:H8	1.80	0.45
35:DA:904:C:O2'	58:DZ:169:GLU:OE2	2.31	0.45
35:DA:1166:C:H2'	35:DA:1167:U:C6	2.52	0.45
35:DA:1209:G:H21	35:DA:1210:A:H62	1.63	0.45
35:DA:1313:U:C2	35:DA:1610:A:H2	2.35	0.45
35:DA:2081:C:H2'	35:DA:2082:A:H8	1.80	0.45
35:DA:2551:C:H2'	35:DA:2552:U:C6	2.51	0.45
37:DC:173:HIS:O	37:DC:174:ALA:HB2	2.17	0.45
38:DD:24:ILE:CD1	38:DD:25:THR:N	2.79	0.45
41:DG:44:GLY:O	41:DG:47:LYS:HD3	2.16	0.45
43:DJ:100:UNK:HA	43:DJ:103:UNK:CB	2.47	0.45
46:DN:95:PRO:HA	46:DN:98:VAL:CG2	2.47	0.45
47:DO:24:VAL:O	47:DO:24:VAL:HG23	2.14	0.45
50:DR:96:ARG:O	50:DR:114:VAL:HA	2.16	0.45
51:DS:17:ARG:C	51:DS:19:LYS:H	2.23	0.45
51:DS:73:LEU:O	51:DS:73:LEU:HD23	2.16	0.45
52:DT:82:LEU:N	52:DT:82:LEU:CD1	2.79	0.45
53:DU:66:ASN:O	53:DU:68:ALA:N	2.49	0.45
58:DZ:145:GLU:OE1	58:DZ:146:ILE:HG23	2.17	0.45
1:AA:32:A:H2'	1:AA:33:A:C8	2.52	0.45
1:AA:260:G:H2'	1:AA:261:U:C6	2.50	0.45
1:AA:308:C:H2'	1:AA:309:G:C8	2.51	0.45
1:AA:687:A:N1	1:AA:700:G:O2'	2.42	0.45
1:AA:1123:A:H61	1:AA:1149:C:N4	2.14	0.45
2:AB:9:GLU:HG2	2:AB:10:LEU:N	2.32	0.45
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.81	0.45
2:AB:229:VAL:HG12	2:AB:230:VAL:N	2.31	0.45
3:AC:3:ASN:O	3:AC:4:LYS:CB	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:191:ARG:O	4:AD:191:ARG:NH1	2.49	0.45
6:AF:29:ALA:O	6:AF:30:LEU:C	2.58	0.45
10:AJ:50:ILE:H	10:AJ:50:ILE:CD1	2.15	0.45
12:AL:7:ILE:CG2	12:AL:8:ASN:N	2.80	0.45
22:AV:9:G:O2'	22:AV:10:G:N7	2.45	0.45
22:AW:68:C:H2'	22:AW:69:C:C6	2.51	0.45
24:AY:181:LEU:CD1	24:AY:242:LEU:HD22	2.46	0.45
24:AY:203:GLU:OE2	24:AY:203:GLU:HA	2.16	0.45
24:AY:304:ASP:C	24:AY:306:ASN:H	2.24	0.45
24:AY:334:THR:HG23	24:AY:370:LYS:HA	1.99	0.45
24:AY:468:ARG:HH11	24:AY:468:ARG:CG	2.30	0.45
24:AY:562:ASP:O	24:AY:563:ILE:HG23	2.15	0.45
26:B1:4:VAL:HA	26:B1:10:LYS:O	2.17	0.45
26:B1:44:PRO:HB2	26:B1:46:LEU:HD12	1.98	0.45
27:B2:69:ARG:O	27:B2:70:GLN:HB2	2.16	0.45
30:B5:44:THR:CG2	50:BR:101:ALA:N	2.80	0.45
35:BA:176:G:C2'	35:BA:177:G:H5'	2.47	0.45
35:BA:718:A:H3'	35:BA:719:C:H6	1.81	0.45
35:BA:1053:C:H2'	35:BA:1054:A:C5'	2.42	0.45
35:BA:1186:G:H2'	35:BA:1187:G:H5'	1.99	0.45
35:BA:1331:A:C2'	35:BA:1332:G:H5''	2.46	0.45
35:BA:1590:U:H2'	35:BA:1591:G:H8	1.82	0.45
35:BA:1782:C:C2'	35:BA:1783:A:H5'	2.47	0.45
35:BA:2628:C:O2'	35:BA:2781:A:H2'	2.17	0.45
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.32	0.45
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.99	0.45
37:BC:79:ALA:HB1	37:BC:83:LYS:HB2	1.97	0.45
39:BE:32:PRO:HA	39:BE:90:THR:HG23	1.97	0.45
40:BF:10:PRO:HD2	40:BF:13:SER:O	2.16	0.45
40:BF:26:ALA:O	40:BF:27:GLU:HG3	2.17	0.45
40:BF:68:LYS:HG3	40:BF:69:HIS:HD2	1.81	0.45
41:BG:91:ARG:CD	41:BG:92:VAL:N	2.72	0.45
43:BJ:73:UNK:O	43:BJ:74:UNK:C	2.63	0.45
44:BK:23:VAL:HG12	44:BK:23:VAL:O	2.16	0.45
48:BP:46:LYS:HG2	48:BP:52:GLU:HG2	1.99	0.45
50:BR:97:VAL:O	50:BR:98:LEU:HD23	2.16	0.45
51:BS:70:GLY:CA	51:BS:101:LEU:HD23	2.46	0.45
54:BV:19:LYS:HG3	54:BV:20:LEU:N	2.30	0.45
57:BY:28:LYS:HD2	57:BY:37:VAL:HG11	1.99	0.45
57:BY:49:VAL:HG12	57:BY:50:ARG:N	2.32	0.45
57:BY:105:ALA:C	57:BY:107:ASP:N	2.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:14:LYS:O	58:BZ:16:SER:N	2.50	0.45
58:BZ:162:GLU:O	58:BZ:163:LEU:O	2.35	0.45
1:CA:841:U:H3'	1:CA:848:C:C5'	2.47	0.45
1:CA:923:A:O2'	1:CA:924:C:H5'	2.17	0.45
1:CA:1226:C:C5	13:CM:104:ARG:HB2	2.52	0.45
2:CB:17:PHE:CG	2:CB:18:GLY:N	2.83	0.45
2:CB:220:ASP:O	2:CB:222:ILE:N	2.50	0.45
3:CC:32:LEU:HB3	3:CC:59:ARG:HH22	1.81	0.45
3:CC:35:GLU:OE1	3:CC:97:LYS:HE3	2.17	0.45
3:CC:142:MET:HE2	3:CC:171:GLY:HA3	1.98	0.45
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.45	0.45
5:CE:11:ILE:HD13	5:CE:105:VAL:HG13	1.98	0.45
7:CG:134:ALA:O	7:CG:137:LYS:N	2.45	0.45
8:CH:30:ARG:HH11	8:CH:30:ARG:CB	2.30	0.45
8:CH:36:LEU:O	8:CH:37:ARG:C	2.58	0.45
9:CI:97:LYS:O	9:CI:98:PRO:C	2.58	0.45
11:CK:125:PHE:N	11:CK:125:PHE:HD1	2.15	0.45
17:CQ:22:LEU:HD13	17:CQ:41:LYS:HG2	1.98	0.45
20:CT:38:LYS:O	20:CT:39:LYS:C	2.59	0.45
22:CV:5:G:N2	22:CV:69:C:C2	2.84	0.45
24:CY:15:ILE:HB	24:CY:104:ALA:HA	1.97	0.45
24:CY:112:GLN:HG3	24:CY:115:GLU:CA	2.46	0.45
24:CY:439:ARG:N	24:CY:452:SER:HB3	2.32	0.45
24:CY:510:VAL:HG22	24:CY:534:ILE:CD1	2.46	0.45
25:D0:14:ARG:NH1	35:DA:2279:G:O6	2.49	0.45
29:D4:1:MET:HG2	41:DG:98:ARG:NH2	2.32	0.45
30:D5:34:PRO:HG3	35:DA:2885:C:O2'	2.16	0.45
35:DA:84:A:N3	35:DA:85:G:H1'	2.32	0.45
35:DA:154(A):C:H42	35:DA:172:C:N4	2.14	0.45
35:DA:307:G:H21	35:DA:330:A:N6	2.14	0.45
35:DA:425:G:H2'	35:DA:426:C:H6	1.80	0.45
35:DA:910:A:C6	49:DQ:13:GLN:HG3	2.51	0.45
35:DA:1127:A:C2'	35:DA:1128:A:H5''	2.44	0.45
35:DA:1434:A:H5'	35:DA:1435:G:OP2	2.17	0.45
35:DA:1445(A):C:H2'	35:DA:1445(A):C:O2	2.15	0.45
35:DA:1511:C:H2'	35:DA:1512:U:O4'	2.16	0.45
35:DA:1529:G:C2	35:DA:1541:G:N2	2.84	0.45
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.17	0.45
35:DA:2287:A:N6	35:DA:2344:U:C2	2.84	0.45
36:DB:56:G:H4'	41:DG:27:ASN:HD21	1.81	0.45
36:DB:89:G:N1	36:DB:90:A:C2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:165:VAL:HB	39:DE:189:PRO:HB3	1.99	0.45
40:DF:2:LYS:CD	40:DF:25:PRO:HG2	2.46	0.45
40:DF:61:GLY:O	40:DF:62:ARG:C	2.59	0.45
46:DN:61:ARG:HG3	46:DN:61:ARG:HH11	1.82	0.45
48:DP:5:ASP:OD2	48:DP:9:ASN:ND2	2.50	0.45
48:DP:71:VAL:HG12	48:DP:72:PRO:HD3	1.99	0.45
48:DP:88:LEU:HD11	48:DP:95:VAL:HG11	1.99	0.45
49:DQ:12:GLN:NE2	49:DQ:72:LYS:HA	2.32	0.45
49:DQ:52:VAL:C	49:DQ:54:MET:N	2.74	0.45
52:DT:50:ILE:HG23	52:DT:99:LEU:O	2.16	0.45
52:DT:96:ARG:HB3	52:DT:96:ARG:CZ	2.47	0.45
52:DT:113:LYS:C	52:DT:114:LEU:HD23	2.42	0.45
53:DU:53:ARG:O	53:DU:54:LYS:C	2.59	0.45
54:DV:4:ILE:HA	54:DV:12:TYR:O	2.17	0.45
54:DV:32:THR:HG22	54:DV:33:VAL:N	2.32	0.45
55:DW:70:TYR:HB3	55:DW:110:LYS:HZ3	1.81	0.45
57:DY:105:ALA:O	57:DY:106:LEU:HB2	2.17	0.45
58:DZ:168:GLU:HG3	58:DZ:169:GLU:N	2.31	0.45
1:AA:129(A):G:C6	1:AA:189(E):U:H4'	2.52	0.45
1:AA:452:A:H4'	16:AP:72:ARG:CZ	2.47	0.45
1:AA:665:A:H2'	1:AA:725:G:N2	2.31	0.45
1:AA:836:G:C6	1:AA:851:G:C6	3.04	0.45
1:AA:1009:G:C2	1:AA:1010:G:C8	3.04	0.45
1:AA:1329:A:H4'	13:AM:24:GLY:O	2.16	0.45
1:AA:1352:C:OP1	21:AU:3:LYS:CE	2.65	0.45
1:AA:1363(A):A:C4'	1:AA:1364:U:H5''	2.42	0.45
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.16	0.45
3:AC:136:GLN:O	3:AC:138:VAL:N	2.50	0.45
4:AD:6:GLY:O	4:AD:7:PRO:C	2.60	0.45
5:AE:43:LEU:CB	5:AE:136:MET:HE2	2.46	0.45
5:AE:50:GLU:HB3	5:AE:53:LEU:HG	1.97	0.45
12:AL:38:THR:HG23	12:AL:57:LYS:CB	2.46	0.45
13:AM:106:ASN:HB3	13:AM:107:ALA:H	1.53	0.45
15:AO:9:GLN:C	15:AO:11:VAL:N	2.75	0.45
21:AU:18:TYR:CD2	21:AU:24:ARG:HA	2.52	0.45
22:AV:50:U:O2'	22:AV:51:C:H5'	2.16	0.45
22:AW:42:C:C2	22:AW:43:G:C8	3.05	0.45
24:AY:216:LEU:C	24:AY:216:LEU:CD2	2.89	0.45
24:AY:259:PHE:CE2	24:AY:275:ALA:HB2	2.51	0.45
24:AY:334:THR:HG23	24:AY:369:LEU:O	2.16	0.45
28:B3:12:PRO:O	28:B3:13:ILE:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:214:G:H2'	35:BA:215:G:O4'	2.16	0.45
35:BA:271(K):U:H3'	35:BA:271(L):U:C5'	2.47	0.45
35:BA:602:G:N1	35:BA:654(U):A:N7	2.65	0.45
35:BA:603:A:O2'	35:BA:604:G:P	2.75	0.45
35:BA:688:U:H5'	35:BA:1780:A:H2	1.82	0.45
35:BA:1196:C:O4'	35:BA:1226:A:C2	2.70	0.45
35:BA:1434:A:H5'	35:BA:1435:G:OP2	2.16	0.45
35:BA:1572:A:O2'	35:BA:1573:G:H5'	2.17	0.45
35:BA:1596:A:C2'	35:BA:1597:A:H5'	2.46	0.45
35:BA:2011:U:C2'	35:BA:2012:G:H5'	2.46	0.45
35:BA:2131:G:C8	35:BA:2133:G:N2	2.85	0.45
35:BA:2521:C:O2	35:BA:2521:C:H2'	2.15	0.45
35:BA:2840:C:H5''	50:BR:53:HIS:CD2	2.52	0.45
36:BB:40:U:H5''	36:BB:41:U:OP2	2.16	0.45
37:BC:149:ASN:HD22	37:BC:149:ASN:C	2.24	0.45
37:BC:191:ARG:HG3	37:BC:191:ARG:NH1	2.31	0.45
38:BD:126:GLN:O	38:BD:127:VAL:C	2.59	0.45
38:BD:197:GLY:O	38:BD:198:ASN:HB3	2.17	0.45
39:BE:2:LYS:CD	39:BE:95:ILE:HG22	2.47	0.45
39:BE:27:LEU:HD12	39:BE:181:LEU:HD13	1.99	0.45
39:BE:67:PHE:O	39:BE:70:ALA:HB2	2.17	0.45
39:BE:68:ALA:O	39:BE:70:ALA:N	2.49	0.45
40:BF:2:LYS:CD	40:BF:25:PRO:HG2	2.47	0.45
40:BF:112:MET:HA	40:BF:115:ALA:HB3	1.99	0.45
41:BG:7:LEU:O	41:BG:8:LYS:C	2.58	0.45
41:BG:133:LEU:HD12	41:BG:133:LEU:O	2.16	0.45
42:BH:94:TYR:HA	42:BH:106:THR:O	2.17	0.45
44:BK:17:ALA:HB3	44:BK:38:VAL:CG1	2.47	0.45
46:BN:96:GLU:O	46:BN:100:GLU:HG3	2.17	0.45
48:BP:25:SER:O	48:BP:30:THR:CG2	2.65	0.45
48:BP:126:VAL:HG12	48:BP:148:LEU:HD21	1.99	0.45
50:BR:12:ARG:CG	50:BR:12:ARG:NH1	2.78	0.45
52:BT:8:LYS:C	52:BT:10:VAL:H	2.23	0.45
54:BV:35:LEU:HB3	54:BV:37:VAL:CG2	2.47	0.45
57:BY:9:LYS:O	57:BY:28:LYS:HE2	2.17	0.45
57:BY:76:CYS:O	57:BY:77:PRO:C	2.60	0.45
58:BZ:27:VAL:O	58:BZ:27:VAL:HG13	2.17	0.45
58:BZ:80:ARG:O	58:BZ:81:ARG:C	2.59	0.45
1:CA:50:A:N6	1:CA:361:G:C4'	2.76	0.45
1:CA:56:U:H2'	1:CA:57:G:C8	2.52	0.45
1:CA:57:G:H2'	1:CA:58:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:403:C:H2'	1:CA:404:U:H6	1.81	0.45
1:CA:695:A:H2'	1:CA:696:A:C8	2.51	0.45
1:CA:1231:G:C2'	1:CA:1232:U:H5'	2.46	0.45
1:CA:1352:C:OP1	21:CU:3:LYS:HE2	2.16	0.45
1:CA:1416:G:O2'	1:CA:1417:G:H5'	2.17	0.45
2:CB:126:GLU:O	2:CB:129:GLU:OE2	2.34	0.45
2:CB:178:ARG:HH11	2:CB:178:ARG:CG	2.30	0.45
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.30	0.45
3:CC:134:ILE:O	3:CC:135:LYS:C	2.59	0.45
5:CE:51:VAL:O	5:CE:52:PRO:C	2.58	0.45
7:CG:138:LYS:HE3	7:CG:142:GLU:OE1	2.17	0.45
9:CI:60:ASP:O	9:CI:61:ALA:C	2.60	0.45
9:CI:79:LEU:HD13	9:CI:83:ARG:CB	2.41	0.45
10:CJ:22:LYS:C	10:CJ:24:VAL:H	2.25	0.45
11:CK:109:VAL:HG13	18:CR:85:LEU:O	2.15	0.45
12:CL:7:ILE:HA	12:CL:10:LEU:HD12	1.98	0.45
12:CL:33:ARG:HG3	12:CL:60:LEU:HD12	1.97	0.45
12:CL:38:THR:CG2	12:CL:57:LYS:HB3	2.46	0.45
13:CM:66:LEU:HA	13:CM:70:LEU:CD1	2.47	0.45
17:CQ:53:LEU:C	17:CQ:53:LEU:HD23	2.42	0.45
18:CR:37:VAL:O	18:CR:41:LYS:N	2.38	0.45
19:CS:4:SER:O	19:CS:5:LEU:C	2.60	0.45
21:CU:6:ARG:NH2	21:CU:15:ARG:HH22	2.14	0.45
24:CY:265:LYS:C	24:CY:267:LYS:H	2.25	0.45
24:CY:448:GLN:NE2	24:CY:480:GLN:HE21	2.14	0.45
24:CY:592:GLU:HA	24:CY:595:GLN:CB	2.43	0.45
24:CY:622:GLY:O	35:DA:2473:U:O2	2.35	0.45
61:CY:702:FUA:O2	61:CY:702:FUA:H211	2.16	0.45
26:D1:53:VAL:HG22	26:D1:74:VAL:HG13	1.99	0.45
26:D1:60:PHE:CE1	26:D1:91:LYS:HG3	2.52	0.45
27:D2:32:LEU:CA	27:D2:53:LEU:HD13	2.38	0.45
29:D4:9:LEU:HD23	41:DG:65:GLY:HA3	1.98	0.45
31:D6:11:LEU:HD13	31:D6:11:LEU:O	2.17	0.45
33:D8:48:PHE:O	33:D8:49:VAL:CG2	2.62	0.45
34:D9:29:ASN:O	34:D9:31:LYS:N	2.49	0.45
35:DA:324:A:N6	35:DA:338:G:O2'	2.50	0.45
35:DA:528:A:N1	35:DA:2042:A:H2'	2.32	0.45
35:DA:541:C:H42	35:DA:552:G:H1	1.65	0.45
35:DA:1015:G:H2'	35:DA:1016:G:C8	2.51	0.45
35:DA:1342:A:O2'	35:DA:1344:G:OP2	2.30	0.45
35:DA:1386:C:H5''	35:DA:1396:U:H5	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1463:C:H2'	35:DA:1464:C:H6	1.82	0.45
35:DA:2163:C:H2'	35:DA:2164:C:H5'	1.98	0.45
35:DA:2576:G:H3'	35:DA:2576:G:N3	2.32	0.45
37:DC:86:GLU:O	37:DC:90:ALA:HB2	2.16	0.45
37:DC:139:PRO:HA	37:DC:145:THR:CB	2.47	0.45
38:DD:28:GLU:OE1	38:DD:29:PRO:HD2	2.17	0.45
38:DD:124:PRO:O	38:DD:129:ASN:ND2	2.49	0.45
40:DF:167:ALA:HA	40:DF:170:LEU:HD23	1.98	0.45
41:DG:52:ILE:HG22	41:DG:53:LEU:N	2.32	0.45
41:DG:67:LYS:HA	41:DG:68:PRO:HD3	1.73	0.45
41:DG:97:ASP:H	41:DG:100:TRP:HD1	1.65	0.45
41:DG:112:PRO:O	41:DG:113:ARG:HG2	2.17	0.45
46:DN:55:VAL:HG22	46:DN:56:ASN:N	2.32	0.45
51:DS:56:LEU:O	51:DS:58:LEU:N	2.50	0.45
57:DY:52:SER:O	57:DY:53:PRO:C	2.60	0.45
1:AA:36:C:H4'	12:AL:122:THR:O	2.16	0.45
1:AA:622:A:C8	1:AA:623:C:C6	3.04	0.45
1:AA:830:G:H2'	1:AA:831:U:H6	1.82	0.45
1:AA:1103:C:H5''	2:AB:98:LEU:HD13	1.99	0.45
1:AA:1226:C:H5''	13:AM:103:THR:HB	1.97	0.45
1:AA:1321:C:H3'	1:AA:1322:C:C5'	2.33	0.45
1:AA:1506:U:O2'	1:AA:1507:A:H5'	2.17	0.45
2:AB:73:THR:HG23	2:AB:170:GLU:OE2	2.16	0.45
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.99	0.45
4:AD:18:LYS:O	4:AD:19:LEU:HD12	2.15	0.45
4:AD:25:ARG:C	4:AD:27:TYR:N	2.75	0.45
4:AD:163:GLU:OE2	4:AD:163:GLU:HA	2.17	0.45
9:AI:95:LYS:HZ2	9:AI:96:LEU:CD1	2.30	0.45
10:AJ:58:ASP:O	10:AJ:59:SER:O	2.35	0.45
13:AM:119:GLY:C	13:AM:121:LYS:H	2.24	0.45
15:AO:23:GLY:O	15:AO:24:SER:O	2.35	0.45
19:AS:7:LYS:HD3	19:AS:7:LYS:HA	1.75	0.45
19:AS:11:VAL:O	19:AS:11:VAL:HG13	2.17	0.45
20:AT:63:ILE:C	20:AT:65:LYS:N	2.74	0.45
20:AT:84:LEU:C	20:AT:86:ARG:N	2.72	0.45
22:AV:74:C:H2'	22:AV:75:C:H5'	1.99	0.45
24:AY:446:THR:O	24:AY:446:THR:HG23	2.16	0.45
24:AY:513:LYS:HB3	24:AY:566:THR:HB	1.95	0.45
25:B0:11:ARG:HH11	25:B0:11:ARG:CB	2.07	0.45
26:B1:86:SER:CA	26:B1:89:GLU:HB2	2.47	0.45
27:B2:63:VAL:HG12	27:B2:67:LYS:CG	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:3:LYS:HD2	30:B5:5:PRO:CD	2.42	0.45
35:BA:7:G:H1	35:BA:2896:C:N4	2.15	0.45
35:BA:238:C:H2'	35:BA:239:U:O4'	2.16	0.45
35:BA:246:C:C2'	35:BA:247:G:H5'	2.46	0.45
35:BA:271(Z):C:H1'	35:BA:272(C):G:H1'	1.98	0.45
35:BA:311:A:H5'	35:BA:332:A:N3	2.32	0.45
35:BA:1050:A:C4	35:BA:1051:G:H1'	2.52	0.45
35:BA:1487:G:H3'	35:BA:1488:G:H8	1.82	0.45
35:BA:1718:G:H8	35:BA:1718:G:C5'	2.28	0.45
35:BA:1774:C:O5'	35:BA:1774:C:H6	1.99	0.45
35:BA:2103:C:H3'	35:BA:2104:G:H5''	1.99	0.45
35:BA:2298:A:N6	35:BA:2318:G:C8	2.81	0.45
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.47	0.45
35:BA:2642:G:O2'	35:BA:2643:G:H5'	2.16	0.45
38:BD:24:ILE:CD1	38:BD:25:THR:N	2.78	0.45
38:BD:270:ILE:HD12	38:BD:270:ILE:H	1.80	0.45
39:BE:64:LYS:C	39:BE:66:HIS:N	2.72	0.45
39:BE:69:LYS:HD3	39:BE:89:ASP:HA	1.98	0.45
39:BE:131:ALA:HB3	39:BE:134:ILE:CD1	2.17	0.45
40:BF:118:ALA:O	40:BF:121:GLY:N	2.49	0.45
40:BF:132:VAL:CG2	40:BF:133:ASN:N	2.79	0.45
41:BG:138:GLN:HG3	41:BG:144:ILE:CD1	2.46	0.45
41:BG:153:ARG:HH11	41:BG:153:ARG:CB	2.29	0.45
42:BH:66:GLY:O	42:BH:67:LEU:C	2.58	0.45
42:BH:86:GLU:N	42:BH:86:GLU:OE2	2.49	0.45
42:BH:94:TYR:N	42:BH:94:TYR:CD1	2.84	0.45
43:BJ:26:UNK:HA	43:BJ:85:UNK:N	2.31	0.45
44:BK:18:THR:C	44:BK:20:ALA:N	2.75	0.45
49:BQ:12:GLN:NE2	49:BQ:72:LYS:HA	2.32	0.45
50:BR:34:ILE:O	50:BR:113:LEU:HD12	2.17	0.45
54:BV:1:MET:HB3	54:BV:2:PHE:H	1.54	0.45
54:BV:39:LEU:HD12	54:BV:47:VAL:HG11	1.99	0.45
55:BW:20:VAL:HG23	55:BW:21:VAL:H	1.82	0.45
58:BZ:74:VAL:HG22	58:BZ:86:VAL:HG13	1.97	0.45
58:BZ:95:PRO:HA	58:BZ:129:SER:HA	1.99	0.45
1:CA:697:U:H2'	1:CA:698:G:C5'	2.38	0.45
1:CA:830:G:H2'	1:CA:831:U:H6	1.81	0.45
1:CA:1217:C:O2	1:CA:1217:C:H2'	2.16	0.45
2:CB:24:TRP:CH2	2:CB:26:PRO:HA	2.52	0.45
2:CB:155:LEU:C	2:CB:155:LEU:CD1	2.90	0.45
2:CB:236:TYR:O	2:CB:237:ALA:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:136:GLN:HG3	3:CC:139:GLN:CB	2.46	0.45
5:CE:60:TYR:HE1	5:CE:64:ARG:NH2	2.13	0.45
5:CE:128:PRO:O	5:CE:129:ILE:C	2.60	0.45
5:CE:150:ARG:HG2	5:CE:150:ARG:O	2.16	0.45
7:CG:146:GLU:O	7:CG:147:ALA:C	2.60	0.45
9:CI:40:LEU:O	9:CI:42:ARG:N	2.43	0.45
13:CM:4:ILE:CG2	13:CM:5:ALA:N	2.79	0.45
13:CM:37:THR:HG21	13:CM:56:LEU:CD2	2.46	0.45
19:CS:25:LYS:O	19:CS:26:GLY:C	2.59	0.45
24:CY:438:PHE:HD2	24:CY:438:PHE:O	2.00	0.45
26:D1:20:ARG:HH12	35:DA:387:U:P	2.39	0.45
28:D3:31:LEU:O	28:D3:32:GLN:CB	2.65	0.45
30:D5:16:ARG:NH2	35:DA:517:C:OP1	2.49	0.45
31:D6:27:LYS:NZ	35:DA:2285:C:OP1	2.47	0.45
35:DA:402:A:H2'	35:DA:403:U:H5'	1.98	0.45
35:DA:409:C:O2'	35:DA:410:G:H5'	2.17	0.45
35:DA:531:C:C5	35:DA:2035:G:C2	3.04	0.45
35:DA:558:G:P	46:DN:111:PRO:HD2	2.56	0.45
35:DA:814:C:N3	35:DA:1193:G:O6	2.50	0.45
35:DA:1294:U:H6	35:DA:1294:U:H5''	1.81	0.45
35:DA:1551:C:H2'	35:DA:1552:G:O4'	2.16	0.45
35:DA:1680:U:H2'	35:DA:1681:G:O4'	2.17	0.45
35:DA:2305:A:H2'	35:DA:2306:C:O4'	2.16	0.45
35:DA:2514:U:C2	35:DA:2515:C:C5	3.05	0.45
39:DE:67:PHE:O	39:DE:70:ALA:HB2	2.17	0.45
39:DE:78:LEU:O	39:DE:78:LEU:HD12	2.16	0.45
39:DE:101:ARG:CZ	39:DE:171:GLU:HB2	2.47	0.45
39:DE:132:HIS:HA	39:DE:135:HIS:CE1	2.51	0.45
39:DE:177:PRO:HG2	39:DE:178:GLU:H	1.80	0.45
41:DG:98:ARG:HH11	41:DG:98:ARG:N	2.14	0.45
41:DG:102:PHE:C	41:DG:104:GLU:H	2.24	0.45
41:DG:114:ILE:HB	41:DG:117:PHE:HB2	1.98	0.45
42:DH:83:TYR:HA	42:DH:135:GLY:O	2.16	0.45
43:DJ:130:UNK:C	43:DJ:132:UNK:N	2.80	0.45
44:DK:21:PRO:HA	44:DK:23:VAL:H	1.81	0.45
44:DK:61:ALA:C	44:DK:63:ARG:N	2.75	0.45
44:DK:106:GLU:HG3	44:DK:107:ILE:N	2.30	0.45
49:DQ:21:THR:O	49:DQ:22:LYS:CB	2.61	0.45
52:DT:49:VAL:HG22	52:DT:49:VAL:O	2.17	0.45
52:DT:50:ILE:N	52:DT:50:ILE:CD1	2.78	0.45
52:DT:57:PHE:C	52:DT:58:ASN:ND2	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:83:ILE:CG1	52:DT:84:GLN:H	2.30	0.45
54:DV:19:LYS:HG3	54:DV:20:LEU:O	2.17	0.45
55:DW:13:SER:HB3	55:DW:16:LYS:HD2	1.98	0.45
1:AA:57:G:H2'	1:AA:58:C:C6	2.52	0.45
1:AA:114:U:H2'	1:AA:115:G:C8	2.52	0.45
1:AA:193:C:C2	1:AA:194:C:C5	3.05	0.45
1:AA:355:C:C4	1:AA:356:A:N7	2.85	0.45
1:AA:519:C:H2'	1:AA:520:A:O4'	2.16	0.45
1:AA:646:U:H2'	1:AA:647:C:C6	2.52	0.45
1:AA:1413:A:H2'	1:AA:1414:U:O4'	2.17	0.45
1:AA:1522:U:O5'	1:AA:1522:U:H6	2.00	0.45
2:AB:194:PRO:O	2:AB:195:ASP:C	2.59	0.45
4:AD:25:ARG:O	4:AD:28:SER:N	2.50	0.45
4:AD:58:LEU:HD22	4:AD:59:ARG:NH1	2.32	0.45
5:AE:12:LEU:HD12	5:AE:12:LEU:H	1.82	0.45
5:AE:101:ILE:HD11	5:AE:119:LEU:CA	2.28	0.45
5:AE:101:ILE:CD1	5:AE:118:ILE:O	2.62	0.45
7:AG:61:VAL:O	7:AG:62:PHE:C	2.59	0.45
7:AG:80:VAL:CG2	7:AG:81:GLY:H	2.27	0.45
8:AH:99:GLU:O	8:AH:100:ILE:C	2.58	0.45
10:AJ:24:VAL:C	10:AJ:26:ALA:N	2.73	0.45
15:AO:43:LEU:CD1	15:AO:56:LEU:HD22	2.46	0.45
16:AP:52:ASP:C	16:AP:52:ASP:OD2	2.58	0.45
17:AQ:53:LEU:HD23	17:AQ:53:LEU:C	2.42	0.45
20:AT:42:GLN:NE2	20:AT:42:GLN:CA	2.80	0.45
24:AY:121:VAL:HA	24:AY:124:GLN:NE2	2.31	0.45
24:AY:130:VAL:HA	24:AY:131:PRO:HD3	1.75	0.45
24:AY:237:PRO:HB2	24:AY:242:LEU:HG	1.97	0.45
24:AY:385:THR:OG1	24:AY:386:GLY:N	2.47	0.45
24:AY:455:GLY:O	24:AY:456:GLU:C	2.59	0.45
24:AY:519:ARG:HH12	24:AY:678:GLU:HB3	1.82	0.45
24:AY:616:TYR:O	24:AY:617:MET:C	2.60	0.45
27:B2:3:LEU:O	27:B2:7:ARG:NH1	2.49	0.45
27:B2:22:GLU:C	27:B2:24:LEU:N	2.74	0.45
30:B5:3:LYS:HG2	35:BA:747:U:C4	2.52	0.45
35:BA:291:C:H2'	35:BA:292:C:C6	2.51	0.45
35:BA:402:A:H2'	35:BA:403:U:H5'	1.97	0.45
35:BA:2020:A:C6	35:BA:2022:U:N3	2.84	0.45
35:BA:2147:G:H2'	35:BA:2148:G:C5'	2.47	0.45
36:BB:74:U:O2	58:BZ:34:ASN:ND2	2.50	0.45
37:BC:74:ARG:N	37:BC:112:ASP:HB2	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:39:LYS:HB2	38:BD:62:TYR:HB2	1.98	0.45
38:BD:67:PHE:CE1	38:BD:157:ARG:NH2	2.85	0.45
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.43	0.45
39:BE:168:MET:HE1	39:BE:202:LYS:HE2	1.97	0.45
41:BG:14:GLU:C	41:BG:17:PRO:HD2	2.41	0.45
41:BG:40:ASN:HD22	41:BG:91:ARG:HB2	1.81	0.45
41:BG:133:LEU:C	41:BG:133:LEU:CD1	2.89	0.45
42:BH:70:THR:C	42:BH:72:ILE:N	2.72	0.45
42:BH:149:ARG:HA	42:BH:162:ILE:CG1	2.47	0.45
44:BK:33:ASN:C	44:BK:35:MET:H	2.24	0.45
47:BO:14:THR:O	47:BO:14:THR:HG22	2.17	0.45
47:BO:64:ARG:NH1	47:BO:83:ALA:CB	2.80	0.45
48:BP:83:VAL:CG1	48:BP:114:ILE:HA	2.46	0.45
48:BP:95:VAL:HA	48:BP:99:LEU:CD2	2.41	0.45
48:BP:115:LEU:N	48:BP:115:LEU:CD2	2.80	0.45
48:BP:121:LYS:O	48:BP:123:LEU:HD23	2.16	0.45
49:BQ:109:VAL:CG1	49:BQ:113:GLN:HB2	2.47	0.45
50:BR:65:LEU:O	50:BR:65:LEU:HD12	2.16	0.45
52:BT:14:TYR:N	52:BT:14:TYR:CD1	2.85	0.45
54:BV:19:LYS:HG3	54:BV:20:LEU:O	2.17	0.45
55:BW:1:MET:HB3	55:BW:64:MET:HE3	1.98	0.45
57:BY:7:VAL:HG21	57:BY:8:LYS:NZ	2.32	0.45
57:BY:14:LEU:HD13	57:BY:24:VAL:CG2	2.46	0.45
57:BY:81:LYS:HD2	57:BY:96:ILE:CG2	2.46	0.45
58:BZ:3:TYR:CD2	58:BZ:47:VAL:HG13	2.52	0.45
58:BZ:69:THR:HA	58:BZ:89:PHE:O	2.16	0.45
58:BZ:162:GLU:O	58:BZ:163:LEU:C	2.60	0.45
1:CA:32:A:H2'	1:CA:33:A:C8	2.52	0.45
1:CA:256:U:O2'	1:CA:257:G:H5'	2.17	0.45
1:CA:1371:G:OP2	9:CI:11:LYS:HD2	2.17	0.45
2:CB:52:GLU:O	2:CB:56:ARG:HG2	2.16	0.45
2:CB:55:PHE:HD1	2:CB:221:LEU:HG	1.82	0.45
2:CB:111:ARG:HG2	2:CB:111:ARG:NH1	2.32	0.45
3:CC:32:LEU:HD22	3:CC:59:ARG:HH12	1.82	0.45
4:CD:101:LEU:HD23	4:CD:121:VAL:CG1	2.47	0.45
4:CD:159:ARG:O	4:CD:160:GLN:C	2.60	0.45
7:CG:22:LEU:O	7:CG:22:LEU:HD23	2.15	0.45
12:CL:17:LYS:HD3	12:CL:18:VAL:H	1.81	0.45
12:CL:38:THR:HG23	12:CL:57:LYS:HB3	1.99	0.45
13:CM:49:THR:C	13:CM:51:ALA:H	2.25	0.45
15:CO:3:ILE:O	15:CO:3:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:52:LYS:HD3	17:CQ:55:ASP:OD2	2.16	0.45
19:CS:10:PHE:CE2	19:CS:37:ARG:O	2.69	0.45
22:CW:37:U:H2'	22:CW:38:A:H8	1.81	0.45
22:CW:52:C:H2'	22:CW:53:G:C5'	2.46	0.45
24:CY:142:THR:C	24:CY:144:ALA:N	2.74	0.45
24:CY:164:MET:SD	24:CY:216:LEU:CD1	3.05	0.45
24:CY:424:LEU:HD12	24:CY:427:ALA:CB	2.46	0.45
24:CY:498:ILE:HG22	24:CY:507:TYR:CE2	2.52	0.45
24:CY:530:VAL:HG22	24:CY:531:GLY:N	2.24	0.45
26:D1:62:VAL:HG22	26:D1:63:ALA:N	2.32	0.45
29:D4:26:SER:HB3	41:DG:105:LYS:NZ	2.32	0.45
32:D7:35:ARG:O	32:D7:38:GLY:N	2.48	0.45
35:DA:26:G:H1'	35:DA:515:A:N6	2.32	0.45
35:DA:222:A:H5''	35:DA:421:U:OP1	2.17	0.45
35:DA:271(H):G:H1	35:DA:271(P):C:N4	2.15	0.45
35:DA:440:G:N2	40:DF:46:ARG:NH2	2.65	0.45
35:DA:560:C:H2'	35:DA:561:G:O4'	2.17	0.45
35:DA:568:U:H2'	35:DA:570:G:OP2	2.16	0.45
35:DA:677:A:H4'	35:DA:2070:G:O2'	2.16	0.45
35:DA:686:G:N2	35:DA:788:A:H61	2.15	0.45
35:DA:950:G:H2'	35:DA:951:C:C6	2.52	0.45
35:DA:963:U:H2'	35:DA:964:C:C6	2.52	0.45
35:DA:1341:U:H4'	56:DX:57:LEU:HB3	1.99	0.45
35:DA:2419:U:O2'	35:DA:2420:C:H5'	2.16	0.45
35:DA:2441:C:O2'	35:DA:2442:C:H5'	2.17	0.45
35:DA:2604:U:H2'	35:DA:2605:U:H6	1.81	0.45
35:DA:2754:U:C2'	35:DA:2755:C:H5'	2.47	0.45
35:DA:2762:G:C8	35:DA:2762:G:C5'	3.00	0.45
35:DA:2836:U:C4	35:DA:2883:A:N6	2.85	0.45
35:DA:2845:G:H8	35:DA:2845:G:O5'	2.00	0.45
36:DB:76:G:H21	58:DZ:75:ASN:ND2	2.14	0.45
36:DB:82:G:C2	36:DB:83:G:C8	3.05	0.45
38:DD:34:VAL:CG2	38:DD:35:LYS:N	2.70	0.45
40:DF:127:GLU:OE2	40:DF:127:GLU:O	2.35	0.45
43:DJ:94:UNK:O	43:DJ:95:UNK:C	2.64	0.45
44:DK:8:VAL:HG12	44:DK:10:LEU:HG	1.98	0.45
46:DN:125:GLY:CA	46:DN:126:PRO:O	2.64	0.45
49:DQ:59:ARG:O	49:DQ:60:ARG:HB2	2.17	0.45
50:DR:3:HIS:O	50:DR:4:LEU:HB3	2.16	0.45
50:DR:18:LEU:HD21	50:DR:22:ARG:CZ	2.46	0.45
52:DT:29:ARG:HG3	52:DT:30:VAL:HG13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:45:PHE:HE2	52:DT:74:ARG:HB2	1.79	0.45
52:DT:55:ASN:O	52:DT:55:ASN:ND2	2.49	0.45
54:DV:35:LEU:HB3	54:DV:37:VAL:CG2	2.46	0.45
57:DY:95:LYS:CE	57:DY:101:LYS:H	2.30	0.45
58:DZ:14:LYS:O	58:DZ:18:LEU:HD13	2.16	0.45
58:DZ:25:PRO:HA	58:DZ:38:TYR:HB2	1.98	0.45
1:AA:10:A:H2'	1:AA:11:G:C8	2.52	0.45
1:AA:322:C:H41	1:AA:328:C:H6	1.64	0.45
1:AA:335:C:O2	1:AA:1433:A:H2	2.00	0.45
1:AA:973:G:O4'	10:AJ:55:LYS:CG	2.57	0.45
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.17	0.45
2:AB:208:ILE:O	2:AB:212:GLN:HB2	2.16	0.45
2:AB:238:LEU:O	2:AB:240:GLN:N	2.49	0.45
14:AN:29:ARG:HH11	14:AN:29:ARG:CG	2.30	0.45
22:AV:7:G:H3'	22:AV:8:U:H5'	1.97	0.45
22:AW:17:C:O2	22:AW:17:C:O4'	2.33	0.45
22:AW:77:A:H61	35:BA:2422:A:C5'	2.30	0.45
24:AY:100:VAL:HG22	24:AY:101:LEU:N	2.32	0.45
24:AY:191:ASP:OD1	24:AY:191:ASP:N	2.50	0.45
24:AY:443:HIS:C	24:AY:445:GLU:H	2.25	0.45
24:AY:491:VAL:CG1	24:AY:596:LYS:HD3	2.44	0.45
24:AY:510:VAL:HA	24:AY:570:GLY:HA3	1.98	0.45
27:B2:32:LEU:HD11	27:B2:54:LYS:HG2	1.98	0.45
27:B2:48:HIS:O	27:B2:50:ILE:N	2.49	0.45
35:BA:41:C:N4	35:BA:437:G:H1	2.15	0.45
35:BA:438:G:H2'	35:BA:440:G:C8	2.52	0.45
35:BA:1236:G:HO2'	35:BA:1237:A:H8	1.63	0.45
35:BA:1578:U:H2'	35:BA:1578:U:O2	2.15	0.45
35:BA:1771:C:H2'	35:BA:1772:G:H8	1.81	0.45
35:BA:1840:G:H1	35:BA:1902:C:N4	2.15	0.45
35:BA:2086:U:H2'	35:BA:2087:G:C8	2.52	0.45
35:BA:2369:A:H2'	35:BA:2370:G:H8	1.82	0.45
38:BD:266:SER:C	38:BD:267:SER:O	2.58	0.45
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.99	0.45
39:BE:93:VAL:O	39:BE:95:ILE:N	2.50	0.45
39:BE:132:HIS:CG	39:BE:135:HIS:NE2	2.84	0.45
39:BE:181:LEU:HD11	52:BT:7:ILE:HG21	1.99	0.45
41:BG:117:PHE:HE1	41:BG:119:GLY:C	2.24	0.45
42:BH:41:MET:HE2	42:BH:43:VAL:HG12	1.98	0.45
47:BO:61:VAL:N	47:BO:87:ILE:HD11	2.32	0.45
47:BO:112:MET:O	47:BO:113:LYS:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:41:ALA:O	50:BR:43:GLU:N	2.50	0.45
52:BT:29:ARG:O	52:BT:30:VAL:O	2.34	0.45
52:BT:93:ARG:HD2	52:BT:93:ARG:HA	1.76	0.45
52:BT:108:ARG:CG	52:BT:109:GLU:N	2.74	0.45
53:BU:106:PHE:HA	53:BU:109:LEU:HD12	1.99	0.45
55:BW:8:ARG:HA	55:BW:102:HIS:HA	1.99	0.45
55:BW:25:ARG:HB2	55:BW:25:ARG:NH1	2.31	0.45
55:BW:66:GLU:HG3	55:BW:69:LEU:HD12	1.97	0.45
57:BY:77:PRO:HB2	57:BY:99:CYS:SG	2.57	0.45
1:CA:155:C:H2'	1:CA:156:G:C8	2.52	0.45
1:CA:545:C:O2'	1:CA:546:G:H5'	2.17	0.45
1:CA:693:G:C5	23:CX:13:A:H1'	2.52	0.45
1:CA:1095:U:OP1	1:CA:1108:G:N2	2.49	0.45
1:CA:1225:A:H5''	1:CA:1226:C:OP2	2.17	0.45
2:CB:24:TRP:HA	2:CB:190:THR:O	2.17	0.45
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.45	0.45
3:CC:84:ILE:O	3:CC:84:ILE:HG12	2.16	0.45
4:CD:110:PHE:N	4:CD:110:PHE:CD1	2.84	0.45
4:CD:168:ARG:N	4:CD:168:ARG:HD2	2.32	0.45
5:CE:43:LEU:CB	5:CE:136:MET:HE2	2.47	0.45
6:CF:100:ASN:O	18:CR:28:GLU:HG2	2.16	0.45
7:CG:57:GLU:H	7:CG:57:GLU:CD	2.19	0.45
7:CG:80:VAL:CG2	7:CG:81:GLY:H	2.27	0.45
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.78	0.45
19:CS:58:VAL:O	19:CS:60:VAL:N	2.50	0.45
24:CY:145:ASP:OD2	24:CY:148:LEU:HB2	2.17	0.45
24:CY:206:LEU:HD12	24:CY:210:ARG:HH12	1.82	0.45
24:CY:358:MET:SD	24:CY:363:ARG:HG2	2.56	0.45
24:CY:428:LEU:HD13	24:CY:440:VAL:HG21	1.99	0.45
24:CY:453:GLY:HA2	24:CY:458:HIS:CD2	2.52	0.45
24:CY:517:LEU:HD11	24:CY:564:LYS:CB	2.43	0.45
25:D0:20:ARG:HH11	25:D0:20:ARG:CG	2.30	0.45
27:D2:37:PHE:O	27:D2:41:ILE:HG23	2.17	0.45
27:D2:59:ARG:O	27:D2:60:LEU:C	2.60	0.45
35:DA:74:A:H5''	35:DA:75:G:O4'	2.16	0.45
35:DA:214:G:H2'	35:DA:215:G:O4'	2.17	0.45
35:DA:626:U:H3	48:DP:105:LEU:HG	1.82	0.45
35:DA:654(P):C:O2'	35:DA:654(Q):C:H5'	2.17	0.45
35:DA:654(R):C:O2'	35:DA:654(S):G:H8	1.98	0.45
35:DA:864:G:H21	35:DA:866:A:H61	1.65	0.45
35:DA:1045:A:O2'	35:DA:1047:G:C5	2.66	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1052:C:H3'	35:DA:1052:C:C6	2.52	0.45
35:DA:1052:C:P	35:DA:1052:C:O4'	2.74	0.45
35:DA:1328:G:H2'	35:DA:1330:C:C4	2.51	0.45
35:DA:1331:A:C2'	35:DA:1332:G:H5''	2.46	0.45
35:DA:1464:C:O2'	35:DA:1528:A:C8	2.66	0.45
35:DA:1487:G:H2'	35:DA:1487:G:N3	2.32	0.45
35:DA:1578:U:H2'	35:DA:1578:U:O2	2.17	0.45
35:DA:1609:A:H1'	35:DA:1616:A:H1'	1.98	0.45
35:DA:1682:G:O2'	35:DA:1683:C:H5'	2.17	0.45
35:DA:1813:G:H1'	38:DD:50:THR:OG1	2.17	0.45
35:DA:1825:A:OP1	38:DD:249:PRO:HD3	2.17	0.45
35:DA:1917:U:H2'	35:DA:1918:A:H5'	1.97	0.45
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.31	0.45
35:DA:1943:U:O2	35:DA:1943:U:C2'	2.64	0.45
35:DA:2163:C:C2'	35:DA:2164:C:H5'	2.47	0.45
35:DA:2552:U:H6	35:DA:2552:U:O5'	1.99	0.45
35:DA:2712:U:H2'	35:DA:2713:A:H5'	1.98	0.45
35:DA:2787:C:H1'	39:DE:61:ARG:HD3	1.99	0.45
35:DA:2809:A:C2	35:DA:2892:A:N3	2.84	0.45
35:DA:2881:C:C2	35:DA:2882:A:C8	3.05	0.45
36:DB:64:C:O2'	36:DB:65:C:H5'	2.17	0.45
36:DB:106:G:O2'	36:DB:107:G:H5'	2.16	0.45
40:DF:31:HIS:O	40:DF:34:TRP:HB3	2.17	0.45
40:DF:201:VAL:HA	40:DF:204:ASN:HD22	1.82	0.45
42:DH:41:MET:SD	42:DH:53:GLU:C	3.00	0.45
42:DH:94:TYR:CD2	42:DH:107:VAL:HG12	2.52	0.45
44:DK:62:ASP:O	44:DK:63:ARG:HB2	2.16	0.45
48:DP:122:PRO:O	48:DP:123:LEU:HD23	2.16	0.45
49:DQ:108:GLY:C	49:DQ:109:VAL:HG23	2.42	0.45
50:DR:30:THR:HA	50:DR:78:LYS:HZ3	1.81	0.45
51:DS:63:THR:O	51:DS:64:GLU:C	2.59	0.45
51:DS:77:ALA:HB1	51:DS:82:ILE:HB	1.99	0.45
54:DV:64:HIS:ND1	54:DV:92:THR:CG2	2.80	0.45
58:DZ:102:LEU:HG	58:DZ:122:ARG:O	2.16	0.45
1:AA:356:A:H1'	1:AA:368:U:O2'	2.16	0.45
1:AA:811:C:H4'	1:AA:900:A:N6	2.32	0.45
1:AA:923:A:H2'	1:AA:924:C:C6	2.51	0.45
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.17	0.45
1:AA:1237:C:H3'	1:AA:1336:C:H41	1.82	0.45
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.17	0.45
1:AA:1505:G:C8	1:AA:1505:G:H5''	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:28:PHE:O	2:AB:29:ALA:C	2.60	0.45
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.99	0.45
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.52	0.45
2:AB:207:ALA:C	2:AB:209:ARG:N	2.71	0.45
3:AC:165:THR:HG23	3:AC:165:THR:O	2.16	0.45
4:AD:11:LEU:C	4:AD:13:ARG:N	2.70	0.45
4:AD:168:ARG:HA	4:AD:168:ARG:HH11	1.81	0.45
5:AE:8:GLU:HA	5:AE:34:VAL:HA	1.98	0.45
8:AH:101:PRO:C	8:AH:102:ARG:HD3	2.42	0.45
9:AI:50:LEU:C	9:AI:52:ALA:N	2.74	0.45
9:AI:60:ASP:O	9:AI:61:ALA:C	2.59	0.45
12:AL:41:ARG:NH1	12:AL:41:ARG:CB	2.78	0.45
19:AS:4:SER:O	19:AS:5:LEU:C	2.58	0.45
19:AS:15:LEU:O	19:AS:19:VAL:N	2.50	0.45
24:AY:138:LYS:C	24:AY:140:ASP:H	2.25	0.45
24:AY:465:ARG:O	24:AY:470:PHE:HD2	1.99	0.45
24:AY:497:PHE:O	24:AY:498:ILE:O	2.35	0.45
26:B1:83:GLU:CD	26:B1:83:GLU:N	2.75	0.45
27:B2:55:ARG:HH21	27:B2:55:ARG:HG3	1.82	0.45
30:B5:3:LYS:CE	35:BA:2613:U:H2'	2.47	0.45
30:B5:58:LEU:HD22	30:B5:58:LEU:C	2.41	0.45
33:B8:53:PRO:HG2	33:B8:54:GLU:N	2.31	0.45
34:B9:2:LYS:HE3	34:B9:2:LYS:HB3	1.87	0.45
35:BA:74:A:H5''	35:BA:75:G:O4'	2.17	0.45
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.81	0.45
35:BA:288:C:O2'	35:BA:289:A:H5'	2.17	0.45
35:BA:299:A:H1'	35:BA:322:A:N6	2.32	0.45
35:BA:338:G:O2'	35:BA:339:U:H5'	2.16	0.45
35:BA:389:G:O4'	35:BA:2413:G:C4'	2.65	0.45
35:BA:492:A:H2'	35:BA:493:G:C5'	2.46	0.45
35:BA:657:U:C2	35:BA:658:C:C5	3.05	0.45
35:BA:686:G:N2	35:BA:788:A:H61	2.15	0.45
35:BA:782:A:C2	38:BD:226:MET:HG2	2.51	0.45
35:BA:1452:A:C3'	35:BA:1453:U:C5'	2.72	0.45
35:BA:1495:A:N3	35:BA:1496:A:C2	2.85	0.45
35:BA:1499:C:C2'	35:BA:1500:G:H5'	2.46	0.45
35:BA:2337:G:H2'	35:BA:2338:G:C8	2.52	0.45
35:BA:2473:U:C3'	35:BA:2474:C:H5''	2.16	0.45
35:BA:2762:G:H8	35:BA:2762:G:C5'	2.28	0.45
35:BA:2887:U:H2'	35:BA:2888:C:C6	2.52	0.45
37:BC:173:HIS:O	37:BC:174:ALA:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:43:ARG:NH1	38:BD:49:ILE:HG22	2.31	0.45
40:BF:160:ASN:ND2	40:BF:162:LEU:HB2	2.28	0.45
41:BG:16:ARG:HH11	41:BG:16:ARG:HG3	1.82	0.45
41:BG:67:LYS:CD	41:BG:68:PRO:O	2.65	0.45
43:BJ:67:UNK:C	43:BJ:69:UNK:N	2.80	0.45
46:BN:55:VAL:HG22	46:BN:56:ASN:N	2.32	0.45
46:BN:104:LYS:HB2	46:BN:117:PHE:CE1	2.52	0.45
47:BO:91:LEU:N	47:BO:91:LEU:CD2	2.79	0.45
48:BP:133:SER:O	48:BP:136:GLU:HG2	2.17	0.45
51:BS:70:GLY:C	51:BS:101:LEU:CD2	2.88	0.45
52:BT:55:ASN:ND2	52:BT:58:ASN:HD21	2.15	0.45
53:BU:83:LEU:CD1	53:BU:113:ALA:HB2	2.47	0.45
53:BU:83:LEU:HG	53:BU:88:ILE:HD11	1.98	0.45
55:BW:66:GLU:HA	55:BW:69:LEU:HD12	1.97	0.45
57:BY:91:GLU:HB2	57:BY:92:ASN:H	1.57	0.45
58:BZ:141:VAL:O	58:BZ:142:SER:CB	2.64	0.45
1:CA:238:G:O2'	1:CA:239:U:H5'	2.17	0.45
1:CA:883:C:O2'	1:CA:884:U:H5'	2.17	0.45
1:CA:1225:A:N3	1:CA:1225:A:C2'	2.77	0.45
1:CA:1314:C:N4	19:CS:4:SER:N	2.65	0.45
2:CB:189:ASP:OD2	2:CB:205:ASP:OD1	2.35	0.45
2:CB:219:VAL:O	2:CB:220:ASP:C	2.60	0.45
3:CC:112:SER:OG	3:CC:114:PRO:HD2	2.17	0.45
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.17	0.45
4:CD:163:GLU:HA	4:CD:163:GLU:OE2	2.15	0.45
8:CH:32:LYS:O	8:CH:34:GLU:N	2.50	0.45
11:CK:24:SER:O	11:CK:88:GLY:HA2	2.17	0.45
12:CL:30:ALA:CB	12:CL:33:ARG:HH21	2.30	0.45
19:CS:15:LEU:O	19:CS:19:VAL:N	2.50	0.45
24:CY:485:GLU:CD	24:CY:554:PRO:HD2	2.41	0.45
24:CY:606:MET:HE3	24:CY:671:MET:HG2	1.99	0.45
24:CY:613:PRO:CG	24:CY:666:ARG:HH21	2.30	0.45
26:D1:45:ASN:ND2	35:DA:2090:G:H21	2.07	0.45
26:D1:82:LEU:HD23	26:D1:90:ILE:HD12	1.98	0.45
28:D3:19:GLN:O	28:D3:22:ALA:HB3	2.16	0.45
29:D4:21:VAL:O	29:D4:21:VAL:HG12	2.16	0.45
29:D4:43:TYR:CD2	29:D4:44:THR:HG23	2.52	0.45
30:D5:59:GLU:HB3	30:D5:60:VAL:H	1.68	0.45
33:D8:29:LYS:HD2	33:D8:44:LYS:HG2	1.99	0.45
33:D8:60:LEU:C	33:D8:63:PRO:HD2	2.43	0.45
33:D8:61:LEU:C	33:D8:63:PRO:CD	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:15:G:H2'	35:DA:16:G:H8	1.81	0.45
35:DA:17:G:H2'	35:DA:18:C:C6	2.52	0.45
35:DA:42:G:H2'	35:DA:42:G:N3	2.32	0.45
35:DA:496:G:C6	35:DA:497:A:C4	3.05	0.45
35:DA:949:C:H2'	35:DA:950:G:H8	1.81	0.45
35:DA:960:A:C8	35:DA:962:G:C8	3.04	0.45
35:DA:1009:A:H1'	53:DU:59:ARG:NH1	2.32	0.45
35:DA:1472:A:H2'	35:DA:1473:G:C8	2.52	0.45
35:DA:2126:A:H1'	35:DA:2127:G:O4'	2.17	0.45
35:DA:2555:U:C2'	35:DA:2556:C:H5'	2.47	0.45
36:DB:20:C:HO2'	36:DB:21:G:H5''	1.82	0.45
36:DB:89:G:C6	36:DB:90:A:N1	2.85	0.45
38:DD:48:ARG:HH11	38:DD:48:ARG:HG3	1.81	0.45
39:DE:69:LYS:C	39:DE:71:GLY:N	2.74	0.45
40:DF:107:LYS:HD2	40:DF:205:ARG:O	2.16	0.45
41:DG:57:ALA:HA	41:DG:90:LEU:HD22	1.99	0.45
44:DK:103:GLN:HA	44:DK:106:GLU:OE2	2.17	0.45
48:DP:122:PRO:HA	48:DP:141:ALA:O	2.17	0.45
49:DQ:63:LYS:NZ	58:DZ:175:VAL:HG21	2.30	0.45
50:DR:11:ASN:O	50:DR:12:ARG:CB	2.64	0.45
51:DS:87:PHE:HB2	51:DS:106:ARG:HH21	1.82	0.45
52:DT:113:LYS:O	52:DT:114:LEU:HD23	2.17	0.45
53:DU:21:ALA:HA	53:DU:24:TYR:CD1	2.52	0.45
54:DV:47:VAL:O	54:DV:47:VAL:HG23	2.16	0.45
58:DZ:61:LEU:C	58:DZ:63:ASP:N	2.74	0.45
58:DZ:153:SER:O	58:DZ:155:LEU:HD23	2.16	0.45
58:DZ:163:LEU:O	58:DZ:163:LEU:HG	2.16	0.45
1:AA:115:G:H1'	1:AA:116:A:N7	2.32	0.44
1:AA:315:A:O2'	1:AA:316:G:P	2.75	0.44
1:AA:778:G:H1'	11:AK:119:CYS:HB3	1.98	0.44
1:AA:979:C:C3'	1:AA:980:C:C5'	2.76	0.44
1:AA:1221:G:P	19:AS:36:ARG:HD3	2.56	0.44
1:AA:1225:A:N3	1:AA:1225:A:C2'	2.77	0.44
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.35	0.44
1:AA:1347:G:H2'	1:AA:1373:G:C6	2.52	0.44
2:AB:175:ARG:O	2:AB:176:GLU:C	2.59	0.44
3:AC:32:LEU:O	3:AC:35:GLU:HB3	2.17	0.44
3:AC:35:GLU:OE1	3:AC:97:LYS:HE3	2.17	0.44
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.17	0.44
5:AE:8:GLU:CA	5:AE:34:VAL:HG23	2.46	0.44
5:AE:9:LYS:NZ	5:AE:111:GLU:OE1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:129:ILE:O	5:AE:132:ALA:HB3	2.17	0.44
6:AF:60:PHE:CE2	18:AR:78:LEU:HD21	2.52	0.44
6:AF:62:TRP:CE2	18:AR:35:ARG:NH2	2.85	0.44
12:AL:39:VAL:HG21	12:AL:57:LYS:HD2	1.99	0.44
13:AM:37:THR:HG21	13:AM:56:LEU:HA	1.97	0.44
13:AM:79:LYS:HA	13:AM:82:MET:CG	2.47	0.44
13:AM:105:THR:O	13:AM:106:ASN:CG	2.59	0.44
15:AO:50:HIS:O	15:AO:53:HIS:HB3	2.16	0.44
22:AW:37:U:N3	23:AX:13:A:N6	2.65	0.44
24:AY:14:ASN:ND2	24:AY:80:ASN:HD22	2.14	0.44
24:AY:302:HIS:HA	24:AY:303:PRO:HD2	1.74	0.44
27:B2:13:ALA:O	27:B2:15:LYS:N	2.50	0.44
27:B2:29:LYS:O	27:B2:30:ARG:C	2.59	0.44
35:BA:128:C:O2'	35:BA:129:C:O5'	2.33	0.44
35:BA:333:G:H2'	35:BA:333:G:N3	2.32	0.44
35:BA:526:A:N6	35:BA:2626:C:H4'	2.32	0.44
35:BA:625:G:H5'	35:BA:657:U:OP1	2.17	0.44
35:BA:703:U:O2'	35:BA:704:G:H5'	2.17	0.44
35:BA:1331:A:O2'	35:BA:1332:G:H8	2.00	0.44
35:BA:1381:G:N2	35:BA:1382:G:H1'	2.32	0.44
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.52	0.44
35:BA:1826:G:H2'	35:BA:1827:C:H6	1.82	0.44
35:BA:1856:G:H1	35:BA:1886:C:H42	1.64	0.44
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.17	0.44
36:BB:14:U:H5'	36:BB:71:C:O4'	2.16	0.44
36:BB:86:G:H2'	36:BB:87:G:H8	1.77	0.44
40:BF:22:ALA:C	40:BF:24:LEU:N	2.73	0.44
40:BF:157:VAL:O	40:BF:157:VAL:HG23	2.16	0.44
40:BF:165:ARG:HH11	40:BF:165:ARG:HB3	1.82	0.44
41:BG:8:LYS:O	41:BG:12:TYR:HD1	2.00	0.44
41:BG:67:LYS:HD3	41:BG:68:PRO:O	2.16	0.44
44:BK:21:PRO:HA	44:BK:23:VAL:H	1.82	0.44
44:BK:121:GLU:CD	44:BK:121:GLU:H	2.24	0.44
46:BN:133:GLN:CG	46:BN:134:ARG:H	2.30	0.44
47:BO:24:VAL:O	47:BO:24:VAL:HG23	2.16	0.44
50:BR:94:TYR:CD1	50:BR:94:TYR:N	2.85	0.44
50:BR:106:GLY:O	50:BR:107:ASP:HB3	2.16	0.44
52:BT:89:VAL:C	52:BT:91:ARG:N	2.75	0.44
53:BU:17:ILE:C	53:BU:19:LYS:N	2.75	0.44
53:BU:50:ARG:O	53:BU:51:LYS:C	2.60	0.44
1:CA:197:A:H4'	1:CA:198:G:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:605:U:O2'	1:CA:606:G:H5'	2.17	0.44
1:CA:781:A:C2'	1:CA:782:A:H5'	2.47	0.44
1:CA:826:C:H2'	1:CA:827:U:H6	1.81	0.44
3:CC:87:LEU:O	3:CC:88:ARG:C	2.59	0.44
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.81	0.44
6:CF:62:TRP:CD1	18:CR:35:ARG:NH1	2.85	0.44
8:CH:114:THR:C	8:CH:116:LYS:N	2.74	0.44
10:CJ:4:ILE:CB	10:CJ:74:ILE:HD11	2.48	0.44
11:CK:33:THR:HG22	11:CK:39:PRO:CA	2.40	0.44
12:CL:28:LYS:HB2	12:CL:33:ARG:HH22	1.82	0.44
13:CM:3:ARG:HH21	13:CM:7:VAL:HG13	1.82	0.44
24:CY:162:VAL:CG1	24:CY:216:LEU:HD12	2.47	0.44
24:CY:414:GLU:O	24:CY:474:ALA:HB1	2.17	0.44
27:D2:48:HIS:CE1	35:DA:95:G:HO2'	2.32	0.44
29:D4:51:ASP:OD2	29:D4:52:THR:HG23	2.17	0.44
35:DA:45:C:OP2	35:DA:215:G:H5''	2.17	0.44
35:DA:216:A:H2'	35:DA:217:G:H8	1.81	0.44
35:DA:269:U:H2'	35:DA:270:A:H8	1.81	0.44
35:DA:331:A:O2'	35:DA:332:A:OP1	2.26	0.44
35:DA:558:G:C5'	46:DN:112:LEU:HD22	2.47	0.44
35:DA:581:C:C2	35:DA:582:G:N7	2.85	0.44
35:DA:958:U:H3'	35:DA:958:U:H6	1.82	0.44
35:DA:962:G:HO2'	35:DA:963:U:H5'	1.80	0.44
35:DA:1114:G:H2'	35:DA:1115:G:C5'	2.47	0.44
35:DA:1338:G:N7	56:DX:62:LYS:NZ	2.58	0.44
35:DA:1411:C:N4	35:DA:1412:A:N6	2.66	0.44
35:DA:1491:G:N3	35:DA:1491:G:H2'	2.33	0.44
35:DA:1555:G:H2'	35:DA:1555:G:N3	2.32	0.44
35:DA:1799:G:H5'	35:DA:1819:A:H61	1.81	0.44
35:DA:1799:G:N2	35:DA:1818:U:H2'	2.32	0.44
35:DA:1947:C:H2'	35:DA:1948:G:H8	1.83	0.44
36:DB:115:G:O4'	51:DS:47:THR:HB	2.17	0.44
38:DD:153:ALA:O	38:DD:154:LYS:CG	2.65	0.44
40:DF:10:PRO:HD2	40:DF:13:SER:O	2.17	0.44
40:DF:112:MET:HA	40:DF:115:ALA:HB3	1.99	0.44
41:DG:42:GLY:O	41:DG:43:LEU:C	2.60	0.44
42:DH:54:ARG:HH11	42:DH:54:ARG:HG2	1.82	0.44
42:DH:121:ILE:HD13	42:DH:144:VAL:HG21	1.99	0.44
46:DN:40:PRO:O	53:DU:64:ARG:NH2	2.49	0.44
47:DO:104:ARG:C	47:DO:106:LEU:N	2.74	0.44
49:DQ:76:LYS:HE2	49:DQ:77:LYS:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:107:ASP:CG	52:DT:108:ARG:N	2.67	0.44
53:DU:17:ILE:C	53:DU:19:LYS:N	2.75	0.44
53:DU:92:ARG:O	53:DU:93:LYS:C	2.60	0.44
54:DV:40:LEU:CA	54:DV:45:THR:HB	2.42	0.44
57:DY:81:LYS:HD2	57:DY:96:ILE:CG2	2.47	0.44
57:DY:84:ARG:HG2	57:DY:85:VAL:H	1.83	0.44
58:DZ:63:ASP:C	58:DZ:65:GLN:N	2.75	0.44
1:AA:59:A:H5'	1:AA:60:A:H5'	1.97	0.44
1:AA:260:G:O2'	1:AA:261:U:H5'	2.17	0.44
1:AA:608:A:C2'	1:AA:609:A:H5'	2.47	0.44
1:AA:781:A:C3'	1:AA:782:A:H5'	2.48	0.44
1:AA:909:A:H2'	1:AA:910:C:O4'	2.17	0.44
1:AA:960:U:C6	1:AA:1225:A:C8	3.05	0.44
1:AA:1004:A:H5'	1:AA:1025:U:C4	2.52	0.44
1:AA:1132:C:N4	1:AA:1133:G:C6	2.85	0.44
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.52	0.44
1:AA:1347:G:H2'	1:AA:1373:G:O6	2.17	0.44
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.53	0.44
2:AB:187:LEU:HD22	2:AB:201:ILE:O	2.17	0.44
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.62	0.44
5:AE:29:GLY:HA2	5:AE:46:GLY:O	2.17	0.44
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.43	0.44
5:AE:150:ARG:HG2	5:AE:150:ARG:O	2.16	0.44
5:AE:150:ARG:NH1	5:AE:150:ARG:HB2	2.32	0.44
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.47	0.44
8:AH:114:THR:C	8:AH:116:LYS:H	2.24	0.44
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.16	0.44
9:AI:73:GLN:O	9:AI:75:ASP:N	2.50	0.44
9:AI:104:ARG:O	9:AI:105:ASP:N	2.50	0.44
12:AL:17:LYS:HD3	12:AL:18:VAL:H	1.82	0.44
12:AL:18:VAL:O	12:AL:19:ARG:CB	2.65	0.44
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.32	0.44
17:AQ:9:VAL:CG1	17:AQ:56:VAL:HG22	2.47	0.44
22:AV:32:C:C4	22:AV:33:U:C5	3.05	0.44
24:AY:181:LEU:HD23	24:AY:182:ARG:NH1	2.33	0.44
24:AY:262:SER:OG	24:AY:265:LYS:HG3	2.17	0.44
28:B3:8:LEU:O	28:B3:31:LEU:HD22	2.17	0.44
31:B6:15:GLU:OE1	31:B6:41:PRO:HG3	2.18	0.44
35:BA:21:A:O2'	35:BA:22:C:H5'	2.17	0.44
35:BA:55:G:H1	35:BA:115:C:H42	1.65	0.44
35:BA:271(H):G:H1	35:BA:271(P):C:N4	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:520:G:H2'	35:BA:521:G:H8	1.82	0.44
35:BA:557:U:H2'	35:BA:558:G:H8	1.82	0.44
35:BA:777:A:H2'	35:BA:778:G:H8	1.82	0.44
35:BA:795:C:H2'	35:BA:796:C:C6	2.53	0.44
35:BA:803:U:H2'	35:BA:804:A:C5'	2.48	0.44
35:BA:915:C:H2'	35:BA:916:G:H8	1.83	0.44
35:BA:1511:C:H2'	35:BA:1512:U:O4'	2.16	0.44
35:BA:1530:C:H2'	35:BA:1531:C:H6	1.83	0.44
35:BA:1718:G:O2'	35:BA:1719:G:H5'	2.17	0.44
35:BA:2203:U:H1'	38:BD:151:LYS:HE3	1.98	0.44
35:BA:2319:G:C2	35:BA:2320:A:N1	2.85	0.44
35:BA:2712:U:H2'	35:BA:2713:A:H5'	1.99	0.44
37:BC:88:GLU:N	37:BC:95:VAL:HG21	2.33	0.44
37:BC:132:LEU:HB3	37:BC:137:LEU:C	2.42	0.44
38:BD:145:VAL:HG12	38:BD:146:GLU:O	2.17	0.44
38:BD:177:LEU:O	38:BD:179:SER:N	2.50	0.44
41:BG:97:ASP:O	41:BG:101:ILE:HB	2.17	0.44
41:BG:109:VAL:C	41:BG:112:PRO:HD2	2.42	0.44
48:BP:31:ALA:C	48:BP:33:ARG:N	2.73	0.44
48:BP:47:ASP:CB	48:BP:48:PRO:CA	2.94	0.44
50:BR:11:ASN:O	50:BR:12:ARG:CB	2.64	0.44
51:BS:68:GLN:C	51:BS:70:GLY:N	2.72	0.44
53:BU:104:GLN:HB3	54:BV:44:LYS:HZ1	1.81	0.44
57:BY:86:ARG:CB	57:BY:88:LYS:HZ1	2.30	0.44
58:BZ:153:SER:CB	58:BZ:163:LEU:HD13	2.47	0.44
1:CA:80:G:C3'	1:CA:81:U:H5'	2.35	0.44
1:CA:658:G:C6	1:CA:749:C:N4	2.85	0.44
1:CA:714:G:H2'	1:CA:715:A:C8	2.51	0.44
1:CA:1489:G:C5	1:CA:1490:C:C5	3.06	0.44
4:CD:8:VAL:O	4:CD:10:ARG:N	2.41	0.44
5:CE:122:GLU:O	5:CE:123:LEU:HD23	2.16	0.44
5:CE:139:LEU:O	5:CE:141:GLN:N	2.50	0.44
7:CG:108:ALA:O	7:CG:111:ARG:HB2	2.17	0.44
8:CH:17:THR:HG22	8:CH:63:LEU:HD12	1.99	0.44
10:CJ:54:PHE:O	10:CJ:55:LYS:O	2.35	0.44
13:CM:54:VAL:HG12	13:CM:58:GLU:CG	2.47	0.44
16:CP:49:LEU:CD2	16:CP:73:LEU:HD22	2.43	0.44
18:CR:44:LEU:O	18:CR:45:SER:O	2.34	0.44
24:CY:25:LYS:HZ2	62:CY:703:GDP:PB	2.40	0.44
24:CY:517:LEU:HB3	24:CY:521:SER:CB	2.47	0.44
24:CY:519:ARG:CZ	24:CY:678:GLU:H	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D1:29:GLY:O	26:D1:30:VAL:HG22	2.18	0.44
29:D4:39:CYS:C	29:D4:42:PHE:CE2	2.95	0.44
31:D6:54:ILE:HD11	35:DA:2420:C:H5'	1.98	0.44
32:D7:33:ARG:HH11	32:D7:33:ARG:HB2	1.83	0.44
35:DA:216:A:H2'	35:DA:217:G:C8	2.53	0.44
35:DA:271(K):U:H3'	35:DA:271(L):U:C5'	2.47	0.44
35:DA:329:G:H4'	35:DA:330:A:OP2	2.17	0.44
35:DA:747:U:O2'	55:DW:88:ARG:HG3	2.17	0.44
35:DA:848:G:N9	35:DA:933:A:H8	2.15	0.44
35:DA:1019:U:N3	35:DA:1142(A):A:N6	2.66	0.44
35:DA:1149:G:H2'	35:DA:1150:C:H6	1.83	0.44
35:DA:1718:G:O2'	35:DA:1719:G:H5'	2.17	0.44
35:DA:1755:A:P	52:DT:113:LYS:NZ	2.90	0.44
35:DA:2292:C:O2'	35:DA:2293:C:H5'	2.17	0.44
37:DC:149:ASN:ND2	37:DC:149:ASN:C	2.73	0.44
38:DD:26:LYS:O	38:DD:27:THR:CG2	2.65	0.44
38:DD:94:LEU:HD23	38:DD:95:LEU:N	2.32	0.44
38:DD:131:LEU:HD13	38:DD:136:ILE:HD11	1.99	0.44
38:DD:132:PRO:O	38:DD:133:LEU:C	2.61	0.44
39:DE:21:VAL:HG23	39:DE:21:VAL:O	2.16	0.44
39:DE:36:ARG:NH1	39:DE:36:ARG:CG	2.77	0.44
39:DE:37:ARG:HA	39:DE:42:ASP:OD2	2.16	0.44
40:DF:195:ASP:CG	40:DF:196:LEU:N	2.74	0.44
40:DF:205:ARG:O	40:DF:206:ILE:HD13	2.18	0.44
42:DH:70:THR:C	42:DH:72:ILE:N	2.72	0.44
42:DH:86:GLU:OE2	42:DH:86:GLU:N	2.50	0.44
46:DN:104:LYS:HB2	46:DN:117:PHE:CE1	2.52	0.44
47:DO:17:ARG:O	47:DO:18:LYS:HG3	2.17	0.44
51:DS:25:ARG:CG	51:DS:26:LEU:H	2.29	0.44
51:DS:58:LEU:CD1	51:DS:59:LYS:H	2.28	0.44
51:DS:59:LYS:HG2	51:DS:60:GLY:H	1.79	0.44
52:DT:23:ARG:HA	52:DT:52:ILE:HD11	2.00	0.44
55:DW:79:GLY:C	55:DW:100:THR:CG2	2.90	0.44
57:DY:47:LYS:HG3	57:DY:60:PHE:CE2	2.43	0.44
1:AA:96:U:O2'	1:AA:97:G:H8	2.00	0.44
1:AA:329:A:H3'	1:AA:330:C:C5'	2.48	0.44
1:AA:417:C:H2'	1:AA:418:C:C6	2.53	0.44
1:AA:451:A:O4'	1:AA:452:A:C8	2.70	0.44
1:AA:841:U:H3'	1:AA:848:C:C5'	2.47	0.44
3:AC:10:PHE:CZ	3:AC:178:LEU:HD11	2.52	0.44
3:AC:131:ARG:HH22	3:AC:168:ALA:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:140:ARG:HG3	3:AC:140:ARG:NH1	2.32	0.44
10:AJ:32:ALA:CB	10:AJ:78:ASN:HD21	2.31	0.44
12:AL:8:ASN:O	12:AL:12:ARG:HG3	2.18	0.44
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.32	0.44
13:AM:117:VAL:O	13:AM:118:ALA:C	2.60	0.44
18:AR:59:SER:H	18:AR:62:GLU:CB	2.26	0.44
20:AT:61:SER:O	20:AT:63:ILE:N	2.50	0.44
22:AV:20:U:H3'	22:AV:21:A:C5'	2.39	0.44
22:AV:36:U:H1'	24:AY:502:GLY:HA2	1.99	0.44
22:AV:68:C:H2'	22:AV:69:C:H6	1.81	0.44
24:AY:229:LEU:C	24:AY:231:TYR:N	2.73	0.44
24:AY:363:ARG:HH11	24:AY:363:ARG:CG	2.25	0.44
31:B6:51:GLU:HG2	31:B6:52:VAL:N	2.32	0.44
35:BA:187:G:N3	35:BA:1365:A:H2	2.15	0.44
35:BA:272(I):U:H5	35:BA:363(A):A:C2	2.35	0.44
35:BA:558:G:C5'	46:BN:112:LEU:HD22	2.46	0.44
35:BA:833:U:O2	48:BP:55:ARG:NH1	2.49	0.44
35:BA:834:C:O2'	35:BA:835:A:H5'	2.18	0.44
35:BA:1077:A:O2'	35:BA:1078:U:H5'	2.16	0.44
35:BA:1654:A:O2'	39:BE:113:PHE:O	2.35	0.44
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.32	0.44
35:BA:2406:U:C2	48:BP:72:PRO:HB2	2.52	0.44
37:BC:156:GLU:OE1	37:BC:161:ARG:HD3	2.17	0.44
38:BD:31:LYS:O	38:BD:33:LEU:N	2.51	0.44
38:BD:44:ASN:OD1	38:BD:44:ASN:N	2.49	0.44
38:BD:92:ILE:H	38:BD:92:ILE:CD1	2.29	0.44
39:BE:32:PRO:CA	39:BE:90:THR:HG23	2.46	0.44
40:BF:25:PRO:CB	40:BF:119:ARG:HB2	2.46	0.44
41:BG:107:LEU:HA	41:BG:111:LEU:HD12	1.98	0.44
46:BN:103:VAL:C	46:BN:105:GLY:N	2.73	0.44
46:BN:128:HIS:HE1	46:BN:134:ARG:NH1	2.15	0.44
51:BS:47:THR:CG2	51:BS:49:VAL:O	2.65	0.44
56:BX:64:LYS:NZ	56:BX:73:ARG:NH2	2.66	0.44
58:BZ:42:VAL:CG1	58:BZ:43:GLU:H	2.23	0.44
58:BZ:79:ARG:O	58:BZ:79:ARG:CG	2.65	0.44
58:BZ:101:PRO:HG2	58:BZ:136:PHE:HA	2.00	0.44
58:BZ:167:PRO:O	58:BZ:168:GLU:CB	2.66	0.44
1:CA:865:A:H5'	1:CA:1078:U:C4	2.52	0.44
1:CA:960:U:C6	1:CA:1225:A:C8	3.05	0.44
1:CA:992:U:O2'	1:CA:993:G:P	2.76	0.44
1:CA:1244:C:O2'	1:CA:1245:A:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:165:VAL:CG2	2:CB:166:ASP:H	2.15	0.44
2:CB:169:LYS:O	2:CB:169:LYS:HD3	2.18	0.44
2:CB:178:ARG:HD2	8:CH:71:GLY:C	2.42	0.44
3:CC:126:ARG:C	3:CC:127:ARG:HD2	2.43	0.44
4:CD:18:LYS:O	4:CD:19:LEU:HD12	2.17	0.44
4:CD:25:ARG:C	4:CD:27:TYR:N	2.74	0.44
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.18	0.44
6:CF:99:ALA:O	6:CF:100:ASN:HB2	2.17	0.44
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.51	0.44
7:CG:79:ARG:O	7:CG:79:ARG:HD2	2.17	0.44
8:CH:40:ALA:HA	8:CH:45:ILE:HG13	1.98	0.44
8:CH:119:LEU:HB3	8:CH:123:GLU:HB3	2.00	0.44
9:CI:95:LYS:C	9:CI:95:LYS:CD	2.90	0.44
9:CI:117:HIS:C	9:CI:118:LYS:HG3	2.42	0.44
9:CI:125:TYR:HD2	9:CI:126:SER:H	1.66	0.44
11:CK:29:ILE:HB	11:CK:44:SER:CB	2.47	0.44
12:CL:47:LYS:HB3	12:CL:47:LYS:NZ	2.32	0.44
12:CL:83:VAL:HG12	12:CL:84:LEU:N	2.32	0.44
12:CL:86:ARG:NH2	12:CL:99:HIS:CG	2.85	0.44
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.32	0.44
16:CP:67:THR:HG22	16:CP:68:ASP:H	1.82	0.44
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.51	0.44
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.18	0.44
24:CY:356:LEU:HD12	24:CY:365:GLU:HA	1.99	0.44
24:CY:532:GLY:O	24:CY:533:VAL:C	2.60	0.44
28:D3:4:LEU:HD23	28:D3:58:VAL:HA	1.99	0.44
29:D4:22:ILE:HG22	29:D4:24:THR:HG23	1.99	0.44
29:D4:31:ILE:HG23	29:D4:33:VAL:HG23	1.99	0.44
30:D5:7:PRO:HG2	35:DA:2016:U:O2	2.17	0.44
35:DA:36:G:H4'	35:DA:451:C:C2	2.53	0.44
35:DA:322:A:P	40:DF:169:ASN:HD22	2.40	0.44
35:DA:534:U:O2'	53:DU:49:HIS:CD2	2.71	0.44
35:DA:1266:G:O2'	35:DA:2012:G:O6	2.33	0.44
35:DA:1899:G:N2	35:DA:1902:C:C5	2.85	0.44
35:DA:1948:G:C8	35:DA:1948:G:C5'	2.99	0.44
35:DA:2656:U:C4	35:DA:2665:A:H2	2.35	0.44
36:DB:28:C:O2'	36:DB:29:A:H5'	2.17	0.44
36:DB:118:G:C2	36:DB:119:G:N7	2.86	0.44
38:DD:77:ALA:HA	38:DD:97:TYR:HA	1.99	0.44
38:DD:91:ARG:O	38:DD:107:ALA:HB3	2.17	0.44
38:DD:126:GLN:O	38:DD:127:VAL:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:259:THR:O	38:DD:260:ARG:O	2.36	0.44
39:DE:51:PHE:HD1	39:DE:52:LEU:N	2.15	0.44
42:DH:110:SER:O	42:DH:111:HIS:HB2	2.18	0.44
44:DK:77:LEU:HD13	44:DK:110:GLN:OE1	2.17	0.44
45:DL:76:UNK:C	45:DL:78:UNK:N	2.80	0.44
46:DN:56:ASN:CG	46:DN:126:PRO:HD3	2.42	0.44
46:DN:79:PRO:C	46:DN:81:GLY:N	2.76	0.44
47:DO:120:GLU:OE2	47:DO:122:LEU:HD21	2.17	0.44
48:DP:13:ASN:C	48:DP:13:ASN:HD22	2.26	0.44
49:DQ:65:PHE:CD2	49:DQ:65:PHE:N	2.85	0.44
53:DU:46:ALA:O	53:DU:47:TYR:C	2.60	0.44
53:DU:72:HIS:HE1	53:DU:107:ALA:HB2	1.81	0.44
53:DU:83:LEU:HG	53:DU:88:ILE:HD11	1.99	0.44
54:DV:4:ILE:HG22	54:DV:4:ILE:O	2.18	0.44
54:DV:88:ARG:O	54:DV:90:PRO:HD3	2.17	0.44
55:DW:18:ARG:HH11	55:DW:18:ARG:HG2	1.81	0.44
56:DX:46:ALA:C	56:DX:47:PHE:CD1	2.96	0.44
56:DX:59:VAL:O	56:DX:59:VAL:HG12	2.17	0.44
58:DZ:5:LEU:HD23	58:DZ:5:LEU:HA	1.80	0.44
58:DZ:132:ASN:C	58:DZ:133:ILE:HD13	2.42	0.44
1:AA:61:G:H2'	1:AA:62:U:O4'	2.16	0.44
1:AA:66:G:H4'	1:AA:173:U:H5	1.80	0.44
1:AA:80:G:C3'	1:AA:81:U:H5'	2.35	0.44
1:AA:399:G:H2'	1:AA:400:C:C6	2.52	0.44
1:AA:657:G:O2'	1:AA:658:G:H5'	2.18	0.44
1:AA:1003:G:N2	1:AA:1004:A:H1'	2.32	0.44
1:AA:1026:G:H3'	1:AA:1027:C:C5'	2.48	0.44
4:AD:121:VAL:CA	4:AD:126:ILE:HD13	2.48	0.44
8:AH:30:ARG:HH11	8:AH:30:ARG:HB2	1.82	0.44
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.33	0.44
12:AL:47:LYS:HB3	12:AL:47:LYS:HZ2	1.82	0.44
13:AM:3:ARG:HH21	13:AM:7:VAL:HG13	1.82	0.44
13:AM:74:VAL:CA	13:AM:77:ASN:HD22	2.29	0.44
19:AS:23:ASN:OD1	19:AS:44:MET:HE2	2.16	0.44
20:AT:28:ALA:C	20:AT:30:LYS:N	2.76	0.44
22:AW:34:U:O2'	22:AW:36:A:N7	2.51	0.44
22:AW:58:A:C2'	22:AW:59:A:H5'	2.48	0.44
24:AY:67:ALA:O	24:AY:68:ALA:C	2.60	0.44
24:AY:137:ASN:ND2	24:AY:137:ASN:C	2.76	0.44
24:AY:414:GLU:C	24:AY:474:ALA:HB1	2.43	0.44
24:AY:417:THR:C	24:AY:419:ALA:H	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:489:LYS:HA	24:AY:490:PRO:HD3	1.88	0.44
24:AY:681:LYS:HA	24:AY:684:GLN:HB2	2.00	0.44
28:B3:31:LEU:HD12	35:BA:1157:G:O2'	2.17	0.44
28:B3:44:ARG:O	28:B3:48:GLU:HG2	2.17	0.44
30:B5:19:ARG:HG3	35:BA:2046:G:H5''	2.00	0.44
31:B6:5:VAL:HB	35:BA:2284:C:P	2.57	0.44
31:B6:24:GLU:HG3	31:B6:37:ARG:HH21	1.81	0.44
31:B6:27:LYS:NZ	35:BA:2285:C:OP1	2.50	0.44
33:B8:56:GLU:O	33:B8:58:ILE:N	2.50	0.44
35:BA:86:C:H4'	35:BA:104:U:O2	2.18	0.44
35:BA:425:G:H2'	35:BA:426:C:H6	1.82	0.44
35:BA:641:C:H2'	35:BA:642:G:O4'	2.17	0.44
35:BA:1052:C:H3'	35:BA:1052:C:C6	2.51	0.44
35:BA:1132:A:C4	35:BA:1133:U:C5	3.04	0.44
35:BA:1218:C:H2'	35:BA:1219:G:C8	2.52	0.44
35:BA:1386:C:H5''	35:BA:1396:U:H5	1.81	0.44
35:BA:1682:G:H5'	35:BA:1762:A:O2'	2.17	0.44
35:BA:2334:G:C2	51:BS:15:ARG:NH1	2.86	0.44
36:BB:21:G:O2'	36:BB:22:U:P	2.76	0.44
37:BC:65:LEU:HD21	37:BC:162:ILE:HD11	2.00	0.44
37:BC:102:GLN:O	37:BC:105:LEU:N	2.50	0.44
37:BC:182:PRO:HB3	37:BC:184:GLU:OE2	2.17	0.44
38:BD:53:PHE:HA	38:BD:218:ARG:HB2	1.99	0.44
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.17	0.44
39:BE:65:GLY:O	39:BE:67:PHE:N	2.51	0.44
39:BE:107:THR:C	39:BE:190:GLY:HA2	2.38	0.44
39:BE:142:GLY:C	39:BE:143:ASN:HD22	2.25	0.44
41:BG:75:LYS:C	41:BG:76:SER:HG	2.23	0.44
42:BH:38:SER:HA	42:BH:39:PRO:HD3	1.84	0.44
42:BH:46:GLU:CG	42:BH:51:ARG:HB2	2.46	0.44
42:BH:72:ILE:O	42:BH:73:ALA:C	2.59	0.44
44:BK:3:LYS:HE3	44:BK:29:GLN:HB3	1.99	0.44
44:BK:104:VAL:HG23	44:BK:127:ILE:CG2	2.48	0.44
46:BN:16:ILE:O	46:BN:54:VAL:HA	2.18	0.44
47:BO:104:ARG:HE	52:BT:33:LYS:CE	2.22	0.44
51:BS:42:ASP:C	51:BS:44:LYS:N	2.76	0.44
52:BT:96:ARG:CZ	52:BT:96:ARG:HB3	2.47	0.44
53:BU:21:ALA:O	53:BU:22:LYS:C	2.60	0.44
53:BU:91:ASP:O	53:BU:92:ARG:HB3	2.17	0.44
56:BX:57:LEU:HD22	56:BX:57:LEU:C	2.42	0.44
1:CA:149:A:N3	1:CA:149:A:H2'	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:151:A:C2'	1:CA:152:A:H5'	2.48	0.44
1:CA:189:G:H2'	1:CA:189(A):C:H6	1.81	0.44
1:CA:414:A:O2'	1:CA:415:A:H5'	2.17	0.44
1:CA:646:U:H2'	1:CA:647:C:C6	2.53	0.44
1:CA:1227:A:C2	13:CM:117:VAL:HG11	2.53	0.44
1:CA:1255:G:H2'	1:CA:1279:A:H62	1.81	0.44
1:CA:1305:G:H5''	21:CU:4:GLY:O	2.18	0.44
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.82	0.44
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.18	0.44
4:CD:165:MET:HE3	4:CD:176:LEU:HD23	2.00	0.44
4:CD:200:GLU:CD	4:CD:200:GLU:N	2.70	0.44
9:CI:77:ILE:C	9:CI:79:LEU:N	2.74	0.44
10:CJ:16:LEU:HD12	10:CJ:70:ARG:HD2	2.00	0.44
15:CO:64:ARG:CZ	15:CO:64:ARG:HB2	2.48	0.44
16:CP:75:ARG:C	16:CP:77:ALA:N	2.75	0.44
22:CW:57:C:H6	22:CW:57:C:OP1	2.00	0.44
23:CX:12:A:N3	23:CX:12:A:C3'	2.75	0.44
24:CY:170:ARG:NH1	24:CY:205:TYR:OH	2.50	0.44
24:CY:614:GLU:CD	24:CY:614:GLU:C	2.85	0.44
24:CY:619:ASP:O	24:CY:620:VAL:C	2.60	0.44
26:D1:76:ARG:HH12	26:D1:95:LEU:CD2	2.15	0.44
28:D3:35:ARG:HD3	28:D3:37:LEU:HD21	1.99	0.44
30:D5:25:LEU:HD12	55:DW:19:LEU:C	2.43	0.44
32:D7:24:THR:C	32:D7:26:GLY:N	2.75	0.44
33:D8:56:GLU:O	33:D8:58:ILE:N	2.50	0.44
34:D9:29:ASN:C	34:D9:31:LYS:H	2.26	0.44
35:DA:979:G:N2	35:DA:985:C:N4	2.65	0.44
35:DA:1709:U:H3	35:DA:1749:A:H61	1.65	0.44
35:DA:2131:G:C8	35:DA:2133:G:N3	2.86	0.44
35:DA:2319:G:C2	35:DA:2320:A:N1	2.85	0.44
35:DA:2557:G:H2'	35:DA:2558:C:C6	2.51	0.44
35:DA:2762:G:H2'	35:DA:2763:G:H5'	1.98	0.44
35:DA:2887:U:H2'	35:DA:2888:C:C6	2.53	0.44
38:DD:5:LYS:HD2	38:DD:17:THR:HG22	1.98	0.44
38:DD:73:VAL:O	38:DD:75:ILE:N	2.50	0.44
38:DD:77:ALA:O	38:DD:116:GLN:HG3	2.18	0.44
38:DD:239:ARG:HG2	38:DD:239:ARG:HH21	1.82	0.44
39:DE:50:GLY:HA3	39:DE:74:PRO:HG3	1.99	0.44
39:DE:184:VAL:C	39:DE:186:GLY:H	2.23	0.44
41:DG:38:VAL:HG12	41:DG:93:THR:HA	2.00	0.44
43:DJ:55:UNK:O	43:DJ:56:UNK:C	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:14:THR:O	47:DO:14:THR:HG22	2.17	0.44
49:DQ:35:VAL:CG2	49:DQ:36:ALA:N	2.81	0.44
49:DQ:62:GLY:CA	58:DZ:116:VAL:HG21	2.45	0.44
49:DQ:110:THR:HG23	49:DQ:113:GLN:HG3	1.99	0.44
52:DT:74:ARG:C	52:DT:75:ILE:HD12	2.41	0.44
53:DU:78:THR:O	53:DU:79:PHE:C	2.59	0.44
54:DV:40:LEU:N	54:DV:40:LEU:CD2	2.80	0.44
1:AA:197:A:H4'	1:AA:198:G:H5'	1.98	0.44
1:AA:421:U:O2	1:AA:421:U:H2'	2.17	0.44
1:AA:833:U:H2'	1:AA:834:C:H6	1.80	0.44
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.17	0.44
1:AA:1430:C:H2'	1:AA:1431:C:C6	2.53	0.44
2:AB:213:LEU:HD23	2:AB:213:LEU:O	2.18	0.44
3:AC:90:GLU:OE1	3:AC:93:LYS:HD2	2.17	0.44
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.85	0.44
5:AE:33:VAL:CG1	5:AE:34:VAL:N	2.80	0.44
7:AG:21:VAL:HG23	7:AG:22:LEU:N	2.32	0.44
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.79	0.44
9:AI:125:TYR:CD2	9:AI:126:SER:N	2.85	0.44
12:AL:7:ILE:HG22	12:AL:8:ASN:N	2.32	0.44
12:AL:86:ARG:HH22	12:AL:99:HIS:CD2	2.35	0.44
15:AO:64:ARG:HB2	15:AO:64:ARG:CZ	2.47	0.44
16:AP:55:ARG:O	16:AP:56:ALA:C	2.60	0.44
19:AS:58:VAL:O	19:AS:58:VAL:CG2	2.65	0.44
21:AU:24:ARG:HH11	21:AU:24:ARG:HG2	1.82	0.44
22:AV:54:5MU:C2'	22:AV:55:U:H5'	2.47	0.44
24:AY:199:ILE:HD12	24:AY:199:ILE:C	2.42	0.44
24:AY:409:ILE:HD12	24:AY:654:GLY:HA2	1.97	0.44
24:AY:468:ARG:C	24:AY:470:PHE:N	2.73	0.44
24:AY:486:THR:HG22	24:AY:602:LEU:HG	1.99	0.44
24:AY:529:ILE:HD11	24:AY:567:LEU:CD1	2.48	0.44
25:B0:60:PHE:HE2	35:BA:2365:G:C4'	2.27	0.44
27:B2:2:LYS:HE3	27:B2:52:ASP:OD1	2.18	0.44
29:B4:35:VAL:HG12	29:B4:36:CYS:N	2.32	0.44
30:B5:44:THR:CG2	30:B5:45:VAL:H	2.22	0.44
31:B6:5:VAL:CG2	35:BA:2283:C:OP1	2.65	0.44
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.53	0.44
33:B8:32:LEU:O	33:B8:33:ASN:O	2.35	0.44
35:BA:191:A:O2'	35:BA:192:C:H5'	2.17	0.44
35:BA:198:C:N4	35:BA:248:G:H1	2.14	0.44
35:BA:205:G:O2'	35:BA:206:U:P	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:484:C:H2'	35:BA:485:C:C6	2.52	0.44
35:BA:637:A:OP1	48:BP:133:SER:CB	2.66	0.44
35:BA:777:A:H2'	35:BA:778:G:C8	2.52	0.44
35:BA:841:A:H2'	35:BA:842:G:O4'	2.17	0.44
35:BA:848:G:N9	35:BA:933:A:H8	2.15	0.44
35:BA:892:G:O2'	35:BA:893:C:H5'	2.18	0.44
35:BA:914:C:C2'	35:BA:915:C:H5'	2.42	0.44
35:BA:1213:A:N3	35:BA:1238:G:H1'	2.32	0.44
35:BA:1408:C:H42	35:BA:1594:G:H1	1.66	0.44
35:BA:1445(A):C:H5'	35:BA:1446:C:OP2	2.17	0.44
35:BA:1820:U:C2	38:BD:202:LYS:HG2	2.53	0.44
35:BA:1971:A:N3	38:BD:240:ALA:HA	2.33	0.44
35:BA:2543:G:C2	35:BA:2765:A:H2'	2.52	0.44
35:BA:2550:G:C6	35:BA:2551:C:N4	2.86	0.44
37:BC:115:VAL:HA	37:BC:145:THR:CG2	2.46	0.44
37:BC:211:ARG:HG3	37:BC:211:ARG:NH1	2.32	0.44
38:BD:70:TRP:HH2	38:BD:150:LYS:HA	1.76	0.44
39:BE:51:PHE:HD1	39:BE:52:LEU:HD12	1.82	0.44
41:BG:97:ASP:CB	41:BG:98:ARG:HH12	2.19	0.44
42:BH:76:VAL:C	42:BH:78:GLY:N	2.74	0.44
46:BN:119:ARG:HG3	46:BN:119:ARG:NH1	2.33	0.44
47:BO:104:ARG:NH2	52:BT:33:LYS:CE	2.80	0.44
48:BP:147:LEU:C	48:BP:148:LEU:HD12	2.43	0.44
50:BR:33:ARG:HG3	50:BR:115:GLU:HG3	2.00	0.44
52:BT:28:VAL:O	52:BT:28:VAL:HG12	2.17	0.44
52:BT:57:PHE:CG	52:BT:58:ASN:N	2.82	0.44
53:BU:92:ARG:HB3	54:BV:11:GLN:NE2	2.33	0.44
55:BW:47:VAL:O	55:BW:47:VAL:CG1	2.66	0.44
56:BX:59:VAL:O	56:BX:59:VAL:HG12	2.16	0.44
1:CA:37:U:O2'	1:CA:500:G:H4'	2.17	0.44
1:CA:1065:U:O2'	1:CA:1066:C:P	2.76	0.44
1:CA:1347:G:H2'	1:CA:1373:G:C6	2.52	0.44
8:CH:35:ILE:HG23	8:CH:111:ILE:HD13	2.00	0.44
13:CM:66:LEU:N	13:CM:66:LEU:CD1	2.72	0.44
20:CT:42:GLN:NE2	20:CT:42:GLN:CA	2.78	0.44
20:CT:75:ASN:H	20:CT:75:ASN:HD22	1.65	0.44
22:CV:4:G:HO2'	22:CV:5:G:H8	1.63	0.44
23:CX:17:U:O2'	23:CX:18:G:H5'	2.18	0.44
24:CY:71:THR:HB	24:CY:78:ARG:HH12	1.82	0.44
24:CY:92:ILE:C	24:CY:94:VAL:N	2.75	0.44
24:CY:447:GLY:O	24:CY:449:THR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:616:TYR:HB3	24:CY:662:LYS:O	2.17	0.44
25:D0:26:TYR:CE2	35:DA:857:C:H1'	2.48	0.44
27:D2:69:ARG:HH22	35:DA:111:A:H4'	1.83	0.44
31:D6:11:LEU:CB	31:D6:26:ASN:HD21	2.31	0.44
33:D8:4:MET:O	33:D8:62:LEU:CD1	2.65	0.44
35:DA:460:A:C2	35:DA:470:A:C4	3.05	0.44
35:DA:662:G:P	48:DP:18:ARG:HD2	2.57	0.44
35:DA:943:U:OP2	48:DP:38:GLN:OE1	2.36	0.44
35:DA:1782:C:H1'	35:DA:2609:U:C5'	2.38	0.44
35:DA:2288:A:C2	35:DA:2325:G:N7	2.86	0.44
35:DA:2682:U:C6	39:DE:11:MET:HE2	2.52	0.44
35:DA:2722:G:O2'	50:DR:5:LYS:HB2	2.18	0.44
35:DA:2779:U:H5'	35:DA:2780:G:O5'	2.17	0.44
36:DB:9:G:C6	36:DB:113:G:C6	3.06	0.44
36:DB:29:A:OP2	51:DS:32:LEU:HG	2.18	0.44
37:DC:115:VAL:HG12	37:DC:145:THR:CG2	2.46	0.44
38:DD:266:SER:C	38:DD:267:SER:O	2.59	0.44
39:DE:9:VAL:HG22	39:DE:10:GLY:H	1.81	0.44
39:DE:23:VAL:CG1	39:DE:173:VAL:HG21	2.47	0.44
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	2.17	0.44
39:DE:132:HIS:CG	39:DE:135:HIS:NE2	2.85	0.44
41:DG:60:LEU:O	41:DG:64:THR:HG22	2.17	0.44
44:DK:30:HIS:CA	44:DK:59:ILE:HD12	2.39	0.44
44:DK:105:LEU:CD2	44:DK:120:LEU:HD13	2.47	0.44
46:DN:32:THR:HG23	46:DN:37:LYS:HB3	1.99	0.44
47:DO:37:ASP:O	47:DO:62:VAL:HG23	2.17	0.44
50:DR:48:VAL:HG12	50:DR:52:ILE:HG12	1.99	0.44
1:AA:189:G:H2'	1:AA:189(A):C:H6	1.81	0.44
1:AA:321:A:C2	1:AA:333:G:C2	3.06	0.44
1:AA:346:G:P	52:BT:41:ARG:NH2	2.90	0.44
1:AA:357:G:O2'	1:AA:358:U:H5'	2.17	0.44
1:AA:373:A:H2'	1:AA:374:A:H8	1.81	0.44
1:AA:396:G:O2'	1:AA:398:C:OP1	2.28	0.44
1:AA:659:U:O2'	1:AA:660:G:H5'	2.18	0.44
2:AB:236:TYR:O	2:AB:237:ALA:C	2.60	0.44
3:AC:111:LEU:CD2	3:AC:141:VAL:HG13	2.48	0.44
5:AE:33:VAL:HG12	5:AE:112:LEU:HD12	2.00	0.44
8:AH:35:ILE:HG23	8:AH:111:ILE:HD13	2.00	0.44
8:AH:85:ARG:HH12	8:AH:134:ILE:HG23	1.82	0.44
13:AM:46:LYS:O	13:AM:46:LYS:HD3	2.17	0.44
15:AO:18:PHE:CD1	15:AO:18:PHE:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.51	0.44
17:AQ:43:LEU:HD23	17:AQ:43:LEU:HA	1.74	0.44
20:AT:30:LYS:HZ2	20:AT:34:LYS:CE	2.30	0.44
24:AY:196:ILE:CG1	24:AY:197:ARG:N	2.78	0.44
24:AY:219:VAL:C	24:AY:221:ALA:H	2.24	0.44
24:AY:227:ILE:O	24:AY:227:ILE:CG2	2.66	0.44
24:AY:297:GLU:O	24:AY:297:GLU:HG3	2.16	0.44
24:AY:524:GLU:O	24:AY:565:VAL:N	2.32	0.44
24:AY:539:ILE:CD1	24:AY:567:LEU:HD21	2.48	0.44
24:AY:659:LEU:C	24:AY:659:LEU:HD13	2.42	0.44
26:B1:56:GLN:HE21	26:B1:56:GLN:CA	2.15	0.44
29:B4:5:ILE:HD13	29:B4:6:HIS:CD2	2.53	0.44
35:BA:63:U:OP1	35:BA:63:U:H4'	2.17	0.44
35:BA:527:C:O2	35:BA:527:C:O4'	2.35	0.44
35:BA:997:G:OP1	53:BU:93:LYS:HD3	2.17	0.44
35:BA:1185:C:C5'	35:BA:1186:G:P	3.06	0.44
35:BA:1445(A):C:H2'	35:BA:1445(A):C:O2	2.16	0.44
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.52	0.44
36:BB:118:G:C2	36:BB:119:G:N7	2.86	0.44
38:BD:81:ALA:HA	38:BD:113:VAL:HG22	1.99	0.44
42:BH:103:LEU:HB2	42:BH:123:PHE:CD2	2.53	0.44
46:BN:43:THR:HG22	46:BN:45:ASN:ND2	2.33	0.44
49:BQ:55:VAL:O	49:BQ:56:ARG:C	2.61	0.44
49:BQ:75:THR:HG22	49:BQ:76:LYS:H	1.82	0.44
49:BQ:120:ILE:O	49:BQ:121:ALA:C	2.58	0.44
50:BR:18:LEU:HD21	50:BR:22:ARG:CZ	2.48	0.44
50:BR:92:GLY:HA2	50:BR:94:TYR:CE1	2.53	0.44
52:BT:49:VAL:O	52:BT:49:VAL:HG22	2.17	0.44
53:BU:92:ARG:O	53:BU:93:LYS:C	2.60	0.44
54:BV:28:GLU:CB	54:BV:31:ALA:HB2	2.36	0.44
58:BZ:41:LEU:HD23	58:BZ:41:LEU:HA	1.73	0.44
1:CA:421:U:O2	1:CA:421:U:H2'	2.17	0.44
1:CA:781:A:C3'	1:CA:782:A:H5'	2.48	0.44
1:CA:923:A:O4'	1:CA:1398:A:C2	2.70	0.44
1:CA:930:C:O2'	1:CA:931:C:H5'	2.18	0.44
1:CA:957:U:O2	1:CA:959:A:H8	2.01	0.44
1:CA:1080:A:H5''	5:CE:16:THR:HG21	1.99	0.44
1:CA:1371:G:C6	1:CA:1372:U:C4	3.06	0.44
1:CA:1418:A:H3'	1:CA:1419:G:O4'	2.17	0.44
3:CC:43:LEU:O	3:CC:45:LYS:N	2.50	0.44
4:CD:30:LYS:HB3	4:CD:35:ARG:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:9:LYS:NZ	5:CE:111:GLU:OE1	2.51	0.44
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	2.18	0.44
11:CK:120:ARG:HA	11:CK:121:PRO:HD3	1.84	0.44
13:CM:73:GLU:O	13:CM:74:VAL:C	2.60	0.44
15:CO:80:ALA:O	15:CO:81:LEU:C	2.61	0.44
18:CR:71:LYS:O	18:CR:74:ARG:HB2	2.16	0.44
22:CW:68:C:H2'	22:CW:69:C:C5	2.52	0.44
24:CY:230:LYS:NZ	24:CY:237:PRO:CA	2.76	0.44
25:D0:78:TYR:H	25:D0:78:TYR:HD1	1.65	0.44
27:D2:13:ALA:HA	27:D2:16:LEU:HD12	1.98	0.44
31:D6:12:GLU:HA	31:D6:23:THR:HA	1.99	0.44
35:DA:41:C:N4	35:DA:437:G:H1	2.15	0.44
35:DA:271(M):G:H2'	35:DA:271(N):U:H5''	1.99	0.44
35:DA:1011:G:O2'	35:DA:1013:C:H5''	2.17	0.44
35:DA:2174:C:O2'	35:DA:2175:C:H5'	2.17	0.44
35:DA:2352:A:H2'	35:DA:2353:G:H5'	2.00	0.44
35:DA:2577:A:C5'	35:DA:2578:G:C5'	2.96	0.44
35:DA:2778:A:C5'	35:DA:2779:U:OP2	2.59	0.44
35:DA:2840:C:H2'	35:DA:2841:C:C6	2.53	0.44
36:DB:67:G:O2'	36:DB:68:C:H5'	2.18	0.44
37:DC:149:ASN:HD22	37:DC:149:ASN:C	2.26	0.44
38:DD:81:ALA:HA	38:DD:113:VAL:HG22	1.99	0.44
39:DE:25:VAL:HG22	39:DE:183:LEU:HG	2.00	0.44
39:DE:93:VAL:HG12	39:DE:175:VAL:CG2	2.47	0.44
39:DE:119:ARG:NH1	39:DE:156:MET:O	2.51	0.44
41:DG:37:VAL:CG2	41:DG:159:VAL:HA	2.48	0.44
41:DG:153:ARG:HB3	41:DG:153:ARG:HH11	1.83	0.44
44:DK:104:VAL:HG23	44:DK:127:ILE:CG2	2.48	0.44
44:DK:121:GLU:CD	44:DK:121:GLU:H	2.25	0.44
47:DO:12:ASP:C	47:DO:14:THR:H	2.25	0.44
49:DQ:17:LEU:O	49:DQ:18:LYS:HD2	2.17	0.44
50:DR:12:ARG:HD3	50:DR:16:HIS:CD2	2.53	0.44
51:DS:68:GLN:C	51:DS:70:GLY:N	2.73	0.44
53:DU:55:ARG:HA	53:DU:58:ARG:CB	2.47	0.44
53:DU:112:ARG:HH11	53:DU:112:ARG:HG2	1.82	0.44
57:DY:31:LEU:N	57:DY:31:LEU:CD2	2.78	0.44
58:DZ:69:THR:HG22	58:DZ:90:VAL:CA	2.20	0.44
58:DZ:144:LEU:HD22	58:DZ:144:LEU:N	2.33	0.44
1:AA:40:C:H2'	1:AA:41:G:H8	1.82	0.44
1:AA:154:C:H2'	1:AA:155:C:C6	2.53	0.44
1:AA:220:G:N2	1:AA:221:C:H1'	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:994:A:H2'	1:AA:994:A:N3	2.32	0.44
1:AA:1296:C:H3'	1:AA:1297:C:H6	1.83	0.44
1:AA:1298:C:H5''	7:AG:114:ARG:NH2	2.31	0.44
1:AA:1308:U:C5	13:AM:99:ARG:NH1	2.85	0.44
1:AA:1375:A:OP1	7:AG:12:LEU:HD21	2.18	0.44
2:AB:137:ARG:HG2	2:AB:137:ARG:NH1	2.33	0.44
2:AB:189:ASP:C	2:AB:191:ASP:N	2.75	0.44
3:AC:60:ALA:N	3:AC:63:ASN:OD1	2.51	0.44
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.85	0.44
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.81	0.44
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.32	0.44
12:AL:110:VAL:CG2	12:AL:120:TYR:HB3	2.48	0.44
13:AM:21:TYR:C	13:AM:22:ILE:HD12	2.43	0.44
13:AM:35:GLU:CG	13:AM:36:LYS:N	2.80	0.44
17:AQ:99:SER:O	17:AQ:100:LYS:HG3	2.17	0.44
18:AR:58:LEU:N	18:AR:58:LEU:CD1	2.80	0.44
24:AY:120:THR:O	24:AY:121:VAL:C	2.60	0.44
24:AY:162:VAL:HG23	24:AY:255:ILE:HG13	1.99	0.44
24:AY:369:LEU:HD12	24:AY:369:LEU:N	2.33	0.44
24:AY:486:THR:O	24:AY:599:PRO:HA	2.17	0.44
24:AY:519:ARG:CZ	24:AY:678:GLU:H	2.30	0.44
24:AY:539:ILE:O	24:AY:540:PRO:C	2.58	0.44
24:AY:652:MET:HA	24:AY:652:MET:HE3	1.99	0.44
29:B4:1:MET:SD	41:BG:98:ARG:HG3	2.58	0.44
34:B9:29:ASN:C	34:B9:31:LYS:N	2.76	0.44
35:BA:863:A:O2'	36:BB:101:G:HI'	2.18	0.44
35:BA:930:U:H4'	35:BA:931:G:O5'	2.18	0.44
35:BA:1034:G:H8	35:BA:1034:G:OP1	1.99	0.44
35:BA:1472:A:H2'	35:BA:1473:G:H8	1.81	0.44
35:BA:1551:C:H2'	35:BA:1552:G:O4'	2.18	0.44
35:BA:1632:A:C5	35:BA:1633:G:C6	3.05	0.44
35:BA:1722:A:C2	35:BA:1740:G:C8	3.06	0.44
35:BA:2088:G:C6	35:BA:2089:U:C4	3.05	0.44
35:BA:2656:U:C4	35:BA:2665:A:H2	2.35	0.44
35:BA:2689:U:H4'	35:BA:2690:C:OP2	2.17	0.44
37:BC:16:ASP:O	37:BC:18:ASN:N	2.50	0.44
38:BD:196:VAL:HG12	38:BD:196:VAL:O	2.16	0.44
39:BE:55:ASN:C	39:BE:57:LYS:N	2.76	0.44
40:BF:132:VAL:O	40:BF:133:ASN:HB2	2.18	0.44
42:BH:94:TYR:CD2	42:BH:107:VAL:HG12	2.53	0.44
42:BH:169:VAL:CG2	42:BH:170:ARG:N	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:60:ILE:HG22	46:BN:61:ARG:N	2.33	0.44
49:BQ:137:TYR:N	49:BQ:137:TYR:CD1	2.85	0.44
50:BR:21:TYR:OH	50:BR:43:GLU:HG2	2.16	0.44
51:BS:56:LEU:O	51:BS:58:LEU:N	2.51	0.44
52:BT:50:ILE:N	52:BT:50:ILE:CD1	2.80	0.44
52:BT:116:ALA:HB1	52:BT:121:ILE:HD11	1.99	0.44
53:BU:112:ARG:HH11	53:BU:112:ARG:HG2	1.83	0.44
55:BW:8:ARG:O	55:BW:9:TYR:C	2.61	0.44
57:BY:2:ARG:HD3	57:BY:2:ARG:C	2.43	0.44
57:BY:47:LYS:O	57:BY:48:ALA:C	2.61	0.44
58:BZ:9:TYR:CE1	58:BZ:35:ARG:NH1	2.79	0.44
58:BZ:115:GLY:HA2	58:BZ:177:PRO:HD3	1.99	0.44
58:BZ:141:VAL:HG13	58:BZ:144:LEU:HD23	1.99	0.44
1:CA:10:A:H2'	1:CA:11:G:C8	2.52	0.44
1:CA:271:C:H2'	1:CA:272:C:H6	1.82	0.44
1:CA:356:A:H1'	1:CA:368:U:O2'	2.18	0.44
1:CA:541:G:O2'	1:CA:542:G:H5'	2.17	0.44
1:CA:747:C:H2'	1:CA:748:C:C1'	2.48	0.44
1:CA:909:A:H2'	1:CA:910:C:O4'	2.18	0.44
1:CA:1118:C:OP1	9:CI:104:ARG:NH1	2.51	0.44
1:CA:1343:G:H1'	9:CI:121:ARG:HH12	1.83	0.44
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.52	0.44
9:CI:82:ALA:HA	9:CI:85:LEU:CD1	2.48	0.44
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.42	0.44
12:CL:6:THR:H	12:CL:9:GLN:HE21	1.65	0.44
12:CL:27:LEU:O	12:CL:28:LYS:C	2.60	0.44
18:CR:66:LEU:CG	18:CR:70:ILE:HD11	2.47	0.44
18:CR:79:LEU:HD22	18:CR:80:PRO:HD2	2.00	0.44
20:CT:104:LEU:HD23	20:CT:105:SER:O	2.17	0.44
24:CY:223:PHE:HB3	24:CY:248:LYS:HD3	1.98	0.44
24:CY:327:PHE:HA	24:CY:376:ALA:HA	2.00	0.44
24:CY:428:LEU:O	24:CY:429:ALA:C	2.61	0.44
24:CY:489:LYS:HA	24:CY:490:PRO:HD3	1.71	0.44
24:CY:644:ARG:O	24:CY:645:ALA:HB2	2.17	0.44
34:D9:4:ARG:NH1	35:DA:2477:C:N4	2.66	0.44
35:DA:294:A:H2'	35:DA:295:G:H5'	1.99	0.44
35:DA:300:A:P	57:DY:97:ARG:HE	2.40	0.44
35:DA:458:G:N2	35:DA:469:G:H2'	2.33	0.44
35:DA:483:A:C2	35:DA:484:C:H1'	2.52	0.44
35:DA:484:C:H2'	35:DA:485:C:C6	2.52	0.44
35:DA:783:A:H2'	35:DA:784:A:O5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1331:A:O2'	35:DA:1332:G:H8	2.01	0.44
35:DA:1343:G:N3	35:DA:1384:A:H2	2.16	0.44
35:DA:1381:G:N2	35:DA:1382:G:H1'	2.32	0.44
35:DA:2032:G:OP2	35:DA:2454:G:O2'	2.30	0.44
35:DA:2122:U:H4'	37:DC:167:ASP:HB3	2.00	0.44
35:DA:2531:A:H4'	42:DH:157:TYR:CD2	2.53	0.44
35:DA:2681:C:H5	35:DA:2725:A:N6	2.14	0.44
35:DA:2849:U:O4	52:DT:23:ARG:NH2	2.51	0.44
37:DC:78:ILE:HG21	37:DC:124:VAL:CG2	2.47	0.44
38:DD:48:ARG:HG3	38:DD:48:ARG:NH1	2.33	0.44
38:DD:146:GLU:HG2	38:DD:152:GLY:O	2.18	0.44
38:DD:165:ILE:HD13	38:DD:175:LEU:HD21	1.98	0.44
40:DF:116:ASP:OD2	48:DP:5:ASP:HB2	2.18	0.44
40:DF:119:ARG:HG2	40:DF:119:ARG:NH1	2.32	0.44
41:DG:41:GLN:C	41:DG:43:LEU:N	2.75	0.44
41:DG:77:ILE:O	41:DG:80:PHE:C	2.61	0.44
47:DO:61:VAL:O	47:DO:84:ALA:HA	2.17	0.44
47:DO:119:PRO:O	47:DO:120:GLU:HB2	2.17	0.44
48:DP:11:GLY:O	48:DP:12:ALA:O	2.36	0.44
48:DP:83:VAL:CG1	48:DP:114:ILE:HA	2.47	0.44
49:DQ:24:GLY:CA	49:DQ:67:ARG:HH12	2.30	0.44
51:DS:89:ARG:CG	51:DS:92:TYR:CB	2.95	0.44
53:DU:15:LYS:HA	53:DU:18:LEU:HD12	1.99	0.44
53:DU:102:GLU:HG3	54:DV:2:PHE:CE1	2.53	0.44
54:DV:89:GLN:OE1	54:DV:89:GLN:HA	2.18	0.44
58:DZ:29:TYR:O	58:DZ:90:VAL:HG23	2.18	0.44
58:DZ:45:ASP:C	58:DZ:47:VAL:N	2.75	0.44
58:DZ:48:PHE:CD1	58:DZ:52:SER:HA	2.53	0.44
58:DZ:85:HIS:ND1	58:DZ:85:HIS:C	2.75	0.44
58:DZ:99:TYR:HE2	58:DZ:125:LEU:HB2	1.82	0.44
58:DZ:120:ILE:O	58:DZ:120:ILE:HG22	2.17	0.44
1:AA:80:G:N1	1:AA:90:U:H5'	2.32	0.44
1:AA:103:C:H3'	1:AA:104:G:C8	2.43	0.44
1:AA:559:A:OP2	5:AE:126:ARG:NH2	2.49	0.44
1:AA:785:G:C2'	1:AA:786:G:H5'	2.48	0.44
1:AA:1047:G:H5''	14:AN:4:LYS:HD3	2.00	0.44
1:AA:1095:U:OP1	1:AA:1108:G:N2	2.50	0.44
1:AA:1227:A:C2	13:AM:117:VAL:HG11	2.53	0.44
1:AA:1237:C:H5''	1:AA:1238:A:C8	2.53	0.44
2:AB:142:LEU:O	2:AB:143:GLU:C	2.61	0.44
6:AF:27:GLN:O	6:AF:28:ARG:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:50:ILE:O	7:AG:54:THR:HG23	2.18	0.44
7:AG:108:ALA:O	7:AG:111:ARG:HB2	2.18	0.44
9:AI:28:VAL:O	9:AI:29:ASN:C	2.61	0.44
9:AI:55:ALA:HA	9:AI:58:HIS:HD2	1.82	0.44
9:AI:95:LYS:C	9:AI:95:LYS:CD	2.90	0.44
10:AJ:6:ILE:HD12	10:AJ:6:ILE:C	2.42	0.44
10:AJ:63:PHE:CD2	10:AJ:63:PHE:N	2.82	0.44
10:AJ:83:GLU:O	10:AJ:84:GLN:C	2.60	0.44
13:AM:23:TYR:HE1	13:AM:70:LEU:HD22	1.83	0.44
15:AO:83:GLU:C	15:AO:85:LEU:N	2.69	0.44
19:AS:25:LYS:O	19:AS:26:GLY:C	2.61	0.44
24:AY:230:LYS:NZ	24:AY:237:PRO:HA	2.33	0.44
24:AY:388:THR:HG21	24:AY:399:LEU:HD13	2.00	0.44
24:AY:580:MET:SD	35:BA:1913:A:C6	3.11	0.44
25:B0:3:HIS:NE2	35:BA:2602:A:H2	2.16	0.44
25:B0:60:PHE:CD1	25:B0:60:PHE:C	2.96	0.44
26:B1:58:ILE:HD11	26:B1:91:LYS:HA	1.98	0.44
31:B6:54:ILE:HD11	35:BA:2420:C:H5'	1.99	0.44
33:B8:59:LYS:HE3	33:B8:59:LYS:HB2	1.72	0.44
34:B9:1:MET:SD	35:BA:2478:A:OP2	2.76	0.44
34:B9:29:ASN:N	34:B9:29:ASN:HD22	2.15	0.44
35:BA:143:G:H2'	35:BA:143(A):C:C6	2.53	0.44
35:BA:245:G:H5'	48:BP:73:GLY:HA2	2.00	0.44
35:BA:265:A:N6	35:BA:428:A:H1'	2.33	0.44
35:BA:445:C:O2	35:BA:449:A:H2	2.00	0.44
35:BA:483:A:C2	35:BA:484:C:H1'	2.53	0.44
35:BA:1509(B):A:H2'	35:BA:1510:G:C8	2.53	0.44
35:BA:1582:C:O2'	35:BA:1583:A:H5'	2.17	0.44
35:BA:1747(A):G:C2'	35:BA:1748:G:C5'	2.75	0.44
35:BA:1799:G:N2	35:BA:1818:U:H2'	2.33	0.44
35:BA:1963:U:O2	35:BA:1963:U:C2'	2.59	0.44
35:BA:2140:C:H1'	35:BA:2152:G:N2	2.33	0.44
35:BA:2150:U:H2'	35:BA:2151:G:H8	1.80	0.44
35:BA:2696:U:H2'	35:BA:2697:G:C8	2.53	0.44
35:BA:2747:G:O2'	42:BH:67:LEU:HD12	2.17	0.44
35:BA:2754:U:C2'	35:BA:2755:C:H5'	2.48	0.44
35:BA:2884:U:H2'	35:BA:2885:C:H5'	2.00	0.44
36:BB:89:G:N1	36:BB:90:A:C2	2.86	0.44
38:BD:139:GLY:H	38:BD:165:ILE:HB	1.82	0.44
40:BF:89:VAL:C	40:BF:91:GLY:H	2.25	0.44
41:BG:46:ALA:HA	41:BG:51:ARG:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:35:VAL:CG2	42:BH:75:ALA:HB2	2.48	0.44
42:BH:41:MET:SD	42:BH:53:GLU:C	3.01	0.44
42:BH:83:TYR:HB3	42:BH:134:SER:CA	2.39	0.44
42:BH:106:THR:HG22	42:BH:112:PRO:HB3	2.00	0.44
42:BH:136:ILE:HG22	42:BH:136:ILE:O	2.18	0.44
44:BK:88:ALA:O	44:BK:90:LYS:N	2.42	0.44
47:BO:37:ASP:O	47:BO:62:VAL:HG23	2.18	0.44
50:BR:72:ASP:CG	50:BR:75:LEU:HB2	2.41	0.44
53:BU:10:ARG:C	53:BU:12:ARG:N	2.76	0.44
54:BV:40:LEU:N	54:BV:40:LEU:HD22	2.32	0.44
54:BV:47:VAL:O	54:BV:47:VAL:HG23	2.18	0.44
55:BW:70:TYR:HB3	55:BW:110:LYS:HZ3	1.82	0.44
57:BY:46:LYS:H	57:BY:62:GLU:CB	2.20	0.44
58:BZ:14:LYS:C	58:BZ:16:SER:H	2.25	0.44
58:BZ:185:GLU:O	58:BZ:187:ALA:N	2.50	0.44
1:CA:106:C:C2'	1:CA:107:G:H5'	2.48	0.44
1:CA:342:C:C5	1:CA:343:U:C5	3.06	0.44
1:CA:450:G:H1	1:CA:483:C:H42	1.65	0.44
1:CA:472:A:H2'	1:CA:473:G:O4'	2.17	0.44
1:CA:1122:U:O2'	1:CA:1123:A:H5'	2.17	0.44
1:CA:1351:U:H5'	7:CG:33:ASP:OD1	2.18	0.44
2:CB:209:ARG:HH11	2:CB:239:VAL:HG11	1.81	0.44
3:CC:14:ILE:O	3:CC:15:THR:CB	2.66	0.44
5:CE:26:PHE:N	5:CE:26:PHE:CD1	2.85	0.44
7:CG:65:ALA:HA	7:CG:128:ALA:CA	2.47	0.44
7:CG:120:ILE:O	7:CG:124:LEU:HD12	2.18	0.44
7:CG:129:GLU:OE2	7:CG:131:LYS:HE2	2.17	0.44
9:CI:4:TYR:CE1	9:CI:88:TYR:CD2	3.05	0.44
9:CI:42:ARG:O	9:CI:44:VAL:N	2.50	0.44
9:CI:114:TYR:HD1	10:CJ:60:ARG:HG3	1.83	0.44
10:CJ:16:LEU:HD13	10:CJ:16:LEU:C	2.43	0.44
10:CJ:37:PRO:CA	10:CJ:72:VAL:HG22	2.39	0.44
11:CK:120:ARG:NH1	11:CK:126:ARG:NE	2.66	0.44
13:CM:8:GLU:C	13:CM:9:ILE:HD12	2.42	0.44
14:CN:47:LEU:O	14:CN:48:ALA:C	2.58	0.44
17:CQ:99:SER:O	17:CQ:100:LYS:HG3	2.18	0.44
20:CT:13:LEU:C	20:CT:15:ARG:N	2.75	0.44
24:CY:117:GLN:OE1	24:CY:120:THR:OG1	2.36	0.44
24:CY:484:ARG:HA	24:CY:484:ARG:HD3	1.79	0.44
24:CY:602:LEU:HB3	24:CY:676:TYR:HB3	1.99	0.44
24:CY:673:PHE:CE2	24:CY:674:ASP:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:3:HIS:NE2	35:DA:2602:A:H2	2.16	0.44
26:D1:81:LYS:HZ3	35:DA:271(H):G:H5''	1.82	0.44
31:D6:24:GLU:HG3	31:D6:37:ARG:HH21	1.83	0.44
35:DA:272(I):U:H5	35:DA:363(A):A:C2	2.35	0.44
35:DA:338:G:H2'	35:DA:339:U:H6	1.82	0.44
35:DA:602:G:N1	35:DA:654(U):A:N7	2.65	0.44
35:DA:619:G:H3'	35:DA:620:G:N2	2.32	0.44
35:DA:775:G:C4	35:DA:794:G:C8	3.05	0.44
35:DA:892:G:O2'	35:DA:893:C:H5'	2.17	0.44
35:DA:919:G:H5'	36:DB:81:G:H1'	2.00	0.44
35:DA:972:G:OP2	35:DA:974:G:H5''	2.18	0.44
35:DA:1213:A:N3	35:DA:1238:G:H1'	2.32	0.44
35:DA:1227:G:O2'	35:DA:1228:G:H5'	2.18	0.44
35:DA:1408:C:H42	35:DA:1594:G:H1	1.66	0.44
35:DA:1495:A:N3	35:DA:1496:A:C2	2.85	0.44
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.53	0.44
35:DA:1680:U:O2'	35:DA:1681:G:H5'	2.18	0.44
35:DA:2088:G:C6	35:DA:2089:U:C4	3.06	0.44
35:DA:2148:G:O2'	35:DA:2149:G:H5'	2.18	0.44
35:DA:2307:G:H3'	35:DA:2308:G:C5'	2.47	0.44
35:DA:2328:A:H8	35:DA:2328:A:O5'	2.01	0.44
35:DA:2334:G:N3	51:DS:18:ILE:HD13	2.33	0.44
35:DA:2523:G:C3'	35:DA:2524:G:H5''	2.46	0.44
35:DA:2688:U:H3'	35:DA:2688:U:O2	2.17	0.44
36:DB:4:C:H2'	36:DB:5:C:C6	2.53	0.44
36:DB:58:A:H2'	36:DB:59:A:O4'	2.18	0.44
37:DC:138:LEU:HD13	37:DC:138:LEU:O	2.18	0.44
38:DD:117:VAL:CG2	38:DD:118:VAL:N	2.81	0.44
39:DE:36:ARG:HH21	39:DE:88:GLY:HA2	1.79	0.44
39:DE:119:ARG:HD2	39:DE:120:TRP:CE2	2.53	0.44
40:DF:20:LEU:HD23	40:DF:21:ALA:H	1.83	0.44
40:DF:109:GLY:HA2	40:DF:112:MET:HB2	1.99	0.44
41:DG:6:ALA:O	41:DG:10:LYS:HB2	2.17	0.44
46:DN:15:LEU:O	46:DN:136:GLU:HA	2.18	0.44
48:DP:89:ALA:O	48:DP:121:LYS:HD2	2.17	0.44
49:DQ:54:MET:CG	49:DQ:64:ILE:HD13	2.40	0.44
50:DR:24:GLN:NE2	50:DR:36:THR:HG21	2.32	0.44
50:DR:41:ALA:C	50:DR:43:GLU:H	2.24	0.44
51:DS:104:GLY:C	51:DS:106:ARG:N	2.66	0.44
52:DT:26:ASP:OD2	52:DT:26:ASP:O	2.36	0.44
52:DT:29:ARG:CD	52:DT:86:ILE:HG22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:33:ARG:C	53:DU:35:ALA:H	2.25	0.44
54:DV:19:LYS:HZ3	54:DV:20:LEU:H	1.64	0.44
58:DZ:179:ASP:OD1	58:DZ:181:GLU:N	2.51	0.44
58:DZ:180:VAL:HG12	58:DZ:181:GLU:N	2.33	0.44
1:AA:17:U:H1'	1:AA:1080:A:N3	2.32	0.44
1:AA:98:G:C2'	1:AA:99:U:H5'	2.48	0.44
1:AA:109:A:C6	1:AA:326:G:C6	3.05	0.44
1:AA:316:G:C6	1:AA:338:A:C6	3.05	0.44
1:AA:403:C:H2'	1:AA:404:U:H6	1.83	0.44
1:AA:644:G:C5	1:AA:645:C:C5	3.05	0.44
1:AA:663:A:C2'	1:AA:664:G:H5'	2.48	0.44
1:AA:953:G:N7	13:AM:104:ARG:NH2	2.65	0.44
1:AA:979:C:C2'	1:AA:980:C:H5''	2.44	0.44
1:AA:1165:C:C4	1:AA:1166:G:N7	2.85	0.44
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.17	0.44
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.52	0.44
2:AB:21:ARG:O	2:AB:22:LYS:HB2	2.18	0.44
2:AB:51:LEU:O	2:AB:55:PHE:HD2	2.00	0.44
3:AC:126:ARG:C	3:AC:127:ARG:HD2	2.43	0.44
3:AC:129:ALA:O	3:AC:130:VAL:C	2.60	0.44
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.16	0.44
5:AE:64:ARG:CG	5:AE:64:ARG:NH1	2.73	0.44
9:AI:43:ALA:O	9:AI:45:ALA:N	2.51	0.44
9:AI:77:ILE:C	9:AI:79:LEU:N	2.76	0.44
9:AI:118:LYS:C	9:AI:120:ARG:H	2.25	0.44
10:AJ:5:ARG:HG3	10:AJ:71:LEU:HD11	1.99	0.44
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.43	0.44
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.18	0.44
24:AY:20:HIS:CD2	24:AY:117:GLN:HB3	2.53	0.44
25:B0:49:LYS:HG3	25:B0:80:HIS:ND1	2.32	0.44
35:BA:64:A:C5	56:BX:66:LEU:HD13	2.53	0.44
35:BA:200:U:C2'	35:BA:201:C:H5'	2.48	0.44
35:BA:285:C:H2'	35:BA:286:C:C5'	2.48	0.44
35:BA:465:G:H2'	35:BA:466:A:C8	2.53	0.44
35:BA:665:C:O2'	35:BA:666:G:H5'	2.16	0.44
35:BA:949:C:H2'	35:BA:950:G:H8	1.82	0.44
35:BA:1488:G:H5'	35:BA:1489:U:OP2	2.17	0.44
35:BA:1710:C:H2'	35:BA:1711:C:C6	2.53	0.44
35:BA:2050:C:H1'	39:BE:156:MET:HE1	2.00	0.44
35:BA:2131:G:C8	35:BA:2133:G:C2	3.06	0.44
35:BA:2309:A:H2'	35:BA:2310:A:H5''	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.38	0.44
35:BA:2767:C:H2'	35:BA:2768:C:C6	2.52	0.44
35:BA:2880:C:N4	35:BA:2881:C:H41	2.15	0.44
38:BD:39:LYS:HZ1	38:BD:87:ASN:HB3	1.82	0.44
38:BD:145:VAL:HG22	38:BD:191:ALA:CB	2.39	0.44
38:BD:176:ARG:CG	38:BD:176:ARG:NH1	2.77	0.44
39:BE:50:GLY:HA3	39:BE:74:PRO:HG3	2.00	0.44
39:BE:59:VAL:O	39:BE:60:ASN:CG	2.61	0.44
41:BG:107:LEU:HD23	41:BG:111:LEU:HD12	1.99	0.44
41:BG:135:LEU:HD12	41:BG:135:LEU:N	2.31	0.44
42:BH:83:TYR:HA	42:BH:135:GLY:O	2.18	0.44
42:BH:130:ARG:NH1	42:BH:130:ARG:HB3	2.33	0.44
46:BN:62:VAL:HG22	46:BN:66:LYS:CG	2.41	0.44
48:BP:98:GLU:HA	48:BP:101:VAL:HG22	1.98	0.44
49:BQ:27:VAL:O	49:BQ:28:ALA:CB	2.66	0.44
49:BQ:65:PHE:N	49:BQ:65:PHE:CD2	2.86	0.44
49:BQ:78:PRO:HB2	49:BQ:81:VAL:HG11	2.00	0.44
50:BR:97:VAL:HG13	50:BR:114:VAL:CG2	2.48	0.44
50:BR:118:GLU:HA	50:BR:118:GLU:OE1	2.18	0.44
52:BT:13:ARG:HA	52:BT:13:ARG:NE	2.31	0.44
54:BV:35:LEU:HB3	54:BV:37:VAL:HG23	1.99	0.44
54:BV:39:LEU:HD13	54:BV:51:VAL:HA	1.99	0.44
54:BV:46:VAL:HG22	54:BV:47:VAL:N	2.28	0.44
1:CA:432:A:N7	1:CA:433:C:C4	2.86	0.44
1:CA:625:G:H4'	16:CP:16:HIS:HD2	1.81	0.44
1:CA:637:G:O2'	1:CA:638:G:H5'	2.17	0.44
1:CA:769:G:O2'	1:CA:770:C:H5'	2.18	0.44
1:CA:791:G:N2	1:CA:1497:G:O3'	2.49	0.44
1:CA:1037:C:H2'	1:CA:1038:C:N1	2.32	0.44
1:CA:1053:G:O6	1:CA:1199:U:H2'	2.17	0.44
1:CA:1132:C:N4	1:CA:1133:G:C6	2.86	0.44
1:CA:1316:G:O3'	14:CN:18:VAL:CG1	2.66	0.44
2:CB:78:GLN:O	2:CB:79:ASP:C	2.60	0.44
2:CB:114:ARG:O	2:CB:117:GLU:HB2	2.17	0.44
3:CC:110:ASN:HD21	3:CC:140:ARG:HB3	1.83	0.44
4:CD:92:VAL:O	4:CD:95:GLY:N	2.51	0.44
4:CD:96:LEU:O	4:CD:97:LEU:C	2.61	0.44
5:CE:155:GLU:N	8:CH:46:LYS:HG2	2.33	0.44
8:CH:44:PHE:HE2	8:CH:109:ILE:HG21	1.82	0.44
11:CK:58:PRO:HA	11:CK:90:GLY:CA	2.44	0.44
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:12:ARG:HB2	14:CN:12:ARG:NH1	2.33	0.44
22:CW:14:A:H3'	22:CW:15:G:C5'	2.47	0.44
24:CY:136:ALA:CB	24:CY:260:LEU:HB3	2.28	0.44
24:CY:461:ILE:HD11	61:CY:702:FUA:H21	2.00	0.44
24:CY:519:ARG:NH1	24:CY:678:GLU:HB2	2.33	0.44
27:D2:57:ILE:HG12	27:D2:57:ILE:H	1.47	0.44
28:D3:12:PRO:O	28:D3:13:ILE:C	2.59	0.44
29:D4:7:PRO:O	29:D4:8:LYS:HB3	2.18	0.44
32:D7:48:LYS:NZ	35:DA:125:G:N2	2.66	0.44
35:DA:21:A:O2'	35:DA:22:C:H5'	2.18	0.44
35:DA:55:G:H1	35:DA:115:C:H42	1.65	0.44
35:DA:526:A:N6	35:DA:2626:C:H4'	2.32	0.44
35:DA:795:C:H2'	35:DA:796:C:C6	2.52	0.44
35:DA:1598:C:H2'	35:DA:1599:C:C6	2.53	0.44
35:DA:1719:G:O2'	35:DA:1720:U:H5'	2.17	0.44
35:DA:2147:G:H2'	35:DA:2148:G:C5'	2.48	0.44
35:DA:2193:G:H8	35:DA:2193:G:H5'	1.82	0.44
35:DA:2341:G:H2'	35:DA:2342:C:C6	2.52	0.44
35:DA:2547:U:H2'	35:DA:2548:G:H8	1.82	0.44
35:DA:2550:G:C6	35:DA:2551:C:N4	2.86	0.44
35:DA:2628:C:O2'	35:DA:2781:A:H2'	2.17	0.44
35:DA:2653:U:O2'	42:DH:110:SER:CB	2.66	0.44
35:DA:2876:G:OP1	52:DT:2:ASN:O	2.36	0.44
37:DC:23:ILE:CB	37:DC:229:SER:OXT	2.62	0.44
37:DC:76:LEU:HB3	37:DC:114:VAL:HA	2.00	0.44
37:DC:88:GLU:N	37:DC:95:VAL:HG21	2.32	0.44
37:DC:98:GLU:C	37:DC:100:ILE:H	2.26	0.44
37:DC:100:ILE:C	37:DC:102:GLN:N	2.75	0.44
37:DC:101:ILE:H	37:DC:101:ILE:CD1	2.28	0.44
39:DE:2:LYS:CD	39:DE:95:ILE:HG22	2.47	0.44
39:DE:29:GLY:O	39:DE:30:PRO:C	2.59	0.44
40:DF:20:LEU:HD13	40:DF:203:GLN:OE1	2.18	0.44
41:DG:86:MET:HG2	41:DG:86:MET:O	2.18	0.44
42:DH:41:MET:HE3	42:DH:42:ARG:O	2.18	0.44
48:DP:7:ARG:CB	48:DP:8:PRO:CD	2.95	0.44
48:DP:144:GLU:N	48:DP:145:PRO:HD3	2.33	0.44
50:DR:18:LEU:C	50:DR:20:LEU:H	2.26	0.44
51:DS:48:LEU:HD12	51:DS:48:LEU:N	2.33	0.44
52:DT:57:PHE:CG	52:DT:58:ASN:N	2.85	0.44
57:DY:9:LYS:O	57:DY:28:LYS:HE2	2.17	0.44
58:DZ:157:LEU:HD11	58:DZ:163:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:171:ILE:CG1	58:DZ:172:ALA:N	2.81	0.44
1:AA:829:G:O2'	1:AA:830:G:H5'	2.18	0.43
1:AA:1115:C:H1'	14:AN:61:TRP:O	2.18	0.43
2:AB:112:VAL:C	2:AB:114:ARG:N	2.75	0.43
2:AB:214:ILE:O	2:AB:218:ALA:HB2	2.17	0.43
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.18	0.43
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.82	0.43
4:AD:134:ASP:N	4:AD:134:ASP:OD2	2.49	0.43
5:AE:142:LEU:O	5:AE:143:ARG:CD	2.66	0.43
7:AG:84:ASN:N	7:AG:84:ASN:ND2	2.65	0.43
8:AH:17:THR:CG2	8:AH:63:LEU:HD12	2.48	0.43
9:AI:60:ASP:O	9:AI:61:ALA:O	2.36	0.43
9:AI:73:GLN:C	9:AI:75:ASP:N	2.76	0.43
9:AI:105:ASP:C	9:AI:107:ARG:H	2.26	0.43
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.33	0.43
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.82	0.43
11:AK:58:PRO:HA	11:AK:90:GLY:CA	2.45	0.43
12:AL:91:LYS:HB2	12:AL:91:LYS:HE2	1.69	0.43
13:AM:91:ARG:HD3	13:AM:97:PRO:O	2.18	0.43
14:AN:24:CYS:SG	14:AN:25:VAL:N	2.91	0.43
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.99	0.43
15:AO:9:GLN:O	15:AO:11:VAL:N	2.51	0.43
19:AS:53:ASN:C	19:AS:55:LYS:N	2.76	0.43
20:AT:13:LEU:C	20:AT:15:ARG:N	2.73	0.43
27:B2:9:GLN:O	27:B2:13:ALA:N	2.45	0.43
30:B5:55:ARG:HH22	50:BR:33:ARG:CG	2.29	0.43
32:B7:24:THR:C	32:B7:26:GLY:N	2.74	0.43
35:BA:15:G:H2'	35:BA:16:G:H8	1.83	0.43
35:BA:37:C:O2	35:BA:37:C:H2'	2.17	0.43
35:BA:152:G:H1	35:BA:174:C:H42	1.66	0.43
35:BA:153:C:H2'	35:BA:154:G:C8	2.53	0.43
35:BA:268:C:H2'	35:BA:268:C:O2	2.17	0.43
35:BA:269:U:H2'	35:BA:270:A:H8	1.82	0.43
35:BA:458:G:N2	35:BA:469:G:H2'	2.32	0.43
35:BA:706:A:H2'	35:BA:707:G:O4'	2.18	0.43
35:BA:848:G:H5''	35:BA:928:G:N2	2.33	0.43
35:BA:1541:G:H5''	35:BA:1542:A:OP1	2.18	0.43
35:BA:1801:G:H3'	35:BA:1802:A:H5'	2.00	0.43
35:BA:1805:U:H2'	35:BA:1806:C:C6	2.52	0.43
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.17	0.43
35:BA:1843:C:H2'	35:BA:1844:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1993:U:C5'	39:BE:128:SER:HB3	2.48	0.43
35:BA:2131:G:H8	35:BA:2158:A:H62	1.64	0.43
35:BA:2154:G:H2'	35:BA:2155:G:C8	2.53	0.43
35:BA:2219:G:O5'	35:BA:2219:G:H8	2.01	0.43
35:BA:2419:U:O2'	35:BA:2420:C:H5'	2.17	0.43
35:BA:2572:A:C8	39:BE:144:ARG:CB	3.01	0.43
37:BC:98:GLU:C	37:BC:100:ILE:H	2.26	0.43
37:BC:138:LEU:HD13	37:BC:138:LEU:O	2.17	0.43
37:BC:223:VAL:HG12	37:BC:225:ILE:HG23	2.00	0.43
38:BD:34:VAL:O	38:BD:36:PRO:CD	2.67	0.43
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	2.19	0.43
39:BE:120:TRP:O	39:BE:121:ASN:C	2.60	0.43
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.99	0.43
42:BH:173:PRO:C	42:BH:175:LYS:N	2.75	0.43
44:BK:121:GLU:CD	44:BK:121:GLU:N	2.76	0.43
48:BP:71:VAL:CG1	48:BP:72:PRO:HD3	2.47	0.43
52:BT:30:VAL:HG21	52:BT:83:ILE:CG1	2.48	0.43
52:BT:32:TYR:HB3	52:BT:81:PRO:HB2	1.98	0.43
52:BT:128:GLU:CD	52:BT:130:ALA:H	2.25	0.43
58:BZ:72:ARG:HD3	58:BZ:72:ARG:HA	1.78	0.43
1:CA:539:A:OP2	12:CL:115:LYS:HE3	2.17	0.43
1:CA:720:C:C3'	1:CA:721:G:H5''	2.37	0.43
1:CA:833:U:H2'	1:CA:834:C:H6	1.81	0.43
1:CA:885:G:O2'	1:CA:914:A:N1	2.44	0.43
1:CA:954:G:H2'	1:CA:955:U:H6	1.79	0.43
1:CA:972:C:O2'	10:CJ:55:LYS:HB3	2.18	0.43
1:CA:1165:C:C4	1:CA:1166:G:N7	2.86	0.43
1:CA:1202:G:O2'	1:CA:1203:C:H5'	2.17	0.43
2:CB:142:LEU:O	2:CB:143:GLU:C	2.60	0.43
4:CD:173:TRP:CB	4:CD:187:ARG:NH1	2.81	0.43
7:CG:80:VAL:CG2	7:CG:81:GLY:N	2.80	0.43
10:CJ:30:SER:HA	10:CJ:80:LYS:CE	2.48	0.43
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	2.00	0.43
10:CJ:98:ILE:O	10:CJ:98:ILE:CG2	2.66	0.43
11:CK:66:LEU:HD23	11:CK:66:LEU:HA	1.81	0.43
12:CL:70:ILE:HG23	12:CL:100:ILE:HD12	1.99	0.43
14:CN:28:GLY:O	14:CN:29:ARG:C	2.61	0.43
14:CN:42:ILE:HD13	14:CN:42:ILE:HA	1.66	0.43
16:CP:75:ARG:C	16:CP:77:ALA:H	2.26	0.43
17:CQ:43:LEU:HD23	17:CQ:43:LEU:HA	1.74	0.43
18:CR:72:ARG:O	18:CR:73:ALA:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:57:HIS:O	19:CS:59:PRO:HD3	2.17	0.43
22:CV:35:A:C2'	22:CV:36:U:H5'	2.48	0.43
24:CY:115:GLU:CD	24:CY:118:SER:HB3	2.43	0.43
24:CY:210:ARG:O	24:CY:213:HIS:N	2.51	0.43
24:CY:613:PRO:HG2	24:CY:666:ARG:HH21	1.82	0.43
25:D0:19:LYS:CD	25:D0:41:ARG:HH22	2.28	0.43
25:D0:23:VAL:HA	25:D0:38:VAL:HG13	2.00	0.43
29:D4:39:CYS:SG	29:D4:42:PHE:HE2	2.40	0.43
30:D5:2:ALA:CA	35:DA:2015:A:C1'	2.86	0.43
31:D6:7:ILE:O	31:D6:7:ILE:HG22	2.18	0.43
31:D6:28:ARG:HB2	31:D6:29:ASN:H	1.63	0.43
33:D8:32:LEU:O	33:D8:33:ASN:O	2.36	0.43
35:DA:27:G:H1'	35:DA:513:A:N6	2.33	0.43
35:DA:139(A):G:N2	56:DX:44:GLU:CD	2.73	0.43
35:DA:708:C:H42	35:DA:723:G:H1	1.66	0.43
35:DA:856:C:H2'	35:DA:857:C:C6	2.53	0.43
35:DA:947:G:N3	35:DA:984:A:H2	2.16	0.43
35:DA:959:A:N1	35:DA:960:A:C2	2.86	0.43
35:DA:1185:C:C5'	35:DA:1186:G:P	3.06	0.43
35:DA:1488:G:H5'	35:DA:1489:U:OP2	2.18	0.43
35:DA:1801:G:H3'	35:DA:1802:A:H5'	1.98	0.43
35:DA:2337:G:H2'	35:DA:2338:G:C8	2.53	0.43
35:DA:2439:A:C8	35:DA:2586:C:H4'	2.53	0.43
35:DA:2443:C:O2	35:DA:2443:C:C2'	2.65	0.43
36:DB:86:G:H2'	36:DB:87:G:H8	1.79	0.43
36:DB:96:U:H2'	36:DB:97:G:H8	1.84	0.43
37:DC:140:ASN:H	37:DC:145:THR:HB	1.83	0.43
39:DE:14:ILE:HD11	39:DE:173:VAL:HG11	1.99	0.43
40:DF:89:VAL:CG1	40:DF:90:PHE:H	2.26	0.43
41:DG:67:LYS:HD3	41:DG:67:LYS:C	2.42	0.43
41:DG:121:ASN:OD1	41:DG:123:ASN:N	2.49	0.43
42:DH:66:GLY:CA	42:DH:69:ARG:HB3	2.42	0.43
45:DL:26:UNK:C	45:DL:28:UNK:H	2.31	0.43
46:DN:67:LEU:O	46:DN:68:GLU:CB	2.61	0.43
48:DP:71:VAL:CG1	48:DP:72:PRO:HD3	2.48	0.43
48:DP:81:GLN:HG2	48:DP:106:LEU:HA	2.00	0.43
51:DS:28:VAL:HG13	51:DS:36:TYR:O	2.18	0.43
51:DS:70:GLY:C	51:DS:101:LEU:CD2	2.88	0.43
54:DV:39:LEU:HD12	54:DV:47:VAL:HG11	2.00	0.43
55:DW:70:TYR:HB3	55:DW:110:LYS:NZ	2.33	0.43
57:DY:96:ILE:HG21	57:DY:99:CYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:103:GLY:O	57:DY:105:ALA:N	2.51	0.43
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD13	1.99	0.43
58:DZ:151:HIS:HB2	58:DZ:168:GLU:O	2.18	0.43
1:AA:149:A:H2'	1:AA:149:A:N3	2.33	0.43
1:AA:961:U:O2'	1:AA:962:C:H5'	2.18	0.43
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.82	0.43
3:AC:80:GLY:CA	3:AC:82:GLU:OE1	2.66	0.43
3:AC:109:PRO:CD	3:AC:110:ASN:H	2.31	0.43
4:AD:14:ARG:C	4:AD:16:GLY:N	2.71	0.43
5:AE:76:ILE:HG22	5:AE:118:ILE:HD13	1.99	0.43
9:AI:79:LEU:O	9:AI:82:ALA:N	2.52	0.43
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.18	0.43
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.81	0.43
18:AR:36:ASN:OD1	18:AR:39:VAL:HB	2.18	0.43
19:AS:19:VAL:HG12	19:AS:20:LEU:N	2.33	0.43
24:AY:87:HIS:NE2	24:AY:120:THR:HG21	2.32	0.43
24:AY:152:THR:HA	24:AY:155:GLU:HB3	1.99	0.43
24:AY:614:GLU:HA	24:AY:617:MET:CB	2.47	0.43
25:B0:70:GLN:NE2	25:B0:80:HIS:NE2	2.66	0.43
26:B1:89:GLU:O	26:B1:93:GLU:HG2	2.18	0.43
29:B4:1:MET:HG2	41:BG:98:ARG:CD	2.48	0.43
33:B8:58:ILE:CG2	48:BP:49:ARG:HD3	2.48	0.43
35:BA:272(H):C:H5'	35:BA:272(H):C:C6	2.34	0.43
35:BA:1328:G:H2'	35:BA:1330:C:C5	2.54	0.43
35:BA:1362:C:H2'	35:BA:1363:C:C6	2.53	0.43
35:BA:1485:G:H8	35:BA:1485:G:H5'	1.82	0.43
35:BA:1487:G:N3	35:BA:1487:G:H2'	2.34	0.43
35:BA:1495:A:N3	35:BA:1495:A:H2'	2.33	0.43
35:BA:2688:U:H1'	35:BA:2721:A:H61	1.82	0.43
35:BA:2723:C:C5'	50:BR:2:ARG:HH11	2.21	0.43
35:BA:2836:U:C4	35:BA:2883:A:N6	2.86	0.43
39:BE:26:ILE:HG13	39:BE:182:LEU:HB3	2.00	0.43
39:BE:69:LYS:C	39:BE:71:GLY:N	2.74	0.43
40:BF:40:GLN:C	40:BF:42:ALA:N	2.76	0.43
40:BF:206:ILE:CG2	40:BF:207:GLY:N	2.81	0.43
41:BG:58:GLN:CD	41:BG:59:GLU:N	2.76	0.43
41:BG:107:LEU:HD23	41:BG:111:LEU:HD11	2.00	0.43
41:BG:170:ARG:HE	41:BG:180:PHE:HD1	1.65	0.43
42:BH:92:ILE:C	42:BH:94:TYR:N	2.74	0.43
47:BO:104:ARG:C	47:BO:106:LEU:N	2.74	0.43
47:BO:112:MET:HE2	47:BO:112:MET:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:106:LEU:HD12	48:BP:106:LEU:N	2.33	0.43
50:BR:48:VAL:HG12	50:BR:52:ILE:HG12	2.01	0.43
51:BS:98:VAL:HG12	51:BS:100:ALA:CB	2.47	0.43
52:BT:53:ARG:O	52:BT:59:THR:HB	2.18	0.43
53:BU:15:LYS:HA	53:BU:18:LEU:HD12	2.00	0.43
58:BZ:129:SER:O	58:BZ:131:ARG:N	2.51	0.43
1:CA:452:A:H5'	16:CP:72:ARG:NH2	2.33	0.43
1:CA:1055:A:C6	1:CA:1206:G:C5	3.06	0.43
1:CA:1103:C:H5''	2:CB:98:LEU:HD13	1.99	0.43
1:CA:1202:G:H1'	14:CN:29:ARG:HD3	2.00	0.43
1:CA:1308:U:C5	13:CM:99:ARG:NH1	2.86	0.43
1:CA:1347:G:C2'	1:CA:1348:U:OP2	2.66	0.43
3:CC:10:PHE:CZ	3:CC:178:LEU:HD11	2.52	0.43
3:CC:101:LEU:HD23	3:CC:102:ASN:N	2.33	0.43
3:CC:136:GLN:O	3:CC:138:VAL:N	2.51	0.43
5:CE:19:MET:HE1	5:CE:24:ARG:HH21	1.83	0.43
5:CE:124:GLY:O	5:CE:125:SER:C	2.61	0.43
5:CE:152:ARG:HB3	8:CH:43:GLY:HA3	2.00	0.43
7:CG:134:ALA:O	7:CG:135:VAL:C	2.60	0.43
8:CH:26:VAL:C	8:CH:58:TYR:HD2	2.25	0.43
8:CH:53:VAL:HB	8:CH:58:TYR:CD1	2.53	0.43
10:CJ:30:SER:O	10:CJ:81:THR:HG23	2.18	0.43
10:CJ:83:GLU:O	10:CJ:84:GLN:C	2.61	0.43
16:CP:75:ARG:HG3	16:CP:75:ARG:HH11	1.83	0.43
24:CY:84:THR:CG2	61:CY:702:FUA:H152	2.48	0.43
24:CY:140:ASP:OD1	24:CY:262:SER:HB2	2.17	0.43
24:CY:205:TYR:O	24:CY:206:LEU:C	2.61	0.43
24:CY:573:HIS:CD2	24:CY:576:ASP:H	2.34	0.43
26:D1:24:ALA:HB3	26:D1:27:GLU:OE2	2.18	0.43
26:D1:47:GLN:OE1	35:DA:2091:U:H1'	2.18	0.43
26:D1:52:ARG:HD3	26:D1:52:ARG:HA	1.76	0.43
30:D5:19:ARG:HG3	35:DA:2046:G:H5''	1.99	0.43
31:D6:17:LYS:O	31:D6:18:ARG:O	2.37	0.43
33:D8:5:LYS:HG2	35:DA:242:G:C8	2.53	0.43
35:DA:572:A:H2'	35:DA:573:G:O4'	2.18	0.43
35:DA:1058:G:H21	44:DK:126:MET:CE	2.23	0.43
35:DA:1204:A:H2	35:DA:1241:A:N1	2.16	0.43
35:DA:1325:G:OP2	35:DA:1616:A:H2'	2.18	0.43
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.33	0.43
35:DA:1680:U:O2	35:DA:1763:G:H3'	2.18	0.43
35:DA:1805:U:H2'	35:DA:1806:C:H6	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1932:A:H2'	35:DA:1933:G:O4'	2.18	0.43
35:DA:2287:A:H2	35:DA:2346:A:C2	2.36	0.43
35:DA:2466:C:C2'	35:DA:2467:C:H5'	2.48	0.43
35:DA:2779:U:H1'	35:DA:2781:A:C6	2.52	0.43
38:DD:210:GLY:C	38:DD:212:SER:N	2.76	0.43
40:DF:24:LEU:CB	40:DF:25:PRO:HD2	2.38	0.43
40:DF:101:LEU:O	40:DF:106:ARG:NH1	2.50	0.43
42:DH:37:VAL:HG12	42:DH:38:SER:H	1.83	0.43
43:DJ:9:UNK:O	43:DJ:10:UNK:C	2.67	0.43
48:DP:58:THR:O	48:DP:61:ARG:HG3	2.17	0.43
48:DP:113:LYS:HA	48:DP:129:ALA:O	2.19	0.43
52:DT:8:LYS:O	52:DT:10:VAL:N	2.50	0.43
52:DT:93:ARG:HD2	52:DT:93:ARG:HA	1.78	0.43
52:DT:108:ARG:CG	52:DT:109:GLU:N	2.73	0.43
53:DU:59:ARG:NH1	53:DU:59:ARG:CG	2.81	0.43
53:DU:88:ILE:O	53:DU:90:VAL:N	2.50	0.43
56:DX:12:VAL:CG2	56:DX:13:LEU:N	2.54	0.43
57:DY:49:VAL:HG12	57:DY:50:ARG:N	2.33	0.43
58:DZ:175:VAL:HB	58:DZ:176:PRO:CD	2.48	0.43
1:AA:407:G:H2'	1:AA:408:A:C8	2.53	0.43
1:AA:946:A:N6	1:AA:1236:A:N6	2.67	0.43
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.34	0.43
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.52	0.43
1:AA:1291:G:H2'	1:AA:1292:U:C6	2.54	0.43
1:AA:1299:A:C2	1:AA:1301:U:N3	2.86	0.43
1:AA:1430:C:H2'	1:AA:1431:C:H6	1.82	0.43
2:AB:233:SER:HB2	2:AB:234:PRO:HD3	1.98	0.43
3:AC:80:GLY:C	3:AC:82:GLU:OE1	2.62	0.43
6:AF:43:LEU:H	6:AF:43:LEU:CD1	2.18	0.43
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.75	0.43
7:AG:47:CYS:HB3	7:AG:58:PRO:CB	2.48	0.43
11:AK:33:THR:HG22	11:AK:39:PRO:CA	2.43	0.43
12:AL:22:SER:C	12:AL:24:VAL:H	2.27	0.43
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.18	0.43
13:AM:49:THR:C	13:AM:51:ALA:H	2.25	0.43
13:AM:70:LEU:O	13:AM:71:ARG:C	2.61	0.43
13:AM:94:ARG:CZ	19:AS:82:GLY:N	2.81	0.43
20:AT:26:ASN:N	20:AT:26:ASN:HD22	2.14	0.43
20:AT:50:GLU:HB2	20:AT:100:ILE:HB	1.99	0.43
22:AV:11:A:O2'	22:AV:12:G:H5'	2.18	0.43
24:AY:355:LEU:HD12	24:AY:369:LEU:CD1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:605:ILE:HD13	24:AY:677:GLN:HG2	2.00	0.43
25:B0:49:LYS:HE3	25:B0:80:HIS:CG	2.53	0.43
26:B1:75:GLU:HA	26:B1:75:GLU:OE1	2.19	0.43
28:B3:50:VAL:O	28:B3:53:LEU:N	2.42	0.43
28:B3:59:VAL:CG1	28:B3:60:GLU:N	2.77	0.43
33:B8:32:LEU:CD2	33:B8:32:LEU:H	2.31	0.43
35:BA:216:A:H2'	35:BA:217:G:C8	2.54	0.43
35:BA:336:C:H4'	57:BY:7:VAL:CG2	2.46	0.43
35:BA:444:C:H2'	35:BA:445:C:C6	2.54	0.43
35:BA:586:A:C2	35:BA:1254:A:C2	3.06	0.43
35:BA:653:A:H5'	35:BA:654:A:P	2.58	0.43
35:BA:959:A:N1	35:BA:960:A:C2	2.86	0.43
35:BA:1493:C:H4'	35:BA:1494:A:OP1	2.18	0.43
35:BA:1666:G:O2'	35:BA:1667:G:H5'	2.19	0.43
35:BA:2069:G:C2'	35:BA:2070:G:H5'	2.48	0.43
35:BA:2439:A:C8	35:BA:2586:C:H4'	2.54	0.43
35:BA:2547:U:H2'	35:BA:2548:G:H8	1.82	0.43
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.17	0.43
35:BA:2849:U:O4	52:BT:23:ARG:NH2	2.51	0.43
38:BD:26:LYS:O	38:BD:27:THR:CG2	2.65	0.43
39:BE:12:THR:O	39:BE:23:VAL:N	2.44	0.43
39:BE:113:PHE:CE2	39:BE:158:GLY:CA	3.01	0.43
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.83	0.43
48:BP:108:LYS:C	48:BP:110:TYR:N	2.64	0.43
49:BQ:37:LEU:HD12	49:BQ:128:LYS:HB3	2.00	0.43
50:BR:53:HIS:HD1	50:BR:53:HIS:C	2.26	0.43
52:BT:57:PHE:CD2	52:BT:58:ASN:N	2.83	0.43
52:BT:120:ARG:O	52:BT:124:ASP:OD1	2.36	0.43
54:BV:4:ILE:HA	54:BV:12:TYR:O	2.17	0.43
57:BY:66:PRO:O	57:BY:67:LEU:HB3	2.19	0.43
58:BZ:20:ARG:NH1	58:BZ:20:ARG:CB	2.82	0.43
58:BZ:20:ARG:NH1	58:BZ:20:ARG:HB2	2.34	0.43
1:CA:36:C:H4'	12:CL:122:THR:O	2.18	0.43
1:CA:703:G:O2'	1:CA:704:A:P	2.76	0.43
1:CA:759:A:C2'	1:CA:760:G:H5'	2.48	0.43
1:CA:802:A:H3'	1:CA:803:G:H8	1.83	0.43
1:CA:1026:G:H3'	1:CA:1027:C:C5'	2.48	0.43
1:CA:1048:G:OP1	14:CN:4:LYS:HB2	2.19	0.43
1:CA:1409:C:O2'	1:CA:1410:G:H5'	2.18	0.43
1:CA:1518:A:C2	1:CA:1519:A:C2	3.06	0.43
3:CC:54:ARG:HG2	3:CC:54:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:107:ARG:O	5:CE:108:ALA:C	2.61	0.43
12:CL:7:ILE:HG22	12:CL:8:ASN:N	2.34	0.43
19:CS:6:LYS:H	19:CS:6:LYS:CD	2.30	0.43
22:CW:52:C:H2'	22:CW:53:G:O4'	2.18	0.43
22:CW:54:G:O2'	22:CW:55:5MU:H5''	2.18	0.43
26:D1:23:LYS:O	26:D1:24:ALA:C	2.61	0.43
26:D1:69:LYS:HE2	26:D1:72:GLU:OE1	2.19	0.43
29:D4:7:PRO:O	29:D4:8:LYS:HD2	2.18	0.43
29:D4:50:VAL:O	29:D4:51:ASP:CB	2.65	0.43
30:D5:29:THR:HG21	35:DA:2814:C:O2'	2.18	0.43
33:D8:53:PRO:HG2	33:D8:54:GLU:N	2.33	0.43
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.66	0.43
35:DA:1763:G:H2'	35:DA:1764:G:H5'	2.00	0.43
35:DA:1925:C:O2'	35:DA:1926:U:H5'	2.18	0.43
35:DA:2116:G:N7	35:DA:2117:A:C4	2.86	0.43
35:DA:2309:A:H2'	35:DA:2310:A:H5''	2.00	0.43
35:DA:2464:C:O2'	35:DA:2465:C:H6	2.01	0.43
35:DA:2749:A:C6	35:DA:2750:A:N6	2.87	0.43
39:DE:65:GLY:O	39:DE:67:PHE:N	2.52	0.43
41:DG:77:ILE:HG21	41:DG:80:PHE:CB	2.40	0.43
43:DJ:35:UNK:C	43:DJ:37:UNK:N	2.80	0.43
43:DJ:74:UNK:C	43:DJ:76:UNK:N	2.81	0.43
46:DN:133:GLN:CG	46:DN:134:ARG:H	2.31	0.43
48:DP:106:LEU:O	48:DP:107:LYS:HG2	2.18	0.43
48:DP:112:LEU:HD22	48:DP:113:LYS:N	2.32	0.43
50:DR:94:TYR:CD1	50:DR:94:TYR:N	2.86	0.43
52:DT:12:SER:O	52:DT:15:VAL:HG13	2.18	0.43
53:DU:25:TRP:CD1	53:DU:25:TRP:C	2.96	0.43
53:DU:25:TRP:CD1	53:DU:26:GLY:N	2.86	0.43
53:DU:31:SER:O	53:DU:33:ARG:N	2.51	0.43
54:DV:19:LYS:HG3	54:DV:20:LEU:N	2.32	0.43
58:DZ:9:TYR:CB	58:DZ:35:ARG:HH22	2.32	0.43
1:AA:106:C:C2'	1:AA:107:G:H5'	2.48	0.43
1:AA:221:C:H2'	1:AA:221:C:O2	2.18	0.43
1:AA:345:C:H5'	1:AA:346:G:OP1	2.19	0.43
1:AA:393:A:H5'	1:AA:483:C:O2'	2.18	0.43
1:AA:986:A:H2'	1:AA:987:G:H8	1.83	0.43
1:AA:1008:C:H6	1:AA:1008:C:O5'	2.00	0.43
1:AA:1081:G:O2'	1:AA:1082:G:H5'	2.19	0.43
1:AA:1277:C:C6	1:AA:1277:C:C3'	3.00	0.43
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1494:G:H2'	1:AA:1494:G:N3	2.33	0.43
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.83	0.43
2:AB:24:TRP:CH2	2:AB:26:PRO:HA	2.52	0.43
2:AB:193:ASP:O	2:AB:194:PRO:C	2.60	0.43
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	2.00	0.43
2:AB:235:SER:C	2:AB:237:ALA:H	2.24	0.43
5:AE:139:LEU:O	5:AE:141:GLN:N	2.51	0.43
7:AG:120:ILE:O	7:AG:124:LEU:HD12	2.18	0.43
8:AH:53:VAL:HB	8:AH:58:TYR:CD1	2.53	0.43
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	2.17	0.43
12:AL:105:TYR:N	12:AL:105:TYR:CD2	2.85	0.43
16:AP:9:PHE:CE2	16:AP:18:ARG:NE	2.86	0.43
16:AP:75:ARG:C	16:AP:77:ALA:H	2.27	0.43
18:AR:37:VAL:O	18:AR:41:LYS:N	2.40	0.43
19:AS:10:PHE:CE2	19:AS:37:ARG:O	2.72	0.43
19:AS:37:ARG:H	19:AS:37:ARG:HG3	1.38	0.43
24:AY:513:LYS:N	24:AY:566:THR:O	2.51	0.43
25:B0:15:ASP:OD2	25:B0:16:SER:N	2.50	0.43
26:B1:52:ARG:O	26:B1:53:VAL:HB	2.18	0.43
26:B1:66:HIS:C	26:B1:68:PRO:HD2	2.44	0.43
27:B2:13:ALA:HA	27:B2:16:LEU:HD12	1.99	0.43
27:B2:28:LYS:HB3	27:B2:57:ILE:CD1	2.48	0.43
29:B4:39:CYS:C	29:B4:42:PHE:CE2	2.97	0.43
30:B5:44:THR:CG2	30:B5:45:VAL:N	2.78	0.43
35:BA:9:U:O4	35:BA:2629:A:N7	2.51	0.43
35:BA:74:A:O2'	35:BA:75:G:OP2	2.23	0.43
35:BA:118:A:OP2	35:BA:119:A:H2'	2.18	0.43
35:BA:216:A:H2'	35:BA:217:G:H8	1.82	0.43
35:BA:338:G:H2'	35:BA:339:U:H6	1.83	0.43
35:BA:460:A:H2'	35:BA:461:C:O4'	2.18	0.43
35:BA:606:U:O2	35:BA:606:U:C2'	2.62	0.43
35:BA:611:C:H2'	35:BA:612:C:H6	1.83	0.43
35:BA:619:G:H3'	35:BA:620:G:H21	1.82	0.43
35:BA:812:C:H1'	35:BA:1250:G:N2	2.32	0.43
35:BA:886:C:H2'	35:BA:887:A:O4'	2.19	0.43
35:BA:1416:G:N3	35:BA:1417:C:C4	2.87	0.43
35:BA:1899:G:N2	35:BA:1902:C:C5	2.86	0.43
35:BA:2286:A:H8	35:BA:2287:A:C6	2.37	0.43
35:BA:2376:A:O2'	51:BS:108:GLY:HA2	2.17	0.43
35:BA:2393:A:H5'	48:BP:60:MET:O	2.17	0.43
35:BA:2489:G:C6	35:BA:2490:G:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2696:U:H2'	35:BA:2697:G:H8	1.83	0.43
35:BA:2740:A:C6	35:BA:2741:A:C6	3.06	0.43
38:BD:4:LYS:HZ3	38:BD:20:ASP:HA	1.84	0.43
38:BD:28:GLU:OE1	38:BD:29:PRO:HD2	2.18	0.43
38:BD:77:ALA:HA	38:BD:97:TYR:HA	2.00	0.43
39:BE:188:VAL:O	39:BE:189:PRO:O	2.36	0.43
40:BF:110:LEU:HD13	40:BF:202:PHE:HE1	1.82	0.43
40:BF:116:ASP:OD1	40:BF:119:ARG:NH2	2.47	0.43
42:BH:66:GLY:CA	42:BH:69:ARG:HB3	2.43	0.43
45:BL:81:UNK:O	45:BL:82:UNK:O	2.37	0.43
47:BO:119:PRO:O	47:BO:120:GLU:HB2	2.18	0.43
51:BS:78:LEU:HD11	51:BS:103:GLU:HB3	2.00	0.43
52:BT:23:ARG:HA	52:BT:52:ILE:HD11	2.01	0.43
53:BU:82:GLY:C	53:BU:84:LYS:N	2.71	0.43
55:BW:43:GLY:O	55:BW:44:ALA:C	2.61	0.43
57:BY:12:THR:HA	57:BY:25:GLY:O	2.19	0.43
58:BZ:30:ASN:CG	58:BZ:31:ARG:N	2.76	0.43
58:BZ:108:PRO:HA	58:BZ:142:SER:HA	2.00	0.43
58:BZ:128:VAL:HG22	58:BZ:129:SER:N	2.34	0.43
58:BZ:171:ILE:HG13	58:BZ:172:ALA:H	1.81	0.43
58:BZ:179:ASP:CB	58:BZ:182:LYS:HD2	2.44	0.43
1:CA:32:A:C2	1:CA:33:A:C4	3.06	0.43
1:CA:659:U:O2'	1:CA:660:G:H5'	2.18	0.43
1:CA:773:G:C2'	1:CA:774:G:H5'	2.48	0.43
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.53	0.43
1:CA:1129:C:O2'	1:CA:1130:A:O5'	2.36	0.43
1:CA:1171:G:H2'	1:CA:1172:C:C6	2.52	0.43
1:CA:1237:C:H2'	1:CA:1336:C:C5	2.53	0.43
1:CA:1423:G:H5'	47:DO:49:ARG:HH22	1.82	0.43
1:CA:1456:G:C2'	1:CA:1457:G:H5'	2.48	0.43
2:CB:51:LEU:HD22	2:CB:55:PHE:HE2	1.83	0.43
3:CC:90:GLU:OE1	3:CC:93:LYS:HD2	2.18	0.43
4:CD:58:LEU:HD23	4:CD:62:GLN:HG2	2.00	0.43
5:CE:80:ILE:CD1	5:CE:138:ALA:HB1	2.48	0.43
7:CG:85:TYR:CD1	7:CG:154:TYR:HE1	2.36	0.43
8:CH:6:ILE:O	8:CH:9:MET:N	2.51	0.43
8:CH:32:LYS:O	8:CH:33:GLU:C	2.60	0.43
8:CH:53:VAL:HB	8:CH:58:TYR:CE1	2.54	0.43
9:CI:118:LYS:C	9:CI:120:ARG:H	2.26	0.43
10:CJ:22:LYS:NZ	10:CJ:88:LEU:HD23	2.33	0.43
11:CK:79:SER:CB	11:CK:106:LYS:HD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:21:TYR:C	13:CM:22:ILE:HD12	2.43	0.43
13:CM:36:LYS:HG3	13:CM:59:TYR:OH	2.19	0.43
14:CN:48:ALA:CA	14:CN:53:LEU:HD12	2.49	0.43
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.33	0.43
18:CR:58:LEU:N	18:CR:58:LEU:CD1	2.81	0.43
19:CS:9:VAL:CG2	29:D4:53:GLU:OE2	2.66	0.43
19:CS:29:ARG:N	19:CS:29:ARG:HD2	2.32	0.43
20:CT:84:LEU:C	20:CT:86:ARG:N	2.72	0.43
24:CY:415:PRO:HG3	24:CY:421:GLN:HG2	2.01	0.43
29:D4:2:LYS:HG2	36:DB:44:G:P	2.58	0.43
32:D7:34:ARG:HH12	32:D7:39:ARG:CD	2.32	0.43
34:D9:11:CYS:O	34:D9:11:CYS:SG	2.76	0.43
34:D9:34:GLN:O	34:D9:35:ARG:CB	2.66	0.43
35:DA:268:C:O2	35:DA:268:C:H2'	2.17	0.43
35:DA:492:A:H2'	35:DA:493:G:C5'	2.49	0.43
35:DA:625:G:H5'	35:DA:657:U:OP1	2.19	0.43
35:DA:661:C:O2'	48:DP:16:ARG:O	2.32	0.43
35:DA:1115:G:H5'	35:DA:1115:G:C8	2.49	0.43
35:DA:1161:C:H2'	35:DA:1162:G:C8	2.54	0.43
35:DA:1319:G:C2	35:DA:1334:G:C6	3.06	0.43
35:DA:1342:A:C2	35:DA:1345:C:C5	3.07	0.43
35:DA:1478:G:O2'	35:DA:1558:A:C2	2.72	0.43
35:DA:1782:C:C2'	35:DA:1783:A:H5'	2.47	0.43
35:DA:1819:A:O2'	35:DA:1820:U:P	2.76	0.43
35:DA:1902:C:H4'	38:DD:244:ARG:CB	2.46	0.43
35:DA:2081:C:H2'	35:DA:2082:A:C8	2.54	0.43
35:DA:2140:C:H1'	35:DA:2152:G:N2	2.34	0.43
35:DA:2219:G:C2'	35:DA:2220:G:H5'	2.49	0.43
35:DA:2704:C:O2'	35:DA:2705:A:H5'	2.19	0.43
38:DD:267:SER:C	38:DD:270:ILE:HD11	2.43	0.43
38:DD:270:ILE:HD12	38:DD:270:ILE:N	2.34	0.43
39:DE:167:VAL:HG22	39:DE:170:LEU:HD11	2.00	0.43
40:DF:68:LYS:HG3	40:DF:69:HIS:CD2	2.54	0.43
41:DG:64:THR:HG23	41:DG:65:GLY:N	2.33	0.43
45:DL:76:UNK:O	45:DL:80:UNK:N	2.51	0.43
46:DN:103:VAL:C	46:DN:105:GLY:N	2.72	0.43
46:DN:119:ARG:HG3	46:DN:119:ARG:NH1	2.33	0.43
48:DP:25:SER:O	48:DP:30:THR:CG2	2.65	0.43
48:DP:107:LYS:O	48:DP:109:GLY:N	2.51	0.43
49:DQ:58:PHE:O	49:DQ:59:ARG:C	2.61	0.43
49:DQ:137:TYR:N	49:DQ:137:TYR:CD1	2.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:36:TYR:N	51:DS:36:TYR:HD1	2.14	0.43
52:DT:29:ARG:O	52:DT:30:VAL:O	2.36	0.43
54:DV:17:GLY:O	54:DV:18:LEU:HB3	2.18	0.43
57:DY:61:ILE:CG1	57:DY:62:GLU:N	2.80	0.43
57:DY:84:ARG:HD2	57:DY:97:ARG:HD2	2.01	0.43
58:DZ:61:LEU:HB2	58:DZ:65:GLN:HB2	2.00	0.43
1:AA:64:G:N2	1:AA:67:C:C4	2.86	0.43
1:AA:748:C:O2'	1:AA:749:C:O5'	2.36	0.43
1:AA:757:U:O2'	1:AA:879:C:H1'	2.18	0.43
1:AA:1202:G:H1'	14:AN:29:ARG:HD3	2.01	0.43
3:AC:100:ALA:O	3:AC:101:LEU:C	2.61	0.43
4:AD:86:LYS:HD3	4:AD:86:LYS:HA	1.82	0.43
5:AE:80:ILE:CD1	5:AE:138:ALA:HB1	2.49	0.43
5:AE:124:GLY:O	5:AE:125:SER:C	2.59	0.43
5:AE:128:PRO:O	5:AE:129:ILE:C	2.62	0.43
12:AL:61:THR:C	12:AL:63:GLY:H	2.27	0.43
13:AM:91:ARG:NH2	19:AS:81:ARG:NH2	2.66	0.43
14:AN:12:ARG:NH1	14:AN:12:ARG:HB2	2.34	0.43
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.50	0.43
16:AP:42:ARG:O	16:AP:43:LYS:C	2.62	0.43
18:AR:87:ARG:HB3	18:AR:87:ARG:CZ	2.48	0.43
19:AS:70:LYS:O	19:AS:71:LEU:C	2.61	0.43
22:AV:14:A:H1'	22:AV:22:G:N2	2.33	0.43
24:AY:120:THR:C	24:AY:124:GLN:NE2	2.76	0.43
24:AY:165:GLN:HA	24:AY:178:ILE:O	2.19	0.43
24:AY:170:ARG:HD2	24:AY:170:ARG:H	1.84	0.43
24:AY:187:THR:OG1	24:AY:188:TYR:N	2.52	0.43
24:AY:225:GLU:CD	24:AY:225:GLU:H	2.27	0.43
24:AY:409:ILE:HG12	24:AY:656:ALA:CB	2.49	0.43
24:AY:485:GLU:HB2	24:AY:560:VAL:HA	1.99	0.43
24:AY:519:ARG:HD3	24:AY:677:GLN:HA	2.01	0.43
24:AY:601:ILE:O	24:AY:679:VAL:HG13	2.19	0.43
24:AY:656:ALA:C	24:AY:658:ASP:H	2.26	0.43
26:B1:4:VAL:HG23	26:B1:10:LYS:C	2.42	0.43
27:B2:14:ARG:HG3	27:B2:14:ARG:NH1	2.33	0.43
28:B3:19:GLN:O	28:B3:22:ALA:N	2.43	0.43
35:BA:294:A:H2'	35:BA:295:G:H5'	1.99	0.43
35:BA:476:G:H4'	35:BA:502:A:N1	2.33	0.43
35:BA:558:G:P	46:BN:111:PRO:HD2	2.57	0.43
35:BA:677:A:O2'	35:BA:678:C:H5'	2.19	0.43
35:BA:1144:G:C6	35:BA:1145:C:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1314:C:H5'	35:BA:1314:C:C6	2.37	0.43
35:BA:1338:G:N7	56:BX:62:LYS:NZ	2.59	0.43
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.53	0.43
35:BA:1452:A:H3'	35:BA:1453:U:H5'	1.91	0.43
35:BA:1565:C:C2	35:BA:1567:A:C8	3.06	0.43
35:BA:1575:C:O2	35:BA:1575:C:H2'	2.17	0.43
35:BA:1675:C:H2'	35:BA:1676:A:O4'	2.19	0.43
35:BA:1999:C:O2'	35:BA:2000:G:H5'	2.19	0.43
35:BA:2296:U:C4'	35:BA:2297:C:OP1	2.54	0.43
35:BA:2308:G:N7	35:BA:2310:A:C5'	2.70	0.43
35:BA:2749:A:C6	35:BA:2750:A:N6	2.86	0.43
36:BB:82:G:C2	36:BB:83:G:C8	3.07	0.43
36:BB:106:G:O2'	36:BB:107:G:H5'	2.18	0.43
37:BC:46:ALA:HA	37:BC:212:SER:O	2.18	0.43
38:BD:127:VAL:HG22	38:BD:194:GLY:HA3	2.01	0.43
38:BD:148:GLU:C	38:BD:151:LYS:HG3	2.44	0.43
38:BD:213:ARG:HD2	38:BD:213:ARG:HA	1.74	0.43
39:BE:21:VAL:O	39:BE:21:VAL:HG23	2.19	0.43
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	2.01	0.43
39:BE:38:THR:OG1	39:BE:41:LYS:HE2	2.18	0.43
39:BE:68:ALA:C	39:BE:70:ALA:N	2.76	0.43
39:BE:111:ARG:CZ	50:BR:2:ARG:NH2	2.81	0.43
40:BF:81:PRO:C	40:BF:83:PHE:N	2.76	0.43
40:BF:126:VAL:HG23	40:BF:127:GLU:N	2.32	0.43
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.82	0.43
44:BK:106:GLU:HG3	44:BK:107:ILE:N	2.32	0.43
44:BK:111:LYS:C	44:BK:113:PRO:HD2	2.43	0.43
47:BO:61:VAL:O	47:BO:84:ALA:HA	2.17	0.43
49:BQ:58:PHE:O	49:BQ:59:ARG:C	2.60	0.43
49:BQ:132:VAL:HB	49:BQ:137:TYR:OH	2.18	0.43
50:BR:12:ARG:HD3	50:BR:16:HIS:CD2	2.53	0.43
51:BS:74:ALA:HB2	51:BS:101:LEU:HD22	2.00	0.43
54:BV:5:VAL:HG22	54:BV:6:LYS:N	2.34	0.43
56:BX:10:ALA:O	56:BX:28:PHE:CB	2.64	0.43
58:BZ:14:LYS:C	58:BZ:16:SER:N	2.75	0.43
1:CA:34:C:H1'	12:CL:32:PHE:CZ	2.53	0.43
1:CA:115:G:H1'	1:CA:116:A:N7	2.33	0.43
1:CA:142:G:N3	1:CA:196:A:H2	2.17	0.43
1:CA:182:U:O2	1:CA:182:U:H2'	2.18	0.43
1:CA:502:G:OP1	12:CL:118:SER:N	2.39	0.43
1:CA:596:C:O5'	1:CA:596:C:H6	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:757:U:H2'	1:CA:758:G:O4'	2.19	0.43
1:CA:977:A:H3'	1:CA:977:A:N3	2.34	0.43
1:CA:1115:C:H1'	14:CN:61:TRP:O	2.18	0.43
1:CA:1174:G:O2'	1:CA:1175:G:H5'	2.19	0.43
1:CA:1347:G:H2'	1:CA:1373:G:O6	2.18	0.43
1:CA:1375:A:OP1	7:CG:12:LEU:HD21	2.18	0.43
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.18	0.43
1:CA:1443:G:C6	1:CA:1460:A:C2	3.06	0.43
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.15	0.43
2:CB:229:VAL:HG12	2:CB:230:VAL:N	2.33	0.43
3:CC:79:ARG:HB2	3:CC:79:ARG:NH1	2.14	0.43
3:CC:129:ALA:O	3:CC:131:ARG:N	2.52	0.43
4:CD:159:ARG:O	4:CD:162:LEU:N	2.52	0.43
5:CE:72:GLN:NE2	5:CE:144:THR:HG22	2.32	0.43
8:CH:30:ARG:HH11	8:CH:30:ARG:HB2	1.82	0.43
8:CH:104:ARG:O	8:CH:107:LEU:N	2.51	0.43
10:CJ:42:THR:HG23	10:CJ:67:THR:C	2.44	0.43
10:CJ:63:PHE:HB2	14:CN:57:ARG:O	2.19	0.43
11:CK:95:ILE:O	11:CK:96:ARG:C	2.62	0.43
12:CL:23:LYS:C	12:CL:24:VAL:HG23	2.43	0.43
15:CO:43:LEU:C	15:CO:45:VAL:N	2.74	0.43
16:CP:6:LEU:HG	16:CP:17:TYR:HB3	2.01	0.43
20:CT:49:ALA:HB3	20:CT:99:LEU:CD1	2.48	0.43
20:CT:75:ASN:O	20:CT:76:ALA:C	2.59	0.43
24:CY:454:MET:HE3	24:CY:454:MET:HB2	1.81	0.43
26:D1:4:VAL:HG23	26:D1:9:GLY:O	2.19	0.43
27:D2:14:ARG:HG3	27:D2:14:ARG:NH1	2.33	0.43
27:D2:48:HIS:O	27:D2:50:ILE:N	2.51	0.43
27:D2:62:THR:O	27:D2:65:ASN:HB2	2.18	0.43
30:D5:4:HIS:CB	30:D5:5:PRO:CD	2.92	0.43
31:D6:15:GLU:OE1	31:D6:41:PRO:HG3	2.19	0.43
32:D7:27:GLY:HA2	32:D7:30:VAL:CG2	2.49	0.43
33:D8:37:SER:O	33:D8:38:GLY:C	2.60	0.43
35:DA:1230:C:H2'	35:DA:1231:G:H8	1.83	0.43
35:DA:1314:C:OP1	35:DA:1315:C:OP2	2.36	0.43
35:DA:1326:U:H4'	35:DA:2011:U:O4'	2.19	0.43
35:DA:1416:G:N3	35:DA:1417:C:C4	2.87	0.43
35:DA:1614:A:H62	55:DW:93:ALA:HB2	1.83	0.43
35:DA:1638:C:O2'	35:DA:1639:U:H5'	2.18	0.43
35:DA:2552:U:H2'	35:DA:2554:U:H5''	2.00	0.43
38:DD:23:GLU:O	38:DD:24:ILE:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:45:ASN:HB2	38:DD:46:GLN:OE1	2.18	0.43
39:DE:27:LEU:HD12	39:DE:181:LEU:HD13	1.99	0.43
39:DE:36:ARG:NH1	39:DE:85:ASN:OD1	2.49	0.43
40:DF:187:VAL:CG1	48:DP:7:ARG:HH22	2.31	0.43
41:DG:45:GLU:OE2	41:DG:45:GLU:CA	2.65	0.43
41:DG:76:SER:HB3	41:DG:83:ARG:HB3	1.98	0.43
41:DG:84:LYS:O	41:DG:85:GLY:C	2.61	0.43
41:DG:141:PHE:CB	41:DG:144:ILE:HG22	2.46	0.43
41:DG:163:ALA:HB1	41:DG:168:GLU:HB2	1.99	0.43
42:DH:35:VAL:CG2	42:DH:75:ALA:HB2	2.49	0.43
42:DH:41:MET:HE2	42:DH:43:VAL:HG12	2.00	0.43
42:DH:154:PRO:HB2	42:DH:155:SER:H	1.59	0.43
49:DQ:56:ARG:NE	49:DQ:56:ARG:CA	2.77	0.43
50:DR:63:ARG:O	50:DR:67:LEU:HD23	2.19	0.43
52:DT:128:GLU:CD	52:DT:130:ALA:H	2.26	0.43
53:DU:76:TYR:O	53:DU:77:SER:C	2.61	0.43
54:DV:5:VAL:HG22	54:DV:6:LYS:N	2.33	0.43
56:DX:10:ALA:O	56:DX:28:PHE:CB	2.66	0.43
1:AA:67:C:H2'	1:AA:68:G:H8	1.83	0.43
1:AA:186:C:C2	1:AA:187:C:C5	3.06	0.43
1:AA:235:C:C5'	17:AQ:70:ARG:HG2	2.45	0.43
1:AA:697:U:H2'	1:AA:698:G:C5'	2.38	0.43
1:AA:1000:U:H6	1:AA:1000:U:H3'	1.84	0.43
1:AA:1316:G:O3'	14:AN:18:VAL:CG1	2.66	0.43
1:AA:1422:G:C2	1:AA:1423:G:C5	3.07	0.43
1:AA:1457:G:H8	1:AA:1457:G:O5'	2.01	0.43
2:AB:12:GLU:OE1	2:AB:12:GLU:N	2.39	0.43
2:AB:142:LEU:O	2:AB:146:GLN:HB2	2.19	0.43
2:AB:170:GLU:C	2:AB:172:ILE:HD12	2.43	0.43
2:AB:178:ARG:HH11	2:AB:178:ARG:CB	2.31	0.43
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.30	0.43
4:AD:9:CYS:SG	4:AD:22:LYS:HD2	2.59	0.43
4:AD:73:ARG:HA	4:AD:73:ARG:HD3	1.79	0.43
4:AD:103:ASN:O	4:AD:104:VAL:C	2.62	0.43
5:AE:119:LEU:HD23	5:AE:119:LEU:N	2.34	0.43
7:AG:22:LEU:O	7:AG:22:LEU:HD23	2.19	0.43
7:AG:62:PHE:O	7:AG:63:LYS:C	2.60	0.43
8:AH:46:LYS:HG3	8:AH:64:LYS:HB2	1.99	0.43
13:AM:3:ARG:CA	13:AM:9:ILE:HG13	2.45	0.43
13:AM:29:ARG:HB3	13:AM:64:TRP:CZ2	2.54	0.43
13:AM:57:ARG:HH12	29:B4:34:GLU:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:89:GLY:O	13:AM:90:LEU:C	2.61	0.43
17:AQ:67:LYS:CA	17:AQ:70:ARG:HH12	2.25	0.43
20:AT:86:ARG:HG3	20:AT:86:ARG:NH1	2.33	0.43
24:AY:484:ARG:HD3	24:AY:484:ARG:HA	1.60	0.43
24:AY:487:ILE:CD1	24:AY:487:ILE:N	2.81	0.43
25:B0:11:ARG:C	25:B0:12:ASN:ND2	2.76	0.43
26:B1:82:LEU:HD12	26:B1:82:LEU:N	2.33	0.43
28:B3:27:GLY:C	28:B3:28:LEU:HD23	2.43	0.43
35:BA:27:G:C2'	35:BA:28:A:OP2	2.66	0.43
35:BA:654(B):C:H2'	35:BA:654(C):G:C8	2.53	0.43
35:BA:786:C:HO2'	35:BA:787:U:H5'	1.84	0.43
35:BA:854:G:H1	35:BA:923:C:H42	1.67	0.43
35:BA:978:G:N2	35:BA:979:G:H1'	2.33	0.43
35:BA:1432:C:H2'	35:BA:1433:U:C6	2.54	0.43
35:BA:2081:C:H2'	35:BA:2082:A:C8	2.53	0.43
35:BA:2154:G:H2'	35:BA:2155:G:H8	1.83	0.43
35:BA:2287:A:N6	35:BA:2344:U:C2	2.86	0.43
35:BA:2701:C:H2'	35:BA:2702:U:H2'	2.00	0.43
36:BB:67:G:O2'	36:BB:68:C:H5'	2.18	0.43
38:BD:142:VAL:HG23	38:BD:192:THR:O	2.18	0.43
39:BE:1:MET:O	39:BE:2:LYS:O	2.36	0.43
39:BE:15:PHE:CZ	52:BT:80:SER:HB2	2.53	0.43
39:BE:93:VAL:HG12	39:BE:175:VAL:CG2	2.48	0.43
40:BF:8:GLN:HG2	40:BF:126:VAL:HG12	2.01	0.43
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.55	0.43
41:BG:149:VAL:O	41:BG:149:VAL:HG13	2.19	0.43
42:BH:35:VAL:HG21	42:BH:75:ALA:HB2	2.00	0.43
44:BK:129:GLY:C	44:BK:131:ALA:H	2.26	0.43
46:BN:13:TRP:O	46:BN:135:PRO:HD2	2.19	0.43
46:BN:24:GLY:CA	46:BN:27:ALA:HB3	2.49	0.43
46:BN:40:PRO:HB3	53:BU:68:ALA:HB2	2.01	0.43
46:BN:57:ALA:HB3	46:BN:124:ALA:HA	2.00	0.43
50:BR:24:GLN:NE2	50:BR:36:THR:HG21	2.34	0.43
51:BS:28:VAL:HG13	51:BS:36:TYR:O	2.18	0.43
52:BT:32:TYR:O	52:BT:33:LYS:HB2	2.19	0.43
53:BU:35:ALA:O	53:BU:36:ARG:C	2.61	0.43
55:BW:17:VAL:O	55:BW:19:LEU:N	2.51	0.43
58:BZ:63:ASP:C	58:BZ:65:GLN:H	2.27	0.43
58:BZ:77:ASP:O	58:BZ:78:LYS:C	2.61	0.43
1:CA:514:C:H2'	1:CA:515:G:H8	1.82	0.43
1:CA:1442(B):A:C2	52:DT:118:ARG:NH2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:21:ARG:HB3	2:CB:39:ILE:HG12	2.00	0.43
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.83	0.43
2:CB:70:PHE:O	2:CB:92:TYR:HA	2.17	0.43
3:CC:120:VAL:O	3:CC:121:ALA:C	2.60	0.43
5:CE:11:ILE:HD12	5:CE:31:LEU:HD13	2.01	0.43
5:CE:12:LEU:H	5:CE:12:LEU:HD12	1.82	0.43
7:CG:50:ILE:O	7:CG:54:THR:HG23	2.19	0.43
7:CG:120:ILE:O	7:CG:124:LEU:HB2	2.19	0.43
11:CK:34:ASP:C	11:CK:34:ASP:OD2	2.59	0.43
12:CL:22:SER:C	12:CL:24:VAL:H	2.25	0.43
13:CM:35:GLU:CG	13:CM:36:LYS:N	2.82	0.43
13:CM:46:LYS:HD3	13:CM:46:LYS:O	2.19	0.43
13:CM:79:LYS:HA	13:CM:82:MET:CG	2.48	0.43
15:CO:9:GLN:C	15:CO:11:VAL:N	2.77	0.43
16:CP:52:ASP:OD2	16:CP:52:ASP:C	2.61	0.43
17:CQ:9:VAL:CG1	17:CQ:56:VAL:HG22	2.48	0.43
18:CR:87:ARG:HB3	18:CR:87:ARG:CZ	2.48	0.43
19:CS:43:GLU:OE1	29:D4:56:VAL:HG22	2.18	0.43
19:CS:64:GLU:HG2	29:D4:48:ARG:HH21	1.79	0.43
22:CW:55:5MU:H2'	22:CW:56:U:O4'	2.18	0.43
24:CY:71:THR:HG21	24:CY:357:ARG:CD	2.47	0.43
24:CY:85:PRO:HA	24:CY:94:VAL:HG22	2.00	0.43
24:CY:630:GLN:HE22	24:CY:646:PHE:HB2	1.84	0.43
24:CY:688:ILE:HD12	24:CY:688:ILE:N	2.33	0.43
27:D2:40:SER:O	27:D2:42:GLY:N	2.51	0.43
28:D3:31:LEU:HD12	35:DA:1157:G:O2'	2.18	0.43
32:D7:46:VAL:CG1	32:D7:47:ARG:H	2.32	0.43
34:D9:29:ASN:N	34:D9:29:ASN:HD22	2.17	0.43
35:DA:245:G:O2'	35:DA:246:C:H5'	2.19	0.43
35:DA:332:A:O2'	35:DA:334:C:OP2	2.35	0.43
35:DA:445:C:O2	35:DA:449:A:H2	2.01	0.43
35:DA:520:G:H2'	35:DA:521:G:C8	2.52	0.43
35:DA:1541:G:H5''	35:DA:1542:A:OP1	2.17	0.43
35:DA:1668:A:H4'	35:DA:1669:A:O5'	2.19	0.43
35:DA:1693:U:O2'	38:DD:14:ARG:NH2	2.51	0.43
35:DA:2009:G:O2'	35:DA:2010:G:H5'	2.19	0.43
35:DA:2376:A:O2'	51:DS:108:GLY:HA2	2.18	0.43
35:DA:2400:G:N2	35:DA:2417:C:C2	2.87	0.43
35:DA:2841:C:O2'	35:DA:2842:G:H5'	2.19	0.43
37:DC:73:VAL:O	37:DC:73:VAL:HG13	2.18	0.43
37:DC:90:ALA:HA	37:DC:155:ARG:HH12	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:92:ILE:H	38:DD:92:ILE:HD13	1.82	0.43
39:DE:142:GLY:C	39:DE:143:ASN:ND2	2.76	0.43
41:DG:11:TYR:OH	41:DG:33:ARG:CG	2.67	0.43
41:DG:42:GLY:C	41:DG:43:LEU:HD22	2.43	0.43
41:DG:55:LYS:HD3	41:DG:56:ALA:CA	2.47	0.43
41:DG:67:LYS:HD3	41:DG:68:PRO:O	2.19	0.43
41:DG:125:PHE:CE1	41:DG:170:ARG:HD2	2.53	0.43
42:DH:92:ILE:C	42:DH:94:TYR:N	2.75	0.43
43:DJ:108:UNK:O	43:DJ:109:UNK:C	2.65	0.43
48:DP:12:ALA:CB	48:DP:16:ARG:HB3	2.49	0.43
48:DP:107:LYS:HB2	48:DP:107:LYS:HE3	1.79	0.43
49:DQ:55:VAL:O	49:DQ:56:ARG:C	2.62	0.43
50:DR:11:ASN:CG	50:DR:12:ARG:H	2.24	0.43
50:DR:87:TYR:C	50:DR:89:ASP:N	2.65	0.43
51:DS:64:GLU:CD	51:DS:64:GLU:N	2.73	0.43
52:DT:90:GLN:O	52:DT:92:GLY:N	2.51	0.43
53:DU:5:LYS:HE3	53:DU:5:LYS:HB2	1.86	0.43
53:DU:91:ASP:O	53:DU:92:ARG:HB3	2.19	0.43
55:DW:66:GLU:HG3	55:DW:69:LEU:HD12	1.99	0.43
58:DZ:39:VAL:O	58:DZ:39:VAL:HG23	2.19	0.43
1:AA:323:U:H2'	1:AA:324:G:O4'	2.19	0.43
1:AA:608:A:O2'	1:AA:609:A:H5'	2.19	0.43
1:AA:636:U:H2'	1:AA:637:G:H8	1.83	0.43
1:AA:743:U:H2'	1:AA:744:C:C6	2.53	0.43
3:AC:32:LEU:HD22	3:AC:59:ARG:HH12	1.83	0.43
3:AC:129:ALA:O	3:AC:131:ARG:N	2.51	0.43
4:AD:18:LYS:HE2	4:AD:20:TYR:CE2	2.53	0.43
7:AG:129:GLU:OE2	7:AG:131:LYS:HE2	2.18	0.43
7:AG:144:MET:O	7:AG:147:ALA:HB3	2.19	0.43
10:AJ:30:SER:O	10:AJ:81:THR:HG23	2.18	0.43
10:AJ:61:GLU:HG3	14:AN:58:LYS:HZ1	1.81	0.43
15:AO:48:LYS:HD3	15:AO:48:LYS:HA	1.72	0.43
16:AP:27:LYS:HG2	16:AP:30:GLY:HA3	2.00	0.43
19:AS:15:LEU:HD13	19:AS:31:ILE:HD11	2.01	0.43
21:AU:6:ARG:NH2	21:AU:15:ARG:HH22	2.17	0.43
22:AV:29:G:O2'	22:AV:30:G:H5'	2.19	0.43
24:AY:228:MET:CE	24:AY:229:LEU:HG	2.48	0.43
24:AY:260:LEU:HD13	24:AY:260:LEU:N	2.33	0.43
24:AY:309:LEU:HD12	24:AY:309:LEU:C	2.43	0.43
24:AY:519:ARG:HH12	24:AY:678:GLU:CB	2.32	0.43
24:AY:525:PHE:HA	24:AY:565:VAL:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:549:ALA:C	24:AY:551:GLN:H	2.27	0.43
25:B0:37:LEU:HG	25:B0:60:PHE:HA	2.01	0.43
27:B2:38:GLN:HA	27:B2:41:ILE:HG12	2.01	0.43
27:B2:59:ARG:H	27:B2:59:ARG:HG2	1.47	0.43
29:B4:31:ILE:HG23	29:B4:33:VAL:HG23	2.00	0.43
33:B8:61:LEU:N	33:B8:63:PRO:HD2	2.34	0.43
34:B9:16:VAL:O	35:BA:1033:U:H5	2.00	0.43
35:BA:329:G:H4'	35:BA:330:A:OP2	2.17	0.43
35:BA:331:A:O2'	35:BA:332:A:OP1	2.27	0.43
35:BA:525:U:O2'	35:BA:526:A:H5''	2.19	0.43
35:BA:797:C:H2'	35:BA:798:G:C8	2.53	0.43
35:BA:950:G:H2'	35:BA:951:C:C6	2.53	0.43
35:BA:1310:G:C2'	35:BA:1311:G:H5'	2.49	0.43
35:BA:1349:A:N6	35:BA:1598:C:N4	2.67	0.43
35:BA:1434:A:N3	35:BA:1434:A:H2'	2.34	0.43
35:BA:1843:C:H2'	35:BA:1844:C:H6	1.84	0.43
35:BA:1930:G:O2'	35:BA:1931:U:O5'	2.36	0.43
35:BA:2116:G:N7	35:BA:2117:A:C4	2.87	0.43
35:BA:2167:U:H2'	35:BA:2168:G:O4'	2.18	0.43
35:BA:2483:C:H5'	35:BA:2484:G:OP2	2.19	0.43
35:BA:2876:G:OP1	52:BT:2:ASN:O	2.37	0.43
36:BB:5:C:O2'	36:BB:6:C:H5'	2.19	0.43
36:BB:25:A:C2	36:BB:26:A:C4	3.07	0.43
36:BB:48:A:OP1	51:BS:93:LYS:HB3	2.18	0.43
36:BB:51:G:H5'	36:BB:52:A:OP2	2.18	0.43
37:BC:139:PRO:HA	37:BC:145:THR:CB	2.49	0.43
38:BD:21:PHE:C	38:BD:23:GLU:N	2.76	0.43
38:BD:210:GLY:C	38:BD:212:SER:N	2.76	0.43
39:BE:165:VAL:HB	39:BE:189:PRO:HB3	2.01	0.43
40:BF:7:TYR:CD2	40:BF:16:GLY:CA	2.99	0.43
40:BF:170:LEU:N	40:BF:170:LEU:CD2	2.81	0.43
41:BG:97:ASP:O	41:BG:101:ILE:HG13	2.18	0.43
41:BG:108:ASN:O	41:BG:109:VAL:CG2	2.62	0.43
42:BH:52:VAL:HG12	42:BH:52:VAL:O	2.18	0.43
44:BK:3:LYS:HB3	44:BK:3:LYS:HE3	1.78	0.43
46:BN:99:LEU:O	46:BN:102:ALA:HB3	2.18	0.43
48:BP:64:LYS:O	48:BP:66:GLY:N	2.42	0.43
48:BP:113:LYS:HA	48:BP:129:ALA:O	2.19	0.43
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.17	0.43
55:BW:47:VAL:HG12	55:BW:47:VAL:O	2.18	0.43
58:BZ:120:ILE:HB	58:BZ:172:ALA:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:732:C:H2'	1:CA:733:A:H5''	2.01	0.43
1:CA:1298:C:C5	7:CG:114:ARG:HD3	2.53	0.43
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.19	0.43
2:CB:137:ARG:HG2	2:CB:137:ARG:NH1	2.34	0.43
3:CC:111:LEU:CD2	3:CC:141:VAL:HG13	2.49	0.43
4:CD:9:CYS:SG	4:CD:22:LYS:HD2	2.58	0.43
9:CI:11:LYS:O	9:CI:11:LYS:HG2	2.18	0.43
9:CI:73:GLN:O	9:CI:75:ASP:N	2.52	0.43
13:CM:91:ARG:HD3	13:CM:97:PRO:O	2.19	0.43
15:CO:26:GLU:OE2	15:CO:77:ARG:HB2	2.18	0.43
19:CS:61:TYR:CG	19:CS:62:ILE:N	2.87	0.43
26:D1:94:LEU:C	26:D1:96:LYS:N	2.77	0.43
27:D2:50:ILE:HG23	27:D2:54:LYS:HE3	2.00	0.43
29:D4:26:SER:OG	29:D4:27:THR:N	2.51	0.43
30:D5:44:THR:CG2	50:DR:101:ALA:HB2	2.30	0.43
35:DA:512:G:O2'	35:DA:513:A:H8	2.02	0.43
35:DA:1385:G:H1'	35:DA:1386:C:C6	2.53	0.43
35:DA:2080:G:C2	35:DA:2241:A:C2	3.07	0.43
35:DA:2154:G:H2'	35:DA:2155:G:C8	2.54	0.43
35:DA:2219:G:H8	35:DA:2219:G:O5'	2.01	0.43
35:DA:2552:U:C2	35:DA:2554:U:C5'	3.01	0.43
36:DB:90:A:C8	36:DB:91:C:H1'	2.54	0.43
38:DD:43:ARG:NH1	38:DD:49:ILE:HG22	2.32	0.43
38:DD:144:ALA:HB3	38:DD:192:THR:CG2	2.44	0.43
38:DD:213:ARG:O	38:DD:215:LEU:N	2.52	0.43
39:DE:45:THR:O	39:DE:46:ALA:CB	2.66	0.43
39:DE:120:TRP:O	39:DE:121:ASN:C	2.62	0.43
40:DF:132:VAL:O	40:DF:133:ASN:HB2	2.19	0.43
40:DF:160:ASN:HD22	40:DF:160:ASN:C	2.25	0.43
46:DN:22:THR:HB	46:DN:25:ARG:CB	2.46	0.43
46:DN:34:LEU:O	46:DN:116:LEU:HD22	2.18	0.43
46:DN:43:THR:HG22	46:DN:45:ASN:HD22	1.84	0.43
46:DN:99:LEU:O	46:DN:102:ALA:HB3	2.19	0.43
46:DN:103:VAL:O	46:DN:104:LYS:C	2.62	0.43
47:DO:60:ALA:HA	47:DO:87:ILE:HD11	2.01	0.43
50:DR:106:GLY:O	50:DR:107:ASP:HB3	2.17	0.43
55:DW:8:ARG:O	55:DW:9:TYR:C	2.62	0.43
56:DX:41:ASN:HA	56:DX:44:GLU:HG2	2.00	0.43
1:AA:417:C:H2'	1:AA:418:C:H6	1.84	0.43
1:AA:509:A:H5'	1:AA:510:A:P	2.51	0.43
1:AA:666:G:N2	1:AA:667:G:H1'	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:714:G:H2'	1:AA:715:A:C8	2.53	0.43
1:AA:786:G:C2	1:AA:787:A:C4	3.07	0.43
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.53	0.43
1:AA:1202:G:H2'	1:AA:1203:C:H5'	2.00	0.43
1:AA:1347:G:H2'	1:AA:1373:G:N1	2.34	0.43
2:AB:117:GLU:O	2:AB:120:ALA:HB3	2.19	0.43
2:AB:152:PHE:C	2:AB:152:PHE:CD1	2.96	0.43
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	2.00	0.43
4:AD:92:VAL:O	4:AD:95:GLY:N	2.52	0.43
5:AE:69:VAL:HA	5:AE:70:PRO:HD2	1.82	0.43
5:AE:105:VAL:O	5:AE:106:PRO:C	2.61	0.43
7:AG:4:ARG:C	7:AG:5:ARG:HD2	2.44	0.43
7:AG:79:ARG:O	7:AG:79:ARG:HD2	2.19	0.43
8:AH:120:THR:O	8:AH:121:ASP:C	2.60	0.43
9:AI:114:TYR:CD1	10:AJ:60:ARG:HG3	2.53	0.43
10:AJ:4:ILE:N	10:AJ:4:ILE:CD1	2.79	0.43
10:AJ:35:SER:O	10:AJ:36:GLY:C	2.62	0.43
12:AL:37:CYS:HB3	12:AL:79:GLU:O	2.18	0.43
12:AL:86:ARG:NH2	12:AL:99:HIS:CG	2.87	0.43
12:AL:105:TYR:C	12:AL:107:ALA:H	2.27	0.43
15:AO:26:GLU:OE2	15:AO:77:ARG:HB2	2.19	0.43
19:AS:57:HIS:O	19:AS:59:PRO:HD3	2.19	0.43
19:AS:65:ASN:HA	29:B4:48:ARG:CZ	2.49	0.43
24:AY:138:LYS:HG2	62:AY:703:GDP:C6	2.54	0.43
24:AY:250:THR:C	24:AY:252:ASP:N	2.77	0.43
24:AY:315:LYS:HZ2	24:AY:317:MET:HG2	1.83	0.43
24:AY:350:GLU:HG3	24:AY:380:LEU:HG	2.01	0.43
24:AY:641:GLN:HE21	24:AY:641:GLN:HB2	1.63	0.43
31:B6:17:LYS:CB	31:B6:44:ARG:NH1	2.82	0.43
33:B8:9:GLY:O	33:B8:13:ARG:HG2	2.19	0.43
35:BA:36:G:H4'	35:BA:451:C:C2	2.54	0.43
35:BA:78:A:H2'	35:BA:79:G:H8	1.84	0.43
35:BA:87:C:OP2	35:BA:90:U:O4	2.37	0.43
35:BA:420:C:H2'	35:BA:421:U:C6	2.54	0.43
35:BA:945:A:C2	35:BA:2448:A:N1	2.87	0.43
35:BA:1114:G:O2'	35:BA:1115:G:H5''	2.19	0.43
35:BA:1149:G:H2'	35:BA:1150:C:H6	1.83	0.43
35:BA:1263:U:C4	35:BA:1264:G:C6	3.06	0.43
35:BA:1680:U:O2	35:BA:1763:G:H3'	2.18	0.43
35:BA:1947:C:H2'	35:BA:1948:G:H8	1.82	0.43
35:BA:2219:G:C2'	35:BA:2220:G:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2345:G:N7	35:BA:2372:G:C2	2.87	0.43
35:BA:2785:C:H1'	39:BE:64:LYS:NZ	2.34	0.43
35:BA:2881:C:C2	35:BA:2882:A:C8	3.06	0.43
37:BC:97:GLY:C	37:BC:99:GLU:H	2.27	0.43
37:BC:127:LYS:O	37:BC:128:LEU:HD23	2.18	0.43
38:BD:23:GLU:O	38:BD:24:ILE:C	2.61	0.43
39:BE:38:THR:C	39:BE:40:GLU:N	2.75	0.43
40:BF:117:ARG:NH1	40:BF:120:GLU:OE1	2.52	0.43
40:BF:198:ALA:HA	40:BF:201:VAL:HG12	2.01	0.43
41:BG:9:ARG:HG2	41:BG:13:GLU:OE1	2.18	0.43
41:BG:56:ALA:HB2	41:BG:153:ARG:NH2	2.34	0.43
44:BK:8:VAL:CG1	44:BK:10:LEU:HG	2.47	0.43
47:BO:104:ARG:CZ	52:BT:33:LYS:HD2	2.48	0.43
47:BO:106:LEU:O	47:BO:107:ARG:C	2.62	0.43
49:BQ:21:THR:OG1	49:BQ:99:PRO:O	2.37	0.43
51:BS:25:ARG:CG	51:BS:26:LEU:H	2.30	0.43
51:BS:77:ALA:HB1	51:BS:82:ILE:HB	2.00	0.43
51:BS:104:GLY:O	51:BS:106:ARG:N	2.47	0.43
53:BU:29:SER:OG	53:BU:30:LYS:HE2	2.19	0.43
53:BU:52:ARG:O	53:BU:53:ARG:C	2.61	0.43
53:BU:59:ARG:O	53:BU:60:LEU:C	2.61	0.43
55:BW:70:TYR:HB3	55:BW:110:LYS:NZ	2.33	0.43
55:BW:72:LYS:H	55:BW:107:LEU:HA	1.84	0.43
1:CA:40:C:H2'	1:CA:41:G:H8	1.82	0.43
1:CA:143:A:N1	1:CA:220:G:O6	2.52	0.43
1:CA:786:G:C2	1:CA:787:A:C4	3.06	0.43
1:CA:1002:G:C8	1:CA:1003:G:N7	2.86	0.43
1:CA:1008:C:O5'	1:CA:1008:C:H6	2.02	0.43
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.37	0.43
1:CA:1218:C:H2'	1:CA:1219:U:C5	2.54	0.43
1:CA:1260:C:O5'	1:CA:1284:C:H4'	2.18	0.43
1:CA:1352:C:OP1	21:CU:3:LYS:CE	2.67	0.43
1:CA:1360:A:H2'	1:CA:1361:G:C8	2.53	0.43
2:CB:205:ASP:CG	2:CB:206:ASP:OD1	2.62	0.43
3:CC:50:ALA:HA	3:CC:72:LYS:HB3	2.01	0.43
3:CC:140:ARG:HG3	3:CC:140:ARG:NH1	2.34	0.43
4:CD:121:VAL:CA	4:CD:126:ILE:HD13	2.47	0.43
4:CD:192:GLU:H	4:CD:192:GLU:CD	2.25	0.43
5:CE:78:HIS:HE1	5:CE:80:ILE:CG2	2.30	0.43
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.34	0.43
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:66:GLY:O	8:CH:76:PRO:HB3	2.18	0.43
8:CH:122:ARG:HH11	8:CH:122:ARG:HB3	1.83	0.43
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.79	0.43
12:CL:47:LYS:HB3	12:CL:47:LYS:HZ2	1.84	0.43
13:CM:66:LEU:O	13:CM:67:GLU:O	2.37	0.43
13:CM:94:ARG:CZ	19:CS:82:GLY:N	2.81	0.43
14:CN:24:CYS:SG	14:CN:39:LEU:HA	2.59	0.43
15:CO:18:PHE:CD1	15:CO:18:PHE:O	2.71	0.43
18:CR:79:LEU:HD23	18:CR:79:LEU:HA	1.91	0.43
22:CW:66:C:C4	22:CW:67:C:N4	2.86	0.43
26:D1:4:VAL:CG2	26:D1:5:CYS:N	2.81	0.43
26:D1:34:THR:HG21	26:D1:37:ILE:HG13	2.01	0.43
26:D1:75:GLU:HA	26:D1:75:GLU:OE1	2.18	0.43
33:D8:9:GLY:O	33:D8:13:ARG:HG2	2.18	0.43
33:D8:61:LEU:N	33:D8:63:PRO:HD2	2.34	0.43
34:D9:29:ASN:HA	34:D9:30:PRO:HD2	1.89	0.43
35:DA:11:G:H2'	35:DA:12:U:H6	1.81	0.43
35:DA:64:A:C5	56:DX:66:LEU:HD13	2.54	0.43
35:DA:299:A:H1'	35:DA:322:A:N6	2.33	0.43
35:DA:420:C:H2'	35:DA:421:U:C6	2.54	0.43
35:DA:448:U:C4	35:DA:583:G:H1'	2.54	0.43
35:DA:483:A:C2	35:DA:484:C:C1'	3.02	0.43
35:DA:839:U:H2'	35:DA:840:C:H6	1.80	0.43
35:DA:1166:C:H2'	35:DA:1167:U:H6	1.84	0.43
35:DA:1263:U:H2'	35:DA:1264:G:C8	2.53	0.43
35:DA:2122:U:O2'	37:DC:173:HIS:HD2	2.01	0.43
35:DA:2291:U:OP1	35:DA:2380:C:O2'	2.36	0.43
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.18	0.43
35:DA:2390:U:O2'	35:DA:2391:G:H5'	2.18	0.43
35:DA:2467:C:O2	49:DQ:124:LYS:NZ	2.52	0.43
35:DA:2785:C:H1'	39:DE:64:LYS:NZ	2.34	0.43
35:DA:2801(A):A:H4'	35:DA:2802:G:H8	1.81	0.43
35:DA:2850:A:OP2	35:DA:2866:U:H5	2.02	0.43
35:DA:2889:C:H2'	35:DA:2891:G:O4'	2.19	0.43
36:DB:25:A:C2	36:DB:26:A:C4	3.06	0.43
36:DB:76:G:H21	58:DZ:75:ASN:HD22	1.66	0.43
38:DD:148:GLU:C	38:DD:151:LYS:HG3	2.43	0.43
38:DD:227:ASN:O	38:DD:228:PRO:C	2.61	0.43
39:DE:6:GLY:C	39:DE:196:VAL:HG22	2.44	0.43
39:DE:15:PHE:CZ	52:DT:80:SER:HB2	2.54	0.43
39:DE:152:LYS:HG3	39:DE:153:GLY:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:10:PRO:HB3	40:DF:127:GLU:CG	2.49	0.43
40:DF:25:PRO:CB	40:DF:119:ARG:HB2	2.48	0.43
42:DH:149:ARG:HA	42:DH:162:ILE:CG1	2.48	0.43
46:DN:43:THR:HB	46:DN:46:VAL:CG1	2.46	0.43
46:DN:43:THR:HG22	46:DN:45:ASN:ND2	2.33	0.43
46:DN:109:LYS:H	46:DN:109:LYS:HE3	1.84	0.43
50:DR:101:ALA:O	50:DR:102:GLU:HB2	2.19	0.43
51:DS:78:LEU:HD11	51:DS:103:GLU:HB3	2.01	0.43
53:DU:112:ARG:CG	53:DU:112:ARG:NH1	2.82	0.43
55:DW:28:SER:C	55:DW:30:GLU:N	2.75	0.43
57:DY:2:ARG:HD3	57:DY:2:ARG:C	2.44	0.43
1:AA:47:C:H6	1:AA:365:U:H2'	1.84	0.43
1:AA:66:G:C4'	1:AA:173:U:C5	3.00	0.43
1:AA:277:C:C2'	1:AA:278:G:H5'	2.49	0.43
1:AA:342:C:C5	1:AA:343:U:C5	3.06	0.43
1:AA:450:G:H1	1:AA:483:C:H42	1.66	0.43
1:AA:954:G:H2'	1:AA:955:U:O4'	2.18	0.43
1:AA:965:A:C2	1:AA:969:A:N1	2.87	0.43
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.18	0.43
1:AA:1037:C:H2'	1:AA:1038:C:N1	2.33	0.43
1:AA:1209:C:O2'	1:AA:1210:C:H5'	2.18	0.43
1:AA:1237:C:H3'	1:AA:1336:C:N4	2.33	0.43
1:AA:1305:G:H5''	21:AU:4:GLY:C	2.43	0.43
1:AA:1360:A:H2'	1:AA:1361:G:C8	2.53	0.43
1:AA:1411:C:H2'	1:AA:1411:C:O2	2.19	0.43
1:AA:1522:U:H2'	1:AA:1523:G:C8	2.49	0.43
2:AB:39:ILE:HG22	2:AB:41:ILE:HD12	2.00	0.43
4:AD:96:LEU:O	4:AD:99:SER:N	2.51	0.43
7:AG:85:TYR:CD1	7:AG:154:TYR:HE1	2.37	0.43
8:AH:6:ILE:O	8:AH:9:MET:N	2.52	0.43
8:AH:44:PHE:HE2	8:AH:109:ILE:HG21	1.83	0.43
11:AK:109:VAL:HG13	18:AR:85:LEU:O	2.19	0.43
13:AM:66:LEU:HA	13:AM:70:LEU:HD13	2.01	0.43
15:AO:43:LEU:C	15:AO:45:VAL:N	2.76	0.43
15:AO:78:TYR:O	15:AO:79:ARG:C	2.62	0.43
18:AR:66:LEU:HG	18:AR:70:ILE:CD1	2.49	0.43
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.52	0.43
24:AY:208:GLN:O	24:AY:209:ALA:O	2.37	0.43
24:AY:238:THR:HG23	24:AY:240:GLU:HG2	2.00	0.43
24:AY:415:PRO:HB2	24:AY:421:GLN:HA	2.00	0.43
24:AY:447:GLY:O	24:AY:448:GLN:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:539:ILE:N	24:AY:540:PRO:CD	2.81	0.43
24:AY:609:GLU:HB2	24:AY:670:VAL:CG2	2.49	0.43
29:B4:31:ILE:O	29:B4:31:ILE:HG22	2.18	0.43
35:BA:271(E):U:H3	35:BA:271(S):G:H1	1.66	0.43
35:BA:361:G:N2	35:BA:362:U:H1'	2.34	0.43
35:BA:565:C:O2'	35:BA:566:U:H5'	2.19	0.43
35:BA:581:C:C2	35:BA:582:G:N7	2.87	0.43
35:BA:1174:A:H5'	35:BA:1175:U:H5''	2.01	0.43
35:BA:1463:C:H2'	35:BA:1464:C:H6	1.82	0.43
35:BA:1567:A:OP2	38:BD:84:TYR:OH	2.33	0.43
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.54	0.43
35:BA:1765:C:H2'	35:BA:1766:U:H6	1.83	0.43
35:BA:2197:U:H1'	35:BA:2198:A:C8	2.53	0.43
35:BA:2531:A:H4'	42:BH:157:TYR:CD2	2.53	0.43
35:BA:2578:G:N2	35:BA:2579:C:C2	2.87	0.43
35:BA:2821:A:OP2	39:BE:110:GLY:O	2.37	0.43
35:BA:2848:G:OP2	52:BT:97:ALA:N	2.49	0.43
35:BA:2849:U:H1'	35:BA:2866:U:H6	1.84	0.43
36:BB:89:G:C6	36:BB:90:A:N1	2.87	0.43
36:BB:96:U:H2'	36:BB:97:G:H8	1.84	0.43
42:BH:56:SER:HG	42:BH:61:HIS:CE1	2.32	0.43
42:BH:92:ILE:HG22	42:BH:93:GLY:N	2.33	0.43
44:BK:4:VAL:CG1	44:BK:5:VAL:H	2.10	0.43
44:BK:72:PRO:O	44:BK:73:PRO:C	2.62	0.43
47:BO:120:GLU:OE2	47:BO:122:LEU:HD21	2.18	0.43
48:BP:98:GLU:O	48:BP:102:ARG:NH2	2.52	0.43
50:BR:18:LEU:C	50:BR:20:LEU:N	2.74	0.43
51:BS:13:ARG:CG	51:BS:14:VAL:N	2.64	0.43
51:BS:63:THR:O	51:BS:66:ALA:N	2.51	0.43
55:BW:12:ILE:CG1	55:BW:42:ARG:NH1	2.81	0.43
56:BX:46:ALA:C	56:BX:47:PHE:CD1	2.97	0.43
57:BY:54:LYS:HE2	57:BY:55:TYR:HE2	1.84	0.43
58:BZ:81:ARG:HB3	58:BZ:81:ARG:NH1	2.34	0.43
1:CA:61:G:H2'	1:CA:62:U:O4'	2.19	0.43
1:CA:398:C:H2'	1:CA:399:G:H8	1.84	0.43
1:CA:405:U:OP2	4:CD:3:ARG:HD2	2.19	0.43
1:CA:499:A:O2'	1:CA:500:G:C8	2.65	0.43
1:CA:596:C:OP2	1:CA:597:G:OP2	2.37	0.43
1:CA:785:G:C2'	1:CA:786:G:H5'	2.48	0.43
1:CA:822:C:O2'	1:CA:823:G:H5'	2.18	0.43
1:CA:1347:G:H2'	1:CA:1373:G:N1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:95:GLN:HA	2:CB:95:GLN:OE1	2.19	0.43
2:CB:142:LEU:CD2	2:CB:146:GLN:NE2	2.82	0.43
2:CB:178:ARG:HH11	2:CB:178:ARG:CB	2.31	0.43
2:CB:233:SER:HB2	2:CB:234:PRO:HD3	1.98	0.43
3:CC:70:VAL:HG21	3:CC:76:VAL:HG11	2.00	0.43
4:CD:108:LEU:HD23	4:CD:110:PHE:CZ	2.53	0.43
4:CD:129:ASN:ND2	4:CD:129:ASN:N	2.66	0.43
5:CE:78:HIS:ND1	5:CE:79:GLU:N	2.67	0.43
7:CG:65:ALA:HB2	7:CG:128:ALA:HB2	2.00	0.43
8:CH:1:MET:O	8:CH:2:LEU:C	2.61	0.43
10:CJ:24:VAL:C	10:CJ:26:ALA:N	2.75	0.43
13:CM:29:ARG:HB3	13:CM:64:TRP:CZ2	2.54	0.43
13:CM:91:ARG:CD	13:CM:97:PRO:O	2.67	0.43
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.67	0.43
14:CN:41:ARG:C	14:CN:41:ARG:HD2	2.44	0.43
14:CN:57:ARG:O	14:CN:58:LYS:C	2.62	0.43
16:CP:55:ARG:O	16:CP:56:ALA:C	2.61	0.43
24:CY:226:ASN:O	24:CY:228:MET:N	2.51	0.43
24:CY:315:LYS:NZ	24:CY:317:MET:CG	2.82	0.43
24:CY:495:GLY:O	24:CY:509:HIS:HA	2.18	0.43
24:CY:621:ILE:HD12	35:DA:1095:A:H1'	2.01	0.43
27:D2:48:HIS:O	27:D2:49:LYS:C	2.62	0.43
30:D5:16:ARG:HH11	30:D5:16:ARG:HG2	1.84	0.43
31:D6:11:LEU:C	31:D6:12:GLU:HG3	2.44	0.43
31:D6:51:GLU:HG2	31:D6:52:VAL:N	2.31	0.43
35:DA:83:G:N2	35:DA:103:A:OP2	2.52	0.43
35:DA:332:A:H4'	35:DA:333:G:OP1	2.19	0.43
35:DA:930:U:H4'	35:DA:931:G:O5'	2.19	0.43
35:DA:1315:C:H42	35:DA:1337:G:H1	1.66	0.43
35:DA:1654:A:O2'	39:DE:113:PHE:O	2.37	0.43
35:DA:1814:G:C4'	38:DD:51:VAL:HG21	2.49	0.43
35:DA:1971:A:N3	38:DD:241:PRO:HD3	2.34	0.43
35:DA:2089:U:O2'	35:DA:2090:G:H5'	2.18	0.43
35:DA:2572:A:C8	39:DE:144:ARG:CB	3.02	0.43
37:DC:139:PRO:HA	37:DC:145:THR:HG21	2.01	0.43
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	2.01	0.43
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	2.00	0.43
39:DE:72:VAL:O	39:DE:73:GLU:C	2.61	0.43
41:DG:97:ASP:O	41:DG:101:ILE:HB	2.18	0.43
42:DH:38:SER:HA	42:DH:39:PRO:HD3	1.84	0.43
49:DQ:69:PHE:CD1	49:DQ:70:PRO:HD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:132:VAL:HB	49:DQ:137:TYR:OH	2.19	0.43
52:DT:14:TYR:N	52:DT:14:TYR:CD1	2.87	0.43
58:DZ:25:PRO:HA	58:DZ:38:TYR:CB	2.49	0.43
58:DZ:133:ILE:N	58:DZ:134:PRO:CD	2.81	0.43
1:AA:322:C:H4'	20:AT:23:ARG:HD2	2.01	0.43
1:AA:534:U:H5'	1:AA:534:U:H6	1.84	0.43
1:AA:596:C:H6	1:AA:596:C:O5'	2.02	0.43
1:AA:769:G:O2'	1:AA:770:C:H5'	2.19	0.43
5:AE:78:HIS:HE1	5:AE:80:ILE:HG23	1.83	0.43
8:AH:114:THR:C	8:AH:116:LYS:N	2.75	0.43
9:AI:56:LEU:HD23	9:AI:56:LEU:O	2.19	0.43
13:AM:10:PRO:O	13:AM:11:ARG:CB	2.66	0.43
15:AO:33:THR:HG23	15:AO:63:ARG:NH1	2.33	0.43
22:AV:9:G:N3	22:AV:45:G:H2'	2.33	0.43
24:AY:152:THR:C	24:AY:154:GLN:N	2.77	0.43
24:AY:166:LEU:HD21	24:AY:212:TYR:CD2	2.53	0.43
24:AY:229:LEU:O	24:AY:231:TYR:N	2.52	0.43
24:AY:276:VAL:HG12	24:AY:277:VAL:N	2.34	0.43
24:AY:415:PRO:HB2	24:AY:421:GLN:N	2.34	0.43
24:AY:623:ASP:HB2	24:AY:662:LYS:HE3	2.01	0.43
24:AY:659:LEU:HD13	24:AY:659:LEU:O	2.18	0.43
28:B3:1:MET:HB3	28:B3:2:PRO:HD2	2.01	0.43
29:B4:28:LYS:HA	29:B4:28:LYS:HE3	2.01	0.43
31:B6:17:LYS:O	31:B6:18:ARG:O	2.37	0.43
33:B8:60:LEU:C	33:B8:63:PRO:HD2	2.44	0.43
35:BA:143(A):C:O2	35:BA:143(A):C:H2'	2.17	0.43
35:BA:186:G:C2	35:BA:211:A:C2	3.06	0.43
35:BA:272(I):U:C5	35:BA:363(A):A:C2	3.07	0.43
35:BA:545:C:C3'	35:BA:547:A:C5'	2.95	0.43
35:BA:708:C:H42	35:BA:723:G:H1	1.67	0.43
35:BA:739:G:H8	35:BA:739:G:OP2	2.02	0.43
35:BA:769:G:HO2'	35:BA:770:G:H5'	1.81	0.43
35:BA:833:U:OP1	48:BP:45:LEU:HD21	2.18	0.43
35:BA:977:G:H2'	35:BA:978:G:H8	1.83	0.43
35:BA:1161:C:H2'	35:BA:1162:G:C8	2.54	0.43
35:BA:1545:A:N7	35:BA:1546:C:C2	2.86	0.43
35:BA:2488:A:H2'	35:BA:2489:G:C8	2.54	0.43
35:BA:2576:G:H3'	35:BA:2576:G:N3	2.33	0.43
35:BA:2615:U:H2'	35:BA:2616:C:H6	1.84	0.43
37:BC:16:ASP:C	37:BC:18:ASN:H	2.27	0.43
38:BD:10:THR:C	38:BD:11:PRO:O	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:6:GLY:C	39:BE:196:VAL:HG22	2.43	0.43
39:BE:51:PHE:O	39:BE:74:PRO:HB3	2.18	0.43
40:BF:10:PRO:HB3	40:BF:127:GLU:CG	2.49	0.43
40:BF:17:ARG:HG3	40:BF:17:ARG:NH1	2.34	0.43
41:BG:34:LEU:HD12	41:BG:34:LEU:H	1.83	0.43
41:BG:39:ILE:HD11	41:BG:92:VAL:CG2	2.48	0.43
45:BL:79:UNK:O	45:BL:80:UNK:C	2.67	0.43
46:BN:18:ALA:HB1	46:BN:21:LYS:HB2	2.01	0.43
46:BN:34:LEU:O	46:BN:116:LEU:HD22	2.19	0.43
48:BP:11:GLY:O	48:BP:12:ALA:O	2.36	0.43
48:BP:23:PRO:O	48:BP:29:LYS:O	2.36	0.43
48:BP:58:THR:O	48:BP:61:ARG:HG3	2.18	0.43
54:BV:40:LEU:N	54:BV:40:LEU:CD2	2.82	0.43
56:BX:41:ASN:N	56:BX:41:ASN:HD22	2.16	0.43
57:BY:13:VAL:HG22	57:BY:14:LEU:N	2.32	0.43
57:BY:77:PRO:O	57:BY:78:ALA:CB	2.67	0.43
58:BZ:118:GLN:C	58:BZ:120:ILE:H	2.27	0.43
58:BZ:175:VAL:HB	58:BZ:176:PRO:HD2	2.00	0.43
1:CA:98:G:C2'	1:CA:99:U:H5'	2.49	0.43
1:CA:345:C:H5'	1:CA:346:G:OP1	2.18	0.43
1:CA:811:C:H4'	1:CA:900:A:N6	2.34	0.43
1:CA:1003:G:N2	1:CA:1004:A:H1'	2.33	0.43
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.18	0.43
2:CB:9:GLU:HG2	2:CB:10:LEU:N	2.34	0.43
2:CB:25:ASN:OD1	2:CB:25:ASN:C	2.61	0.43
2:CB:58:ILE:HG13	2:CB:58:ILE:H	1.68	0.43
2:CB:73:THR:O	2:CB:74:LYS:C	2.61	0.43
3:CC:3:ASN:OD1	3:CC:3:ASN:N	2.51	0.43
3:CC:47:LEU:HB3	3:CC:52:LEU:HD22	2.00	0.43
3:CC:77:ILE:O	3:CC:84:ILE:HG22	2.18	0.43
5:CE:145:LYS:O	5:CE:149:GLU:HG2	2.19	0.43
5:CE:155:GLU:N	8:CH:64:LYS:HE2	2.34	0.43
6:CF:67:MET:CE	6:CF:75:LEU:HD22	2.49	0.43
8:CH:6:ILE:C	8:CH:8:ASP:N	2.76	0.43
8:CH:100:ILE:HA	8:CH:101:PRO:HD3	1.74	0.43
8:CH:120:THR:O	8:CH:121:ASP:C	2.62	0.43
9:CI:20:ARG:O	9:CI:60:ASP:N	2.44	0.43
13:CM:84:ILE:HG13	19:CS:66:MET:HE1	2.00	0.43
13:CM:105:THR:O	13:CM:106:ASN:CG	2.61	0.43
15:CO:27:VAL:O	15:CO:31:LEU:HD23	2.18	0.43
15:CO:39:LEU:HD22	15:CO:43:LEU:HG	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:6:LEU:HD11	16:CP:19:ILE:CD1	2.49	0.43
17:CQ:60:ILE:HG22	17:CQ:72:ARG:O	2.19	0.43
19:CS:15:LEU:HD13	19:CS:31:ILE:HD11	2.01	0.43
20:CT:16:HIS:O	20:CT:19:SER:HB3	2.18	0.43
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.52	0.43
20:CT:74:LYS:HB2	20:CT:75:ASN:H	1.45	0.43
24:CY:13:ARG:HH11	24:CY:277:VAL:HA	1.84	0.43
24:CY:221:ALA:C	24:CY:223:PHE:N	2.77	0.43
24:CY:293:THR:HG23	24:CY:297:GLU:HG3	2.01	0.43
24:CY:406:GLU:OE1	24:CY:406:GLU:N	2.31	0.43
24:CY:428:LEU:HD23	24:CY:428:LEU:N	2.29	0.43
24:CY:503:GLY:C	24:CY:505:GLY:H	2.25	0.43
26:D1:82:LEU:C	26:D1:83:GLU:CG	2.92	0.43
28:D3:22:ALA:HA	28:D3:46:ASN:ND2	2.33	0.43
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.19	0.43
34:D9:1:MET:SD	35:DA:2478:A:OP2	2.76	0.43
35:DA:143:G:H2'	35:DA:143(A):C:H6	1.84	0.43
35:DA:406:G:O2'	35:DA:407:G:C8	2.60	0.43
35:DA:452:G:N3	35:DA:457:A:H2	2.16	0.43
35:DA:527:C:O4'	35:DA:527:C:O2	2.34	0.43
35:DA:611:C:H2'	35:DA:612:C:H6	1.83	0.43
35:DA:886:C:H2'	35:DA:887:A:O4'	2.19	0.43
35:DA:904:C:H6	35:DA:904:C:C5'	2.26	0.43
35:DA:978:G:N2	35:DA:979:G:H1'	2.34	0.43
35:DA:1396:U:O2	35:DA:1396:U:C2'	2.67	0.43
35:DA:1666:G:H2'	35:DA:1667:G:H5'	2.00	0.43
35:DA:1836:C:O2'	35:DA:1837:C:H5'	2.18	0.43
35:DA:2078:C:H1'	35:DA:2434:A:H1'	2.01	0.43
37:DC:184:GLU:OE1	37:DC:185:LYS:HD2	2.19	0.43
38:DD:218:ARG:HG3	38:DD:218:ARG:NH1	2.33	0.43
39:DE:7:VAL:CG1	39:DE:27:LEU:HB3	2.47	0.43
39:DE:26:ILE:HG13	39:DE:182:LEU:HB3	2.00	0.43
40:DF:206:ILE:CG2	40:DF:207:GLY:H	2.31	0.43
41:DG:32:PRO:C	41:DG:33:ARG:HD3	2.43	0.43
42:DH:18:GLU:CB	42:DH:25:LYS:HB2	2.45	0.43
42:DH:137:ASP:HB2	42:DH:140:LYS:CD	2.47	0.43
42:DH:149:ARG:HD3	42:DH:164:TYR:HE1	1.79	0.43
48:DP:115:LEU:N	48:DP:115:LEU:CD2	2.81	0.43
51:DS:40:ILE:HG22	51:DS:41:ASP:H	1.84	0.43
52:DT:50:ILE:HD11	52:DT:64:ARG:HB3	2.00	0.43
53:DU:50:ARG:O	53:DU:51:LYS:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:53:ARG:HG3	53:DU:57:PHE:HE1	1.84	0.43
53:DU:92:ARG:HB3	54:DV:11:GLN:NE2	2.34	0.43
55:DW:1:MET:HB3	55:DW:64:MET:HE3	2.01	0.43
55:DW:11:ARG:O	55:DW:11:ARG:HD3	2.18	0.43
55:DW:37:ARG:HG3	55:DW:38:TYR:CD2	2.54	0.43
55:DW:66:GLU:HA	55:DW:69:LEU:HD12	2.01	0.43
58:DZ:12:GLY:CA	58:DZ:36:LYS:NZ	2.79	0.43
58:DZ:125:LEU:HB3	58:DZ:165:VAL:HG22	2.00	0.43
1:AA:311:C:H2'	1:AA:312:C:H6	1.84	0.42
1:AA:318:G:O2'	1:AA:319:G:H5'	2.19	0.42
1:AA:360:A:O2'	1:AA:361:G:H5'	2.19	0.42
1:AA:556:C:C2'	1:AA:557:G:H5'	2.50	0.42
1:AA:674:G:H2'	1:AA:675:A:H8	1.83	0.42
1:AA:1101:A:H4'	1:AA:1102:A:H4'	2.01	0.42
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.19	0.42
1:AA:1442(A):G:O2'	1:AA:1442(B):A:H5''	2.18	0.42
2:AB:25:ASN:OD1	2:AB:25:ASN:C	2.62	0.42
2:AB:28:PHE:CE1	2:AB:31:TYR:HB2	2.54	0.42
3:AC:53:ALA:HB1	3:AC:114:PRO:HB2	2.01	0.42
3:AC:101:LEU:HD23	3:AC:102:ASN:N	2.33	0.42
3:AC:206:GLU:O	3:AC:207:VAL:C	2.62	0.42
4:AD:30:LYS:HB3	4:AD:35:ARG:HD2	2.00	0.42
5:AE:78:HIS:ND1	5:AE:79:GLU:N	2.67	0.42
5:AE:107:ARG:O	5:AE:108:ALA:C	2.62	0.42
6:AF:67:MET:CE	6:AF:75:LEU:HD22	2.48	0.42
7:AG:146:GLU:O	7:AG:147:ALA:C	2.61	0.42
8:AH:121:ASP:O	8:AH:122:ARG:C	2.62	0.42
13:AM:84:ILE:HG13	19:AS:66:MET:HE1	2.00	0.42
15:AO:17:ARG:NH1	15:AO:77:ARG:NH1	2.66	0.42
17:AQ:22:LEU:HD13	17:AQ:41:LYS:HG2	2.00	0.42
19:AS:9:VAL:HG21	29:B4:53:GLU:CG	2.49	0.42
20:AT:26:ASN:HD22	20:AT:27:LYS:H	1.66	0.42
22:AW:77:A:N6	35:BA:2422:A:O4'	2.52	0.42
24:AY:25:LYS:HZ2	24:AY:86:GLY:CA	2.32	0.42
24:AY:182:ARG:HG3	24:AY:182:ARG:NH1	2.34	0.42
24:AY:206:LEU:O	24:AY:209:ALA:HB3	2.19	0.42
24:AY:327:PHE:HA	24:AY:375:GLY:O	2.19	0.42
24:AY:334:THR:HG23	24:AY:369:LEU:C	2.44	0.42
24:AY:395:PRO:HB2	24:AY:397:VAL:HG13	2.01	0.42
24:AY:526:VAL:HG23	24:AY:565:VAL:O	2.18	0.42
27:B2:10:LEU:O	27:B2:11:GLU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:38:GLN:HE21	27:B2:44:LEU:HB2	1.84	0.42
29:B4:25:TYR:N	29:B4:25:TYR:CD1	2.86	0.42
29:B4:29:PRO:HB2	29:B4:30:GLU:OE1	2.19	0.42
30:B5:44:THR:O	30:B5:51:TYR:CE1	2.70	0.42
32:B7:16:HIS:ND1	35:BA:684:G:OP1	2.51	0.42
32:B7:33:ARG:HB2	32:B7:33:ARG:HH11	1.84	0.42
33:B8:48:PHE:HB3	33:B8:49:VAL:H	1.46	0.42
34:B9:29:ASN:ND2	34:B9:29:ASN:N	2.66	0.42
35:BA:8:A:H2'	35:BA:9:U:C6	2.54	0.42
35:BA:245:G:O2'	35:BA:246:C:H5'	2.19	0.42
35:BA:300:A:P	57:BY:97:ARG:HE	2.41	0.42
35:BA:520:G:H2'	35:BA:521:G:C8	2.53	0.42
35:BA:811:U:O2	35:BA:1251:C:C5	2.72	0.42
35:BA:811:U:O2	35:BA:1251:C:C6	2.71	0.42
35:BA:817:C:O2'	35:BA:839:U:OP1	2.37	0.42
35:BA:1128:A:C8	35:BA:2518:A:N6	2.87	0.42
35:BA:1131:G:N3	35:BA:1132:A:C8	2.87	0.42
35:BA:1204:A:H2	35:BA:1241:A:N1	2.17	0.42
35:BA:1360:A:H5'	35:BA:1361:G:OP2	2.19	0.42
35:BA:1888:G:H5'	35:BA:1888:G:N3	2.34	0.42
35:BA:1973:G:H2'	35:BA:1974:C:C6	2.54	0.42
35:BA:2089:U:O2'	35:BA:2090:G:H5'	2.19	0.42
35:BA:2147:G:H2'	35:BA:2148:G:C4'	2.49	0.42
35:BA:2389:G:H5''	35:BA:2390:U:O4'	2.19	0.42
35:BA:2604:U:H2'	35:BA:2605:U:H6	1.83	0.42
35:BA:2839:G:H2'	35:BA:2840:C:H6	1.83	0.42
37:BC:98:GLU:HA	37:BC:101:ILE:CD1	2.48	0.42
38:BD:132:PRO:O	38:BD:133:LEU:C	2.62	0.42
40:BF:160:ASN:ND2	40:BF:161:GLU:N	2.67	0.42
41:BG:145:THR:OG1	41:BG:146:TYR:N	2.52	0.42
42:BH:136:ILE:HD12	42:BH:136:ILE:H	1.84	0.42
42:BH:159:GLU:O	42:BH:160:LYS:C	2.62	0.42
43:BJ:118:UNK:N	43:BJ:121:UNK:O	2.52	0.42
49:BQ:26:TYR:CD1	49:BQ:140:ALA:HB3	2.54	0.42
49:BQ:52:VAL:HG12	49:BQ:53:ALA:N	2.33	0.42
50:BR:21:TYR:N	50:BR:21:TYR:CD2	2.87	0.42
50:BR:61:HIS:O	50:BR:62:ALA:C	2.63	0.42
52:BT:16:ARG:HG3	52:BT:16:ARG:HH11	1.84	0.42
53:BU:53:ARG:HG3	53:BU:57:PHE:HE1	1.84	0.42
53:BU:101:ARG:C	53:BU:102:GLU:HG2	2.43	0.42
55:BW:13:SER:HB3	55:BW:16:LYS:HD2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:28:PHE:CD1	56:BX:28:PHE:N	2.82	0.42
56:BX:90:GLU:C	56:BX:92:LEU:N	2.77	0.42
57:BY:51:VAL:C	57:BY:53:PRO:CD	2.90	0.42
1:CA:47:C:H6	1:CA:365:U:H2'	1.84	0.42
1:CA:186:C:C2	1:CA:187:C:C5	3.07	0.42
1:CA:202:U:H5'	1:CA:203:U:H5	1.84	0.42
1:CA:316:G:C6	1:CA:338:A:C6	3.07	0.42
1:CA:994:A:N3	1:CA:994:A:H2'	2.33	0.42
1:CA:1277:C:H3'	1:CA:1277:C:C6	2.53	0.42
1:CA:1296:C:H3'	1:CA:1297:C:H6	1.84	0.42
2:CB:223:ILE:HG12	2:CB:226:ARG:HH22	1.79	0.42
3:CC:68:VAL:HG12	3:CC:70:VAL:HG23	2.00	0.42
4:CD:140:VAL:HG12	4:CD:141:ARG:O	2.19	0.42
4:CD:159:ARG:HG3	4:CD:159:ARG:NH1	2.33	0.42
5:CE:145:LYS:HA	8:CH:107:LEU:HD21	2.01	0.42
8:CH:26:VAL:O	8:CH:27:PRO:C	2.62	0.42
8:CH:101:PRO:C	8:CH:102:ARG:HD3	2.43	0.42
9:CI:125:TYR:HD2	9:CI:126:SER:N	2.17	0.42
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.81	0.42
11:CK:21:ILE:N	11:CK:21:ILE:CD1	2.82	0.42
19:CS:41:VAL:CG2	19:CS:44:MET:HB2	2.37	0.42
19:CS:71:LEU:O	19:CS:72:GLY:C	2.62	0.42
24:CY:31:ARG:O	24:CY:32:ILE:C	2.60	0.42
24:CY:224:ASP:HB2	24:CY:227:ILE:HD12	2.01	0.42
26:D1:72:GLU:C	26:D1:74:VAL:H	2.27	0.42
27:D2:24:LEU:HD23	27:D2:24:LEU:C	2.43	0.42
29:D4:13:ARG:C	29:D4:14:ILE:HD12	2.44	0.42
30:D5:3:LYS:HG2	35:DA:747:U:C4	2.54	0.42
35:DA:68:G:H2'	35:DA:69:C:H6	1.84	0.42
35:DA:200:U:C2'	35:DA:201:C:H5'	2.46	0.42
35:DA:460:A:H2'	35:DA:461:C:O4'	2.18	0.42
35:DA:624:C:N4	48:DP:107:LYS:HZ2	2.14	0.42
35:DA:688:U:C4'	35:DA:1780:A:C2	3.01	0.42
35:DA:729:G:O2'	35:DA:763:G:H4'	2.19	0.42
35:DA:1461:G:H2'	35:DA:1462:C:C6	2.53	0.42
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.54	0.42
35:DA:1827:C:H2'	35:DA:1828:G:C5'	2.49	0.42
35:DA:1902:C:C4'	38:DD:244:ARG:HB2	2.49	0.42
35:DA:1941:C:C4	35:DA:1942:C:C4	3.06	0.42
35:DA:2020:A:N1	35:DA:2022:U:C2	2.87	0.42
35:DA:2126:A:N1	35:DA:2162:G:O2'	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2309:A:H2'	35:DA:2310:A:C5'	2.49	0.42
35:DA:2460:U:O2	35:DA:2460:U:H2'	2.18	0.42
35:DA:2489:G:C6	35:DA:2490:G:C6	3.07	0.42
35:DA:2849:U:H1'	35:DA:2866:U:H6	1.84	0.42
38:DD:31:LYS:O	38:DD:33:LEU:N	2.51	0.42
38:DD:127:VAL:HA	38:DD:193:VAL:HG13	2.00	0.42
38:DD:176:ARG:CG	38:DD:176:ARG:NH1	2.81	0.42
40:DF:116:ASP:OD2	48:DP:5:ASP:N	2.52	0.42
41:DG:4:ASP:HA	41:DG:8:LYS:HG2	2.00	0.42
41:DG:168:GLU:O	41:DG:170:ARG:N	2.52	0.42
42:DH:74:ASN:OD1	42:DH:138:LYS:HE3	2.19	0.42
46:DN:60:ILE:HG22	46:DN:61:ARG:N	2.33	0.42
47:DO:69:ILE:CD1	47:DO:77:ILE:HG23	2.41	0.42
47:DO:107:ARG:HA	47:DO:112:MET:CE	2.40	0.42
49:DQ:12:GLN:HG2	49:DQ:73:PRO:HD2	2.01	0.42
53:DU:59:ARG:HH11	53:DU:59:ARG:CG	2.24	0.42
57:DY:14:LEU:HB2	57:DY:24:VAL:HG22	2.00	0.42
1:AA:333:G:O2'	1:AA:334:C:H5'	2.18	0.42
1:AA:605:U:O2'	1:AA:606:G:H5'	2.19	0.42
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.49	0.42
1:AA:1371:G:C5	1:AA:1372:U:C5	3.07	0.42
2:AB:73:THR:O	2:AB:74:LYS:C	2.61	0.42
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	2.00	0.42
3:AC:142:MET:HE2	3:AC:171:GLY:HA3	1.99	0.42
8:AH:19:VAL:HG23	8:AH:21:LYS:HB2	2.01	0.42
9:AI:105:ASP:OD1	9:AI:107:ARG:HD3	2.18	0.42
11:AK:95:ILE:O	11:AK:96:ARG:C	2.61	0.42
12:AL:83:VAL:HG12	12:AL:84:LEU:N	2.34	0.42
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	2.00	0.42
13:AM:91:ARG:CD	13:AM:97:PRO:O	2.67	0.42
15:AO:64:ARG:HH11	15:AO:64:ARG:CG	2.32	0.42
17:AQ:53:LEU:HD23	17:AQ:54:GLY:N	2.34	0.42
18:AR:63:GLN:HA	18:AR:63:GLN:OE1	2.19	0.42
20:AT:69:GLY:O	20:AT:73:HIS:NE2	2.52	0.42
24:AY:12:LEU:C	24:AY:13:ARG:HD2	2.44	0.42
24:AY:140:ASP:OD2	24:AY:265:LYS:HE2	2.19	0.42
24:AY:191:ASP:O	24:AY:266:ASN:ND2	2.52	0.42
24:AY:289:ILE:HD12	24:AY:331:TYR:CE2	2.54	0.42
27:B2:33:MET:HG2	27:B2:37:PHE:CE1	2.53	0.42
29:B4:6:HIS:C	29:B4:8:LYS:N	2.74	0.42
29:B4:7:PRO:O	29:B4:8:LYS:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:88:G:OP1	35:BA:90:U:C5	2.63	0.42
35:BA:272(J):C:H5'	35:BA:274:G:OP2	2.18	0.42
35:BA:685:A:C6	35:BA:774:A:C2	3.07	0.42
35:BA:772:C:O2'	35:BA:773:U:H5'	2.20	0.42
35:BA:773:U:H2'	35:BA:774:A:H5'	2.00	0.42
35:BA:821:A:H2'	35:BA:946:G:H5''	2.00	0.42
35:BA:904:C:H2'	35:BA:905:U:C6	2.53	0.42
35:BA:1131:G:C2	35:BA:1132:A:C5	3.07	0.42
35:BA:1541:G:H4'	35:BA:1542:A:O4'	2.19	0.42
35:BA:1815:A:H1'	35:BA:1817:G:C8	2.54	0.42
35:BA:1932:A:H2'	35:BA:1933:G:O4'	2.19	0.42
35:BA:2025:C:H2'	35:BA:2026:C:H6	1.84	0.42
35:BA:2328:A:H8	35:BA:2328:A:O5'	2.02	0.42
35:BA:2428:G:H5'	35:BA:2429:G:P	2.59	0.42
35:BA:2511:U:H4'	39:BE:123:ALA:HB3	2.00	0.42
35:BA:2537:U:H2'	35:BA:2538:C:H6	1.81	0.42
35:BA:2579:C:H2'	35:BA:2580:U:O4'	2.20	0.42
35:BA:2776:A:C6	35:BA:2782:G:H1'	2.53	0.42
35:BA:2809:A:C2	35:BA:2892:A:N3	2.87	0.42
35:BA:2889:C:H2'	35:BA:2891:G:O4'	2.19	0.42
36:BB:81:G:O6	36:BB:96:U:O2	2.37	0.42
37:BC:134:PRO:HB2	37:BC:135:ARG:HD2	2.01	0.42
38:BD:31:LYS:HZ1	38:BD:33:LEU:HB2	1.83	0.42
39:BE:144:ARG:HB3	39:BE:145:LYS:H	1.53	0.42
40:BF:20:LEU:HD13	40:BF:203:GLN:OE1	2.18	0.42
40:BF:119:ARG:HG2	40:BF:119:ARG:NH1	2.33	0.42
43:BJ:74:UNK:O	43:BJ:76:UNK:N	2.52	0.42
44:BK:41:PHE:C	44:BK:43:ALA:N	2.77	0.42
49:BQ:63:LYS:NZ	58:BZ:175:VAL:HG21	2.34	0.42
49:BQ:76:LYS:HE2	49:BQ:77:LYS:O	2.18	0.42
51:BS:89:ARG:CG	51:BS:92:TYR:CA	2.88	0.42
52:BT:2:ASN:O	52:BT:4:GLY:N	2.51	0.42
54:BV:17:GLY:O	54:BV:18:LEU:HB3	2.17	0.42
54:BV:19:LYS:HG2	54:BV:94:LEU:CB	2.48	0.42
1:CA:193:C:C2	1:CA:194:C:C5	3.08	0.42
1:CA:582:U:OP1	15:CO:68:ARG:NH2	2.52	0.42
1:CA:666:G:C2	1:CA:667:G:C8	3.08	0.42
1:CA:815:A:H62	1:CA:1509:C:H1'	1.83	0.42
1:CA:963:G:H21	10:CJ:55:LYS:HD2	1.84	0.42
1:CA:1150:U:O4	1:CA:1151:A:N6	2.52	0.42
1:CA:1386:G:O2'	1:CA:1387:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1399:C:C2	1:CA:1401:G:C5	3.07	0.42
2:CB:48:MET:O	2:CB:49:GLU:C	2.62	0.42
2:CB:82:ARG:HG3	2:CB:82:ARG:NH1	2.33	0.42
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	2.00	0.42
4:CD:134:ASP:OD2	4:CD:134:ASP:N	2.51	0.42
7:CG:61:VAL:O	7:CG:64:GLN:HB3	2.19	0.42
7:CG:144:MET:O	7:CG:147:ALA:HB3	2.19	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	2.01	0.42
9:CI:51:ARG:HG3	9:CI:56:LEU:HD12	2.01	0.42
12:CL:18:VAL:O	12:CL:19:ARG:CB	2.67	0.42
13:CM:72:ALA:O	13:CM:75:ALA:N	2.53	0.42
16:CP:14:ASN:O	16:CP:14:ASN:CG	2.60	0.42
22:CV:50:U:H2'	22:CV:51:C:C6	2.54	0.42
24:CY:69:VAL:CG2	24:CY:80:ASN:HB3	2.49	0.42
24:CY:112:GLN:CG	24:CY:115:GLU:HB3	2.48	0.42
24:CY:148:LEU:HD13	24:CY:151:ARG:NH1	2.29	0.42
24:CY:309:LEU:HB3	24:CY:391:GLY:N	2.34	0.42
24:CY:509:HIS:O	24:CY:510:VAL:CG2	2.67	0.42
24:CY:538:TYR:HD1	24:CY:579:GLU:HA	1.84	0.42
24:CY:539:ILE:CA	24:CY:542:VAL:HG12	2.48	0.42
24:CY:651:GLU:HA	24:CY:651:GLU:OE1	2.18	0.42
24:CY:678:GLU:HG2	24:CY:679:VAL:O	2.20	0.42
61:CY:702:FUA:C12	61:CY:702:FUA:C23	2.84	0.42
25:D0:60:PHE:HE2	35:DA:2365:G:C4'	2.25	0.42
27:D2:35:LEU:HD22	27:D2:50:ILE:CG1	2.49	0.42
31:D6:16:CYS:C	31:D6:18:ARG:N	2.72	0.42
32:D7:46:VAL:HG12	32:D7:47:ARG:H	1.82	0.42
35:DA:37:C:H2'	35:DA:37:C:O2	2.18	0.42
35:DA:359:A:H3'	35:DA:360:G:C8	2.54	0.42
35:DA:1146:C:H2'	35:DA:1146:C:O2	2.18	0.42
35:DA:2290:G:H4'	35:DA:2381:C:O2'	2.19	0.42
35:DA:2336:A:H3'	35:DA:2337:G:H8	1.84	0.42
35:DA:2820:A:H8	39:DE:191:PRO:HB3	1.84	0.42
35:DA:2861:G:C4	35:DA:2862:G:C8	3.07	0.42
36:DB:40:U:H3'	36:DB:41:U:H5''	2.00	0.42
37:DC:65:LEU:HD21	37:DC:162:ILE:HD11	2.00	0.42
39:DE:64:LYS:C	39:DE:66:HIS:N	2.71	0.42
39:DE:74:PRO:O	39:DE:75:VAL:C	2.63	0.42
39:DE:82:ARG:HG3	39:DE:82:ARG:HH11	1.84	0.42
40:DF:7:TYR:CD2	40:DF:16:GLY:CA	3.00	0.42
40:DF:63:LYS:HA	40:DF:76:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:134:GLY:HA3	40:DF:165:ARG:NH1	2.34	0.42
41:DG:53:LEU:HD12	41:DG:56:ALA:HB2	2.01	0.42
42:DH:52:VAL:O	42:DH:52:VAL:HG12	2.19	0.42
44:DK:86:LYS:HB3	44:DK:86:LYS:HZ3	1.84	0.42
47:DO:98:VAL:CG2	47:DO:118:ALA:HA	2.49	0.42
48:DP:23:PRO:O	48:DP:29:LYS:O	2.37	0.42
50:DR:41:ALA:O	50:DR:43:GLU:N	2.53	0.42
53:DU:53:ARG:CA	53:DU:56:ASP:OD2	2.62	0.42
53:DU:98:LEU:HA	53:DU:101:ARG:O	2.19	0.42
57:DY:13:VAL:CG2	57:DY:73:ARG:C	2.92	0.42
57:DY:76:CYS:O	57:DY:77:PRO:C	2.62	0.42
58:DZ:29:TYR:O	58:DZ:30:ASN:HB3	2.19	0.42
58:DZ:40:ASP:CG	58:DZ:42:VAL:HG12	2.44	0.42
58:DZ:145:GLU:CG	58:DZ:146:ILE:H	2.32	0.42
1:AA:182:U:O2	1:AA:182:U:H2'	2.19	0.42
1:AA:267:C:H2'	1:AA:268:C:C6	2.48	0.42
1:AA:452:A:H5'	16:AP:72:ARG:NH2	2.34	0.42
1:AA:541:G:O2'	1:AA:542:G:H5'	2.19	0.42
1:AA:893:C:O2'	1:AA:894:G:H5'	2.20	0.42
1:AA:1061:G:H1'	10:AJ:56:HIS:CE1	2.53	0.42
1:AA:1277:C:H3'	1:AA:1277:C:C6	2.54	0.42
3:AC:87:LEU:O	3:AC:90:GLU:N	2.53	0.42
3:AC:110:ASN:HD21	3:AC:140:ARG:HB3	1.84	0.42
9:AI:42:ARG:O	9:AI:44:VAL:N	2.52	0.42
9:AI:90:PRO:HG2	9:AI:91:ASP:H	1.84	0.42
10:AJ:29:ARG:HH11	10:AJ:29:ARG:CG	2.30	0.42
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	2.20	0.42
13:AM:99:ARG:O	13:AM:100:GLY:O	2.37	0.42
15:AO:82:ILE:C	15:AO:82:ILE:CD1	2.82	0.42
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.54	0.42
18:AR:68:LYS:O	18:AR:69:THR:C	2.62	0.42
20:AT:26:ASN:HD22	20:AT:27:LYS:N	2.17	0.42
24:AY:13:ARG:O	24:AY:79:ILE:HA	2.20	0.42
24:AY:21:ILE:HG23	24:AY:86:GLY:O	2.19	0.42
24:AY:65:ILE:O	24:AY:66:THR:C	2.62	0.42
24:AY:210:ARG:C	24:AY:214:GLU:HG2	2.44	0.42
24:AY:252:ASP:HB3	24:AY:254:LYS:NZ	2.34	0.42
24:AY:289:ILE:HD12	24:AY:331:TYR:CZ	2.54	0.42
24:AY:316:ILE:HD13	24:AY:316:ILE:N	2.34	0.42
24:AY:420:ASP:C	24:AY:422:GLU:H	2.27	0.42
24:AY:456:GLU:HB2	24:AY:657:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:4:SER:O	27:B2:5:GLU:C	2.62	0.42
27:B2:41:ILE:HD11	27:B2:44:LEU:CD1	2.38	0.42
31:B6:9:LEU:HD21	31:B6:26:ASN:HD22	1.83	0.42
35:BA:322:A:C3'	40:BF:169:ASN:HD21	2.32	0.42
35:BA:947:G:N3	35:BA:984:A:H2	2.18	0.42
35:BA:1019:U:N3	35:BA:1142(A):A:N6	2.66	0.42
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.54	0.42
35:BA:2032:G:OP2	35:BA:2454:G:O2'	2.34	0.42
35:BA:2122:U:H4'	37:BC:167:ASP:HB3	2.01	0.42
35:BA:2184:G:H2'	35:BA:2185:C:C6	2.54	0.42
35:BA:2531:A:OP1	42:BH:177:GLY:O	2.38	0.42
35:BA:2684:U:H2'	35:BA:2685:G:O4'	2.19	0.42
38:BD:158:ALA:O	38:BD:196:VAL:CG1	2.63	0.42
40:BF:116:ASP:OD2	48:BP:5:ASP:HB2	2.18	0.42
41:BG:10:LYS:O	41:BG:14:GLU:HB2	2.19	0.42
42:BH:37:VAL:HG12	42:BH:38:SER:H	1.80	0.42
44:BK:48:MET:HB2	44:BK:49:GLY:H	1.69	0.42
47:BO:19:ILE:HD12	47:BO:41:ALA:CB	2.48	0.42
47:BO:69:ILE:CD1	47:BO:77:ILE:HG23	2.36	0.42
51:BS:87:PHE:CG	51:BS:88:ASP:N	2.87	0.42
52:BT:8:LYS:O	52:BT:10:VAL:N	2.51	0.42
52:BT:45:PHE:HE2	52:BT:74:ARG:HB2	1.81	0.42
53:BU:96:ALA:C	53:BU:98:LEU:N	2.77	0.42
57:BY:7:VAL:HB	57:BY:8:LYS:NZ	2.35	0.42
57:BY:84:ARG:HG2	57:BY:85:VAL:H	1.84	0.42
58:BZ:24:LEU:HD12	58:BZ:41:LEU:HD23	2.01	0.42
58:BZ:48:PHE:O	58:BZ:49:ARG:C	2.63	0.42
58:BZ:142:SER:C	58:BZ:144:LEU:H	2.27	0.42
1:CA:767:A:H2'	1:CA:768:A:C8	2.55	0.42
1:CA:1054:C:C2'	1:CA:1054:C:O2	2.68	0.42
1:CA:1221:G:OP1	1:CA:1320:C:N4	2.52	0.42
1:CA:1509:C:C2'	1:CA:1510:U:H5'	2.49	0.42
3:CC:40:ARG:HG3	3:CC:40:ARG:NH1	2.34	0.42
3:CC:129:ALA:O	3:CC:130:VAL:C	2.61	0.42
3:CC:167:TRP:O	3:CC:168:ALA:CB	2.67	0.42
4:CD:4:TYR:CG	4:CD:5:ILE:N	2.85	0.42
5:CE:6:PHE:CD1	5:CE:6:PHE:N	2.87	0.42
5:CE:90:VAL:C	5:CE:91:LEU:HD22	2.45	0.42
9:CI:84:ALA:O	9:CI:86:VAL:N	2.52	0.42
9:CI:104:ARG:O	9:CI:105:ASP:N	2.52	0.42
10:CJ:40:LEU:CB	10:CJ:41:PRO:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:91:ARG:NH2	19:CS:81:ARG:NH2	2.67	0.42
20:CT:89:ARG:HD2	20:CT:104:LEU:CD1	2.49	0.42
22:CW:29:C:O2'	22:CW:30:G:H5'	2.19	0.42
24:CY:181:LEU:HD21	24:CY:243:VAL:CG2	2.37	0.42
24:CY:302:HIS:O	24:CY:304:ASP:N	2.49	0.42
24:CY:342:TYR:O	24:CY:389:LEU:HA	2.19	0.42
24:CY:417:THR:C	24:CY:419:ALA:N	2.77	0.42
24:CY:541:ALA:CB	24:CY:579:GLU:HG2	2.47	0.42
26:D1:87:PRO:HG2	26:D1:88:LYS:H	1.85	0.42
27:D2:8:LYS:O	27:D2:9:GLN:C	2.62	0.42
27:D2:14:ARG:HD3	27:D2:63:VAL:CG2	2.49	0.42
29:D4:5:ILE:HD13	29:D4:6:HIS:CD2	2.54	0.42
29:D4:29:PRO:HB2	29:D4:30:GLU:OE1	2.19	0.42
34:D9:20:HIS:C	34:D9:22:ARG:H	2.27	0.42
35:DA:26:G:N1	35:DA:27:G:N2	2.67	0.42
35:DA:143(A):C:O2	35:DA:143(A):C:H2'	2.18	0.42
35:DA:329:G:H22	57:DY:19:LYS:HE3	1.83	0.42
35:DA:594:U:H2'	35:DA:595:C:C6	2.54	0.42
35:DA:615:G:OP2	40:DF:40:GLN:NE2	2.47	0.42
35:DA:653:A:H5'	35:DA:654:A:P	2.58	0.42
35:DA:805:G:H4'	35:DA:806:C:OP2	2.20	0.42
35:DA:1186:G:H2'	35:DA:1187:G:H5'	2.01	0.42
35:DA:1385:G:H4'	35:DA:1386:C:OP1	2.18	0.42
35:DA:1415:U:H3	35:DA:1587:A:H61	1.66	0.42
35:DA:1530:C:H2'	35:DA:1531:C:H6	1.83	0.42
35:DA:1710:C:H2'	35:DA:1711:C:C6	2.53	0.42
35:DA:1947:C:C3'	35:DA:1948:G:H5''	2.50	0.42
35:DA:2389:G:H5''	35:DA:2390:U:O4'	2.20	0.42
35:DA:2820:A:HO2'	35:DA:2821:A:P	2.42	0.42
36:DB:105:A:OP1	58:DZ:72:ARG:NH1	2.51	0.42
38:DD:85:ASP:OD2	38:DD:88:ARG:NH1	2.50	0.42
39:DE:26:ILE:CG2	39:DE:196:VAL:HG21	2.47	0.42
39:DE:59:VAL:O	39:DE:60:ASN:CG	2.63	0.42
40:DF:34:TRP:CB	48:DP:10:PRO:HB2	2.36	0.42
42:DH:94:TYR:N	42:DH:94:TYR:HD1	2.17	0.42
42:DH:159:GLU:O	42:DH:160:LYS:C	2.61	0.42
42:DH:171:LEU:O	42:DH:172:LYS:C	2.61	0.42
43:DJ:45:UNK:C	43:DJ:47:UNK:H	2.31	0.42
44:DK:10:LEU:HD11	44:DK:27:LEU:CD1	2.49	0.42
44:DK:72:PRO:O	44:DK:73:PRO:C	2.62	0.42
46:DN:56:ASN:HA	46:DN:125:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.83	0.42
47:DO:1:MET:HE2	47:DO:32:TYR:CG	2.54	0.42
47:DO:10:VAL:HG21	47:DO:16:ALA:O	2.20	0.42
48:DP:66:GLY:O	48:DP:67:MET:CB	2.67	0.42
48:DP:121:LYS:HB2	48:DP:123:LEU:HD21	2.01	0.42
51:DS:47:THR:HG22	51:DS:49:VAL:O	2.19	0.42
51:DS:87:PHE:CG	51:DS:88:ASP:N	2.87	0.42
52:DT:35:LYS:HZ3	52:DT:41:ARG:HH11	1.64	0.42
52:DT:92:GLY:C	52:DT:94:ALA:H	2.25	0.42
53:DU:10:ARG:O	53:DU:11:ARG:C	2.63	0.42
57:DY:47:LYS:O	57:DY:48:ALA:C	2.62	0.42
57:DY:62:GLU:OE2	57:DY:63:LYS:C	2.62	0.42
1:AA:323:U:H5'	20:AT:23:ARG:HB2	2.00	0.42
1:AA:394:G:H2'	1:AA:395:C:C6	2.55	0.42
1:AA:437:U:H2'	1:AA:438:G:O4'	2.20	0.42
1:AA:505:G:C6	1:AA:535:A:C2	3.07	0.42
1:AA:539:A:OP2	12:AL:115:LYS:HE3	2.19	0.42
1:AA:1074:G:H4'	2:AB:104:ASN:HB2	2.01	0.42
1:AA:1090:U:H4'	1:AA:1170:A:H2	1.85	0.42
1:AA:1314:C:N4	19:AS:4:SER:N	2.67	0.42
1:AA:1351:U:H5'	7:AG:33:ASP:OD1	2.20	0.42
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.54	0.42
2:AB:24:TRP:HA	2:AB:190:THR:O	2.19	0.42
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.60	0.42
3:AC:147:LYS:O	3:AC:203:PHE:HD2	2.02	0.42
4:AD:127:THR:HG23	4:AD:147:ALA:HB3	2.01	0.42
4:AD:156:GLU:O	4:AD:157:LEU:C	2.63	0.42
4:AD:190:ASP:HB3	4:AD:193:ASP:OD2	2.19	0.42
5:AE:90:VAL:C	5:AE:91:LEU:HD22	2.44	0.42
8:AH:6:ILE:C	8:AH:8:ASP:N	2.74	0.42
8:AH:6:ILE:HG21	8:AH:85:ARG:NH1	2.34	0.42
8:AH:17:THR:HB	8:AH:78:GLN:CD	2.43	0.42
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.37	0.42
11:AK:120:ARG:NH1	11:AK:126:ARG:NE	2.67	0.42
12:AL:98:TYR:CD1	12:AL:98:TYR:N	2.86	0.42
13:AM:54:VAL:O	13:AM:55:ARG:C	2.61	0.42
15:AO:3:ILE:O	15:AO:3:ILE:HG13	2.19	0.42
20:AT:38:LYS:C	20:AT:40:ALA:N	2.76	0.42
20:AT:64:ASP:OD1	20:AT:81:LYS:HD2	2.19	0.42
20:AT:104:LEU:C	20:AT:104:LEU:CD2	2.93	0.42
22:AV:61:C:H2'	22:AV:62:C:H6	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:76:A:H4'	22:AV:76:A:OP1	2.19	0.42
22:AW:37:U:H2'	22:AW:38:A:H8	1.84	0.42
22:AW:73:A:H2'	22:AW:74:A:O4'	2.19	0.42
24:AY:308:PRO:O	24:AY:333:GLY:N	2.52	0.42
24:AY:416:LYS:CD	24:AY:417:THR:N	2.67	0.42
24:AY:652:MET:HE2	24:AY:655:TYR:HB2	2.01	0.42
28:B3:31:LEU:CD1	28:B3:32:GLN:HG2	2.33	0.42
28:B3:35:ARG:HD3	28:B3:37:LEU:HD21	2.02	0.42
29:B4:22:ILE:HG22	29:B4:24:THR:HG23	2.00	0.42
35:BA:143:G:H2'	35:BA:143(A):C:H6	1.84	0.42
35:BA:512:G:O2'	35:BA:513:A:H8	2.02	0.42
35:BA:611:C:H2'	35:BA:612:C:C6	2.54	0.42
35:BA:662:G:P	48:BP:18:ARG:HD2	2.59	0.42
35:BA:893:C:H2'	35:BA:894:C:C6	2.54	0.42
35:BA:1209:G:H21	35:BA:1210:A:H62	1.66	0.42
35:BA:1491:G:H2'	35:BA:1491:G:N3	2.34	0.42
35:BA:1682:G:O2'	35:BA:1683:C:H5'	2.19	0.42
35:BA:2012:G:O3'	55:BW:96:ILE:HG13	2.19	0.42
35:BA:2103:C:N4	35:BA:2186:G:H1	2.18	0.42
35:BA:2154:G:C2	35:BA:2155:G:C4	3.08	0.42
35:BA:2405:G:HO2'	35:BA:2406:U:P	2.41	0.42
35:BA:2665:A:H2'	35:BA:2666:C:O4'	2.19	0.42
37:BC:76:LEU:HD21	37:BC:104:ILE:CD1	2.48	0.42
37:BC:196:ALA:O	37:BC:199:ALA:HB3	2.19	0.42
38:BD:96:HIS:CE1	38:BD:102:LYS:HE2	2.54	0.42
38:BD:245:PRO:O	38:BD:246:PRO:O	2.37	0.42
39:BE:45:THR:O	39:BE:46:ALA:CB	2.66	0.42
39:BE:72:VAL:O	39:BE:73:GLU:C	2.62	0.42
41:BG:25:TYR:OH	41:BG:168:GLU:OE1	2.34	0.42
41:BG:56:ALA:HB1	41:BG:153:ARG:NH2	2.35	0.42
41:BG:96:ARG:O	41:BG:97:ASP:CB	2.68	0.42
41:BG:97:ASP:O	41:BG:101:ILE:CB	2.68	0.42
42:BH:94:TYR:N	42:BH:94:TYR:HD1	2.17	0.42
43:BJ:42:UNK:HA	43:BJ:45:UNK:CB	2.49	0.42
46:BN:34:LEU:HD13	46:BN:34:LEU:HA	1.90	0.42
46:BN:38:HIS:C	53:BU:67:ALA:HB1	2.44	0.42
47:BO:14:THR:HG21	47:BO:86:ILE:HD13	2.02	0.42
50:BR:28:LEU:HA	50:BR:34:ILE:CG1	2.49	0.42
50:BR:82:GLU:O	50:BR:85:PRO:HD2	2.19	0.42
51:BS:48:LEU:HD12	51:BS:48:LEU:N	2.34	0.42
51:BS:89:ARG:CG	51:BS:92:TYR:CB	2.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:67:SER:O	52:BT:68:TYR:HB2	2.20	0.42
52:BT:70:VAL:HG12	52:BT:71:GLY:N	2.34	0.42
52:BT:118:ARG:O	52:BT:119:LYS:C	2.62	0.42
53:BU:8:VAL:O	53:BU:9:VAL:C	2.61	0.42
53:BU:59:ARG:HG2	53:BU:59:ARG:NH1	2.29	0.42
58:BZ:52:SER:OG	58:BZ:53:ILE:N	2.52	0.42
58:BZ:105:VAL:O	58:BZ:105:VAL:CG1	2.66	0.42
58:BZ:115:GLY:HA2	58:BZ:177:PRO:CG	2.49	0.42
1:CA:96:U:O2'	1:CA:97:G:H8	2.02	0.42
1:CA:189(B):C:C2	1:CA:189(J):G:C2	3.07	0.42
1:CA:308:C:H2'	1:CA:309:G:C8	2.53	0.42
1:CA:622:A:C8	1:CA:623:C:C6	3.07	0.42
1:CA:658:G:H2'	1:CA:659:U:H6	1.83	0.42
1:CA:690:G:H2'	1:CA:691:G:O4'	2.20	0.42
1:CA:1414:U:H2'	1:CA:1415:G:C8	2.54	0.42
2:CB:142:LEU:O	2:CB:146:GLN:HB2	2.19	0.42
3:CC:67:THR:HA	3:CC:102:ASN:HB2	2.01	0.42
3:CC:78:GLY:CA	3:CC:83:ARG:HB3	2.50	0.42
5:CE:33:VAL:HG12	5:CE:112:LEU:HD12	2.01	0.42
5:CE:105:VAL:O	5:CE:106:PRO:C	2.58	0.42
6:CF:1:MET:HE1	6:CF:68:PRO:CD	2.48	0.42
9:CI:95:LYS:NZ	9:CI:96:LEU:CD1	2.76	0.42
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.48	0.42
10:CJ:63:PHE:HB3	14:CN:58:LYS:CA	2.42	0.42
13:CM:3:ARG:CA	13:CM:9:ILE:HG13	2.45	0.42
13:CM:64:TRP:H	13:CM:64:TRP:CD1	2.37	0.42
19:CS:9:VAL:HG13	19:CS:39:THR:HB	2.02	0.42
20:CT:61:SER:O	20:CT:63:ILE:N	2.52	0.42
24:CY:264:LEU:C	24:CY:264:LEU:CD2	2.88	0.42
24:CY:293:THR:OG1	24:CY:297:GLU:HG2	2.20	0.42
24:CY:308:PRO:O	24:CY:332:SER:CB	2.65	0.42
24:CY:400:GLU:O	24:CY:402:ILE:CD1	2.64	0.42
24:CY:509:HIS:C	24:CY:510:VAL:HG23	2.44	0.42
25:D0:11:ARG:C	25:D0:12:ASN:ND2	2.77	0.42
32:D7:4:THR:O	35:DA:687:C:H5'	2.20	0.42
33:D8:34:TRP:HB2	35:DA:2420:C:OP1	2.19	0.42
33:D8:56:GLU:O	33:D8:59:LYS:CE	2.62	0.42
34:D9:29:ASN:ND2	34:D9:32:HIS:CG	2.88	0.42
35:DA:953:A:O2'	35:DA:954:G:H5'	2.20	0.42
35:DA:1052:C:C6	35:DA:1052:C:C3'	3.03	0.42
35:DA:1150:C:O2'	35:DA:1151:G:H5'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1349:A:N6	35:DA:1598:C:N4	2.67	0.42
35:DA:1541:G:H4'	35:DA:1542:A:O4'	2.19	0.42
35:DA:1669:A:OP2	35:DA:2550:G:OP1	2.38	0.42
35:DA:1819:A:H4'	35:DA:1820:U:H5''	2.00	0.42
35:DA:1821:A:H2'	35:DA:1822:G:C8	2.51	0.42
35:DA:1952:A:C2	47:DO:22:ILE:HG23	2.55	0.42
35:DA:2134:A:H1'	35:DA:2158:A:C2	2.54	0.42
35:DA:2206:G:H21	35:DA:2207:G:H4'	1.84	0.42
35:DA:2345:G:N7	35:DA:2372:G:C2	2.87	0.42
35:DA:2428:G:C5'	35:DA:2429:G:OP1	2.66	0.42
36:DB:74:U:C2'	36:DB:75:G:H5'	2.49	0.42
36:DB:114:C:H2'	36:DB:115:G:H8	1.84	0.42
39:DE:50:GLY:CA	39:DE:74:PRO:HG3	2.50	0.42
39:DE:51:PHE:HD1	39:DE:52:LEU:HD12	1.83	0.42
39:DE:51:PHE:O	39:DE:74:PRO:HB3	2.20	0.42
40:DF:184:TYR:O	40:DF:188:ARG:HG2	2.19	0.42
41:DG:13:GLU:O	41:DG:14:GLU:HB2	2.20	0.42
42:DH:94:TYR:O	42:DH:95:ARG:HB3	2.19	0.42
46:DN:2:LYS:HE2	53:DU:95:LEU:HD21	2.02	0.42
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.34	0.42
49:DQ:25:ASP:HA	49:DQ:100:GLY:O	2.18	0.42
51:DS:49:VAL:CG1	51:DS:50:SER:N	2.81	0.42
52:DT:118:ARG:O	52:DT:119:LYS:C	2.61	0.42
53:DU:82:GLY:C	53:DU:84:LYS:H	2.27	0.42
55:DW:68:ARG:HA	55:DW:110:LYS:CG	2.48	0.42
56:DX:27:THR:HB	56:DX:80:ILE:CG2	2.45	0.42
57:DY:86:ARG:CB	57:DY:88:LYS:HZ1	2.30	0.42
58:DZ:14:LYS:O	58:DZ:18:LEU:CD1	2.67	0.42
58:DZ:27:VAL:O	58:DZ:87:ASP:HA	2.19	0.42
1:AA:309:G:H1'	1:AA:608:A:H2	1.81	0.42
1:AA:312:C:H2'	1:AA:313:A:C8	2.55	0.42
1:AA:961:U:OP2	1:AA:1223:C:C4'	2.67	0.42
2:AB:17:PHE:O	2:AB:18:GLY:O	2.36	0.42
2:AB:55:PHE:HE1	2:AB:218:ALA:HA	1.84	0.42
4:AD:61:LYS:HG3	4:AD:203:VAL:HG13	2.01	0.42
7:AG:65:ALA:HB2	7:AG:128:ALA:HB2	2.02	0.42
9:AI:84:ALA:O	9:AI:86:VAL:N	2.52	0.42
10:AJ:30:SER:HA	10:AJ:80:LYS:CE	2.49	0.42
18:AR:37:VAL:C	18:AR:39:VAL:N	2.77	0.42
24:AY:97:SER:O	24:AY:100:VAL:CG1	2.67	0.42
24:AY:122:TRP:O	24:AY:124:GLN:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:238:THR:HG22	24:AY:241:GLU:CB	2.49	0.42
24:AY:302:HIS:C	24:AY:304:ASP:H	2.28	0.42
24:AY:335:LEU:CD2	24:AY:355:LEU:HD11	2.49	0.42
24:AY:359:HIS:C	24:AY:361:ASN:N	2.77	0.42
28:B3:6:VAL:O	28:B3:6:VAL:HG23	2.18	0.42
32:B7:46:VAL:CG1	32:B7:47:ARG:H	2.33	0.42
33:B8:56:GLU:O	33:B8:59:LYS:CE	2.65	0.42
35:BA:483:A:C2	35:BA:484:C:C1'	3.03	0.42
35:BA:562:U:C4	35:BA:2036:C:H1'	2.55	0.42
35:BA:799:G:C3'	35:BA:800:A:H5''	2.46	0.42
35:BA:1342:A:C2	35:BA:1345:C:C5	3.08	0.42
35:BA:1430:C:H42	35:BA:1563:G:H1	1.67	0.42
35:BA:1433:U:H1'	35:BA:1561:G:N2	2.34	0.42
35:BA:1453:U:OP1	50:BR:63:ARG:NH2	2.52	0.42
35:BA:1478:G:O2'	35:BA:1558:A:C2	2.72	0.42
35:BA:1539:G:N1	35:BA:1540:U:O2	2.52	0.42
35:BA:1609:A:H1'	35:BA:1616:A:C1'	2.49	0.42
35:BA:1814:G:C4'	38:BD:51:VAL:HG21	2.49	0.42
35:BA:1960:A:H5''	35:BA:1960:A:H8	1.85	0.42
35:BA:2298:A:H2'	35:BA:2299:G:O4'	2.20	0.42
35:BA:2341:G:H2'	35:BA:2342:C:C6	2.54	0.42
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.85	0.42
35:BA:2713:A:H4'	35:BA:2713:A:OP2	2.19	0.42
35:BA:2849:U:H4'	35:BA:2868:A:C2	2.54	0.42
36:BB:18:G:H2'	36:BB:19:G:C8	2.51	0.42
36:BB:40:U:H3'	36:BB:41:U:H5''	2.00	0.42
38:BD:112:GLN:HB2	38:BD:115:GLN:HE21	1.84	0.42
38:BD:153:ALA:C	38:BD:154:LYS:CG	2.90	0.42
39:BE:31:CYS:HA	39:BE:32:PRO:HD3	1.83	0.42
39:BE:50:GLY:CA	39:BE:74:PRO:HG3	2.49	0.42
40:BF:116:ASP:OD2	48:BP:5:ASP:N	2.52	0.42
41:BG:39:ILE:HG12	41:BG:92:VAL:HG22	2.01	0.42
41:BG:53:LEU:HD12	41:BG:56:ALA:CB	2.50	0.42
41:BG:102:PHE:C	41:BG:104:GLU:N	2.77	0.42
42:BH:43:VAL:CG1	42:BH:51:ARG:O	2.68	0.42
42:BH:94:TYR:O	42:BH:95:ARG:HB3	2.18	0.42
48:BP:5:ASP:OD2	48:BP:9:ASN:ND2	2.51	0.42
48:BP:144:GLU:N	48:BP:145:PRO:HD3	2.34	0.42
49:BQ:70:PRO:HA	49:BQ:95:ALA:HB2	2.01	0.42
50:BR:82:GLU:O	50:BR:84:ALA:N	2.52	0.42
51:BS:95:HIS:O	51:BS:96:GLY:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:109:ALA:O	58:BZ:111:VAL:N	2.52	0.42
58:BZ:111:VAL:O	58:BZ:112:ARG:CB	2.68	0.42
1:CA:178:C:C2'	1:CA:179:A:H5'	2.49	0.42
1:CA:555:C:H2'	1:CA:556:C:H6	1.84	0.42
1:CA:617:G:H4'	16:CP:44:THR:O	2.19	0.42
1:CA:1000:U:H3'	1:CA:1000:U:H6	1.84	0.42
2:CB:204:ASN:ND2	2:CB:207:ALA:H	2.17	0.42
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.49	0.42
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.54	0.42
9:CI:43:ALA:O	9:CI:45:ALA:N	2.53	0.42
12:CL:105:TYR:N	12:CL:105:TYR:CD2	2.87	0.42
17:CQ:51:TYR:CZ	17:CQ:73:VAL:HG11	2.54	0.42
22:CW:20:G:C4	35:DA:2169:A:C2	3.08	0.42
24:CY:31:ARG:HD3	24:CY:31:ARG:HA	1.84	0.42
24:CY:268:GLY:HA2	24:CY:271:LEU:HD12	2.02	0.42
24:CY:351:ARG:O	24:CY:351:ARG:HG3	2.18	0.42
24:CY:489:LYS:HD3	24:CY:598:ASP:CG	2.43	0.42
24:CY:510:VAL:HG13	24:CY:569:ASP:O	2.19	0.42
24:CY:602:LEU:HD23	24:CY:602:LEU:N	2.32	0.42
24:CY:610:VAL:CG2	24:CY:643:ILE:HB	2.49	0.42
24:CY:685:GLU:HA	24:CY:688:ILE:HD13	2.02	0.42
25:D0:37:LEU:N	25:D0:59:LEU:O	2.49	0.42
26:D1:84:GLY:O	26:D1:86:SER:OG	2.35	0.42
30:D5:44:THR:CG2	30:D5:45:VAL:N	2.79	0.42
33:D8:32:LEU:CD2	33:D8:32:LEU:H	2.32	0.42
35:DA:86:C:H4'	35:DA:104:U:O2	2.19	0.42
35:DA:271(M):G:C2'	35:DA:271(N):U:H5''	2.49	0.42
35:DA:654(B):C:H2'	35:DA:654(C):G:C8	2.55	0.42
35:DA:918:A:H1'	36:DB:80:U:O2'	2.19	0.42
35:DA:975:C:OP2	35:DA:975:C:H4'	2.19	0.42
35:DA:987:G:H2'	35:DA:988:A:O4'	2.19	0.42
35:DA:1062:G:H22	35:DA:1077:A:H1'	1.85	0.42
35:DA:1276:A:C1'	50:DR:16:HIS:HE1	2.31	0.42
35:DA:1433:U:H1'	35:DA:1561:G:N2	2.34	0.42
35:DA:1493:C:H4'	35:DA:1494:A:OP1	2.19	0.42
35:DA:1502:C:H2'	35:DA:1503:U:C6	2.54	0.42
35:DA:1509(B):A:H2'	35:DA:1510:G:C8	2.55	0.42
35:DA:1632:A:C5	35:DA:1633:G:C6	3.08	0.42
35:DA:1635:G:H2'	35:DA:1636:C:H6	1.84	0.42
35:DA:1657:C:H4'	39:DE:133:LYS:HG2	2.02	0.42
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1858:G:H8	35:DA:1858:G:OP2	2.03	0.42
35:DA:2078:C:C4	35:DA:2079:U:C4	3.07	0.42
35:DA:2794:C:N4	35:DA:2801(A):A:H61	2.14	0.42
36:DB:105:A:P	58:DZ:72:ARG:HH12	2.42	0.42
38:DD:4:LYS:NZ	38:DD:20:ASP:HA	2.34	0.42
38:DD:155:LEU:CD1	38:DD:155:LEU:N	2.82	0.42
40:DF:118:ALA:O	40:DF:121:GLY:N	2.51	0.42
40:DF:198:ALA:HA	40:DF:201:VAL:HG12	2.00	0.42
42:DH:83:TYR:HB3	42:DH:134:SER:CA	2.40	0.42
42:DH:108:GLY:O	42:DH:109:PHE:C	2.61	0.42
43:DJ:32:UNK:C	43:DJ:33:UNK:O	2.67	0.42
43:DJ:35:UNK:C	43:DJ:37:UNK:H	2.32	0.42
43:DJ:95:UNK:O	43:DJ:97:UNK:N	2.52	0.42
47:DO:24:VAL:CG2	47:DO:24:VAL:O	2.65	0.42
47:DO:106:LEU:O	47:DO:107:ARG:C	2.62	0.42
48:DP:98:GLU:H	48:DP:101:VAL:HG13	1.83	0.42
48:DP:110:TYR:O	48:DP:111:ARG:O	2.38	0.42
50:DR:12:ARG:CG	50:DR:12:ARG:NH1	2.81	0.42
50:DR:53:HIS:ND1	50:DR:53:HIS:C	2.77	0.42
50:DR:61:HIS:O	50:DR:62:ALA:C	2.62	0.42
51:DS:42:ASP:C	51:DS:44:LYS:N	2.76	0.42
53:DU:83:LEU:CD1	53:DU:113:ALA:HB2	2.49	0.42
53:DU:96:ALA:C	53:DU:98:LEU:N	2.77	0.42
55:DW:61:ASN:HD22	55:DW:61:ASN:HA	1.62	0.42
55:DW:72:LYS:H	55:DW:107:LEU:HA	1.85	0.42
56:DX:63:LYS:HB3	56:DX:72:LYS:HG2	2.01	0.42
57:DY:88:LYS:HE2	57:DY:93:GLY:HA3	2.00	0.42
58:DZ:14:LYS:HB2	58:DZ:17:ALA:HB3	2.01	0.42
1:AA:28:G:O2'	1:AA:296:U:OP1	2.35	0.42
1:AA:745:C:H2'	1:AA:746:A:C8	2.54	0.42
1:AA:954:G:H2'	1:AA:955:U:H6	1.83	0.42
1:AA:1104:G:O2'	1:AA:1105:A:H5'	2.20	0.42
1:AA:1122:U:H2'	1:AA:1123:A:H5'	2.01	0.42
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.55	0.42
1:AA:1399:C:C2	1:AA:1401:G:C5	3.08	0.42
2:AB:52:GLU:O	2:AB:56:ARG:HG2	2.20	0.42
3:AC:123:GLN:HB3	3:AC:128:PHE:CD2	2.44	0.42
3:AC:127:ARG:HG2	3:AC:127:ARG:NH1	2.34	0.42
4:AD:129:ASN:ND2	4:AD:129:ASN:N	2.68	0.42
6:AF:100:ASN:O	18:AR:28:GLU:HG2	2.18	0.42
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.20	0.42
11:AK:91:ARG:HG2	11:AK:91:ARG:O	2.20	0.42
13:AM:19:LEU:CD2	13:AM:19:LEU:H	2.32	0.42
18:AR:66:LEU:O	18:AR:67:ALA:C	2.62	0.42
24:AY:260:LEU:O	24:AY:268:GLY:HA3	2.19	0.42
24:AY:329:ARG:HG3	24:AY:331:TYR:CZ	2.54	0.42
24:AY:356:LEU:HD23	24:AY:356:LEU:C	2.45	0.42
24:AY:442:THR:HG23	24:AY:447:GLY:O	2.19	0.42
61:AY:702:FUA:C15	61:AY:702:FUA:H323	2.49	0.42
25:B0:51:VAL:HG12	25:B0:59:LEU:HD22	2.02	0.42
27:B2:47:ASN:O	27:B2:49:LYS:N	2.53	0.42
30:B5:42:PRO:O	30:B5:43:HIS:HB2	2.20	0.42
31:B6:8:LYS:HZ1	35:BA:2285:C:H5	1.58	0.42
31:B6:11:LEU:CB	31:B6:26:ASN:HD21	2.32	0.42
32:B7:27:GLY:HA2	32:B7:30:VAL:CG2	2.50	0.42
35:BA:27:G:H1'	35:BA:513:A:H62	1.84	0.42
35:BA:201:C:C5	35:BA:202:U:C5	3.08	0.42
35:BA:294:A:N6	35:BA:345:A:H1'	2.35	0.42
35:BA:868:U:C4	35:BA:869:G:N7	2.88	0.42
35:BA:1006:C:O2'	46:BN:106:MET:HB3	2.18	0.42
35:BA:1265:A:H5'	35:BA:1267:U:C1'	2.46	0.42
35:BA:1858:G:H8	35:BA:1858:G:OP2	2.02	0.42
35:BA:2078:C:C4	35:BA:2079:U:C4	3.08	0.42
35:BA:2126:A:H1'	35:BA:2127:G:O4'	2.20	0.42
35:BA:2206:G:H21	35:BA:2207:G:H4'	1.84	0.42
35:BA:2422:A:H3'	35:BA:2422:A:H8	1.84	0.42
35:BA:2552:U:H2'	35:BA:2554:U:H5''	2.01	0.42
36:BB:30:C:OP2	51:BS:32:LEU:HD21	2.20	0.42
37:BC:7:ARG:O	37:BC:11:LEU:HG	2.20	0.42
37:BC:78:ILE:HG21	37:BC:124:VAL:CG2	2.49	0.42
37:BC:117:THR:O	37:BC:120:VAL:HG22	2.19	0.42
38:BD:177:LEU:C	38:BD:179:SER:N	2.77	0.42
40:BF:157:VAL:HA	40:BF:176:LEU:O	2.18	0.42
42:BH:18:GLU:CB	42:BH:25:LYS:HB2	2.43	0.42
44:BK:93:ARG:HD2	44:BK:93:ARG:O	2.20	0.42
46:BN:35:ARG:HB3	46:BN:42:TRP:CZ3	2.55	0.42
46:BN:130:HIS:O	46:BN:130:HIS:CG	2.73	0.42
47:BO:31:LYS:HB3	47:BO:32:TYR:CE1	2.54	0.42
47:BO:88:ASN:O	47:BO:90:GLN:N	2.53	0.42
50:BR:24:GLN:HB2	50:BR:44:LEU:HD23	2.01	0.42
57:BY:103:GLY:O	57:BY:105:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:11:GLU:H	58:BZ:11:GLU:CD	2.25	0.42
1:CA:201:C:C3'	1:CA:202:U:H5''	2.50	0.42
1:CA:238:G:P	17:CQ:25:ARG:HH22	2.43	0.42
1:CA:322:C:H41	1:CA:328:C:H6	1.66	0.42
1:CA:356:A:H2'	1:CA:357:G:H8	1.85	0.42
1:CA:1483:A:H2'	1:CA:1484:C:O4'	2.19	0.42
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.54	0.42
3:CC:137:ALA:HA	3:CC:140:ARG:HH22	1.83	0.42
3:CC:155:GLY:O	3:CC:156:ARG:CB	2.67	0.42
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	2.00	0.42
5:CE:7:GLU:HB3	5:CE:35:GLY:O	2.20	0.42
5:CE:82:VAL:HG21	5:CE:138:ALA:CA	2.41	0.42
5:CE:142:LEU:O	5:CE:143:ARG:CD	2.67	0.42
7:CG:88:PRO:HG2	7:CG:88:PRO:O	2.20	0.42
7:CG:153:HIS:CE1	11:CK:58:PRO:HD2	2.55	0.42
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.34	0.42
9:CI:11:LYS:O	9:CI:12:GLU:HB2	2.20	0.42
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.49	0.42
12:CL:91:LYS:HE2	12:CL:91:LYS:HB2	1.71	0.42
13:CM:19:LEU:CD2	13:CM:19:LEU:H	2.32	0.42
13:CM:70:LEU:O	13:CM:71:ARG:C	2.61	0.42
15:CO:69:TYR:CZ	15:CO:73:GLU:HG3	2.54	0.42
16:CP:9:PHE:HE2	16:CP:18:ARG:HD2	1.83	0.42
16:CP:53:VAL:O	16:CP:54:GLU:C	2.62	0.42
17:CQ:52:LYS:HD2	17:CQ:52:LYS:N	2.20	0.42
22:CV:74:C:H2'	22:CV:75:C:C5'	2.49	0.42
22:CW:73:A:C2'	22:CW:74:A:O5'	2.68	0.42
24:CY:15:ILE:O	24:CY:81:ILE:HG23	2.20	0.42
24:CY:409:ILE:HD13	24:CY:409:ILE:HA	1.82	0.42
25:D0:49:LYS:HG3	25:D0:80:HIS:ND1	2.34	0.42
26:D1:53:VAL:HG11	26:D1:90:ILE:HG21	2.02	0.42
28:D3:29:ARG:O	28:D3:30:ARG:C	2.62	0.42
33:D8:39:LYS:HE3	35:DA:2365:G:O6	2.19	0.42
34:D9:16:VAL:O	35:DA:1033:U:H5	2.03	0.42
35:DA:349:G:C2'	35:DA:350:U:H5'	2.50	0.42
35:DA:696:G:C2	35:DA:767:U:O2	2.73	0.42
35:DA:817:C:O2'	35:DA:839:U:OP1	2.37	0.42
35:DA:1133:U:O2	35:DA:1137:G:C5'	2.68	0.42
35:DA:1142(A):A:C6	35:DA:1144:G:C5	3.07	0.42
35:DA:1362:C:H2'	35:DA:1363:C:C6	2.55	0.42
35:DA:1771:C:H2'	35:DA:1772:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1782:C:H6	35:DA:1782:C:O5'	2.02	0.42
35:DA:1803:A:C8	35:DA:1804:C:C5	3.07	0.42
35:DA:1805:U:H2'	35:DA:1806:C:C6	2.55	0.42
35:DA:2033:A:O2'	35:DA:2034:U:P	2.78	0.42
35:DA:2147:G:H2'	35:DA:2148:G:C4'	2.50	0.42
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.49	0.42
35:DA:2578:G:N2	35:DA:2579:C:C2	2.88	0.42
36:DB:42:C:C5'	41:DG:67:LYS:HD2	2.49	0.42
37:DC:102:GLN:O	37:DC:105:LEU:N	2.53	0.42
37:DC:115:VAL:HA	37:DC:145:THR:CG2	2.48	0.42
38:DD:4:LYS:HZ2	38:DD:20:ASP:HA	1.84	0.42
38:DD:138:VAL:HA	38:DD:165:ILE:CG2	2.50	0.42
39:DE:56:PRO:O	39:DE:57:LYS:O	2.36	0.42
40:DF:40:GLN:C	40:DF:42:ALA:N	2.77	0.42
40:DF:124:LEU:CD2	40:DF:191:ARG:HH21	2.32	0.42
40:DF:181:LEU:O	40:DF:205:ARG:NH1	2.53	0.42
41:DG:18:GLU:HG2	41:DG:175:LEU:HD13	2.02	0.42
41:DG:39:ILE:HD11	41:DG:92:VAL:CG2	2.50	0.42
42:DH:103:LEU:HD12	42:DH:104:GLU:N	2.35	0.42
44:DK:93:ARG:HB2	58:DZ:112:ARG:NH2	2.35	0.42
44:DK:100:THR:CA	44:DK:139:VAL:HB	2.43	0.42
49:DQ:75:THR:HG22	49:DQ:76:LYS:H	1.82	0.42
51:DS:74:ALA:HB2	51:DS:101:LEU:HD22	2.01	0.42
51:DS:102:ALA:O	51:DS:103:GLU:C	2.62	0.42
53:DU:37:GLU:O	53:DU:40:PHE:HB2	2.19	0.42
58:DZ:9:TYR:HB3	58:DZ:35:ARG:NH2	2.33	0.42
1:AA:271:C:H2'	1:AA:272:C:H6	1.84	0.42
1:AA:807:A:C5	1:AA:808:C:C4	3.08	0.42
1:AA:1130:A:H5'	9:AI:18:PHE:HE1	1.84	0.42
1:AA:1134:G:H2'	1:AA:1135:U:H5'	2.01	0.42
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.84	0.42
1:AA:1423:G:P	47:BO:49:ARG:HH22	2.42	0.42
1:AA:1475:G:OP1	35:BA:1689:A:H1'	2.19	0.42
6:AF:1:MET:HE1	6:AF:68:PRO:CD	2.47	0.42
7:AG:38:LEU:O	7:AG:38:LEU:HD12	2.20	0.42
7:AG:65:ALA:HA	7:AG:128:ALA:CA	2.49	0.42
8:AH:6:ILE:O	8:AH:7:ALA:C	2.62	0.42
9:AI:43:ALA:C	9:AI:45:ALA:N	2.78	0.42
11:AK:79:SER:CB	11:AK:106:LYS:HD2	2.50	0.42
13:AM:72:ALA:O	13:AM:75:ALA:N	2.53	0.42
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:19:VAL:HG13	19:AS:44:MET:HG2	2.02	0.42
24:AY:88:VAL:O	24:AY:89:ASP:C	2.62	0.42
24:AY:274:ASP:C	24:AY:276:VAL:N	2.76	0.42
24:AY:580:MET:SD	35:BA:1913:A:N6	2.93	0.42
25:B0:23:VAL:HG13	25:B0:38:VAL:HG22	2.02	0.42
26:B1:4:VAL:HG21	26:B1:11:ARG:HH11	1.84	0.42
26:B1:85:LEU:C	26:B1:87:PRO:CD	2.93	0.42
26:B1:86:SER:C	26:B1:90:ILE:HG12	2.42	0.42
31:B6:9:LEU:CD1	31:B6:26:ASN:HB2	2.49	0.42
33:B8:25:MET:HB3	33:B8:26:LYS:H	1.69	0.42
33:B8:34:TRP:HB2	35:BA:2420:C:OP1	2.20	0.42
35:BA:696:G:C2	35:BA:767:U:O2	2.72	0.42
35:BA:750:A:C3'	35:BA:751:A:H5''	2.48	0.42
35:BA:805:G:H4'	35:BA:806:C:OP2	2.20	0.42
35:BA:823:G:C6	35:BA:824:A:C6	3.07	0.42
35:BA:953:A:H2'	35:BA:954:G:H8	1.84	0.42
35:BA:1043:C:H2'	35:BA:1044:G:C5'	2.19	0.42
35:BA:1230:C:H2'	35:BA:1231:G:H8	1.84	0.42
35:BA:1343:G:N3	35:BA:1384:A:H2	2.18	0.42
35:BA:1493:C:O2	35:BA:1493:C:C2'	2.67	0.42
35:BA:1638:C:O2'	35:BA:1639:U:H5'	2.19	0.42
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.54	0.42
35:BA:1827:C:H2'	35:BA:1828:G:C5'	2.49	0.42
35:BA:2015:A:H2'	35:BA:2016:U:O4'	2.19	0.42
35:BA:2292:C:O2'	35:BA:2293:C:H5'	2.20	0.42
35:BA:2428:G:C5'	35:BA:2429:G:OP1	2.67	0.42
35:BA:2516:G:C6	35:BA:2517:C:C4	3.08	0.42
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.54	0.42
36:BB:56:G:H4'	41:BG:27:ASN:HD21	1.83	0.42
37:BC:101:ILE:HG23	37:BC:128:LEU:HD21	2.01	0.42
38:BD:45:ASN:CG	38:BD:46:GLN:N	2.77	0.42
38:BD:62:TYR:CD1	38:BD:62:TYR:C	2.98	0.42
38:BD:267:SER:C	38:BD:269:PHE:N	2.75	0.42
39:BE:25:VAL:CG1	39:BE:181:LEU:HD12	2.49	0.42
39:BE:78:LEU:O	39:BE:78:LEU:HD12	2.20	0.42
40:BF:124:LEU:CD2	40:BF:191:ARG:HH21	2.32	0.42
47:BO:12:ASP:C	47:BO:14:THR:H	2.27	0.42
48:BP:13:ASN:C	48:BP:13:ASN:HD22	2.28	0.42
48:BP:46:LYS:HG2	48:BP:52:GLU:CG	2.49	0.42
50:BR:28:LEU:C	50:BR:28:LEU:CD2	2.91	0.42
50:BR:56:LYS:HE2	50:BR:88:ARG:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:83:ILE:O	50:BR:83:ILE:HG22	2.19	0.42
51:BS:12:PHE:O	51:BS:13:ARG:C	2.63	0.42
51:BS:14:VAL:CG1	51:BS:16:ASN:HD22	2.32	0.42
51:BS:98:VAL:O	51:BS:100:ALA:N	2.51	0.42
51:BS:99:LYS:O	51:BS:100:ALA:C	2.63	0.42
57:BY:7:VAL:CG2	57:BY:8:LYS:HZ2	2.32	0.42
58:BZ:29:TYR:O	58:BZ:30:ASN:CB	2.68	0.42
58:BZ:71:VAL:HG11	58:BZ:74:VAL:HG23	2.01	0.42
58:BZ:153:SER:C	58:BZ:155:LEU:CD2	2.92	0.42
1:CA:15:G:H4'	5:CE:24:ARG:HH12	1.84	0.42
1:CA:329:A:H3'	1:CA:330:C:H5'	2.00	0.42
1:CA:341:C:O2	1:CA:349:A:C2	2.73	0.42
3:CC:156:ARG:NH2	3:CC:161:GLU:HA	2.34	0.42
4:CD:202:LEU:O	4:CD:203:VAL:C	2.63	0.42
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.35	0.42
5:CE:56:GLN:O	5:CE:57:LYS:C	2.63	0.42
8:CH:19:VAL:CG2	8:CH:21:LYS:HB2	2.50	0.42
9:CI:35:GLU:HA	9:CI:38:GLN:HB2	2.02	0.42
9:CI:117:HIS:O	9:CI:118:LYS:HG3	2.19	0.42
10:CJ:22:LYS:HD2	10:CJ:22:LYS:C	2.45	0.42
12:CL:47:LYS:NZ	12:CL:48:PRO:HD3	2.34	0.42
13:CM:117:VAL:O	13:CM:118:ALA:C	2.62	0.42
15:CO:48:LYS:HD3	15:CO:48:LYS:HA	1.74	0.42
16:CP:53:VAL:CG2	16:CP:54:GLU:N	2.82	0.42
16:CP:58:TYR:CD1	16:CP:59:TRP:N	2.88	0.42
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.20	0.42
24:CY:122:TRP:C	24:CY:124:GLN:H	2.27	0.42
24:CY:170:ARG:O	24:CY:171:GLU:CG	2.68	0.42
24:CY:204:GLU:CD	24:CY:204:GLU:H	2.27	0.42
24:CY:232:LEU:N	24:CY:232:LEU:HD13	2.35	0.42
24:CY:457:LEU:HD23	24:CY:460:GLU:OE1	2.18	0.42
25:D0:59:LEU:HD23	25:D0:59:LEU:HA	1.85	0.42
29:D4:25:TYR:CD1	29:D4:25:TYR:N	2.87	0.42
29:D4:39:CYS:HG	29:D4:42:PHE:HE2	1.56	0.42
30:D5:13:LYS:NZ	35:DA:517:C:OP2	2.50	0.42
30:D5:36:CYS:HG	30:D5:49:CYS:HB3	1.85	0.42
30:D5:48:GLU:C	30:D5:49:CYS:SG	3.02	0.42
31:D6:35:GLU:HB3	31:D6:51:GLU:N	2.35	0.42
35:DA:143:G:H2'	35:DA:143(A):C:C6	2.54	0.42
35:DA:271(J):C:O2	35:DA:271(J):C:C2'	2.63	0.42
35:DA:285:C:H2'	35:DA:286:C:C5'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:444:C:H2'	35:DA:445:C:C6	2.54	0.42
35:DA:637:A:N6	35:DA:652:C:H4'	2.35	0.42
35:DA:685:A:C6	35:DA:774:A:C2	3.08	0.42
35:DA:784:A:HO2'	35:DA:785:G:H8	1.66	0.42
35:DA:802:A:C5	35:DA:803:U:C4	3.08	0.42
35:DA:980:A:C4	35:DA:1136:G:O4'	2.73	0.42
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.71	0.42
35:DA:1278:A:C5'	50:DR:36:THR:HG22	2.48	0.42
35:DA:1329:U:H5'	35:DA:1330:C:C5	2.49	0.42
35:DA:1416:G:H1'	35:DA:1417:C:C5	2.54	0.42
35:DA:2103:C:H3'	35:DA:2104:G:H5''	1.99	0.42
35:DA:2154:G:C2	35:DA:2155:G:C4	3.08	0.42
35:DA:2246:G:H2'	35:DA:2247:A:C8	2.55	0.42
35:DA:2361:A:H2'	35:DA:2361:A:N3	2.35	0.42
35:DA:2665:A:H2'	35:DA:2666:C:O4'	2.20	0.42
35:DA:2701:C:H2'	35:DA:2702:U:H2'	2.02	0.42
36:DB:40:U:O2'	36:DB:43:C:C5	2.66	0.42
36:DB:42:C:N4	41:DG:91:ARG:CZ	2.83	0.42
36:DB:77:U:P	58:DZ:19:ARG:HH22	2.43	0.42
36:DB:96:U:H2'	36:DB:97:G:C8	2.54	0.42
39:DE:183:LEU:N	39:DE:183:LEU:HD12	2.35	0.42
42:DH:162:ILE:HG13	42:DH:162:ILE:O	2.20	0.42
46:DN:3:THR:CG2	46:DN:4:TYR:H	2.29	0.42
46:DN:38:HIS:O	53:DU:67:ALA:HB1	2.20	0.42
46:DN:46:VAL:CG1	46:DN:48:MET:HE2	2.44	0.42
49:DQ:1:MET:HE1	49:DQ:45:GLN:N	2.34	0.42
49:DQ:37:LEU:HG	49:DQ:129:THR:HA	2.02	0.42
49:DQ:61:GLY:O	58:DZ:178:GLU:HB2	2.19	0.42
50:DR:55:ALA:HB2	50:DR:79:LEU:CD1	2.49	0.42
52:DT:108:ARG:HA	52:DT:111:ARG:HH11	1.85	0.42
52:DT:129:ARG:C	52:DT:131:ALA:H	2.21	0.42
52:DT:129:ARG:C	52:DT:131:ALA:N	2.78	0.42
55:DW:44:ALA:O	55:DW:47:VAL:N	2.52	0.42
57:DY:13:VAL:HG22	57:DY:14:LEU:N	2.33	0.42
58:DZ:12:GLY:CA	58:DZ:36:LYS:HZ3	2.31	0.42
1:AA:151:A:C2'	1:AA:152:A:H5'	2.49	0.42
1:AA:178:C:C2'	1:AA:179:A:H5'	2.49	0.42
1:AA:658:G:C6	1:AA:749:C:N4	2.87	0.42
1:AA:738:C:OP1	6:AF:4:TYR:OH	2.37	0.42
1:AA:1129:C:O2'	1:AA:1130:A:O5'	2.38	0.42
2:AB:74:LYS:O	2:AB:75:LYS:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:78:GLN:O	2:AB:79:ASP:C	2.62	0.42
2:AB:160:ASP:O	2:AB:161:ALA:HB2	2.20	0.42
2:AB:235:SER:OG	2:AB:236:TYR:N	2.49	0.42
3:AC:29:TYR:CG	14:AN:36:PHE:HE1	2.38	0.42
7:AG:41:ARG:O	7:AG:42:ILE:C	2.63	0.42
7:AG:64:GLN:HG2	7:AG:128:ALA:HB1	2.01	0.42
8:AH:30:ARG:CB	8:AH:30:ARG:NH1	2.83	0.42
9:AI:97:LYS:N	9:AI:98:PRO:CD	2.83	0.42
11:AK:21:ILE:HG13	11:AK:30:VAL:CG1	2.49	0.42
12:AL:6:THR:H	12:AL:9:GLN:NE2	2.16	0.42
15:AO:18:PHE:CD1	15:AO:18:PHE:C	2.97	0.42
16:AP:1:MET:HG3	16:AP:65:GLN:HG3	2.00	0.42
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	2.02	0.42
20:AT:89:ARG:HD2	20:AT:104:LEU:CD1	2.49	0.42
21:AU:10:ARG:HA	21:AU:13:ILE:HD12	2.00	0.42
22:AV:35:A:C2	23:AX:18:G:C2	3.08	0.42
24:AY:21:ILE:CG1	35:BA:2661:G:H5''	2.40	0.42
24:AY:34:TYR:O	24:AY:38:ARG:HB2	2.19	0.42
24:AY:290:LYS:HD3	24:AY:298:VAL:HG21	2.02	0.42
24:AY:354:ARG:O	24:AY:378:VAL:HG23	2.20	0.42
24:AY:484:ARG:HD2	24:AY:559:PRO:HB2	2.02	0.42
24:AY:537:GLU:H	24:AY:537:GLU:HG3	1.57	0.42
27:B2:43:GLN:O	27:B2:44:LEU:C	2.63	0.42
27:B2:58:ALA:O	27:B2:61:LEU:N	2.53	0.42
31:B6:26:ASN:O	31:B6:27:LYS:HB2	2.19	0.42
31:B6:29:ASN:O	31:B6:30:THR:C	2.60	0.42
33:B8:61:LEU:H	33:B8:61:LEU:HG	1.33	0.42
35:BA:84:A:N3	35:BA:85:G:H1'	2.34	0.42
35:BA:583:G:C5	35:BA:584:C:C5	3.07	0.42
35:BA:598:G:H5'	48:BP:15:ARG:CB	2.43	0.42
35:BA:862:G:H2'	35:BA:863:A:O4'	2.20	0.42
35:BA:864:G:H21	35:BA:866:A:H61	1.67	0.42
35:BA:987:G:H2'	35:BA:988:A:O4'	2.20	0.42
35:BA:1009:A:H1'	53:BU:59:ARG:NH1	2.34	0.42
35:BA:1022:G:O2'	35:BA:1023:U:OP2	2.37	0.42
35:BA:1142(A):A:C6	35:BA:1144:G:C5	3.08	0.42
35:BA:1461:G:H2'	35:BA:1462:C:C6	2.54	0.42
35:BA:1678:G:N2	35:BA:1989:G:N2	2.57	0.42
35:BA:1858:G:HO2'	35:BA:1859:A:H8	1.68	0.42
35:BA:1902:C:H1'	38:BD:244:ARG:HG3	2.01	0.42
35:BA:2507:C:H2'	35:BA:2508:G:H8	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2795:G:N2	35:BA:2796:U:H5	2.14	0.42
36:BB:58:A:H2'	36:BB:59:A:O4'	2.19	0.42
36:BB:111:G:O2'	36:BB:112:U:H5'	2.20	0.42
37:BC:101:ILE:O	37:BC:101:ILE:HG22	2.19	0.42
37:BC:127:LYS:O	37:BC:128:LEU:CG	2.67	0.42
38:BD:34:VAL:O	38:BD:36:PRO:HD2	2.19	0.42
38:BD:242:ARG:HB2	38:BD:243:GLY:H	1.59	0.42
38:BD:270:ILE:HD12	38:BD:270:ILE:N	2.35	0.42
39:BE:52:LEU:O	39:BE:53:PRO:C	2.61	0.42
39:BE:96:PHE:O	39:BE:175:VAL:HG11	2.20	0.42
39:BE:101:ARG:CZ	39:BE:171:GLU:HB2	2.49	0.42
40:BF:109:GLY:HA2	40:BF:112:MET:HB2	2.01	0.42
40:BF:206:ILE:CG2	40:BF:207:GLY:H	2.31	0.42
41:BG:131:TYR:HE2	41:BG:133:LEU:CB	2.27	0.42
43:BJ:37:UNK:C	43:BJ:39:UNK:N	2.83	0.42
44:BK:103:GLN:HA	44:BK:106:GLU:OE2	2.19	0.42
46:BN:56:ASN:CG	46:BN:126:PRO:HD3	2.43	0.42
46:BN:125:GLY:HA3	46:BN:126:PRO:O	2.20	0.42
47:BO:69:ILE:HB	47:BO:77:ILE:CG2	2.49	0.42
50:BR:10:LEU:CB	50:BR:17:ARG:HD3	2.41	0.42
50:BR:11:ASN:CG	50:BR:12:ARG:N	2.78	0.42
50:BR:76:VAL:CG1	50:BR:77:ARG:N	2.82	0.42
51:BS:65:VAL:C	51:BS:67:ARG:N	2.75	0.42
52:BT:78:LEU:HD22	52:BT:78:LEU:O	2.19	0.42
53:BU:25:TRP:C	53:BU:25:TRP:CD1	2.97	0.42
53:BU:92:ARG:CZ	54:BV:11:GLN:H	2.32	0.42
54:BV:13:ARG:HH11	54:BV:13:ARG:CG	2.33	0.42
54:BV:38:LEU:HD12	54:BV:56:SER:CA	2.50	0.42
55:BW:28:SER:C	55:BW:30:GLU:N	2.77	0.42
55:BW:44:ALA:O	55:BW:47:VAL:N	2.53	0.42
57:BY:51:VAL:HG12	57:BY:53:PRO:CD	2.48	0.42
58:BZ:168:GLU:OE2	58:BZ:168:GLU:HA	2.20	0.42
1:CA:532:A:C2'	1:CA:533:A:OP1	2.68	0.42
1:CA:784:C:H4'	35:DA:1837:C:OP1	2.20	0.42
1:CA:1009:G:C2	1:CA:1010:G:C8	3.08	0.42
1:CA:1115:C:C4	1:CA:1116:C:C5	3.07	0.42
1:CA:1284:C:O5'	1:CA:1284:C:H6	2.03	0.42
2:CB:203:GLY:O	2:CB:204:ASN:C	2.62	0.42
4:CD:62:GLN:O	4:CD:66:ARG:HD2	2.19	0.42
4:CD:103:ASN:O	4:CD:104:VAL:C	2.61	0.42
5:CE:50:GLU:CG	5:CE:52:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:12:PRO:HG3	6:CF:55:ASP:OD1	2.19	0.42
7:CG:132:GLY:C	7:CG:134:ALA:N	2.76	0.42
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.34	0.42
8:CH:20:TYR:CE2	8:CH:75:ARG:HB3	2.55	0.42
8:CH:66:GLY:O	8:CH:76:PRO:CB	2.68	0.42
9:CI:11:LYS:C	9:CI:13:ALA:H	2.28	0.42
9:CI:125:TYR:CD2	9:CI:126:SER:N	2.87	0.42
10:CJ:50:ILE:HD11	14:CN:41:ARG:HH11	1.79	0.42
12:CL:98:TYR:CD1	12:CL:98:TYR:N	2.88	0.42
13:CM:5:ALA:O	41:DG:113:ARG:NH1	2.53	0.42
15:CO:56:LEU:HD21	35:DA:715:G:C2	2.54	0.42
16:CP:1:MET:SD	16:CP:3:LYS:HE3	2.59	0.42
19:CS:37:ARG:H	19:CS:37:ARG:HG3	1.43	0.42
22:CV:56:C:C2	41:DG:83:ARG:HG2	2.55	0.42
24:CY:443:HIS:CD2	24:CY:450:ILE:HD11	2.55	0.42
24:CY:512:ILE:N	24:CY:512:ILE:CD1	2.82	0.42
24:CY:519:ARG:CZ	24:CY:677:GLN:HA	2.50	0.42
25:D0:41:ARG:O	25:D0:42:GLY:O	2.37	0.42
26:D1:66:HIS:O	26:D1:67:ILE:C	2.63	0.42
27:D2:48:HIS:HA	27:D2:51:ARG:HG2	2.01	0.42
30:D5:44:THR:HG21	50:DR:101:ALA:CB	2.28	0.42
33:D8:26:LYS:HE2	33:D8:47:LYS:HD2	2.01	0.42
35:DA:464:U:H2'	35:DA:465:G:O4'	2.19	0.42
35:DA:605:C:C4	35:DA:606:U:C5	3.08	0.42
35:DA:694:U:H2'	35:DA:695:G:O5'	2.20	0.42
35:DA:781:A:H2	35:DA:1776:G:N3	2.18	0.42
35:DA:877:U:C2'	35:DA:878:A:H5''	2.50	0.42
35:DA:1666:G:O2'	35:DA:1667:G:H5'	2.20	0.42
35:DA:1747(A):G:C2'	35:DA:1748:G:C5'	2.76	0.42
35:DA:1841:U:H2'	35:DA:1842:G:H8	1.84	0.42
35:DA:2131:G:C8	35:DA:2133:G:C2	3.08	0.42
35:DA:2131:G:C8	35:DA:2133:G:N2	2.88	0.42
35:DA:2684:U:H2'	35:DA:2685:G:O4'	2.20	0.42
35:DA:2688:U:H1'	35:DA:2721:A:H61	1.82	0.42
37:DC:10:ALA:O	37:DC:13:GLU:HG2	2.20	0.42
39:DE:25:VAL:CG1	39:DE:181:LEU:HD12	2.48	0.42
39:DE:68:ALA:C	39:DE:70:ALA:N	2.76	0.42
39:DE:101:ARG:HG3	39:DE:169:ASN:ND2	2.35	0.42
40:DF:110:LEU:HD13	40:DF:202:PHE:HE1	1.84	0.42
41:DG:13:GLU:O	41:DG:14:GLU:CB	2.68	0.42
41:DG:38:VAL:CG1	41:DG:93:THR:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:117:PHE:CE1	41:DG:119:GLY:HA2	2.55	0.42
41:DG:168:GLU:C	41:DG:170:ARG:H	2.28	0.42
43:DJ:144:UNK:C	43:DJ:146:UNK:N	2.82	0.42
44:DK:104:VAL:CG2	44:DK:127:ILE:HB	2.50	0.42
44:DK:111:LYS:C	44:DK:113:PRO:HD2	2.45	0.42
46:DN:34:LEU:HD13	46:DN:34:LEU:HA	1.88	0.42
50:DR:72:ASP:CG	50:DR:75:LEU:HB2	2.44	0.42
50:DR:79:LEU:HD22	50:DR:83:ILE:HB	2.01	0.42
51:DS:67:ARG:NH2	51:DS:100:ALA:HB3	2.34	0.42
54:DV:13:ARG:HH11	54:DV:13:ARG:CG	2.33	0.42
54:DV:19:LYS:NZ	54:DV:20:LEU:C	2.78	0.42
55:DW:50:VAL:HG13	55:DW:51:LEU:N	2.33	0.42
56:DX:18:TYR:HA	56:DX:21:PHE:CE1	2.55	0.42
56:DX:86:GLY:O	56:DX:87:GLN:C	2.63	0.42
57:DY:80:GLY:O	57:DY:81:LYS:O	2.38	0.42
58:DZ:85:HIS:ND1	58:DZ:86:VAL:N	2.67	0.42
1:AA:368:U:OP2	24:AY:353:ALA:CB	2.68	0.42
1:AA:666:G:C2	1:AA:667:G:C8	3.08	0.42
1:AA:757:U:H2'	1:AA:758:G:O4'	2.20	0.42
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.19	0.42
1:AA:972:C:O2'	10:AJ:55:LYS:HB3	2.20	0.42
1:AA:1002:G:C8	1:AA:1003:G:N7	2.88	0.42
1:AA:1403:C:O2	1:AA:1403:C:C2'	2.66	0.42
2:AB:21:ARG:HA	2:AB:40:HIS:ND1	2.35	0.42
2:AB:203:GLY:O	2:AB:204:ASN:C	2.63	0.42
3:AC:54:ARG:HG2	3:AC:54:ARG:NH1	2.34	0.42
3:AC:132:ARG:O	3:AC:133:ALA:C	2.62	0.42
5:AE:72:GLN:NE2	5:AE:144:THR:HG22	2.33	0.42
8:AH:123:GLU:O	8:AH:126:LYS:HB3	2.20	0.42
9:AI:99:LEU:N	9:AI:99:LEU:HD22	2.34	0.42
11:AK:69:ALA:O	11:AK:70:LYS:C	2.61	0.42
13:AM:34:LEU:HD23	13:AM:34:LEU:HA	1.89	0.42
13:AM:37:THR:HG21	13:AM:56:LEU:CD2	2.46	0.42
14:AN:36:PHE:C	14:AN:36:PHE:HD1	2.26	0.42
19:AS:20:LEU:HA	19:AS:23:ASN:CB	2.46	0.42
22:AV:28:C:O2	22:AV:43:A:C2	2.72	0.42
24:AY:357:ARG:HG3	24:AY:357:ARG:NH2	2.34	0.42
24:AY:503:GLY:C	24:AY:505:GLY:H	2.27	0.42
24:AY:550:MET:HE2	24:AY:560:VAL:O	2.20	0.42
24:AY:606:MET:HE2	24:AY:649:LEU:HD21	2.02	0.42
61:AY:702:FUA:H231	61:AY:702:FUA:C12	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:35:ARG:O	32:B7:38:GLY:N	2.48	0.42
35:BA:212:G:C5'	35:BA:212:G:C8	2.98	0.42
35:BA:223:A:C4	35:BA:422:A:C8	3.08	0.42
35:BA:347:A:H2'	35:BA:348:G:C8	2.55	0.42
35:BA:359:A:H3'	35:BA:360:G:C8	2.55	0.42
35:BA:534:U:O2'	53:BU:49:HIS:CD2	2.72	0.42
35:BA:545:C:H3'	35:BA:547:A:C5'	2.50	0.42
35:BA:902:C:H2'	35:BA:903:C:H6	1.85	0.42
35:BA:1319:G:C2	35:BA:1334:G:C6	3.08	0.42
35:BA:1348:G:C3'	35:BA:1349:A:H5''	2.49	0.42
35:BA:2290:G:H4'	35:BA:2381:C:O2'	2.20	0.42
35:BA:2467:C:O2	49:BQ:124:LYS:NZ	2.52	0.42
35:BA:2693:A:H61	35:BA:2716:U:H3	1.68	0.42
35:BA:2751:G:N2	35:BA:2751:G:OP1	2.52	0.42
35:BA:2837:G:H2'	35:BA:2838:G:H8	1.84	0.42
36:BB:96:U:H2'	36:BB:97:G:C8	2.54	0.42
37:BC:140:ASN:H	37:BC:145:THR:HB	1.85	0.42
38:BD:61:LEU:HD13	38:BD:61:LEU:HA	1.76	0.42
39:BE:55:ASN:HD22	39:BE:55:ASN:HA	1.55	0.42
39:BE:56:PRO:O	39:BE:57:LYS:O	2.38	0.42
39:BE:110:GLY:HA2	39:BE:162:ALA:H	1.85	0.42
41:BG:76:SER:OG	41:BG:83:ARG:HB3	2.17	0.42
44:BK:6:ALA:HB1	44:BK:8:VAL:HG23	2.01	0.42
45:BL:4:UNK:C	45:BL:6:UNK:N	2.83	0.42
46:BN:43:THR:HG22	46:BN:45:ASN:HD22	1.84	0.42
46:BN:62:VAL:O	46:BN:63:THR:C	2.62	0.42
46:BN:109:LYS:H	46:BN:109:LYS:HE3	1.84	0.42
47:BO:60:ALA:HA	47:BO:87:ILE:HD11	2.00	0.42
51:BS:42:ASP:O	51:BS:43:GLU:CB	2.68	0.42
53:BU:109:LEU:O	53:BU:110:VAL:C	2.62	0.42
58:BZ:100:VAL:CG2	58:BZ:126:VAL:HG22	2.50	0.42
1:CA:235:C:C5'	17:CQ:70:ARG:HG2	2.44	0.42
1:CA:251:G:H4'	1:CA:252:U:O5'	2.19	0.42
1:CA:807:A:C5	1:CA:808:C:C4	3.08	0.42
1:CA:979:C:C2'	1:CA:980:C:H5''	2.47	0.42
1:CA:1258:G:C6	1:CA:1259:C:N4	2.88	0.42
1:CA:1429:C:H2'	1:CA:1430:C:H6	1.84	0.42
2:CB:17:PHE:O	2:CB:18:GLY:O	2.38	0.42
2:CB:142:LEU:HD23	2:CB:142:LEU:O	2.19	0.42
3:CC:22:TRP:CH2	3:CC:32:LEU:HB2	2.55	0.42
3:CC:53:ALA:HB1	3:CC:114:PRO:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:96:LEU:H	4:CD:96:LEU:CD2	2.26	0.42
4:CD:98:GLU:CB	4:CD:189:PRO:HG3	2.49	0.42
5:CE:92:LYS:HB3	5:CE:119:LEU:HB2	2.01	0.42
6:CF:27:GLN:O	6:CF:28:ARG:C	2.63	0.42
8:CH:91:ARG:CG	8:CH:91:ARG:HH11	2.31	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	2.02	0.42
9:CI:60:ASP:O	9:CI:61:ALA:O	2.37	0.42
10:CJ:32:ALA:CB	10:CJ:78:ASN:HD21	2.33	0.42
10:CJ:79:ARG:HD3	10:CJ:79:ARG:HA	1.67	0.42
11:CK:56:GLY:O	11:CK:57:THR:C	2.63	0.42
18:CR:51:LEU:HA	18:CR:52:PRO:HD3	1.81	0.42
22:CV:53:G:O2'	22:CV:54:5MU:H5''	2.20	0.42
24:CY:33:LEU:CD1	24:CY:36:THR:HG21	2.49	0.42
24:CY:434:GLU:HG2	24:CY:434:GLU:O	2.18	0.42
24:CY:617:MET:HE1	24:CY:641:GLN:HG2	2.00	0.42
27:D2:30:ARG:O	27:D2:34:GLU:HB2	2.19	0.42
29:D4:34:GLU:N	29:D4:34:GLU:CD	2.78	0.42
35:DA:271(E):U:H3	35:DA:271(S):G:H1	1.68	0.42
35:DA:418:G:H2'	35:DA:419:C:H6	1.85	0.42
35:DA:438:G:H2'	35:DA:440:G:H8	1.85	0.42
35:DA:519:U:H2'	35:DA:520:G:H8	1.85	0.42
35:DA:739:G:H8	35:DA:739:G:OP2	2.02	0.42
35:DA:811:U:C3'	35:DA:812:C:C5'	2.98	0.42
35:DA:914:C:C2'	35:DA:915:C:H5'	2.44	0.42
35:DA:953:A:H2'	35:DA:954:G:H8	1.85	0.42
35:DA:1204:A:H1'	35:DA:1206:G:N7	2.35	0.42
35:DA:1301:A:C8	35:DA:1303:G:C8	3.08	0.42
35:DA:1565:C:H2'	38:DD:21:PHE:CE1	2.55	0.42
35:DA:1799:G:H22	35:DA:1818:U:H2'	1.84	0.42
35:DA:2193:G:O2'	35:DA:2194:G:H5'	2.20	0.42
35:DA:2295:C:H2'	35:DA:2296:U:C6	2.54	0.42
35:DA:2402:C:C6	35:DA:2402:C:OP2	2.73	0.42
35:DA:2597:G:H5''	38:DD:243:GLY:HA2	2.02	0.42
37:DC:100:ILE:C	37:DC:102:GLN:H	2.28	0.42
37:DC:132:LEU:HD22	37:DC:137:LEU:CB	2.50	0.42
39:DE:116:VAL:CG2	39:DE:122:PHE:CG	3.03	0.42
40:DF:39:TRP:HB2	40:DF:101:LEU:HD22	2.02	0.42
40:DF:160:ASN:ND2	40:DF:162:LEU:HB2	2.31	0.42
40:DF:169:ASN:OD1	40:DF:169:ASN:O	2.38	0.42
41:DG:77:ILE:C	41:DG:79:ASN:N	2.72	0.42
42:DH:46:GLU:CG	42:DH:51:ARG:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:121:GLU:CD	44:DK:121:GLU:N	2.77	0.42
46:DN:1:MET:HE2	46:DN:2:LYS:N	2.35	0.42
46:DN:18:ALA:HB1	46:DN:21:LYS:HB2	2.02	0.42
48:DP:122:PRO:O	48:DP:123:LEU:CB	2.68	0.42
49:DQ:28:ALA:C	49:DQ:29:PHE:CD1	2.98	0.42
50:DR:56:LYS:HE2	50:DR:88:ARG:N	2.35	0.42
51:DS:65:VAL:C	51:DS:67:ARG:N	2.77	0.42
52:DT:20:PRO:O	52:DT:22:PHE:HD2	2.03	0.42
54:DV:40:LEU:HD13	54:DV:46:VAL:H	1.84	0.42
57:DY:54:LYS:HE2	57:DY:55:TYR:HE2	1.84	0.42
57:DY:58:GLY:O	57:DY:59:GLY:O	2.38	0.42
58:DZ:29:TYR:CB	58:DZ:34:ASN:CB	2.93	0.42
58:DZ:41:LEU:O	58:DZ:42:VAL:C	2.62	0.42
1:AA:414:A:O2'	1:AA:415:A:H5'	2.20	0.42
1:AA:624:C:O3'	16:AP:10:GLY:HA2	2.19	0.42
1:AA:703:G:O2'	1:AA:704:A:P	2.78	0.42
1:AA:923:A:O2'	1:AA:924:C:H5'	2.20	0.42
1:AA:936:C:O2'	22:AW:35:C:H5'	2.20	0.42
1:AA:1054:C:O2	1:AA:1054:C:C2'	2.66	0.42
2:AB:219:VAL:O	2:AB:220:ASP:C	2.61	0.42
3:AC:70:VAL:HG21	3:AC:76:VAL:HG11	2.01	0.42
4:AD:168:ARG:N	4:AD:168:ARG:HD2	2.33	0.42
8:AH:100:ILE:HA	8:AH:101:PRO:HD3	1.74	0.42
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.50	0.42
11:AK:22:HIS:CD2	11:AK:22:HIS:C	2.98	0.42
12:AL:6:THR:H	12:AL:9:GLN:HE21	1.68	0.42
12:AL:54:LYS:O	12:AL:70:ILE:HG12	2.20	0.42
13:AM:5:ALA:O	41:BG:113:ARG:NH1	2.53	0.42
20:AT:90:GLN:C	20:AT:93:GLU:OE2	2.63	0.42
22:AV:39:C:H2'	22:AV:40:C:C6	2.54	0.42
23:AX:16:A:H2'	23:AX:17:U:C6	2.55	0.42
24:AY:16:GLY:C	24:AY:17:ILE:HD12	2.45	0.42
24:AY:124:GLN:HE21	24:AY:124:GLN:HB2	1.53	0.42
24:AY:435:ASP:C	24:AY:437:THR:H	2.28	0.42
26:B1:78:LYS:O	26:B1:80:LEU:N	2.53	0.42
31:B6:41:PRO:HD3	31:B6:47:THR:HG22	2.02	0.42
32:B7:25:PRO:CA	32:B7:28:ARG:NH2	2.83	0.42
35:BA:120:U:O2	35:BA:120:U:C2'	2.60	0.42
35:BA:519:U:H2'	35:BA:520:G:H8	1.84	0.42
35:BA:968:G:C6	35:BA:969:U:C4	3.08	0.42
35:BA:1052:C:C6	35:BA:1052:C:C3'	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1325:G:OP2	35:BA:1616:A:H2'	2.20	0.42
35:BA:1608:A:C6	35:BA:1611:C:C2	3.07	0.42
35:BA:1770:G:C2'	35:BA:1771:C:H5'	2.49	0.42
35:BA:1820:U:H6	35:BA:1820:U:OP1	2.03	0.42
35:BA:1843:C:H5'	38:BD:253:GLN:NE2	2.34	0.42
35:BA:2033:A:O2'	35:BA:2034:U:P	2.77	0.42
35:BA:2322:A:O2'	35:BA:2323:G:H5'	2.20	0.42
35:BA:2667:C:N3	42:BH:110:SER:OG	2.53	0.42
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.20	0.42
37:BC:100:ILE:C	37:BC:102:GLN:H	2.28	0.42
37:BC:127:LYS:C	37:BC:128:LEU:HG	2.44	0.42
39:BE:4:ILE:HD13	39:BE:28:ALA:HB1	2.01	0.42
39:BE:79:ARG:HH11	39:BE:79:ARG:HG2	1.85	0.42
39:BE:119:ARG:NH1	39:BE:156:MET:O	2.53	0.42
40:BF:139:PHE:O	40:BF:140:LEU:C	2.63	0.42
41:BG:6:ALA:O	41:BG:7:LEU:C	2.62	0.42
41:BG:109:VAL:HG12	41:BG:110:ALA:N	2.35	0.42
41:BG:138:GLN:CD	41:BG:149:VAL:HG23	2.45	0.42
42:BH:46:GLU:HG2	42:BH:46:GLU:H	1.36	0.42
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.84	0.42
42:BH:85:LYS:C	42:BH:85:LYS:CD	2.80	0.42
44:BK:27:LEU:HA	44:BK:30:HIS:HB2	2.02	0.42
46:BN:90:MET:HE2	46:BN:90:MET:HA	2.01	0.42
48:BP:89:ALA:HB1	48:BP:121:LYS:HD2	2.02	0.42
49:BQ:52:VAL:O	49:BQ:53:ALA:C	2.61	0.42
50:BR:83:ILE:HA	50:BR:86:ARG:HD3	2.01	0.42
51:BS:35:ILE:HG22	51:BS:53:SER:HB2	2.02	0.42
51:BS:101:LEU:O	51:BS:102:ALA:O	2.38	0.42
52:BT:78:LEU:C	52:BT:79:HIS:ND1	2.78	0.42
54:BV:39:LEU:C	54:BV:40:LEU:HD23	2.45	0.42
55:BW:31:GLU:O	55:BW:35:ILE:HG12	2.19	0.42
56:BX:12:VAL:CG1	56:BX:27:THR:O	2.59	0.42
58:BZ:17:ALA:O	58:BZ:21:ALA:HB2	2.19	0.42
58:BZ:25:PRO:O	58:BZ:85:HIS:HA	2.19	0.42
1:CA:186:C:H2'	1:CA:187:C:C6	2.55	0.42
1:CA:402:G:C6	1:CA:403:C:C4	3.08	0.42
1:CA:402:G:C5	1:CA:403:C:C5	3.08	0.42
1:CA:631:G:H5'	1:CA:631:G:C8	2.52	0.42
1:CA:663:A:C2'	1:CA:664:G:H5'	2.50	0.42
1:CA:1130:A:H5'	9:CI:18:PHE:HE1	1.85	0.42
1:CA:1238:A:C8	1:CA:1303:C:HI'	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1256:A:N6	1:CA:1278:U:H1'	2.35	0.42
2:CB:156:LYS:O	2:CB:157:ARG:CB	2.63	0.42
4:CD:50:ARG:HA	4:CD:51:PRO:HD3	1.90	0.42
5:CE:101:ILE:H	5:CE:101:ILE:CD1	2.26	0.42
7:CG:103:TRP:O	7:CG:104:LEU:C	2.63	0.42
8:CH:1:MET:H3	8:CH:1:MET:CE	2.33	0.42
10:CJ:18:ALA:C	10:CJ:20:ALA:N	2.72	0.42
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	2.19	0.42
16:CP:75:ARG:O	16:CP:77:ALA:N	2.51	0.42
24:CY:106:VAL:CG2	24:CY:132:ARG:HG3	2.49	0.42
26:D1:11:ARG:HB2	26:D1:12:PRO:HD2	2.01	0.42
29:D4:6:HIS:C	29:D4:8:LYS:N	2.78	0.42
32:D7:8:ASN:HD22	32:D7:9:ARG:H	1.63	0.42
33:D8:49:VAL:O	33:D8:53:PRO:HD3	2.20	0.42
34:D9:18:ARG:O	34:D9:18:ARG:CG	2.57	0.42
35:DA:190:A:H3'	35:DA:204:A:H61	1.85	0.42
35:DA:239:U:H1'	35:DA:259:G:N2	2.34	0.42
35:DA:347:A:H2'	35:DA:348:G:C8	2.55	0.42
35:DA:360:G:O2'	35:DA:361:G:H5'	2.19	0.42
35:DA:700:G:H2'	35:DA:701:G:H8	1.84	0.42
35:DA:724:U:O2'	35:DA:725:G:H5'	2.20	0.42
35:DA:832:G:OP1	48:DP:40:SER:HB3	2.20	0.42
35:DA:977:G:H2'	35:DA:978:G:H8	1.84	0.42
35:DA:1016:G:H1	35:DA:1146:C:H42	1.67	0.42
35:DA:1090:U:O2	35:DA:1102:C:H1'	2.19	0.42
35:DA:1131:G:C2	35:DA:1132:A:C5	3.08	0.42
35:DA:1569:A:O2'	35:DA:1570:A:H5'	2.19	0.42
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.54	0.42
35:DA:1654:A:OP1	50:DR:3:HIS:HB2	2.20	0.42
35:DA:1722:A:C2	35:DA:1740:G:C8	3.08	0.42
35:DA:1891:G:H8	35:DA:1891:G:O5'	2.02	0.42
35:DA:2184:G:H2'	35:DA:2185:C:C6	2.54	0.42
35:DA:2713:A:OP2	35:DA:2713:A:H4'	2.19	0.42
37:DC:7:ARG:O	37:DC:11:LEU:HG	2.19	0.42
38:DD:177:LEU:C	38:DD:179:SER:N	2.78	0.42
39:DE:55:ASN:C	39:DE:57:LYS:N	2.74	0.42
40:DF:170:LEU:N	40:DF:170:LEU:CD2	2.83	0.42
41:DG:5:VAL:H	41:DG:8:LYS:HB3	1.84	0.42
43:DJ:153:UNK:C	43:DJ:155:UNK:N	2.82	0.42
46:DN:133:GLN:CG	46:DN:135:PRO:HD3	2.38	0.42
52:DT:33:LYS:NZ	52:DT:43:GLN:NE2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:78:LEU:C	52:DT:79:HIS:ND1	2.78	0.42
53:DU:29:SER:OG	53:DU:30:LYS:HE2	2.20	0.42
54:DV:46:VAL:HG22	54:DV:47:VAL:N	2.25	0.42
57:DY:77:PRO:O	57:DY:78:ALA:CB	2.68	0.42
1:AA:189(B):C:C2	1:AA:189(J):G:C2	3.08	0.41
1:AA:688:G:H2'	1:AA:689:C:C6	2.54	0.41
1:AA:724:G:O2'	1:AA:725:G:H5'	2.20	0.41
1:AA:793:U:C3'	1:AA:794:A:C5'	2.92	0.41
1:AA:1245:A:C2	1:AA:1293:G:C2	3.08	0.41
1:AA:1349:A:OP1	9:AI:120:ARG:HB2	2.20	0.41
1:AA:1430:C:C2	1:AA:1471:G:C2	3.08	0.41
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.52	0.41
2:AB:25:ASN:O	2:AB:27:LYS:N	2.53	0.41
2:AB:32:ILE:O	2:AB:32:ILE:HG23	2.19	0.41
2:AB:60:ASP:O	2:AB:64:ARG:CZ	2.68	0.41
2:AB:82:ARG:HG3	2:AB:82:ARG:NH1	2.35	0.41
2:AB:100:GLY:C	2:AB:102:LEU:N	2.78	0.41
2:AB:178:ARG:CG	2:AB:178:ARG:NH1	2.80	0.41
3:AC:78:GLY:CA	3:AC:83:ARG:HB3	2.49	0.41
7:AG:79:ARG:O	7:AG:80:VAL:HG13	2.19	0.41
10:AJ:16:LEU:HD13	10:AJ:16:LEU:C	2.44	0.41
10:AJ:32:ALA:HB1	10:AJ:76:ASN:HB3	2.02	0.41
10:AJ:50:ILE:CD1	14:AN:41:ARG:HD3	2.50	0.41
11:AK:31:THR:O	11:AK:31:THR:CG2	2.68	0.41
12:AL:22:SER:C	12:AL:24:VAL:N	2.78	0.41
12:AL:117:ARG:O	12:AL:119:LYS:O	2.36	0.41
16:AP:71:ARG:O	16:AP:72:ARG:C	2.61	0.41
17:AQ:59:ILE:HD13	17:AQ:59:ILE:HA	1.79	0.41
21:AU:2:GLY:O	21:AU:3:LYS:C	2.63	0.41
22:AV:4:G:O2'	22:AV:5:G:C8	2.69	0.41
24:AY:9:LEU:HA	24:AY:12:LEU:HD23	2.02	0.41
24:AY:134:ALA:HB3	24:AY:258:VAL:HG22	2.02	0.41
24:AY:348:ARG:HG2	24:AY:382:GLU:HG3	2.01	0.41
24:AY:443:HIS:HA	24:AY:444:PRO:HD2	1.92	0.41
26:B1:56:GLN:NE2	26:B1:56:GLN:CA	2.82	0.41
28:B3:29:ARG:O	28:B3:30:ARG:C	2.63	0.41
29:B4:34:GLU:CD	29:B4:34:GLU:N	2.78	0.41
32:B7:46:VAL:HG12	32:B7:47:ARG:H	1.83	0.41
34:B9:19:ARG:O	34:B9:20:HIS:HB2	2.20	0.41
35:BA:27:G:H2'	35:BA:28:A:OP2	2.19	0.41
35:BA:360:G:O2'	35:BA:361:G:H5'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:430:G:H2'	35:BA:431:U:H5'	2.01	0.41
35:BA:436:C:H2'	35:BA:437:G:H8	1.85	0.41
35:BA:444:C:H2'	35:BA:445:C:H6	1.85	0.41
35:BA:482:A:N6	35:BA:506:G:C8	2.88	0.41
35:BA:528:A:N1	35:BA:2042:A:H2'	2.35	0.41
35:BA:643:A:H2'	35:BA:644:A:O4'	2.20	0.41
35:BA:826:U:H2'	35:BA:828:U:O4'	2.19	0.41
35:BA:1227:G:O2'	35:BA:1228:G:H5'	2.20	0.41
35:BA:1453:U:H2'	35:BA:1455:G:C8	2.55	0.41
35:BA:2468:G:N2	35:BA:2481:G:O2'	2.54	0.41
35:BA:2617:C:H2'	35:BA:2618:G:H5'	2.01	0.41
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.55	0.41
35:BA:2820:A:H8	39:BE:191:PRO:HB3	1.85	0.41
38:BD:34:VAL:CG2	38:BD:35:LYS:H	2.04	0.41
38:BD:239:ARG:HG2	38:BD:239:ARG:NH2	2.34	0.41
40:BF:28:ILE:CD1	40:BF:28:ILE:N	2.80	0.41
40:BF:61:GLY:O	40:BF:62:ARG:C	2.62	0.41
41:BG:86:MET:N	41:BG:87:PRO:CD	2.75	0.41
42:BH:162:ILE:HG13	42:BH:162:ILE:O	2.20	0.41
43:BJ:72:UNK:C	43:BJ:74:UNK:N	2.82	0.41
47:BO:101:PRO:C	47:BO:102:VAL:HG13	2.45	0.41
48:BP:16:ARG:NH2	48:BP:18:ARG:HG3	2.35	0.41
48:BP:47:ASP:OD1	48:BP:48:PRO:O	2.38	0.41
52:BT:12:SER:O	52:BT:15:VAL:HG13	2.19	0.41
52:BT:57:PHE:C	52:BT:58:ASN:ND2	2.74	0.41
52:BT:85:LYS:NZ	52:BT:85:LYS:CB	2.71	0.41
55:BW:68:ARG:HA	55:BW:110:LYS:CG	2.48	0.41
56:BX:84:ALA:O	56:BX:85:PRO:C	2.63	0.41
1:CA:8:A:C6	4:CD:209:ARG:HB2	2.55	0.41
1:CA:78:G:C2	1:CA:79:G:H1'	2.55	0.41
1:CA:253:U:H2'	1:CA:254:G:H8	1.84	0.41
1:CA:333:G:O2'	1:CA:334:C:H5'	2.20	0.41
1:CA:757:U:O2'	1:CA:879:C:H1'	2.19	0.41
1:CA:1162:C:C2	1:CA:1175:G:N2	2.88	0.41
1:CA:1202:G:H2'	1:CA:1203:C:H5'	2.01	0.41
1:CA:1318:A:C1'	19:CS:37:ARG:HH21	2.06	0.41
1:CA:1329:A:H5''	13:CM:26:GLY:N	2.35	0.41
1:CA:1442(A):G:H2'	52:DT:118:ARG:HH11	1.85	0.41
2:CB:166:ASP:HA	2:CB:167:PRO:HD2	1.93	0.41
3:CC:206:GLU:O	3:CC:207:VAL:C	2.63	0.41
4:CD:43:HIS:HB3	4:CD:46:LYS:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:105:VAL:HG13	4:CD:110:PHE:HB2	2.02	0.41
5:CE:33:VAL:CG1	5:CE:34:VAL:N	2.81	0.41
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.52	0.41
7:CG:4:ARG:C	7:CG:5:ARG:HD2	2.45	0.41
12:CL:54:LYS:HB3	12:CL:70:ILE:HG13	2.02	0.41
13:CM:81:LEU:O	13:CM:89:GLY:HA3	2.20	0.41
13:CM:89:GLY:O	13:CM:90:LEU:O	2.38	0.41
15:CO:9:GLN:O	15:CO:11:VAL:N	2.53	0.41
15:CO:57:LEU:O	15:CO:58:MET:C	2.63	0.41
16:CP:80:PHE:O	16:CP:81:ARG:C	2.62	0.41
18:CR:45:SER:OG	18:CR:46:GLU:N	2.51	0.41
19:CS:11:VAL:HG23	19:CS:38:SER:HB2	2.02	0.41
19:CS:64:GLU:HG2	29:D4:48:ARG:HH22	1.82	0.41
22:CV:36:U:OP1	24:CY:573:HIS:HE1	2.03	0.41
24:CY:126:GLU:O	24:CY:128:TYR:N	2.53	0.41
24:CY:170:ARG:NH2	24:CY:205:TYR:HE1	2.17	0.41
24:CY:407:PRO:O	24:CY:408:VAL:HG13	2.20	0.41
24:CY:573:HIS:HD2	24:CY:575:VAL:H	1.68	0.41
27:D2:21:LEU:CD1	27:D2:64:LEU:HG	2.50	0.41
27:D2:35:LEU:HD11	27:D2:49:LYS:HB3	2.00	0.41
29:D4:1:MET:HE3	36:DB:43:C:H4'	2.02	0.41
29:D4:3:GLU:HG2	36:DB:40:U:C4	2.55	0.41
29:D4:43:TYR:HD2	29:D4:44:THR:HG23	1.85	0.41
31:D6:9:LEU:HD21	31:D6:26:ASN:HD22	1.84	0.41
31:D6:9:LEU:CD1	31:D6:28:ARG:HG2	2.50	0.41
35:DA:272(I):U:C5	35:DA:363(A):A:C2	3.07	0.41
35:DA:294:A:N6	35:DA:345:A:H1'	2.35	0.41
35:DA:476:G:H4'	35:DA:502:A:N1	2.35	0.41
35:DA:562:U:C4	35:DA:2036:C:H1'	2.55	0.41
35:DA:602:G:C2	35:DA:656:G:C6	3.07	0.41
35:DA:748:G:C8	55:DW:89:ALA:HB1	2.55	0.41
35:DA:1196:C:O4'	35:DA:1226:A:C2	2.73	0.41
35:DA:1854:A:H2'	35:DA:1855:G:O4'	2.20	0.41
37:DC:16:ASP:C	37:DC:18:ASN:H	2.28	0.41
37:DC:16:ASP:O	37:DC:18:ASN:N	2.52	0.41
37:DC:100:ILE:O	37:DC:102:GLN:N	2.53	0.41
39:DE:38:THR:C	39:DE:40:GLU:N	2.77	0.41
39:DE:101:ARG:HD3	39:DE:101:ARG:HA	1.67	0.41
39:DE:138:PRO:HG2	39:DE:139:GLY:N	2.35	0.41
40:DF:116:ASP:OD1	40:DF:119:ARG:NH2	2.47	0.41
40:DF:152:GLU:HB3	40:DF:190:GLU:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:34:ILE:H	44:DK:34:ILE:HG12	1.59	0.41
47:DO:17:ARG:HH21	47:DO:47:ILE:HD11	1.83	0.41
47:DO:112:MET:N	47:DO:112:MET:HE2	2.34	0.41
50:DR:76:VAL:CG1	50:DR:77:ARG:N	2.83	0.41
51:DS:98:VAL:HG12	51:DS:100:ALA:CB	2.50	0.41
52:DT:35:LYS:HZ1	52:DT:41:ARG:NH1	2.17	0.41
55:DW:43:GLY:O	55:DW:44:ALA:C	2.63	0.41
56:DX:47:PHE:CD2	56:DX:89:ILE:HG21	2.55	0.41
56:DX:53:LYS:HB3	56:DX:82:GLN:HB3	2.02	0.41
58:DZ:72:ARG:HG3	58:DZ:72:ARG:NH1	2.34	0.41
58:DZ:116:VAL:C	58:DZ:174:VAL:HG13	2.45	0.41
1:AA:108:G:N2	1:AA:109:A:H2	2.18	0.41
1:AA:123:C:OP1	1:AA:311:C:O2'	2.38	0.41
1:AA:573:A:C2	1:AA:574:A:C2	3.08	0.41
1:AA:625:G:H4'	16:AP:16:HIS:HD2	1.82	0.41
1:AA:1001(A):G:H8	1:AA:1002:G:C8	2.38	0.41
1:AA:1100:C:C2'	1:AA:1101:A:H5''	2.48	0.41
1:AA:1305:G:H22	1:AA:1331:G:C2'	2.30	0.41
1:AA:1310:G:C2	1:AA:1328:C:N3	2.88	0.41
1:AA:1342:C:H1'	9:AI:124:GLN:CG	2.49	0.41
2:AB:23:ARG:HD2	2:AB:23:ARG:HA	1.88	0.41
2:AB:62:ALA:C	2:AB:64:ARG:N	2.78	0.41
2:AB:96:ARG:N	2:AB:96:ARG:CD	2.82	0.41
2:AB:155:LEU:C	2:AB:155:LEU:CD1	2.92	0.41
3:AC:50:ALA:HA	3:AC:72:LYS:HB3	2.02	0.41
3:AC:83:ARG:O	3:AC:85:ARG:N	2.53	0.41
6:AF:15:ASP:O	6:AF:17:SER:N	2.52	0.41
8:AH:19:VAL:C	8:AH:21:LYS:N	2.78	0.41
8:AH:53:VAL:HB	8:AH:58:TYR:CE1	2.55	0.41
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.45	0.41
11:AK:23:ALA:O	11:AK:86:GLY:HA3	2.19	0.41
12:AL:57:LYS:CG	12:AL:67:THR:HG22	2.47	0.41
13:AM:16:ASP:OD2	13:AM:16:ASP:N	2.52	0.41
15:AO:17:ARG:HD3	15:AO:26:GLU:CG	2.48	0.41
15:AO:39:LEU:HD22	15:AO:43:LEU:HG	2.01	0.41
15:AO:67:LEU:HD23	15:AO:67:LEU:HA	1.88	0.41
16:AP:9:PHE:HE2	16:AP:18:ARG:CD	2.32	0.41
20:AT:54:LYS:HA	20:AT:57:ARG:NH2	2.35	0.41
22:AW:25:U:H2'	22:AW:26:C:H6	1.82	0.41
24:AY:21:ILE:HG21	24:AY:88:VAL:CG1	2.44	0.41
24:AY:64:THR:C	24:AY:66:THR:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:145:ASP:HB3	24:AY:148:LEU:HB2	2.02	0.41
24:AY:484:ARG:CD	24:AY:559:PRO:HB2	2.50	0.41
25:B0:50:ASN:CA	25:B0:62:LEU:HD12	2.41	0.41
26:B1:71:TYR:N	26:B1:71:TYR:CD1	2.88	0.41
27:B2:48:HIS:O	27:B2:49:LYS:C	2.63	0.41
30:B5:2:ALA:HB2	35:BA:2015:A:O4'	2.20	0.41
30:B5:29:THR:HG21	35:BA:2814:C:O2'	2.19	0.41
30:B5:40:LYS:NZ	30:B5:46:CYS:N	2.59	0.41
31:B6:27:LYS:O	31:B6:28:ARG:C	2.63	0.41
35:BA:104:U:C6	35:BA:105:C:C6	3.08	0.41
35:BA:452:G:N3	35:BA:457:A:H2	2.18	0.41
35:BA:737:C:O2'	35:BA:738:G:H5'	2.20	0.41
35:BA:1022:G:H22	35:BA:1142(A):A:H2	1.65	0.41
35:BA:1147:C:H2'	35:BA:1148:A:H8	1.85	0.41
35:BA:1185:C:H5'	35:BA:1186:G:OP1	2.20	0.41
35:BA:1640:C:H2'	35:BA:1641:A:O4'	2.20	0.41
35:BA:1877:A:H5'	35:BA:1878:G:OP2	2.20	0.41
35:BA:1943:U:O2	35:BA:1943:U:C2'	2.67	0.41
35:BA:2003:G:C6	35:BA:2004:G:C5	3.08	0.41
35:BA:2093:G:C6	35:BA:2225:A:C8	3.08	0.41
35:BA:2312:U:H4'	41:BG:71:THR:HG1	1.83	0.41
37:BC:179:ALA:O	37:BC:180:SER:C	2.62	0.41
38:BD:73:VAL:O	38:BD:75:ILE:N	2.54	0.41
38:BD:165:ILE:HD13	38:BD:175:LEU:CD2	2.49	0.41
40:BF:89:VAL:O	40:BF:91:GLY:N	2.49	0.41
40:BF:134:GLY:HA3	40:BF:165:ARG:NH1	2.35	0.41
46:BN:3:THR:CG2	46:BN:4:TYR:N	2.79	0.41
46:BN:65:LYS:HB3	46:BN:65:LYS:NZ	2.30	0.41
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.36	0.41
48:BP:110:TYR:O	48:BP:111:ARG:O	2.38	0.41
49:BQ:55:VAL:HG23	58:BZ:178:GLU:HG2	2.01	0.41
50:BR:88:ARG:O	50:BR:88:ARG:HD2	2.20	0.41
51:BS:49:VAL:CG1	51:BS:50:SER:H	2.23	0.41
51:BS:67:ARG:O	51:BS:70:GLY:N	2.53	0.41
52:BT:109:GLU:O	52:BT:110:ILE:C	2.62	0.41
53:BU:102:GLU:HG3	54:BV:2:PHE:CE1	2.55	0.41
55:BW:14:PRO:CG	55:BW:78:GLU:HB2	2.49	0.41
55:BW:79:GLY:C	55:BW:100:THR:HG23	2.44	0.41
57:BY:7:VAL:HG21	57:BY:8:LYS:HZ2	1.85	0.41
58:BZ:78:LYS:N	58:BZ:78:LYS:HD3	2.35	0.41
58:BZ:100:VAL:HG21	58:BZ:126:VAL:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:59:A:H3'	1:CA:331:G:N2	2.35	0.41
1:CA:282:A:H3'	1:CA:283:C:C6	2.55	0.41
1:CA:368:U:P	24:CY:351:ARG:HH11	2.43	0.41
1:CA:520:A:N1	1:CA:536:C:H1'	2.35	0.41
1:CA:1239:A:H62	1:CA:1299:A:H62	1.68	0.41
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.38	0.41
3:CC:80:GLY:HA3	3:CC:82:GLU:OE1	2.20	0.41
4:CD:60:GLU:OE2	4:CD:198:VAL:HA	2.20	0.41
4:CD:126:ILE:N	4:CD:126:ILE:CD1	2.83	0.41
5:CE:50:GLU:HB3	5:CE:53:LEU:HG	2.02	0.41
7:CG:143:ARG:O	7:CG:145:ALA:O	2.38	0.41
10:CJ:29:ARG:HH11	10:CJ:29:ARG:CG	2.31	0.41
12:CL:110:VAL:HG21	12:CL:120:TYR:CD2	2.54	0.41
13:CM:89:GLY:O	13:CM:90:LEU:C	2.63	0.41
19:CS:6:LYS:C	19:CS:7:LYS:HE3	2.46	0.41
19:CS:20:LEU:HA	19:CS:23:ASN:CB	2.47	0.41
22:CV:24:U:H2'	22:CV:25:C:H6	1.84	0.41
24:CY:25:LYS:NZ	62:CY:703:GDP:PB	2.93	0.41
24:CY:88:VAL:O	24:CY:90:PHE:HD1	2.03	0.41
24:CY:408:VAL:HG22	24:CY:454:MET:HA	2.02	0.41
24:CY:590:ILE:HD13	24:CY:590:ILE:HA	1.85	0.41
24:CY:637:ARG:HG3	24:CY:637:ARG:NH1	2.32	0.41
26:D1:69:LYS:HE2	26:D1:72:GLU:CD	2.45	0.41
31:D6:15:GLU:N	31:D6:49:HIS:CD2	2.88	0.41
32:D7:8:ASN:C	32:D7:8:ASN:ND2	2.78	0.41
33:D8:36:LYS:O	33:D8:37:SER:O	2.38	0.41
33:D8:59:LYS:HD3	48:DP:50:ARG:HB3	2.02	0.41
34:D9:29:ASN:C	34:D9:31:LYS:N	2.78	0.41
35:DA:438:G:H2'	35:DA:440:G:C8	2.56	0.41
35:DA:566:U:O4	54:DV:78:LYS:HE3	2.19	0.41
35:DA:657:U:H2'	35:DA:658:C:C5	2.54	0.41
35:DA:1024:G:C8	35:DA:1025:G:H2'	2.55	0.41
35:DA:1159:U:H5''	35:DA:1159:U:H6	1.85	0.41
35:DA:1485:G:H5'	35:DA:1485:G:H8	1.85	0.41
35:DA:1669:A:C2	35:DA:1994:C:H1'	2.55	0.41
35:DA:1830:C:H6	35:DA:1830:C:O5'	2.03	0.41
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.19	0.41
35:DA:1956:U:H2'	35:DA:1957:C:H5'	2.02	0.41
35:DA:2154:G:H2'	35:DA:2155:G:H8	1.85	0.41
35:DA:2167:U:H2'	35:DA:2168:G:O4'	2.20	0.41
35:DA:2384:G:H2'	35:DA:2386:C:OP1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2464:C:O2'	35:DA:2465:C:P	2.78	0.41
35:DA:2511:U:H4'	39:DE:123:ALA:HB3	2.02	0.41
35:DA:2616:C:O2	35:DA:2616:C:H2'	2.21	0.41
35:DA:2832:U:H1'	35:DA:2834:G:C4	2.55	0.41
36:DB:69:G:C2	36:DB:70:C:C2	3.08	0.41
38:DD:148:GLU:CB	38:DD:151:LYS:HG3	2.49	0.41
39:DE:34:VAL:O	39:DE:34:VAL:HG13	2.21	0.41
42:DH:19:VAL:CG1	42:DH:20:ALA:N	2.83	0.41
42:DH:50:VAL:CG1	42:DH:51:ARG:N	2.83	0.41
47:DO:103:ALA:O	47:DO:106:LEU:HG	2.19	0.41
48:DP:91:PHE:HZ	48:DP:100:LEU:CD1	2.31	0.41
49:DQ:27:VAL:O	49:DQ:28:ALA:CB	2.67	0.41
50:DR:48:VAL:O	50:DR:51:LEU:N	2.53	0.41
53:DU:92:ARG:NH1	54:DV:11:GLN:CG	2.83	0.41
53:DU:107:ALA:HA	53:DU:110:VAL:HG21	2.02	0.41
54:DV:39:LEU:C	54:DV:40:LEU:HD23	2.45	0.41
55:DW:26:GLY:HA2	55:DW:71:VAL:O	2.19	0.41
58:DZ:17:ALA:HA	58:DZ:20:ARG:CD	2.50	0.41
58:DZ:63:ASP:HB2	58:DZ:65:GLN:HG3	2.02	0.41
58:DZ:82:ARG:HH11	58:DZ:82:ARG:HG2	1.84	0.41
1:AA:142:G:N3	1:AA:196:A:H2	2.18	0.41
1:AA:674:G:O4'	18:AR:81:PHE:CE1	2.74	0.41
1:AA:748:C:O2'	1:AA:749:C:H6	2.03	0.41
1:AA:1026:G:H3'	1:AA:1027:C:H5'	2.01	0.41
1:AA:1055:A:H8	1:AA:1055:A:O5'	2.04	0.41
1:AA:1217:C:H5'	14:AN:9:LYS:HZ3	1.84	0.41
1:AA:1329:A:H5''	13:AM:26:GLY:N	2.36	0.41
2:AB:187:LEU:HD21	2:AB:214:ILE:HG13	2.02	0.41
10:AJ:50:ILE:HD11	14:AN:41:ARG:HH11	1.80	0.41
12:AL:28:LYS:C	12:AL:30:ALA:N	2.77	0.41
12:AL:44:THR:HA	12:AL:45:PRO:HD3	1.82	0.41
12:AL:46:LYS:NZ	12:AL:94:PRO:HG3	2.34	0.41
13:AM:49:THR:HG22	13:AM:51:ALA:N	2.16	0.41
15:AO:27:VAL:O	15:AO:31:LEU:HD23	2.20	0.41
15:AO:29:VAL:HG11	15:AO:67:LEU:HD21	2.02	0.41
15:AO:82:ILE:HD13	15:AO:82:ILE:O	2.20	0.41
19:AS:71:LEU:O	19:AS:72:GLY:C	2.62	0.41
22:AV:69:C:O2'	22:AV:70:G:H5'	2.21	0.41
22:AW:50:G:H8	22:AW:50:G:O5'	2.03	0.41
24:AY:10:LYS:HE2	24:AY:284:LEU:HD23	2.02	0.41
24:AY:17:ILE:HG21	24:AY:25:LYS:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:75:LYS:O	24:AY:77:HIS:CD2	2.72	0.41
24:AY:273:LEU:HA	24:AY:276:VAL:CG2	2.50	0.41
24:AY:298:VAL:C	24:AY:299:VAL:HG12	2.45	0.41
24:AY:434:GLU:O	24:AY:435:ASP:HB2	2.20	0.41
24:AY:491:VAL:CG1	24:AY:492:ASP:N	2.83	0.41
26:B1:4:VAL:HG22	26:B1:5:CYS:N	2.35	0.41
27:B2:48:HIS:CG	27:B2:49:LYS:N	2.89	0.41
32:B7:43:THR:O	32:B7:44:PRO:C	2.62	0.41
33:B8:49:VAL:O	33:B8:53:PRO:HD3	2.20	0.41
33:B8:61:LEU:C	33:B8:63:PRO:CD	2.91	0.41
35:BA:58:G:O2'	35:BA:73:A:N1	2.50	0.41
35:BA:271(M):G:C2'	35:BA:271(N):U:H5''	2.50	0.41
35:BA:624:C:N4	48:BP:107:LYS:HZ3	2.09	0.41
35:BA:654(S):G:H3'	35:BA:654(T):C:C4'	2.50	0.41
35:BA:775:G:C4	35:BA:794:G:C8	3.08	0.41
35:BA:856:C:H2'	35:BA:857:C:C6	2.55	0.41
35:BA:877:U:C2'	35:BA:878:A:H5''	2.50	0.41
35:BA:1314:C:OP1	35:BA:1315:C:OP2	2.38	0.41
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.67	0.41
35:BA:1819:A:O2'	35:BA:1820:U:P	2.78	0.41
35:BA:1945:G:N3	35:BA:1945:G:H2'	2.33	0.41
35:BA:2072:G:C2	35:BA:2073:C:C2	3.08	0.41
35:BA:2248:C:H2'	35:BA:2249:U:C5'	2.50	0.41
35:BA:2309:A:H2'	35:BA:2310:A:C5'	2.50	0.41
35:BA:2317:C:O2'	35:BA:2318:G:H5'	2.20	0.41
35:BA:2321:G:H2'	35:BA:2321:G:N3	2.36	0.41
35:BA:2349:G:H5'	35:BA:2349:G:H8	1.85	0.41
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.20	0.41
35:BA:2460:U:O2	35:BA:2460:U:H2'	2.20	0.41
35:BA:2513:G:C5	35:BA:2514:U:C4	3.08	0.41
35:BA:2688:U:H5	35:BA:2720:U:OP2	2.03	0.41
35:BA:2762:G:C8	35:BA:2762:G:C5'	3.01	0.41
35:BA:2777:G:C5'	35:BA:2778:A:H5''	2.50	0.41
37:BC:10:ALA:O	37:BC:13:GLU:HG2	2.21	0.41
37:BC:226:ASN:HA	37:BC:227:PRO:HD2	1.84	0.41
39:BE:31:CYS:O	39:BE:91:VAL:N	2.50	0.41
39:BE:184:VAL:C	39:BE:186:GLY:N	2.78	0.41
40:BF:29:ASN:HB3	40:BF:32:LEU:HB3	2.03	0.41
40:BF:179:GLU:O	40:BF:181:LEU:N	2.53	0.41
42:BH:50:VAL:CG1	42:BH:51:ARG:N	2.83	0.41
42:BH:141:VAL:C	42:BH:143:GLN:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BJ:48:UNK:O	43:BJ:90:UNK:CB	2.67	0.41
44:BK:10:LEU:HD11	44:BK:27:LEU:HD11	2.02	0.41
44:BK:99:ILE:HD12	44:BK:103:GLN:CB	2.47	0.41
47:BO:7:TYR:C	47:BO:8:LEU:HD22	2.46	0.41
48:BP:83:VAL:H	48:BP:115:LEU:HD23	1.83	0.41
50:BR:38:VAL:HB	50:BR:39:PRO:CD	2.36	0.41
50:BR:78:LYS:O	50:BR:78:LYS:HG2	2.20	0.41
51:BS:22:GLY:O	51:BS:23:ARG:O	2.39	0.41
52:BT:3:ARG:C	52:BT:5:ALA:N	2.76	0.41
52:BT:35:LYS:HZ3	52:BT:41:ARG:HH11	1.62	0.41
54:BV:19:LYS:NZ	54:BV:20:LEU:C	2.78	0.41
55:BW:50:VAL:HG13	55:BW:51:LEU:N	2.34	0.41
56:BX:53:LYS:HB3	56:BX:82:GLN:HB3	2.02	0.41
58:BZ:166:SER:HB2	58:BZ:168:GLU:N	2.33	0.41
1:CA:318:G:O2'	1:CA:319:G:H5'	2.20	0.41
1:CA:913:A:H4'	1:CA:914:A:OP1	2.21	0.41
1:CA:948:C:H2'	1:CA:949:A:C8	2.56	0.41
1:CA:1104:G:O2'	1:CA:1105:A:H5'	2.20	0.41
1:CA:1245:A:C2	1:CA:1293:G:C2	3.08	0.41
1:CA:1250:A:C2	1:CA:1251:A:C4	3.08	0.41
1:CA:1298:C:O2	1:CA:1298:C:C2'	2.61	0.41
1:CA:1402:C:H2'	1:CA:1403:C:O4'	2.21	0.41
2:CB:23:ARG:HD2	2:CB:23:ARG:HA	1.85	0.41
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.08	0.41
2:CB:117:GLU:O	2:CB:120:ALA:HB3	2.20	0.41
2:CB:152:PHE:C	2:CB:152:PHE:CD1	2.98	0.41
3:CC:108:ASN:C	3:CC:110:ASN:N	2.78	0.41
4:CD:29:PRO:C	4:CD:30:LYS:CG	2.89	0.41
6:CF:95:GLU:HA	6:CF:96:PRO:HD3	1.89	0.41
7:CG:21:VAL:HG23	7:CG:22:LEU:N	2.36	0.41
9:CI:99:LEU:N	9:CI:99:LEU:HD22	2.36	0.41
12:CL:7:ILE:CG2	12:CL:8:ASN:N	2.82	0.41
13:CM:16:ASP:OD2	13:CM:16:ASP:N	2.52	0.41
13:CM:20:THR:C	13:CM:22:ILE:H	2.28	0.41
13:CM:54:VAL:O	13:CM:55:ARG:C	2.63	0.41
13:CM:81:LEU:HD22	13:CM:81:LEU:H	1.82	0.41
15:CO:18:PHE:CD1	15:CO:18:PHE:C	2.98	0.41
15:CO:70:LEU:HD12	15:CO:70:LEU:HA	1.90	0.41
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	2.02	0.41
18:CR:36:ASN:OD1	18:CR:39:VAL:HB	2.20	0.41
20:CT:63:ILE:C	20:CT:65:LYS:N	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:2:GLY:O	21:CU:3:LYS:C	2.63	0.41
22:CW:70:C:H2'	22:CW:71:G:O4'	2.20	0.41
24:CY:219:VAL:C	24:CY:221:ALA:H	2.28	0.41
24:CY:580:MET:SD	35:DA:1913:A:N6	2.94	0.41
28:D3:40:THR:O	28:D3:44:ARG:HG3	2.19	0.41
29:D4:28:LYS:HA	29:D4:28:LYS:HE3	2.01	0.41
30:D5:26:THR:HA	30:D5:27:PRO:HD3	1.96	0.41
31:D6:17:LYS:CB	31:D6:44:ARG:NH1	2.83	0.41
35:DA:8:A:H2'	35:DA:9:U:C6	2.55	0.41
35:DA:270:A:O2'	35:DA:271:A:H5'	2.19	0.41
35:DA:436:C:H2'	35:DA:437:G:C8	2.56	0.41
35:DA:444:C:H2'	35:DA:445:C:H6	1.85	0.41
35:DA:881:G:H2'	35:DA:882:G:C5'	2.50	0.41
35:DA:1128:A:C8	35:DA:2518:A:N6	2.88	0.41
35:DA:1156:A:O2'	35:DA:1157:G:OP1	2.34	0.41
35:DA:1251:C:OP2	53:DU:10:ARG:NE	2.52	0.41
35:DA:1495:A:H2'	35:DA:1496:A:C2	2.55	0.41
35:DA:1499:C:C2'	35:DA:1500:G:H5'	2.50	0.41
35:DA:1877:A:H5'	35:DA:1878:G:OP2	2.21	0.41
35:DA:1888:G:N3	35:DA:1888:G:H5'	2.35	0.41
35:DA:1902:C:H1'	38:DD:244:ARG:HG3	2.02	0.41
35:DA:2051:A:N6	35:DA:2614:A:C8	2.88	0.41
35:DA:2078:C:C1'	35:DA:2434:A:H1'	2.51	0.41
35:DA:2624:G:O2'	35:DA:2625:G:H5'	2.20	0.41
37:DC:119:ASP:OD1	37:DC:120:VAL:HG13	2.21	0.41
37:DC:178:LYS:HG2	37:DC:181:PHE:CE1	2.55	0.41
38:DD:34:VAL:O	38:DD:36:PRO:CD	2.68	0.41
40:DF:7:TYR:CD2	40:DF:16:GLY:HA3	2.35	0.41
40:DF:10:PRO:CG	40:DF:13:SER:OG	2.69	0.41
41:DG:136:ARG:O	41:DG:153:ARG:O	2.38	0.41
42:DH:124:GLU:HB2	42:DH:132:ARG:CG	2.49	0.41
44:DK:37:PHE:C	44:DK:39:LYS:N	2.77	0.41
44:DK:129:GLY:C	44:DK:131:ALA:H	2.26	0.41
47:DO:31:LYS:HB3	47:DO:32:TYR:CE1	2.54	0.41
50:DR:78:LYS:O	50:DR:78:LYS:HG2	2.20	0.41
50:DR:83:ILE:O	50:DR:83:ILE:HG22	2.20	0.41
51:DS:12:PHE:O	51:DS:13:ARG:C	2.63	0.41
52:DT:23:ARG:C	52:DT:25:GLY:N	2.76	0.41
52:DT:120:ARG:O	52:DT:124:ASP:OD1	2.38	0.41
53:DU:50:ARG:HH11	54:DV:70:ILE:CG2	2.33	0.41
53:DU:76:TYR:O	53:DU:79:PHE:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:29:LEU:HD11	55:DW:51:LEU:CD1	2.41	0.41
57:DY:99:CYS:SG	57:DY:99:CYS:O	2.79	0.41
58:DZ:4:ARG:HH12	58:DZ:66:SER:HB2	1.85	0.41
58:DZ:9:TYR:CD1	58:DZ:35:ARG:NH1	2.86	0.41
58:DZ:129:SER:CB	58:DZ:131:ARG:HD2	2.50	0.41
1:AA:176:C:C2	1:AA:177:C:C5	3.08	0.41
1:AA:238:G:O2'	1:AA:239:U:H5'	2.21	0.41
1:AA:981:U:H2'	1:AA:982:U:C5	2.56	0.41
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.55	0.41
1:AA:1298:C:O2'	1:AA:1299:A:C2	2.74	0.41
1:AA:1494:G:HO2'	35:BA:1912:A:HO2'	1.67	0.41
1:AA:1502:A:C2	1:AA:1505:G:N1	2.60	0.41
2:AB:17:PHE:HB3	2:AB:44:LEU:CD2	2.45	0.41
2:AB:114:ARG:O	2:AB:117:GLU:HB2	2.21	0.41
2:AB:211:ILE:HG13	2:AB:211:ILE:H	1.70	0.41
7:AG:8:GLU:O	7:AG:9:VAL:C	2.63	0.41
7:AG:50:ILE:HG21	7:AG:58:PRO:HA	2.03	0.41
9:AI:51:ARG:HG3	9:AI:56:LEU:HD12	2.03	0.41
10:AJ:61:GLU:OE2	14:AN:45:ARG:NH1	2.51	0.41
11:AK:30:VAL:O	11:AK:30:VAL:HG23	2.21	0.41
12:AL:33:ARG:CG	12:AL:60:LEU:HD12	2.50	0.41
13:AM:64:TRP:H	13:AM:64:TRP:CD1	2.35	0.41
14:AN:28:GLY:O	14:AN:29:ARG:C	2.62	0.41
16:AP:53:VAL:O	16:AP:54:GLU:C	2.63	0.41
16:AP:53:VAL:CG2	16:AP:54:GLU:H	2.29	0.41
17:AQ:52:LYS:HD2	17:AQ:52:LYS:N	2.20	0.41
17:AQ:52:LYS:CD	17:AQ:55:ASP:OD2	2.68	0.41
19:AS:61:TYR:CG	19:AS:62:ILE:N	2.88	0.41
20:AT:49:ALA:HB3	20:AT:99:LEU:CD1	2.50	0.41
23:AX:13:A:H2'	23:AX:14:A:H5''	2.02	0.41
24:AY:232:LEU:HD22	24:AY:232:LEU:H	1.84	0.41
24:AY:332:SER:O	24:AY:333:GLY:C	2.62	0.41
25:B0:23:VAL:HA	25:B0:38:VAL:HG13	2.03	0.41
26:B1:71:TYR:HA	26:B1:74:VAL:HG23	2.03	0.41
27:B2:24:LEU:C	27:B2:24:LEU:CD2	2.92	0.41
27:B2:38:GLN:CA	27:B2:41:ILE:HG12	2.50	0.41
29:B4:3:GLU:CG	36:BB:43:C:OP1	2.67	0.41
30:B5:16:ARG:HH11	30:B5:16:ARG:HG2	1.84	0.41
35:BA:26:G:H1'	35:BA:515:A:N6	2.31	0.41
35:BA:88:G:N3	35:BA:88:G:H2'	2.36	0.41
35:BA:436:C:H2'	35:BA:437:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:463:G:C2	35:BA:467:G:C6	3.08	0.41
35:BA:760:G:H2'	35:BA:761:A:H5'	2.02	0.41
35:BA:836:G:C5	35:BA:837:C:C4	3.08	0.41
35:BA:1118:C:H2'	35:BA:1119:C:C6	2.56	0.41
35:BA:1204:A:H1'	35:BA:1206:G:N7	2.35	0.41
35:BA:1275:A:N1	35:BA:1295:C:O2'	2.47	0.41
35:BA:1276:A:C1'	50:BR:16:HIS:HE1	2.33	0.41
35:BA:1645:G:OP1	35:BA:1646:C:H5'	2.20	0.41
35:BA:1676:A:H2'	35:BA:1677:A:O4'	2.20	0.41
35:BA:2128:C:OP1	37:BC:37:LYS:N	2.52	0.41
35:BA:2397:G:H2'	35:BA:2398:U:C6	2.56	0.41
35:BA:2664:G:C2'	35:BA:2665:A:O5'	2.68	0.41
36:BB:4:C:H2'	36:BB:5:C:C6	2.54	0.41
38:BD:21:PHE:O	38:BD:24:ILE:HG23	2.20	0.41
38:BD:142:VAL:CG2	38:BD:192:THR:C	2.93	0.41
39:BE:51:PHE:HD1	39:BE:52:LEU:N	2.16	0.41
40:BF:177:ALA:HB1	40:BF:178:PRO:CD	2.50	0.41
41:BG:98:ARG:NH1	41:BG:98:ARG:N	2.65	0.41
41:BG:181:ARG:HH11	41:BG:181:ARG:HG3	1.84	0.41
42:BH:41:MET:HG3	42:BH:42:ARG:N	2.36	0.41
42:BH:128:PRO:HG2	42:BH:129:THR:HG23	2.02	0.41
47:BO:22:ILE:O	47:BO:23:ARG:HB3	2.19	0.41
49:BQ:75:THR:CG2	49:BQ:76:LYS:H	2.34	0.41
51:BS:47:THR:HG22	51:BS:49:VAL:O	2.19	0.41
51:BS:74:ALA:CB	51:BS:103:GLU:HB2	2.46	0.41
52:BT:11:GLU:CD	52:BT:11:GLU:N	2.74	0.41
52:BT:29:ARG:CD	52:BT:86:ILE:HG22	2.48	0.41
56:BX:63:LYS:HB3	56:BX:72:LYS:HG2	2.03	0.41
57:BY:62:GLU:HG2	57:BY:63:LYS:N	2.28	0.41
57:BY:96:ILE:CD1	57:BY:99:CYS:SG	3.06	0.41
58:BZ:128:VAL:CG2	58:BZ:132:ASN:HB2	2.49	0.41
1:CA:110:C:H2'	1:CA:111:G:O4'	2.21	0.41
1:CA:398:C:H2'	1:CA:399:G:C8	2.54	0.41
1:CA:1014:A:C2	19:CS:34:TRP:CE2	3.08	0.41
1:CA:1055:A:O2'	3:CC:161:GLU:O	2.34	0.41
1:CA:1100:C:C2'	1:CA:1101:A:H5''	2.48	0.41
1:CA:1103:C:C5'	2:CB:98:LEU:HD13	2.49	0.41
1:CA:1122:U:H2'	1:CA:1123:A:H5'	2.02	0.41
1:CA:1347:G:H2'	1:CA:1373:G:H1	1.85	0.41
2:CB:149:LEU:HD23	2:CB:149:LEU:HA	1.85	0.41
2:CB:189:ASP:C	2:CB:191:ASP:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	2.02	0.41
3:CC:60:ALA:N	3:CC:63:ASN:OD1	2.51	0.41
3:CC:141:VAL:O	3:CC:144:SER:N	2.53	0.41
3:CC:141:VAL:CG1	3:CC:146:ALA:HB3	2.51	0.41
4:CD:73:ARG:HA	4:CD:73:ARG:HD3	1.76	0.41
5:CE:100:VAL:O	5:CE:100:VAL:CG2	2.68	0.41
7:CG:31:MET:SD	7:CG:36:LYS:HB2	2.60	0.41
7:CG:104:LEU:HD13	7:CG:104:LEU:HA	1.91	0.41
9:CI:90:PRO:HG2	9:CI:91:ASP:H	1.85	0.41
11:CK:121:PRO:HB2	11:CK:126:ARG:HB2	2.02	0.41
12:CL:20:LYS:N	12:CL:20:LYS:CD	2.83	0.41
13:CM:23:TYR:O	13:CM:66:LEU:HB3	2.20	0.41
16:CP:71:ARG:O	16:CP:72:ARG:C	2.62	0.41
22:CV:72:A:H2'	22:CV:73:A:C8	2.56	0.41
22:CW:19:G:OP1	37:DC:168:LYS:NZ	2.54	0.41
24:CY:197:ARG:O	24:CY:199:ILE:HG23	2.20	0.41
24:CY:264:LEU:HD23	24:CY:265:LYS:HD3	2.02	0.41
24:CY:334:THR:HG21	24:CY:368:GLU:HB2	2.02	0.41
24:CY:500:GLN:HE21	24:CY:500:GLN:HB2	1.66	0.41
24:CY:543:GLN:O	24:CY:547:GLU:HB2	2.20	0.41
25:D0:60:PHE:C	25:D0:60:PHE:HD1	2.28	0.41
26:D1:86:SER:HB2	26:D1:90:ILE:CG1	2.47	0.41
27:D2:59:ARG:HB3	35:DA:77:C:H5'	2.01	0.41
28:D3:1:MET:HB3	28:D3:2:PRO:HD2	2.02	0.41
28:D3:6:VAL:O	28:D3:6:VAL:HG23	2.19	0.41
28:D3:35:ARG:CD	28:D3:37:LEU:HD21	2.50	0.41
31:D6:10:LEU:HD23	31:D6:10:LEU:N	2.31	0.41
31:D6:27:LYS:HB3	31:D6:30:THR:CG2	2.51	0.41
32:D7:39:ARG:NH2	35:DA:468:G:N7	2.63	0.41
33:D8:19:SER:HB2	33:D8:21:LYS:HG3	2.01	0.41
35:DA:88:G:OP1	35:DA:90:U:C5	2.63	0.41
35:DA:272(J):C:N4	35:DA:363:G:H22	2.19	0.41
35:DA:603:A:O2'	35:DA:604:G:OP2	2.35	0.41
35:DA:669:G:N3	35:DA:669:G:C2'	2.84	0.41
35:DA:948:G:OP1	35:DA:962:G:OP1	2.39	0.41
35:DA:968:G:C6	35:DA:969:U:C4	3.08	0.41
35:DA:1073:A:H2'	35:DA:1074:G:H5'	2.01	0.41
35:DA:1131:G:N3	35:DA:1132:A:C8	2.87	0.41
35:DA:1142:U:O5'	35:DA:1142:U:H6	2.04	0.41
35:DA:1175:U:P	35:DA:1176:G:H5''	2.61	0.41
35:DA:1203:G:OP2	35:DA:1204:A:H2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1348:G:C3'	35:DA:1349:A:H5''	2.48	0.41
35:DA:1654:A:C2	39:DE:113:PHE:HD1	2.37	0.41
35:DA:1834:U:O3'	35:DA:1835:G:H8	2.04	0.41
35:DA:2103:C:N4	35:DA:2186:G:H1	2.19	0.41
35:DA:2154:G:H21	35:DA:2155:G:H1'	1.86	0.41
35:DA:2543:G:O2'	35:DA:2544:G:H5'	2.21	0.41
36:DB:18:G:H2'	36:DB:19:G:C8	2.50	0.41
38:DD:10:THR:C	38:DD:11:PRO:O	2.64	0.41
38:DD:34:VAL:O	38:DD:36:PRO:HD2	2.21	0.41
39:DE:131:ALA:HB3	39:DE:134:ILE:CD1	2.17	0.41
40:DF:102:PRO:HB2	40:DF:105:VAL:HG23	2.01	0.41
40:DF:117:ARG:NH1	40:DF:120:GLU:OE1	2.53	0.41
41:DG:11:TYR:OH	41:DG:33:ARG:HB3	2.20	0.41
42:DH:130:ARG:HB3	42:DH:130:ARG:NH1	2.35	0.41
43:DJ:50:UNK:O	43:DJ:51:UNK:CB	2.68	0.41
46:DN:112:LEU:C	46:DN:114:ARG:H	2.28	0.41
48:DP:47:ASP:CB	48:DP:48:PRO:CA	2.93	0.41
49:DQ:120:ILE:O	49:DQ:121:ALA:C	2.64	0.41
50:DR:52:ILE:HG21	50:DR:94:TYR:CG	2.55	0.41
51:DS:63:THR:O	51:DS:66:ALA:N	2.53	0.41
52:DT:2:ASN:O	52:DT:4:GLY:N	2.53	0.41
52:DT:78:LEU:HB3	52:DT:79:HIS:ND1	2.35	0.41
56:DX:90:GLU:C	56:DX:92:LEU:N	2.78	0.41
57:DY:90:LEU:HB2	57:DY:91:GLU:OE2	2.20	0.41
58:DZ:120:ILE:O	58:DZ:120:ILE:CG2	2.67	0.41
1:AA:51:A:H4'	1:AA:52:G:C5'	2.51	0.41
1:AA:318:G:C2	1:AA:336:C:N3	2.88	0.41
1:AA:1202:G:H2'	1:AA:1203:C:C5'	2.51	0.41
1:AA:1511:G:C6	1:AA:1512:U:C4	3.08	0.41
2:AB:17:PHE:H	2:AB:17:PHE:HD2	1.69	0.41
2:AB:215:LEU:O	2:AB:216:SER:C	2.63	0.41
2:AB:229:VAL:CG1	2:AB:230:VAL:N	2.83	0.41
3:AC:206:GLU:O	3:AC:208:ILE:N	2.53	0.41
4:AD:205:GLU:OE1	5:AE:100:VAL:HG22	2.20	0.41
7:AG:21:VAL:HG23	7:AG:22:LEU:H	1.85	0.41
7:AG:61:VAL:O	7:AG:64:GLN:HB3	2.20	0.41
7:AG:146:GLU:OE2	7:AG:149:ARG:HD2	2.20	0.41
8:AH:26:VAL:C	8:AH:58:TYR:HD2	2.28	0.41
9:AI:35:GLU:HA	9:AI:38:GLN:HB2	2.01	0.41
9:AI:40:LEU:C	9:AI:42:ARG:N	2.79	0.41
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:23:TYR:O	13:AM:66:LEU:HB3	2.20	0.41
13:AM:89:GLY:O	13:AM:90:LEU:O	2.39	0.41
16:AP:75:ARG:O	16:AP:77:ALA:N	2.52	0.41
16:AP:75:ARG:C	16:AP:77:ALA:N	2.74	0.41
20:AT:44:ALA:O	20:AT:92:LEU:HD23	2.20	0.41
22:AW:55:5MU:H2'	22:AW:56:U:C6	2.55	0.41
24:AY:16:GLY:N	24:AY:101:LEU:CD1	2.83	0.41
24:AY:20:HIS:CG	24:AY:117:GLN:HB3	2.55	0.41
24:AY:111:SER:OG	24:AY:141:LYS:HB3	2.20	0.41
24:AY:117:GLN:O	24:AY:117:GLN:OE1	2.38	0.41
24:AY:124:GLN:HA	24:AY:127:LYS:HD2	2.03	0.41
24:AY:289:ILE:HD11	24:AY:331:TYR:CZ	2.55	0.41
26:B1:4:VAL:CG2	26:B1:10:LYS:O	2.66	0.41
26:B1:90:ILE:HG22	26:B1:94:LEU:HD11	2.02	0.41
27:B2:58:ALA:O	27:B2:62:THR:N	2.48	0.41
35:BA:118:A:H5'	35:BA:119:A:H8	1.86	0.41
35:BA:301:G:C4	35:BA:302:C:C5	3.09	0.41
35:BA:664:C:H4'	35:BA:941:A:OP1	2.19	0.41
35:BA:1741:A:H2'	35:BA:1742:G:O4'	2.20	0.41
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.50	0.41
35:BA:2000:G:OP2	50:BR:3:HIS:HE1	2.03	0.41
35:BA:2288:A:C2	35:BA:2325:G:N7	2.88	0.41
35:BA:2455:G:H2'	35:BA:2456:C:H6	1.79	0.41
35:BA:2557:G:H2'	35:BA:2558:C:C6	2.55	0.41
35:BA:2786:U:O2'	39:BE:62:PRO:HA	2.21	0.41
37:BC:48:LEU:N	37:BC:48:LEU:CD1	2.82	0.41
37:BC:139:PRO:HA	37:BC:145:THR:HG21	2.03	0.41
39:BE:25:VAL:HG22	39:BE:183:LEU:HG	2.02	0.41
39:BE:51:PHE:C	39:BE:74:PRO:CB	2.93	0.41
39:BE:74:PRO:O	39:BE:75:VAL:C	2.63	0.41
40:BF:63:LYS:O	40:BF:64:ILE:C	2.63	0.41
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.29	0.41
41:BG:15:VAL:HG22	41:BG:175:LEU:O	2.20	0.41
42:BH:35:VAL:HG21	42:BH:75:ALA:CB	2.51	0.41
44:BK:30:HIS:CA	44:BK:59:ILE:HD12	2.39	0.41
48:BP:98:GLU:H	48:BP:101:VAL:HG13	1.86	0.41
50:BR:18:LEU:C	50:BR:20:LEU:H	2.28	0.41
50:BR:55:ALA:HB2	50:BR:79:LEU:CD1	2.49	0.41
52:BT:33:LYS:HZ3	52:BT:43:GLN:NE2	2.18	0.41
52:BT:100:TYR:CD1	52:BT:100:TYR:N	2.89	0.41
53:BU:92:ARG:NH1	54:BV:11:GLN:CG	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:81:ARG:HB3	58:BZ:81:ARG:CZ	2.50	0.41
1:CA:44:G:C2	1:CA:45:U:H1'	2.55	0.41
1:CA:151:A:H2'	1:CA:152:A:H5'	2.02	0.41
1:CA:253:U:H2'	1:CA:254:G:C8	2.55	0.41
1:CA:955:U:H2'	1:CA:956:U:C6	2.56	0.41
1:CA:1061:G:H1'	10:CJ:56:HIS:CE1	2.56	0.41
1:CA:1318:A:C1'	19:CS:37:ARG:NH2	2.74	0.41
1:CA:1347:G:H1'	1:CA:1348:U:H5	1.86	0.41
1:CA:1495:U:O2'	35:DA:1919:A:N1	2.48	0.41
1:CA:1505:G:H5'	1:CA:1506:U:OP1	2.20	0.41
2:CB:12:GLU:CA	2:CB:16:HIS:ND1	2.83	0.41
2:CB:21:ARG:O	2:CB:22:LYS:HB2	2.20	0.41
2:CB:160:ASP:O	2:CB:161:ALA:HB2	2.20	0.41
3:CC:63:ASN:CG	3:CC:63:ASN:O	2.63	0.41
3:CC:157:ILE:C	3:CC:159:GLY:N	2.78	0.41
4:CD:191:ARG:C	4:CD:191:ARG:HH11	2.29	0.41
5:CE:12:LEU:CD1	5:CE:31:LEU:CB	2.99	0.41
9:CI:28:VAL:O	9:CI:29:ASN:C	2.62	0.41
9:CI:97:LYS:N	9:CI:98:PRO:CD	2.83	0.41
9:CI:114:TYR:CD2	9:CI:114:TYR:O	2.74	0.41
10:CJ:32:ALA:HB1	10:CJ:76:ASN:HB3	2.01	0.41
12:CL:46:LYS:NZ	12:CL:94:PRO:HG3	2.35	0.41
14:CN:32:SER:O	14:CN:40:CYS:HA	2.20	0.41
14:CN:36:PHE:C	14:CN:36:PHE:HD1	2.28	0.41
19:CS:19:VAL:HG12	19:CS:20:LEU:N	2.34	0.41
20:CT:28:ALA:C	20:CT:30:LYS:N	2.77	0.41
20:CT:44:ALA:HA	20:CT:92:LEU:HD21	2.02	0.41
20:CT:54:LYS:HA	20:CT:57:ARG:NH2	2.35	0.41
20:CT:73:HIS:O	20:CT:74:LYS:O	2.37	0.41
24:CY:415:PRO:CG	24:CY:421:GLN:HG2	2.51	0.41
24:CY:550:MET:HE3	24:CY:563:ILE:CD1	2.49	0.41
24:CY:670:VAL:HB	24:CY:672:PHE:CE1	2.54	0.41
27:D2:50:ILE:C	27:D2:52:ASP:N	2.77	0.41
30:D5:2:ALA:N	35:DA:2015:A:C1'	2.83	0.41
30:D5:2:ALA:HB2	35:DA:2015:A:O4'	2.20	0.41
31:D6:41:PRO:HD3	31:D6:47:THR:HG22	2.01	0.41
33:D8:62:LEU:HD13	35:DA:242:G:C5'	2.43	0.41
35:DA:28:A:H1'	35:DA:513:A:C2	2.56	0.41
35:DA:36:G:H2'	35:DA:37:C:H6	1.85	0.41
35:DA:152:G:H1	35:DA:174:C:H42	1.68	0.41
35:DA:414:C:O2	35:DA:1864:U:O2'	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.55	0.41
35:DA:750:A:C3'	35:DA:751:A:H5''	2.50	0.41
35:DA:1038:C:H3'	35:DA:1039:G:C5'	2.36	0.41
35:DA:1317:A:H2'	35:DA:1318:C:H6	1.85	0.41
35:DA:1430:C:H42	35:DA:1563:G:H1	1.68	0.41
35:DA:1568:G:H4'	38:DD:59:LYS:HB3	2.02	0.41
35:DA:1948:G:H8	35:DA:1948:G:C5'	2.32	0.41
36:DB:81:G:O6	36:DB:96:U:O2	2.38	0.41
37:DC:102:GLN:O	37:DC:103:LYS:C	2.64	0.41
37:DC:115:VAL:CG1	37:DC:145:THR:HG23	2.47	0.41
39:DE:7:VAL:O	39:DE:7:VAL:HG13	2.20	0.41
39:DE:52:LEU:O	39:DE:53:PRO:C	2.61	0.41
40:DF:28:ILE:CD1	40:DF:28:ILE:N	2.83	0.41
40:DF:187:VAL:CG1	48:DP:7:ARG:NH2	2.83	0.41
41:DG:55:LYS:O	41:DG:57:ALA:N	2.53	0.41
42:DH:92:ILE:HG22	42:DH:93:GLY:N	2.36	0.41
42:DH:138:LYS:C	42:DH:140:LYS:H	2.29	0.41
42:DH:173:PRO:HG2	42:DH:174:GLY:H	1.85	0.41
47:DO:104:ARG:C	47:DO:106:LEU:H	2.29	0.41
50:DR:28:LEU:HD23	50:DR:29:LEU:HD12	2.00	0.41
51:DS:88:ASP:OD2	51:DS:88:ASP:C	2.62	0.41
53:DU:57:PHE:O	53:DU:59:ARG:N	2.54	0.41
53:DU:76:TYR:C	53:DU:76:TYR:HD2	2.26	0.41
53:DU:101:ARG:C	53:DU:102:GLU:HG2	2.45	0.41
53:DU:109:LEU:O	53:DU:110:VAL:C	2.63	0.41
57:DY:44:ILE:O	57:DY:62:GLU:HB3	2.20	0.41
58:DZ:14:LYS:HB2	58:DZ:17:ALA:CB	2.50	0.41
58:DZ:128:VAL:CG1	58:DZ:132:ASN:O	2.69	0.41
1:AA:311:C:HO2'	1:AA:312:C:H5'	1.85	0.41
1:AA:791:G:N2	1:AA:1497:G:O3'	2.48	0.41
1:AA:1122:U:H2'	1:AA:1123:A:C5'	2.50	0.41
1:AA:1248:A:C5	1:AA:1249:C:C5	3.08	0.41
1:AA:1343:G:H1'	9:AI:121:ARG:HH12	1.86	0.41
2:AB:7:VAL:O	2:AB:11:LEU:CG	2.69	0.41
2:AB:39:ILE:O	2:AB:41:ILE:HD13	2.20	0.41
3:AC:77:ILE:O	3:AC:84:ILE:HG22	2.20	0.41
10:AJ:22:LYS:HD2	10:AJ:22:LYS:C	2.45	0.41
11:AK:120:ARG:HA	11:AK:121:PRO:HD3	1.82	0.41
12:AL:7:ILE:HA	12:AL:10:LEU:HD12	2.03	0.41
13:AM:40:ASN:HD21	13:AM:42:ALA:HB3	1.86	0.41
15:AO:83:GLU:O	15:AO:85:LEU:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HG3	2.02	0.41
19:AS:58:VAL:O	19:AS:59:PRO:C	2.63	0.41
20:AT:38:LYS:O	20:AT:40:ALA:N	2.52	0.41
22:AV:30:G:N2	22:AV:31:G:H1'	2.36	0.41
24:AY:209:ALA:O	24:AY:211:GLU:N	2.54	0.41
26:B1:8:SER:HB3	26:B1:66:HIS:CG	2.56	0.41
29:B4:27:THR:O	29:B4:28:LYS:CB	2.69	0.41
32:B7:48:LYS:NZ	35:BA:125:G:H21	2.18	0.41
35:BA:17:G:H4'	53:BU:25:TRP:CH2	2.54	0.41
35:BA:120:U:C5'	35:BA:121:G:OP1	2.68	0.41
35:BA:212:G:O2'	35:BA:213:A:H5'	2.21	0.41
35:BA:343:C:O2'	35:BA:344:G:H5'	2.20	0.41
35:BA:541:C:H42	35:BA:552:G:H1	1.67	0.41
35:BA:559:G:N2	53:BU:49:HIS:CD2	2.85	0.41
35:BA:688:U:H2'	35:BA:689:A:C8	2.56	0.41
35:BA:748:G:C8	55:BW:89:ALA:HB1	2.56	0.41
35:BA:881:G:H2'	35:BA:882:G:C5'	2.51	0.41
35:BA:960:A:C8	35:BA:962:G:C8	3.09	0.41
35:BA:1052:C:O2'	35:BA:1053:C:P	2.78	0.41
35:BA:1235:G:C2	35:BA:1236:G:N2	2.88	0.41
35:BA:1415:U:H3	35:BA:1587:A:H61	1.67	0.41
35:BA:1495:A:H2'	35:BA:1496:A:C2	2.55	0.41
35:BA:1856:G:H1	35:BA:1886:C:N4	2.18	0.41
35:BA:2154:G:H21	35:BA:2155:G:H1'	1.85	0.41
35:BA:2345:G:H5'	35:BA:2346:A:H5'	2.03	0.41
35:BA:2380:C:C4	35:BA:2381:C:C5	3.09	0.41
35:BA:2593:U:C2	35:BA:2594:C:C5	3.09	0.41
37:BC:19:LYS:HG2	37:BC:20:VAL:N	2.36	0.41
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.82	0.41
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.56	0.41
39:BE:152:LYS:HG3	39:BE:153:GLY:H	1.85	0.41
39:BE:166:THR:O	39:BE:167:VAL:C	2.64	0.41
40:BF:31:HIS:O	40:BF:34:TRP:HB3	2.20	0.41
40:BF:78:ILE:H	40:BF:78:ILE:HG12	1.64	0.41
40:BF:184:TYR:O	40:BF:188:ARG:HG2	2.21	0.41
41:BG:27:ASN:HB3	41:BG:30:GLU:HB2	2.03	0.41
41:BG:52:ILE:O	41:BG:53:LEU:C	2.63	0.41
42:BH:17:VAL:O	42:BH:45:VAL:CG2	2.62	0.41
42:BH:169:VAL:O	42:BH:170:ARG:CG	2.68	0.41
44:BK:12:LEU:HA	44:BK:13:PRO:HD3	1.85	0.41
46:BN:56:ASN:HA	46:BN:125:GLY:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:88:LEU:HD11	48:BP:95:VAL:HG11	2.02	0.41
50:BR:45:ARG:O	50:BR:46:GLY:C	2.64	0.41
51:BS:48:LEU:C	51:BS:49:VAL:HG23	2.46	0.41
53:BU:13:LYS:O	53:BU:17:ILE:HG13	2.21	0.41
53:BU:25:TRP:CD1	53:BU:26:GLY:N	2.89	0.41
53:BU:37:GLU:O	53:BU:40:PHE:HB2	2.21	0.41
53:BU:55:ARG:HA	53:BU:58:ARG:CB	2.50	0.41
55:BW:12:ILE:HG13	55:BW:42:ARG:HH11	1.84	0.41
57:BY:20:TYR:N	57:BY:20:TYR:CD1	2.88	0.41
1:CA:102:G:N3	1:CA:151:A:H2	2.19	0.41
1:CA:297:G:N2	1:CA:299:G:H3'	2.36	0.41
1:CA:335:C:O2'	1:CA:336:C:H5'	2.20	0.41
1:CA:408:A:H4'	4:CD:112:VAL:HG11	2.01	0.41
1:CA:429:U:OP1	4:CD:9:CYS:O	2.39	0.41
1:CA:532:A:O2'	1:CA:533:A:P	2.79	0.41
1:CA:674:G:O4'	18:CR:81:PHE:CE1	2.73	0.41
1:CA:946:A:H3'	1:CA:947:G:C8	2.55	0.41
1:CA:946:A:C2	1:CA:947:G:C5	3.08	0.41
1:CA:973:G:O4'	10:CJ:55:LYS:CG	2.60	0.41
1:CA:1001(A):G:H8	1:CA:1002:G:C8	2.38	0.41
1:CA:1026:G:H3'	1:CA:1027:C:H5'	2.02	0.41
1:CA:1135:U:HO2'	1:CA:1136:U:H5	1.63	0.41
1:CA:1145:C:H6	1:CA:1145:C:H5''	1.86	0.41
1:CA:1216:G:H2'	1:CA:1217:C:H6	1.84	0.41
1:CA:1305:G:H22	1:CA:1331:G:C2'	2.33	0.41
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.55	0.41
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	2.02	0.41
3:CC:100:ALA:O	3:CC:101:LEU:C	2.64	0.41
3:CC:127:ARG:HG2	3:CC:127:ARG:NH1	2.36	0.41
5:CE:56:GLN:C	5:CE:56:GLN:OE1	2.63	0.41
9:CI:83:ARG:C	9:CI:86:VAL:HG12	2.45	0.41
10:CJ:4:ILE:HD13	10:CJ:74:ILE:CG1	2.43	0.41
10:CJ:28:ARG:NH1	10:CJ:28:ARG:HG2	2.36	0.41
11:CK:48:ILE:N	11:CK:48:ILE:CD1	2.79	0.41
14:CN:12:ARG:NH1	14:CN:12:ARG:CB	2.83	0.41
17:CQ:8:GLY:O	17:CQ:56:VAL:HA	2.21	0.41
20:CT:26:ASN:HD22	20:CT:27:LYS:N	2.18	0.41
22:CW:69:C:H2'	22:CW:70:C:C6	2.55	0.41
24:CY:274:ASP:O	24:CY:277:VAL:HG12	2.20	0.41
24:CY:400:GLU:C	24:CY:402:ILE:HD12	2.45	0.41
24:CY:546:ILE:HG21	24:CY:565:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:31:ILE:O	29:D4:31:ILE:HG22	2.20	0.41
31:D6:7:ILE:HG23	31:D6:29:ASN:HD22	1.85	0.41
31:D6:43:CYS:O	31:D6:44:ARG:CB	2.64	0.41
31:D6:53:LYS:HG3	31:D6:54:ILE:H	1.85	0.41
35:DA:94:C:O2	35:DA:94:C:H2'	2.20	0.41
35:DA:532:A:N1	35:DA:2020:A:H1'	2.35	0.41
35:DA:603:A:O2'	35:DA:604:G:P	2.79	0.41
35:DA:654(E):G:H2'	35:DA:654(F):C:H5'	2.03	0.41
35:DA:688:U:H5'	35:DA:1780:A:H2	1.85	0.41
35:DA:733:G:C6	35:DA:761:A:C8	3.08	0.41
35:DA:764:A:C5	38:DD:209:ALA:HB1	2.55	0.41
35:DA:862:G:H2'	35:DA:863:A:O4'	2.19	0.41
35:DA:1034:G:C6	35:DA:1035:U:N3	2.88	0.41
35:DA:1052:C:O2'	35:DA:1053:C:P	2.79	0.41
35:DA:1118:C:H2'	35:DA:1119:C:C6	2.56	0.41
35:DA:1314:C:H5'	35:DA:1314:C:C6	2.37	0.41
35:DA:1572:A:O2'	35:DA:1573:G:H5'	2.20	0.41
35:DA:2388:A:H5'	35:DA:2389:G:OP2	2.20	0.41
35:DA:2579:C:H2'	35:DA:2580:U:O4'	2.20	0.41
37:DC:114:VAL:O	37:DC:139:PRO:HG3	2.21	0.41
38:DD:158:ALA:O	38:DD:196:VAL:CG1	2.67	0.41
38:DD:177:LEU:O	38:DD:179:SER:N	2.54	0.41
39:DE:59:VAL:HG11	39:DE:63:LEU:HA	2.02	0.41
39:DE:152:LYS:O	39:DE:153:GLY:C	2.64	0.41
39:DE:184:VAL:C	39:DE:186:GLY:N	2.79	0.41
40:DF:157:VAL:CG2	40:DF:194:MET:HA	2.50	0.41
40:DF:204:ASN:C	40:DF:206:ILE:N	2.78	0.41
43:DJ:128:UNK:C	43:DJ:130:UNK:N	2.81	0.41
44:DK:10:LEU:HD11	44:DK:27:LEU:HD11	2.01	0.41
44:DK:125:ARG:HH11	44:DK:125:ARG:HG2	1.85	0.41
46:DN:91:LEU:HD21	46:DN:98:VAL:HG11	2.02	0.41
47:DO:69:ILE:HB	47:DO:77:ILE:CG2	2.51	0.41
49:DQ:76:LYS:CB	49:DQ:91:GLU:HG3	2.49	0.41
50:DR:117:VAL:CG1	50:DR:118:GLU:H	2.32	0.41
54:DV:1:MET:HB3	54:DV:2:PHE:H	1.52	0.41
57:DY:11:ASP:O	57:DY:27:VAL:HA	2.21	0.41
58:DZ:44:PHE:CZ	58:DZ:48:PHE:HD2	2.39	0.41
1:AA:224:C:H2'	1:AA:225:C:H6	1.85	0.41
1:AA:251:G:H4'	1:AA:252:U:O5'	2.19	0.41
1:AA:409:G:H5'	4:AD:24:GLU:OE1	2.20	0.41
1:AA:425:G:O2'	1:AA:426:G:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:452:A:HO2'	1:AA:453:A:H8	1.69	0.41
1:AA:822:C:O2'	1:AA:823:G:H5'	2.20	0.41
1:AA:1103:C:C5'	2:AB:98:LEU:HD13	2.51	0.41
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.20	0.41
1:AA:1409:C:H2'	1:AA:1410:G:C8	2.51	0.41
1:AA:1458:G:OP1	20:AT:35:THR:HG21	2.21	0.41
2:AB:156:LYS:O	2:AB:157:ARG:CB	2.66	0.41
2:AB:220:ASP:O	2:AB:222:ILE:N	2.54	0.41
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.88	0.41
9:AI:37:PHE:HB3	9:AI:43:ALA:HB2	2.02	0.41
22:AV:5:G:O2'	22:AV:6:G:H5'	2.20	0.41
22:AV:68:C:O5'	22:AV:68:C:H6	2.02	0.41
22:AW:28:U:O2'	22:AW:29:C:H5'	2.21	0.41
24:AY:170:ARG:O	24:AY:171:GLU:CG	2.59	0.41
24:AY:491:VAL:CG1	24:AY:492:ASP:H	2.33	0.41
24:AY:519:ARG:NH2	24:AY:678:GLU:H	2.19	0.41
25:B0:49:LYS:H	25:B0:80:HIS:HD1	1.68	0.41
26:B1:12:PRO:HG3	35:BA:1365:A:H5''	2.02	0.41
27:B2:38:GLN:NE2	27:B2:44:LEU:CB	2.84	0.41
28:B3:15:TYR:HD1	28:B3:15:TYR:H	1.68	0.41
28:B3:22:ALA:HA	28:B3:46:ASN:ND2	2.34	0.41
30:B5:2:ALA:O	30:B5:3:LYS:CB	2.67	0.41
32:B7:26:GLY:O	32:B7:30:VAL:HG23	2.21	0.41
35:BA:332:A:H4'	35:BA:333:G:OP1	2.20	0.41
35:BA:598:G:C5'	48:BP:15:ARG:HB2	2.40	0.41
35:BA:806:C:P	48:BP:39:LYS:HD3	2.60	0.41
35:BA:832:G:OP1	48:BP:40:SER:HB3	2.21	0.41
35:BA:972:G:OP2	35:BA:974:G:H5''	2.20	0.41
35:BA:1114:G:H2'	35:BA:1115:G:C5'	2.50	0.41
35:BA:1142:U:H6	35:BA:1142:U:O5'	2.03	0.41
35:BA:1187:G:H5''	54:BV:81:TYR:CE2	2.55	0.41
35:BA:1658:C:C2	35:BA:1659:U:C5	3.08	0.41
35:BA:1825:A:OP1	38:BD:249:PRO:HD3	2.20	0.41
35:BA:2287:A:H2	35:BA:2346:A:C2	2.37	0.41
35:BA:2393:A:O2'	35:BA:2394:C:H5'	2.20	0.41
35:BA:2453:A:O2'	35:BA:2454:G:H5'	2.21	0.41
35:BA:2507:C:C2	35:BA:2583:G:C2	3.09	0.41
35:BA:2820:A:O4'	50:BR:5:LYS:HG3	2.20	0.41
36:BB:63:G:C2	36:BB:64:C:C2	3.09	0.41
37:BC:111:PHE:CE1	37:BC:137:LEU:HD13	2.39	0.41
39:BE:65:GLY:C	39:BE:67:PHE:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:39:TRP:CH2	40:BF:106:ARG:NE	2.81	0.41
40:BF:107:LYS:HD2	40:BF:205:ARG:O	2.21	0.41
40:BF:201:VAL:HA	40:BF:204:ASN:HD22	1.86	0.41
41:BG:73:ALA:H	41:BG:87:PRO:CD	2.32	0.41
41:BG:120:LEU:O	41:BG:121:ASN:C	2.64	0.41
44:BK:10:LEU:HD11	44:BK:27:LEU:CD1	2.51	0.41
45:BL:67:UNK:C	45:BL:69:UNK:N	2.83	0.41
46:BN:67:LEU:HD22	46:BN:87:LEU:HB3	2.03	0.41
46:BN:120:LEU:HD11	46:BN:122:VAL:CG2	2.50	0.41
48:BP:7:ARG:CB	48:BP:8:PRO:CD	2.94	0.41
52:BT:91:ARG:HG2	52:BT:116:ALA:HA	2.02	0.41
53:BU:10:ARG:O	53:BU:11:ARG:C	2.64	0.41
53:BU:75:ASN:ND2	53:BU:77:SER:OG	2.53	0.41
53:BU:88:ILE:O	53:BU:90:VAL:N	2.50	0.41
55:BW:11:ARG:O	55:BW:11:ARG:HD3	2.20	0.41
58:BZ:119:GLU:O	58:BZ:119:GLU:HG3	2.20	0.41
58:BZ:143:GLY:O	58:BZ:144:LEU:HD13	2.20	0.41
1:CA:67:C:H2'	1:CA:68:G:H8	1.84	0.41
1:CA:154:C:H2'	1:CA:155:C:C6	2.56	0.41
1:CA:334:C:H2'	1:CA:335:C:C6	2.56	0.41
1:CA:532:A:H61	3:CC:193:TYR:HB3	1.84	0.41
1:CA:542:G:H5'	4:CD:41:GLY:HA3	2.01	0.41
1:CA:602:A:H2'	1:CA:603:U:C6	2.56	0.41
1:CA:610:G:N3	1:CA:610:G:H2'	2.35	0.41
1:CA:815:A:N6	1:CA:1509:C:H1'	2.36	0.41
1:CA:824:C:H2'	1:CA:825:G:C8	2.54	0.41
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.56	0.41
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.56	0.41
1:CA:1269:A:H5'	21:CU:18:TYR:O	2.21	0.41
1:CA:1332:A:H2'	1:CA:1333:A:H8	1.85	0.41
1:CA:1442(A):G:N2	52:DT:119:LYS:HA	2.36	0.41
2:CB:28:PHE:CE1	2:CB:31:TYR:HB2	2.55	0.41
2:CB:214:ILE:O	2:CB:218:ALA:HB2	2.20	0.41
2:CB:235:SER:C	2:CB:237:ALA:N	2.79	0.41
4:CD:129:ASN:HD22	4:CD:129:ASN:H	1.69	0.41
5:CE:73:ASN:N	5:CE:73:ASN:HD22	2.16	0.41
5:CE:76:ILE:HG22	5:CE:118:ILE:HD13	2.03	0.41
5:CE:131:ILE:O	5:CE:134:ALA:HB3	2.21	0.41
5:CE:149:GLU:O	5:CE:153:LYS:HE2	2.21	0.41
9:CI:114:TYR:CD2	9:CI:114:TYR:N	2.89	0.41
10:CJ:35:SER:O	10:CJ:36:GLY:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:81:THR:OG1	10:CJ:82:ILE:N	2.54	0.41
13:CM:16:ASP:HB3	13:CM:41:PRO:HB3	2.03	0.41
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	2.01	0.41
24:CY:298:VAL:HG22	24:CY:299:VAL:H	1.85	0.41
24:CY:413:ILE:O	24:CY:413:ILE:CG2	2.68	0.41
24:CY:478:LYS:HA	24:CY:479:PRO:HD3	1.75	0.41
24:CY:510:VAL:HG13	24:CY:567:LEU:HD13	2.02	0.41
24:CY:629:GLY:HA3	24:CY:647:VAL:HG12	2.03	0.41
26:D1:49:VAL:O	26:D1:59:THR:HA	2.21	0.41
27:D2:63:VAL:HG12	27:D2:64:LEU:N	2.36	0.41
30:D5:29:THR:O	30:D5:42:PRO:HD2	2.21	0.41
35:DA:18:C:O2'	53:DU:23:GLY:HA2	2.20	0.41
35:DA:118:A:H5'	35:DA:119:A:H8	1.85	0.41
35:DA:611:C:H2'	35:DA:612:C:C6	2.55	0.41
35:DA:893:C:H2'	35:DA:894:C:C6	2.55	0.41
35:DA:902:C:H2'	35:DA:903:C:H6	1.86	0.41
35:DA:1360:A:H5'	35:DA:1361:G:OP2	2.20	0.41
35:DA:1645:G:OP1	35:DA:1646:C:H5'	2.21	0.41
35:DA:1765:C:H2'	35:DA:1766:U:H6	1.86	0.41
35:DA:1786:A:H2	35:DA:2606:C:H1'	1.86	0.41
35:DA:1960:A:H8	35:DA:1960:A:H5''	1.85	0.41
35:DA:2015:A:H2'	35:DA:2016:U:O4'	2.21	0.41
35:DA:2197:U:H1'	35:DA:2198:A:C8	2.55	0.41
35:DA:2468:G:N2	35:DA:2481:G:O2'	2.54	0.41
35:DA:2575:C:OP1	39:DE:144:ARG:HG3	2.21	0.41
35:DA:2615:U:H2'	35:DA:2616:C:H6	1.85	0.41
35:DA:2689:U:H4'	35:DA:2690:C:OP2	2.21	0.41
35:DA:2720:U:C2	35:DA:2721:A:C8	3.09	0.41
35:DA:2838:G:C1'	50:DR:45:ARG:HH11	2.33	0.41
36:DB:29:A:C2	36:DB:56:G:C2	3.09	0.41
37:DC:19:LYS:HG2	37:DC:20:VAL:N	2.36	0.41
38:DD:205:VAL:O	38:DD:205:VAL:HG12	2.21	0.41
38:DD:267:SER:C	38:DD:269:PHE:N	2.78	0.41
40:DF:17:ARG:HG3	40:DF:17:ARG:NH1	2.35	0.41
40:DF:152:GLU:OE1	40:DF:191:ARG:HD2	2.20	0.41
40:DF:168:ARG:HG2	40:DF:175:THR:HG21	2.02	0.41
41:DG:73:ALA:H	41:DG:87:PRO:HG2	1.86	0.41
41:DG:97:ASP:O	41:DG:98:ARG:C	2.62	0.41
41:DG:141:PHE:O	41:DG:144:ILE:HG22	2.20	0.41
42:DH:106:THR:HG22	42:DH:112:PRO:HB3	2.01	0.41
46:DN:3:THR:CG2	46:DN:4:TYR:N	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:90:MET:HE2	46:DN:90:MET:HA	2.03	0.41
46:DN:130:HIS:O	46:DN:130:HIS:CG	2.72	0.41
47:DO:104:ARG:HE	52:DT:33:LYS:CE	2.25	0.41
48:DP:6:LEU:HG	48:DP:7:ARG:H	1.84	0.41
48:DP:17:LYS:C	48:DP:19:VAL:N	2.77	0.41
49:DQ:34:LEU:HB2	49:DQ:118:LEU:HD22	2.03	0.41
49:DQ:36:ALA:HA	49:DQ:129:THR:HG22	2.03	0.41
50:DR:2:ARG:HB2	50:DR:5:LYS:HZ3	1.86	0.41
51:DS:49:VAL:CG1	51:DS:50:SER:H	2.26	0.41
51:DS:95:HIS:O	51:DS:96:GLY:C	2.64	0.41
53:DU:33:ARG:O	53:DU:34:LYS:C	2.64	0.41
53:DU:92:ARG:CZ	54:DV:11:GLN:H	2.33	0.41
57:DY:28:LYS:HE3	57:DY:28:LYS:HB2	1.91	0.41
57:DY:86:ARG:C	57:DY:88:LYS:HZ2	2.29	0.41
58:DZ:100:VAL:CG2	58:DZ:126:VAL:HG21	2.51	0.41
58:DZ:133:ILE:O	58:DZ:134:PRO:C	2.63	0.41
1:AA:143:A:N1	1:AA:220:G:O6	2.54	0.41
1:AA:282:A:H3'	1:AA:283:C:C6	2.56	0.41
1:AA:341:C:O2	1:AA:349:A:C2	2.73	0.41
1:AA:652:U:C2	1:AA:752:G:N2	2.89	0.41
1:AA:676:A:H1'	11:AK:115:PRO:HB3	2.03	0.41
1:AA:956:U:C5	1:AA:957:U:C5	3.08	0.41
1:AA:1347:G:H2'	1:AA:1373:G:H1	1.85	0.41
4:AD:140:VAL:HG12	4:AD:141:ARG:O	2.20	0.41
5:AE:34:VAL:O	5:AE:34:VAL:HG13	2.21	0.41
5:AE:145:LYS:O	5:AE:149:GLU:HG2	2.20	0.41
7:AG:99:LEU:HD22	7:AG:103:TRP:CZ2	2.56	0.41
8:AH:119:LEU:HB3	8:AH:123:GLU:HB3	2.01	0.41
9:AI:9:ARG:HB3	9:AI:104:ARG:HH12	1.85	0.41
9:AI:114:TYR:CD2	9:AI:114:TYR:N	2.88	0.41
11:AK:56:GLY:O	11:AK:57:THR:C	2.64	0.41
12:AL:117:ARG:HH22	12:AL:124:LYS:HB2	1.84	0.41
13:AM:73:GLU:O	13:AM:74:VAL:C	2.61	0.41
14:AN:12:ARG:NH1	14:AN:12:ARG:CB	2.84	0.41
16:AP:80:PHE:O	16:AP:81:ARG:C	2.64	0.41
17:AQ:51:TYR:CE1	17:AQ:73:VAL:HG11	2.56	0.41
17:AQ:60:ILE:C	17:AQ:71:PHE:HD1	2.28	0.41
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	2.01	0.41
24:AY:162:VAL:HG21	24:AY:255:ILE:CD1	2.51	0.41
24:AY:489:LYS:HG3	24:AY:597:GLY:HA2	2.03	0.41
24:AY:514:VAL:HG21	24:AY:593:ALA:HB3	1.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:635:GLU:CD	24:AY:635:GLU:H	2.29	0.41
29:B4:26:SER:OG	29:B4:27:THR:N	2.51	0.41
35:BA:271(P):C:H2'	35:BA:271(Q):G:O4'	2.19	0.41
35:BA:329:G:H22	57:BY:19:LYS:HE3	1.86	0.41
35:BA:398:G:H2'	35:BA:399:G:C8	2.56	0.41
35:BA:418:G:H2'	35:BA:419:C:H6	1.85	0.41
35:BA:592:G:N2	35:BA:593:G:H1'	2.36	0.41
35:BA:626:U:N3	48:BP:105:LEU:HG	2.35	0.41
35:BA:883:G:N2	35:BA:894:C:C2	2.89	0.41
35:BA:967:C:O2'	35:BA:968:G:H5'	2.20	0.41
35:BA:996:A:O3'	53:BU:92:ARG:CG	2.69	0.41
35:BA:1651:G:C2	35:BA:2007:C:C2	3.09	0.41
35:BA:2009:G:O2'	35:BA:2010:G:H5'	2.20	0.41
35:BA:2068:U:C4	35:BA:2430:A:H2	2.38	0.41
35:BA:2283:C:H2'	35:BA:2284:C:O4'	2.21	0.41
35:BA:2584:U:O2	35:BA:2584:U:O5'	2.39	0.41
35:BA:2706:G:N3	35:BA:2706:G:H2'	2.35	0.41
36:BB:36:C:H2'	36:BB:37:C:C6	2.56	0.41
38:BD:3:VAL:HG12	38:BD:17:THR:HB	2.03	0.41
38:BD:7:LYS:HB3	38:BD:8:PRO:HD2	2.03	0.41
38:BD:14:ARG:HG3	38:BD:15:PHE:H	1.85	0.41
38:BD:205:VAL:O	38:BD:205:VAL:HG12	2.20	0.41
39:BE:120:TRP:CE3	39:BE:155:LYS:HE3	2.56	0.41
40:BF:187:VAL:CG1	48:BP:7:ARG:HH22	2.34	0.41
40:BF:204:ASN:C	40:BF:206:ILE:N	2.78	0.41
41:BG:31:VAL:O	41:BG:33:ARG:HD3	2.21	0.41
41:BG:97:ASP:O	41:BG:101:ILE:CG1	2.68	0.41
46:BN:2:LYS:HE2	53:BU:95:LEU:HD21	2.03	0.41
48:BP:33:ARG:O	48:BP:34:GLY:O	2.38	0.41
48:BP:56:SER:O	48:BP:57:THR:C	2.64	0.41
48:BP:114:ILE:HG13	48:BP:130:PHE:HD1	1.85	0.41
49:BQ:110:THR:HG23	49:BQ:113:GLN:HG3	2.02	0.41
50:BR:28:LEU:HD23	50:BR:29:LEU:HD12	2.02	0.41
50:BR:44:LEU:O	50:BR:45:ARG:C	2.64	0.41
52:BT:20:PRO:O	52:BT:22:PHE:HD2	2.03	0.41
53:BU:50:ARG:O	53:BU:52:ARG:N	2.53	0.41
53:BU:76:TYR:O	53:BU:79:PHE:HB3	2.20	0.41
55:BW:80:PRO:O	55:BW:100:THR:CG2	2.69	0.41
56:BX:86:GLY:O	56:BX:87:GLN:C	2.63	0.41
58:BZ:122:ARG:O	58:BZ:123:ASP:OD1	2.38	0.41
58:BZ:150:LEU:HD23	58:BZ:150:LEU:H	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:32:A:H3'	1:CA:33:A:H8	1.85	0.41
1:CA:398:C:O2'	1:CA:399:G:H5'	2.21	0.41
1:CA:894:G:H2'	1:CA:895:G:O4'	2.21	0.41
1:CA:976:G:H5'	1:CA:1358:U:O2'	2.20	0.41
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.21	0.41
1:CA:1053:G:N7	1:CA:1200:C:C5'	2.76	0.41
1:CA:1055:A:H8	1:CA:1055:A:O5'	2.02	0.41
1:CA:1378:C:C5	1:CA:1379:G:C8	3.09	0.41
2:CB:100:GLY:O	2:CB:104:ASN:C	2.63	0.41
2:CB:112:VAL:C	2:CB:114:ARG:N	2.78	0.41
5:CE:7:GLU:HG2	5:CE:112:LEU:HD21	2.02	0.41
6:CF:69:GLU:CD	6:CF:69:GLU:N	2.76	0.41
7:CG:8:GLU:O	7:CG:9:VAL:C	2.63	0.41
15:CO:57:LEU:HD23	15:CO:57:LEU:N	2.36	0.41
17:CQ:88:TYR:O	17:CQ:91:ARG:N	2.54	0.41
21:CU:24:ARG:HH11	21:CU:24:ARG:HG2	1.85	0.41
22:CV:56:C:O2	41:DG:83:ARG:HG2	2.21	0.41
22:CW:3:C:H2'	22:CW:4:G:H5''	2.01	0.41
24:CY:443:HIS:HB3	24:CY:446:THR:HG23	2.02	0.41
24:CY:490:PRO:HG3	24:CY:516:PRO:HD2	2.02	0.41
24:CY:631:ILE:HG21	35:DA:1067:A:N9	2.35	0.41
26:D1:67:ILE:HB	26:D1:68:PRO:CD	2.51	0.41
27:D2:5:GLU:O	27:D2:9:GLN:HG3	2.20	0.41
27:D2:25:VAL:O	27:D2:26:ARG:C	2.63	0.41
28:D3:22:ALA:CA	28:D3:46:ASN:HD22	2.34	0.41
29:D4:9:LEU:HD12	29:D4:10:VAL:H	1.86	0.41
30:D5:42:PRO:O	30:D5:43:HIS:HB2	2.21	0.41
31:D6:5:VAL:HG22	35:DA:2283:C:OP1	2.21	0.41
31:D6:15:GLU:CD	31:D6:44:ARG:HH22	2.20	0.41
31:D6:53:LYS:CG	31:D6:54:ILE:H	2.33	0.41
35:DA:185:U:H2'	35:DA:186:G:C8	2.56	0.41
35:DA:212:G:O2'	35:DA:213:A:H5'	2.20	0.41
35:DA:295:G:OP1	57:DY:2:ARG:NH2	2.54	0.41
35:DA:973:A:O4'	35:DA:1188:U:C6	2.74	0.41
35:DA:1064:C:N4	35:DA:1074:G:H1	2.19	0.41
35:DA:1131:G:OP1	46:DN:80:GLY:N	2.49	0.41
35:DA:1214:A:H2'	35:DA:1215:G:O4'	2.21	0.41
35:DA:1841:U:H2'	35:DA:1842:G:C8	2.55	0.41
35:DA:2318:G:C2'	35:DA:2319:G:OP1	2.69	0.41
35:DA:2376:A:N6	51:DS:92:TYR:HE2	2.19	0.41
35:DA:2412:A:N6	35:DA:2413:G:C2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2563:U:H2'	35:DA:2565:A:OP2	2.21	0.41
36:DB:21:G:O2'	36:DB:22:U:P	2.78	0.41
37:DC:84:ILE:HG23	37:DC:95:VAL:HG12	2.03	0.41
38:DD:125:ILE:O	38:DD:126:GLN:HB3	2.20	0.41
39:DE:46:ALA:HA	39:DE:82:ARG:O	2.21	0.41
39:DE:50:GLY:C	39:DE:74:PRO:HG3	2.46	0.41
39:DE:60:ASN:O	39:DE:61:ARG:C	2.64	0.41
40:DF:179:GLU:O	40:DF:181:LEU:N	2.54	0.41
41:DG:53:LEU:HD12	41:DG:56:ALA:CB	2.50	0.41
41:DG:102:PHE:C	41:DG:102:PHE:CD1	2.97	0.41
41:DG:126:ASP:OD2	41:DG:126:ASP:C	2.63	0.41
42:DH:105:LEU:CD2	42:DH:105:LEU:N	2.84	0.41
44:DK:3:LYS:HE3	44:DK:29:GLN:HB3	2.02	0.41
46:DN:29:LYS:O	46:DN:30:ILE:C	2.64	0.41
46:DN:97:ARG:HB3	46:DN:101:HIS:HD2	1.86	0.41
47:DO:104:ARG:NH2	52:DT:33:LYS:CE	2.80	0.41
48:DP:100:LEU:N	48:DP:100:LEU:CD2	2.84	0.41
48:DP:114:ILE:HG13	48:DP:130:PHE:HD1	1.85	0.41
50:DR:13:HIS:HA	50:DR:17:ARG:NH2	2.35	0.41
51:DS:29:PHE:C	51:DS:29:PHE:CD2	2.97	0.41
51:DS:90:GLY:C	51:DS:92:TYR:N	2.78	0.41
52:DT:3:ARG:C	52:DT:5:ALA:N	2.77	0.41
54:DV:72:VAL:HG23	54:DV:72:VAL:O	2.21	0.41
57:DY:28:LYS:HD2	57:DY:37:VAL:HG11	2.03	0.41
58:DZ:17:ALA:O	58:DZ:18:LEU:C	2.63	0.41
58:DZ:74:VAL:HG22	58:DZ:86:VAL:HG13	2.01	0.41
58:DZ:128:VAL:CG2	58:DZ:132:ASN:HB2	2.44	0.41
1:AA:201:C:C3'	1:AA:202:U:H5''	2.51	0.41
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.36	0.41
1:AA:337:C:H2'	1:AA:338:A:C8	2.56	0.41
1:AA:439:A:H2'	1:AA:441:A:C5'	2.51	0.41
1:AA:470:C:H2'	1:AA:471:G:OP1	2.21	0.41
1:AA:794:A:O2'	1:AA:795:C:H5'	2.21	0.41
1:AA:814:A:H5'	1:AA:1511:G:H4'	2.02	0.41
1:AA:977:A:H3'	1:AA:977:A:N3	2.34	0.41
1:AA:1014:A:H4'	19:AS:14:HIS:CG	2.55	0.41
1:AA:1053:G:C4	1:AA:1199:U:C5	3.08	0.41
1:AA:1090:U:H4'	1:AA:1170:A:C2	2.56	0.41
1:AA:1133:G:N3	1:AA:1142:G:N2	2.69	0.41
1:AA:1250:A:C2	1:AA:1251:A:C4	3.09	0.41
1:AA:1277:C:H2'	1:AA:1278:U:C5'	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1284:C:H6	1:AA:1284:C:O5'	2.03	0.41
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.85	0.41
1:AA:1442(B):A:H2'	1:AA:1442(B):A:N3	2.36	0.41
2:AB:222:ILE:HB	2:AB:226:ARG:NH2	2.31	0.41
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	2.03	0.41
3:AC:53:ALA:HB2	3:AC:115:LEU:HG	2.02	0.41
3:AC:136:GLN:HG3	3:AC:139:GLN:CB	2.47	0.41
3:AC:141:VAL:O	3:AC:144:SER:N	2.53	0.41
4:AD:102:ASP:HA	4:AD:121:VAL:HG21	2.02	0.41
4:AD:192:GLU:C	4:AD:194:LEU:N	2.78	0.41
5:AE:59:GLY:O	5:AE:62:ALA:HB3	2.21	0.41
7:AG:137:LYS:HE2	7:AG:141:VAL:HG23	2.03	0.41
7:AG:138:LYS:HE3	7:AG:142:GLU:OE1	2.21	0.41
9:AI:33:PHE:O	9:AI:35:GLU:N	2.49	0.41
9:AI:83:ARG:C	9:AI:86:VAL:HG12	2.46	0.41
10:AJ:4:ILE:HD12	10:AJ:4:ILE:H	1.81	0.41
10:AJ:6:ILE:CG2	10:AJ:98:ILE:HD12	2.41	0.41
11:AK:12:ARG:C	11:AK:13:GLN:HG3	2.46	0.41
12:AL:17:LYS:CD	12:AL:18:VAL:HG22	2.47	0.41
12:AL:47:LYS:CD	12:AL:48:PRO:HD3	2.49	0.41
13:AM:20:THR:C	13:AM:22:ILE:H	2.29	0.41
13:AM:36:LYS:HG3	13:AM:59:TYR:OH	2.21	0.41
13:AM:81:LEU:HD22	13:AM:81:LEU:H	1.83	0.41
14:AN:27:CYS:SG	14:AN:40:CYS:SG	3.18	0.41
15:AO:74:ASP:OD1	15:AO:76:GLU:HB3	2.21	0.41
16:AP:32:TYR:O	16:AP:32:TYR:CD2	2.61	0.41
17:AQ:21:VAL:HG21	17:AQ:59:ILE:HD11	2.03	0.41
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.21	0.41
19:AS:9:VAL:O	19:AS:10:PHE:C	2.64	0.41
23:AX:13:A:C3'	23:AX:14:A:C5'	2.78	0.41
24:AY:25:LYS:N	62:AY:703:GDP:O2B	2.54	0.41
24:AY:138:LYS:HE2	62:AY:703:GDP:C4	2.56	0.41
24:AY:138:LYS:HE2	62:AY:703:GDP:N9	2.36	0.41
24:AY:188:TYR:OH	24:AY:271:LEU:HD11	2.21	0.41
24:AY:314:PHE:CD1	24:AY:314:PHE:C	2.99	0.41
24:AY:364:GLU:HG2	24:AY:366:VAL:HG13	2.03	0.41
24:AY:415:PRO:O	24:AY:416:LYS:C	2.63	0.41
24:AY:469:GLU:N	24:AY:469:GLU:CD	2.78	0.41
24:AY:485:GLU:CB	24:AY:560:VAL:HG22	2.48	0.41
24:AY:621:ILE:HG23	24:AY:631:ILE:HG12	2.02	0.41
26:B1:59:THR:O	26:B1:91:LYS:NZ	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:27:GLU:O	27:B2:28:LYS:C	2.64	0.41
27:B2:67:LYS:O	27:B2:69:ARG:N	2.53	0.41
28:B3:35:ARG:CD	28:B3:37:LEU:HD21	2.51	0.41
29:B4:10:VAL:CG2	29:B4:11:PRO:CD	2.99	0.41
29:B4:10:VAL:CG1	29:B4:27:THR:HA	2.51	0.41
30:B5:2:ALA:N	35:BA:2015:A:C1'	2.84	0.41
31:B6:20:ASN:ND2	31:B6:44:ARG:HH22	2.18	0.41
32:B7:8:ASN:C	32:B7:8:ASN:ND2	2.77	0.41
35:BA:20:C:H2'	35:BA:21:A:C8	2.54	0.41
35:BA:64:A:O2'	35:BA:65:C:H5'	2.20	0.41
35:BA:83:G:O2'	35:BA:84:A:OP2	2.39	0.41
35:BA:192:C:O2'	35:BA:802:A:N3	2.49	0.41
35:BA:464:U:H2'	35:BA:465:G:O4'	2.21	0.41
35:BA:464:U:C4	35:BA:788:A:N7	2.89	0.41
35:BA:657:U:H2'	35:BA:658:C:C5	2.55	0.41
35:BA:688:U:H2'	35:BA:689:A:H8	1.86	0.41
35:BA:861:A:C2	35:BA:917:A:C4	3.09	0.41
35:BA:954:G:O2'	35:BA:955:C:H5'	2.21	0.41
35:BA:1141:U:OP1	46:BN:25:ARG:NH1	2.54	0.41
35:BA:1164:G:H1	35:BA:1185:C:N4	2.19	0.41
35:BA:1221(A):C:C2	35:BA:1229:G:N2	2.89	0.41
35:BA:1497:U:C2	35:BA:1578:U:OP1	2.74	0.41
35:BA:1573:G:C2'	35:BA:1574:C:H5'	2.51	0.41
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.55	0.41
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.47	0.41
35:BA:1803:A:C8	35:BA:1804:C:C5	3.09	0.41
35:BA:1882:C:H2'	35:BA:1883:G:O4'	2.20	0.41
35:BA:1996:C:OP1	47:BO:31:LYS:HE2	2.20	0.41
35:BA:2018:G:H21	53:BU:34:LYS:HZ2	1.68	0.41
35:BA:2318:G:C2'	35:BA:2319:G:OP1	2.69	0.41
35:BA:2464:C:O2'	35:BA:2465:C:P	2.78	0.41
35:BA:2534:A:H2'	35:BA:2535:G:O5'	2.21	0.41
35:BA:2572:A:C5'	35:BA:2574:G:H4'	2.35	0.41
35:BA:2681:C:H5	35:BA:2725:A:N6	2.18	0.41
35:BA:2712:U:O2	35:BA:2712:U:O4'	2.39	0.41
35:BA:2838:G:C1'	50:BR:45:ARG:HH11	2.34	0.41
35:BA:2880:C:O5'	35:BA:2880:C:H6	2.04	0.41
36:BB:9:G:C6	36:BB:113:G:C6	3.09	0.41
37:BC:138:LEU:HD22	37:BC:139:PRO:CD	2.49	0.41
37:BC:226:ASN:C	37:BC:228:HIS:H	2.29	0.41
38:BD:67:PHE:HD2	38:BD:67:PHE:HA	1.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:124:PRO:O	38:BD:129:ASN:ND2	2.53	0.41
38:BD:138:VAL:O	38:BD:138:VAL:HG13	2.21	0.41
38:BD:276:LYS:C	38:BD:276:LYS:HD3	2.46	0.41
39:BE:9:VAL:HG13	39:BE:25:VAL:C	2.45	0.41
39:BE:26:ILE:CG2	39:BE:196:VAL:HG21	2.47	0.41
39:BE:46:ALA:HA	39:BE:82:ARG:O	2.21	0.41
39:BE:50:GLY:C	39:BE:74:PRO:HG3	2.45	0.41
39:BE:117:MET:HA	39:BE:122:PHE:N	2.18	0.41
39:BE:183:LEU:HD12	39:BE:183:LEU:N	2.34	0.41
40:BF:10:PRO:HG2	40:BF:11:VAL:N	2.36	0.41
40:BF:110:LEU:CD1	40:BF:202:PHE:HE1	2.34	0.41
40:BF:181:LEU:O	40:BF:205:ARG:NH1	2.54	0.41
40:BF:195:ASP:CG	40:BF:196:LEU:N	2.73	0.41
41:BG:56:ALA:CA	41:BG:59:GLU:OE1	2.66	0.41
41:BG:102:PHE:O	41:BG:105:LYS:N	2.53	0.41
41:BG:111:LEU:HD21	41:BG:120:LEU:HD21	2.02	0.41
44:BK:6:ALA:CB	44:BK:30:HIS:CE1	3.04	0.41
44:BK:55:VAL:HG13	44:BK:57:ILE:HD11	2.03	0.41
44:BK:107:ILE:C	44:BK:109:LYS:N	2.79	0.41
46:BN:22:THR:HB	46:BN:25:ARG:CB	2.47	0.41
46:BN:76:SER:O	46:BN:78:TYR:N	2.53	0.41
46:BN:79:PRO:C	46:BN:81:GLY:N	2.76	0.41
47:BO:24:VAL:CG2	47:BO:24:VAL:O	2.66	0.41
47:BO:53:LYS:O	47:BO:54:GLU:O	2.38	0.41
50:BR:3:HIS:O	50:BR:4:LEU:CB	2.68	0.41
51:BS:15:ARG:CB	51:BS:18:ILE:HD11	2.36	0.41
51:BS:49:VAL:CG1	51:BS:50:SER:N	2.79	0.41
51:BS:56:LEU:C	51:BS:58:LEU:N	2.79	0.41
51:BS:87:PHE:HB2	51:BS:106:ARG:HH21	1.85	0.41
51:BS:90:GLY:C	51:BS:92:TYR:N	2.77	0.41
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.89	0.41
52:BT:30:VAL:HG22	52:BT:84:GLN:O	2.21	0.41
52:BT:82:LEU:O	52:BT:83:ILE:C	2.63	0.41
53:BU:21:ALA:HA	53:BU:24:TYR:CE1	2.56	0.41
53:BU:50:ARG:HH11	54:BV:70:ILE:CG2	2.34	0.41
54:BV:64:HIS:HA	54:BV:92:THR:HA	2.01	0.41
55:BW:6:ILE:HA	55:BW:103:ILE:O	2.20	0.41
55:BW:20:VAL:C	55:BW:22:ASP:N	2.79	0.41
55:BW:36:LEU:CD1	55:BW:47:VAL:HG12	2.49	0.41
55:BW:37:ARG:HG3	55:BW:38:TYR:CD2	2.55	0.41
55:BW:70:TYR:O	55:BW:107:LEU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:43:VAL:C	56:BX:45:THR:N	2.78	0.41
56:BX:47:PHE:CD2	56:BX:89:ILE:HG21	2.55	0.41
56:BX:77:LYS:O	56:BX:77:LYS:HG2	2.19	0.41
57:BY:7:VAL:HB	57:BY:8:LYS:HZ2	1.86	0.41
58:BZ:47:VAL:O	58:BZ:51:ALA:HB3	2.20	0.41
58:BZ:78:LYS:HD3	58:BZ:78:LYS:H	1.86	0.41
58:BZ:97:GLU:HB3	58:BZ:125:LEU:HD11	2.03	0.41
58:BZ:103:ARG:HD2	58:BZ:136:PHE:CG	2.56	0.41
1:CA:103:C:O2	1:CA:103:C:H2'	2.21	0.41
1:CA:176:C:C2	1:CA:177:C:C5	3.08	0.41
1:CA:252:U:C4	1:CA:253:U:O4	2.74	0.41
1:CA:261:U:N3	1:CA:264:U:OP2	2.42	0.41
1:CA:318:G:C2	1:CA:336:C:N3	2.89	0.41
1:CA:323:U:H2'	1:CA:324:G:O4'	2.21	0.41
1:CA:470:C:H2'	1:CA:471:G:OP1	2.21	0.41
1:CA:619:U:O5'	1:CA:619:U:H6	2.04	0.41
1:CA:748:C:O2'	1:CA:749:C:H6	2.04	0.41
1:CA:802:A:H3'	1:CA:803:G:C8	2.56	0.41
1:CA:953:G:H5'	1:CA:965:A:N6	2.28	0.41
1:CA:1037:C:H2'	1:CA:1038:C:N3	2.34	0.41
1:CA:1074:G:O2'	1:CA:1075:C:H5'	2.20	0.41
1:CA:1134:G:H2'	1:CA:1135:U:H5'	2.03	0.41
1:CA:1392:G:N2	1:CA:1502:A:H8	2.19	0.41
1:CA:1452:C:OP1	1:CA:1452:C:O4'	2.39	0.41
2:CB:132:LYS:O	2:CB:133:LYS:C	2.64	0.41
2:CB:158:LEU:HA	2:CB:159:PRO:HD3	1.93	0.41
2:CB:176:GLU:O	2:CB:177:ALA:C	2.63	0.41
2:CB:212:GLN:O	2:CB:213:LEU:C	2.64	0.41
2:CB:213:LEU:HD23	2:CB:213:LEU:O	2.20	0.41
3:CC:14:ILE:CG1	3:CC:15:THR:N	2.84	0.41
3:CC:59:ARG:HG3	3:CC:64:VAL:HA	2.01	0.41
3:CC:83:ARG:O	3:CC:86:VAL:N	2.54	0.41
3:CC:132:ARG:O	3:CC:133:ALA:C	2.64	0.41
4:CD:18:LYS:HE2	4:CD:20:TYR:CE2	2.56	0.41
4:CD:97:LEU:HD23	4:CD:97:LEU:HA	1.85	0.41
4:CD:133:VAL:HG12	4:CD:134:ASP:N	2.35	0.41
5:CE:88:LYS:HB3	5:CE:123:LEU:O	2.20	0.41
9:CI:50:LEU:HD23	9:CI:85:LEU:CD2	2.50	0.41
9:CI:79:LEU:O	9:CI:82:ALA:N	2.54	0.41
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	2.21	0.41
10:CJ:29:ARG:C	10:CJ:31:GLY:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:21:ILE:HG13	11:CK:30:VAL:CG1	2.51	0.41
11:CK:54:ARG:C	11:CK:56:GLY:N	2.78	0.41
12:CL:22:SER:C	12:CL:24:VAL:N	2.77	0.41
13:CM:88:ARG:HH11	13:CM:88:ARG:HG2	1.86	0.41
13:CM:112:GLY:O	13:CM:113:PRO:C	2.64	0.41
14:CN:5:ALA:O	14:CN:8:GLU:HB2	2.21	0.41
14:CN:9:LYS:HB2	14:CN:9:LYS:HE3	1.91	0.41
14:CN:29:ARG:HH11	14:CN:29:ARG:CG	2.31	0.41
16:CP:42:ARG:O	16:CP:43:LYS:C	2.63	0.41
19:CS:20:LEU:HA	19:CS:20:LEU:HD23	1.83	0.41
20:CT:33:ILE:HD11	20:CT:62:LEU:O	2.21	0.41
22:CV:61:C:H2'	22:CV:62:C:H6	1.86	0.41
22:CW:46:G:O2'	22:CW:47:G:H5'	2.20	0.41
24:CY:5:VAL:C	24:CY:7:TYR:H	2.29	0.41
24:CY:15:ILE:HD13	24:CY:105:ILE:CD1	2.50	0.41
24:CY:20:HIS:O	24:CY:23:ALA:HB2	2.20	0.41
24:CY:66:THR:O	24:CY:66:THR:OG1	2.29	0.41
24:CY:126:GLU:O	24:CY:129:LYS:N	2.54	0.41
24:CY:138:LYS:HG2	62:CY:703:GDP:C6	2.54	0.41
24:CY:151:ARG:O	24:CY:155:GLU:HB2	2.21	0.41
24:CY:229:LEU:HA	24:CY:232:LEU:HD23	2.02	0.41
24:CY:352:VAL:HG23	24:CY:377:VAL:HB	2.01	0.41
24:CY:606:MET:SD	24:CY:673:PHE:HA	2.60	0.41
25:D0:40:GLN:HE21	25:D0:43:THR:HA	1.77	0.41
26:D1:26:ARG:HG3	26:D1:27:GLU:CG	2.43	0.41
29:D4:10:VAL:CG1	29:D4:27:THR:HA	2.51	0.41
29:D4:27:THR:O	29:D4:28:LYS:CB	2.69	0.41
29:D4:48:ARG:O	29:D4:49:PHE:HD1	2.01	0.41
30:D5:3:LYS:NZ	35:DA:2613:U:O2'	2.49	0.41
30:D5:44:THR:O	30:D5:51:TYR:CE1	2.70	0.41
35:DA:78:A:H2'	35:DA:79:G:H8	1.85	0.41
35:DA:82:G:N1	35:DA:103:A:OP2	2.53	0.41
35:DA:128:C:O2'	35:DA:129:C:P	2.79	0.41
35:DA:130:C:O3'	35:DA:1349:A:H1'	2.21	0.41
35:DA:361:G:N2	35:DA:362:U:H1'	2.35	0.41
35:DA:437:G:H2'	35:DA:438:G:C8	2.56	0.41
35:DA:483:A:H3'	35:DA:484:C:C6	2.56	0.41
35:DA:606:U:O2	35:DA:606:U:C2'	2.65	0.41
35:DA:614(B):G:H5''	35:DA:614(C):A:OP1	2.21	0.41
35:DA:677:A:O2'	35:DA:678:C:H5'	2.21	0.41
35:DA:813:U:C2	35:DA:814:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1144:G:C6	35:DA:1145:C:C4	3.08	0.41
35:DA:1196:C:O2'	35:DA:1197:G:H5'	2.21	0.41
35:DA:1248:G:OP2	40:DF:92:PRO:HB3	2.20	0.41
35:DA:1453:U:H2'	35:DA:1455:G:C8	2.56	0.41
35:DA:1472:A:H2'	35:DA:1473:G:H8	1.85	0.41
35:DA:1495:A:H2'	35:DA:1496:A:N3	2.36	0.41
35:DA:1528(A):A:C8	35:DA:1529:G:C8	3.09	0.41
35:DA:1539:G:N1	35:DA:1540:U:O2	2.54	0.41
35:DA:1664:A:OP1	35:DA:1665:A:OP2	2.39	0.41
35:DA:1820:U:H3	38:DD:199:ALA:HA	1.86	0.41
35:DA:2020:A:C6	35:DA:2022:U:C2	3.08	0.41
35:DA:2115:G:C3'	35:DA:2116:G:H5''	2.51	0.41
35:DA:2128:C:OP1	37:DC:37:LYS:HG3	2.21	0.41
35:DA:2322:A:O2'	35:DA:2323:G:H5'	2.21	0.41
35:DA:2370:G:H2'	35:DA:2371:G:O4'	2.21	0.41
35:DA:2534:A:H2'	35:DA:2535:G:O5'	2.20	0.41
35:DA:2617:C:H2'	35:DA:2618:G:H5'	2.02	0.41
35:DA:2618:G:H2'	35:DA:2619:C:C6	2.55	0.41
35:DA:2751:G:N2	35:DA:2751:G:OP1	2.54	0.41
35:DA:2786:U:O2'	39:DE:62:PRO:HA	2.20	0.41
35:DA:2818:G:HO2'	35:DA:2837:G:H5'	1.85	0.41
35:DA:2820:A:O4'	50:DR:5:LYS:HG3	2.20	0.41
35:DA:2825:C:H2'	35:DA:2826:A:O4'	2.21	0.41
36:DB:5:C:O2'	36:DB:6:C:H5'	2.21	0.41
37:DC:46:ALA:O	37:DC:48:LEU:HD12	2.21	0.41
37:DC:117:THR:O	37:DC:120:VAL:HG22	2.21	0.41
37:DC:134:PRO:HB2	37:DC:135:ARG:HD2	2.03	0.41
39:DE:59:VAL:CG2	39:DE:62:PRO:O	2.69	0.41
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.51	0.41
40:DF:103:LYS:HA	40:DF:106:ARG:CG	2.51	0.41
40:DF:133:ASN:N	40:DF:162:LEU:HD23	2.35	0.41
40:DF:168:ARG:O	40:DF:170:LEU:N	2.53	0.41
41:DG:5:VAL:O	41:DG:6:ALA:C	2.64	0.41
41:DG:34:LEU:HD13	41:DG:99:MET:CE	2.51	0.41
41:DG:49:ASP:O	41:DG:50:ALA:HB3	2.20	0.41
41:DG:114:ILE:O	41:DG:115:ARG:HB2	2.20	0.41
42:DH:97:ARG:O	42:DH:97:ARG:HG2	2.20	0.41
42:DH:128:PRO:HG2	42:DH:129:THR:HG23	2.03	0.41
42:DH:169:VAL:HG13	42:DH:170:ARG:H	1.82	0.41
44:DK:48:MET:HB2	44:DK:49:GLY:H	1.70	0.41
44:DK:61:ALA:O	44:DK:63:ARG:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:121:GLU:O	44:DK:125:ARG:NE	2.53	0.41
46:DN:94:HIS:HA	46:DN:96:GLU:OE1	2.21	0.41
46:DN:120:LEU:HD13	46:DN:121:LYS:N	2.36	0.41
47:DO:69:ILE:HD13	47:DO:77:ILE:CG2	2.42	0.41
48:DP:56:SER:O	48:DP:58:THR:N	2.54	0.41
48:DP:83:VAL:H	48:DP:115:LEU:HD23	1.83	0.41
48:DP:106:LEU:HD12	48:DP:106:LEU:N	2.36	0.41
49:DQ:55:VAL:CG1	49:DQ:56:ARG:H	2.29	0.41
50:DR:38:VAL:HB	50:DR:39:PRO:CD	2.39	0.41
51:DS:74:ALA:CB	51:DS:103:GLU:HB2	2.46	0.41
51:DS:101:LEU:O	51:DS:102:ALA:O	2.39	0.41
52:DT:19:LEU:HA	52:DT:20:PRO:HD3	1.81	0.41
53:DU:50:ARG:O	53:DU:52:ARG:N	2.53	0.41
53:DU:52:ARG:O	53:DU:53:ARG:C	2.63	0.41
54:DV:64:HIS:HA	54:DV:92:THR:HA	2.03	0.41
55:DW:10:VAL:HG21	55:DW:103:ILE:HG13	2.03	0.41
57:DY:77:PRO:HB2	57:DY:99:CYS:SG	2.61	0.41
57:DY:87:LYS:O	57:DY:88:LYS:HB2	2.20	0.41
58:DZ:28:MET:O	58:DZ:34:ASN:HB2	2.21	0.41
58:DZ:77:ASP:O	58:DZ:77:ASP:CG	2.63	0.41
1:AA:32:A:C2	1:AA:33:A:C4	3.09	0.41
1:AA:340:U:C2	1:AA:350:G:C2	3.09	0.41
1:AA:432:A:N7	1:AA:433:C:C4	2.89	0.41
1:AA:585:G:C6	1:AA:586:C:C4	3.08	0.41
1:AA:619:U:O5'	1:AA:619:U:H6	2.03	0.41
1:AA:953:G:H5'	1:AA:965:A:N6	2.30	0.41
1:AA:1037:C:H2'	1:AA:1038:C:N3	2.35	0.41
1:AA:1255:G:H2'	1:AA:1279:A:H62	1.86	0.41
1:AA:1371:G:OP2	9:AI:11:LYS:HD2	2.21	0.41
1:AA:1442(B):A:C5	52:BT:118:ARG:NE	2.89	0.41
2:AB:121:LEU:HA	2:AB:124:SER:CB	2.51	0.41
3:AC:22:TRP:CH2	3:AC:32:LEU:HB2	2.55	0.41
4:AD:173:TRP:CB	4:AD:187:ARG:NH1	2.83	0.41
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.54	0.41
8:AH:1:MET:O	8:AH:2:LEU:O	2.39	0.41
8:AH:26:VAL:O	8:AH:27:PRO:C	2.64	0.41
9:AI:8:GLY:HA3	9:AI:79:LEU:HB3	2.03	0.41
10:AJ:38:ILE:N	10:AJ:71:LEU:O	2.50	0.41
10:AJ:39:PRO:HG2	10:AJ:39:PRO:O	2.21	0.41
13:AM:66:LEU:O	13:AM:67:GLU:O	2.38	0.41
18:AR:26:LEU:CD2	18:AR:42:ARG:NH1	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:9:VAL:HG13	19:AS:39:THR:HB	2.03	0.41
20:AT:30:LYS:HZ2	20:AT:34:LYS:HE3	1.85	0.41
24:AY:83:ASP:O	24:AY:84:THR:OG1	2.32	0.41
24:AY:89:ASP:HB2	24:AY:90:PHE:H	1.36	0.41
24:AY:137:ASN:C	24:AY:137:ASN:HD22	2.28	0.41
24:AY:402:ILE:H	24:AY:402:ILE:CD1	2.33	0.41
24:AY:578:SER:O	24:AY:579:GLU:C	2.64	0.41
24:AY:610:VAL:CG2	24:AY:643:ILE:HB	2.51	0.41
24:AY:673:PHE:CD2	24:AY:674:ASP:N	2.89	0.41
25:B0:60:PHE:C	25:B0:60:PHE:HD1	2.29	0.41
27:B2:3:LEU:CD2	27:B2:7:ARG:HH12	2.14	0.41
29:B4:13:ARG:C	29:B4:14:ILE:HD12	2.45	0.41
31:B6:53:LYS:CG	31:B6:54:ILE:H	2.34	0.41
35:BA:191:A:O2'	35:BA:192:C:O4'	2.37	0.41
35:BA:239:U:H1'	35:BA:259:G:N2	2.36	0.41
35:BA:270:A:O2'	35:BA:271:A:H5'	2.20	0.41
35:BA:558:G:OP1	46:BN:111:PRO:HD2	2.20	0.41
35:BA:705:A:C6	35:BA:727:A:H1'	2.56	0.41
35:BA:733:G:C6	35:BA:761:A:C8	3.09	0.41
35:BA:763:G:C4	35:BA:765:G:C8	3.09	0.41
35:BA:1084:A:OP1	43:BJ:55:UNK:HA	2.20	0.41
35:BA:1251:C:OP2	53:BU:10:ARG:NE	2.50	0.41
35:BA:1326:U:H4'	35:BA:2011:U:O4'	2.20	0.41
35:BA:1491:G:N3	35:BA:1492:G:C8	2.89	0.41
35:BA:1526:G:H2'	35:BA:1527:G:O4'	2.21	0.41
35:BA:1529:G:C6	35:BA:1541:G:N1	2.88	0.41
35:BA:1638:C:H1'	35:BA:2698:U:O2'	2.21	0.41
35:BA:1683:C:O2'	35:BA:1684:C:H5'	2.21	0.41
35:BA:1721:G:C2	35:BA:1739:U:OP2	2.74	0.41
35:BA:1941:C:C4	35:BA:1942:C:C4	3.09	0.41
35:BA:2134:A:H1'	35:BA:2158:A:C2	2.56	0.41
36:BB:74:U:C2'	36:BB:75:G:H5'	2.51	0.41
36:BB:77:U:OP1	58:BZ:19:ARG:NH2	2.53	0.41
37:BC:119:ASP:OD1	37:BC:120:VAL:HG13	2.21	0.41
38:BD:177:LEU:O	38:BD:178:PRO:C	2.64	0.41
38:BD:245:PRO:O	38:BD:245:PRO:HG2	2.20	0.41
39:BE:9:VAL:HG22	39:BE:10:GLY:H	1.84	0.41
40:BF:192:LEU:C	40:BF:192:LEU:CD2	2.87	0.41
42:BH:12:PRO:HB2	42:BH:15:VAL:CG1	2.40	0.41
42:BH:97:ARG:O	42:BH:97:ARG:HG2	2.21	0.41
44:BK:8:VAL:O	44:BK:56:GLU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:88:ASN:C	47:BO:90:GLN:N	2.79	0.41
48:BP:25:SER:O	48:BP:30:THR:OG1	2.34	0.41
48:BP:119:GLU:HA	48:BP:119:GLU:OE1	2.21	0.41
49:BQ:1:MET:HE3	49:BQ:44:ALA:HB3	2.02	0.41
49:BQ:37:LEU:HG	49:BQ:129:THR:HA	2.03	0.41
52:BT:90:GLN:O	52:BT:92:GLY:N	2.53	0.41
53:BU:76:TYR:C	53:BU:76:TYR:HD2	2.27	0.41
53:BU:76:TYR:O	53:BU:77:SER:C	2.64	0.41
56:BX:39:ILE:O	56:BX:40:LYS:C	2.63	0.41
56:BX:64:LYS:HB3	56:BX:64:LYS:HE2	1.85	0.41
56:BX:90:GLU:O	56:BX:92:LEU:N	2.53	0.41
57:BY:96:ILE:HG21	57:BY:99:CYS:HB3	2.02	0.41
58:BZ:158:PRO:O	58:BZ:160:GLY:N	2.47	0.41
1:CA:17:U:H1'	1:CA:1080:A:N3	2.35	0.41
1:CA:32:A:C6	1:CA:33:A:C6	3.09	0.41
1:CA:437:U:H2'	1:CA:438:G:O4'	2.21	0.41
1:CA:923:A:OP1	5:CE:21:ALA:HB2	2.21	0.41
1:CA:943:U:H2'	1:CA:944:G:C5'	2.49	0.41
1:CA:1003:G:O2'	1:CA:1004:A:O3'	2.38	0.41
1:CA:1321:C:C4	1:CA:1322:C:C4	3.09	0.41
2:CB:178:ARG:HA	2:CB:178:ARG:HD3	1.80	0.41
3:CC:90:GLU:CD	3:CC:93:LYS:HD2	2.46	0.41
4:CD:200:GLU:O	4:CD:201:GLN:C	2.63	0.41
13:CM:64:TRP:N	13:CM:64:TRP:CD1	2.89	0.41
16:CP:75:ARG:HA	16:CP:80:PHE:HD1	1.85	0.41
22:CW:69:C:C4	22:CW:70:C:N4	2.89	0.41
24:CY:114:VAL:O	24:CY:114:VAL:CG1	2.66	0.41
24:CY:252:ASP:O	24:CY:254:LYS:HE3	2.21	0.41
26:D1:9:GLY:O	26:D1:10:LYS:C	2.63	0.41
27:D2:67:LYS:O	27:D2:69:ARG:N	2.53	0.41
29:D4:16:CYS:HB3	29:D4:20:ASN:O	2.21	0.41
29:D4:53:GLU:HB3	29:D4:55:ARG:CZ	2.50	0.41
30:D5:2:ALA:O	30:D5:3:LYS:CB	2.69	0.41
31:D6:8:LYS:NZ	35:DA:2285:C:C5	2.76	0.41
31:D6:31:PRO:O	31:D6:32:ASN:CG	2.64	0.41
34:D9:29:ASN:OD1	34:D9:32:HIS:NE2	2.54	0.41
35:DA:83:G:H22	35:DA:102:G:H2'	1.83	0.41
35:DA:205:G:O2'	35:DA:206:U:OP2	2.38	0.41
35:DA:234:C:H2'	35:DA:235:U:H6	1.86	0.41
35:DA:327:G:N2	35:DA:328:U:H1'	2.36	0.41
35:DA:481:G:N2	35:DA:507:A:H1'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:557:U:H2'	35:DA:558:G:C8	2.55	0.41
35:DA:558:G:OP1	46:DN:111:PRO:HD2	2.20	0.41
35:DA:570:G:O6	35:DA:2499:C:OP1	2.39	0.41
35:DA:676:A:C1'	35:DA:2443:C:H1'	2.45	0.41
35:DA:910:A:C6	35:DA:911:A:C6	3.09	0.41
35:DA:1174:A:H5'	35:DA:1175:U:H5''	2.02	0.41
35:DA:1198:U:O2	35:DA:1198:U:C2'	2.69	0.41
35:DA:1491:G:N3	35:DA:1492:G:C8	2.89	0.41
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.81	0.41
35:DA:1882:C:H2'	35:DA:1883:G:O4'	2.21	0.41
35:DA:2422:A:H8	35:DA:2422:A:H3'	1.86	0.41
35:DA:2696:U:H2'	35:DA:2697:G:H8	1.86	0.41
35:DA:2773:C:H5''	39:DE:164:ARG:HG2	2.03	0.41
35:DA:2881:C:H2'	35:DA:2882:A:H8	1.87	0.41
35:DA:2889:C:H2'	35:DA:2891:G:C8	2.56	0.41
36:DB:36:C:H2'	36:DB:37:C:C6	2.55	0.41
38:DD:73:VAL:C	38:DD:75:ILE:N	2.79	0.41
38:DD:92:ILE:H	38:DD:92:ILE:CD1	2.34	0.41
38:DD:179:SER:C	38:DD:181:GLU:H	2.29	0.41
38:DD:276:LYS:HD3	38:DD:276:LYS:C	2.46	0.41
39:DE:65:GLY:C	39:DE:67:PHE:H	2.29	0.41
39:DE:142:GLY:C	39:DE:143:ASN:HD22	2.28	0.41
41:DG:34:LEU:N	41:DG:34:LEU:CD1	2.76	0.41
41:DG:61:ALA:O	41:DG:64:THR:HG22	2.21	0.41
41:DG:76:SER:CB	41:DG:83:ARG:HA	2.50	0.41
41:DG:140:ILE:H	41:DG:140:ILE:HG13	1.71	0.41
42:DH:45:VAL:O	42:DH:47:GLU:N	2.54	0.41
42:DH:136:ILE:HG22	42:DH:136:ILE:O	2.21	0.41
46:DN:57:ALA:HB3	46:DN:124:ALA:HA	2.01	0.41
47:DO:91:LEU:N	47:DO:91:LEU:CD2	2.83	0.41
49:DQ:68:ILE:CG2	49:DQ:103:MET:HA	2.51	0.41
51:DS:24:LEU:CB	51:DS:85:VAL:HG12	2.38	0.41
51:DS:35:ILE:HG22	51:DS:53:SER:HB2	2.02	0.41
51:DS:42:ASP:O	51:DS:43:GLU:CB	2.69	0.41
51:DS:56:LEU:C	51:DS:58:LEU:N	2.79	0.41
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.89	0.41
53:DU:51:LYS:HA	53:DU:54:LYS:HE2	2.02	0.41
56:DX:23:GLU:O	56:DX:25:LYS:N	2.48	0.41
56:DX:35:THR:CG2	56:DX:36:LYS:N	2.83	0.41
45:DI:3:UNK:O	45:DI:7:UNK:CB	2.69	0.41
1:AA:32:A:H3'	1:AA:33:A:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:224:C:H2'	1:AA:225:C:C6	2.55	0.40
1:AA:596:C:OP2	1:AA:597:G:OP2	2.39	0.40
1:AA:1098:C:O2'	1:AA:1099:G:H5'	2.21	0.40
1:AA:1493:A:O2'	1:AA:1494:G:OP1	2.33	0.40
1:AA:1511:G:C2'	1:AA:1512:U:H5'	2.51	0.40
2:AB:110:GLN:H	2:AB:110:GLN:HG3	1.57	0.40
3:AC:14:ILE:CG1	3:AC:15:THR:N	2.83	0.40
4:AD:121:VAL:N	4:AD:126:ILE:HD13	2.36	0.40
8:AH:10:LEU:HD22	8:AH:83:ILE:CD1	2.45	0.40
8:AH:56:LYS:HA	8:AH:57:PRO:HD2	1.82	0.40
9:AI:11:LYS:O	9:AI:12:GLU:HB2	2.21	0.40
10:AJ:4:ILE:HD11	10:AJ:77:PRO:HB3	2.03	0.40
10:AJ:12:ASP:OD1	10:AJ:15:THR:HG23	2.21	0.40
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.49	0.40
12:AL:70:ILE:HG23	12:AL:100:ILE:HD12	2.03	0.40
13:AM:3:ARG:HD3	29:B4:34:GLU:CD	2.46	0.40
13:AM:66:LEU:HA	13:AM:70:LEU:CD1	2.50	0.40
16:AP:75:ARG:HH11	16:AP:75:ARG:HG3	1.86	0.40
22:AW:19:G:C6	22:AW:58:A:C6	3.08	0.40
24:AY:104:ALA:O	24:AY:132:ARG:HB2	2.21	0.40
24:AY:145:ASP:OD2	24:AY:148:LEU:HB2	2.21	0.40
24:AY:168:ILE:HG23	24:AY:205:TYR:CE2	2.55	0.40
24:AY:211:GLU:O	24:AY:215:LYS:HG3	2.20	0.40
24:AY:300:GLU:O	24:AY:301:ILE:HD13	2.20	0.40
24:AY:335:LEU:HD23	24:AY:355:LEU:HD11	2.03	0.40
24:AY:442:THR:O	24:AY:443:HIS:C	2.64	0.40
24:AY:505:GLY:HA3	24:AY:576:ASP:OD1	2.20	0.40
24:AY:679:VAL:O	24:AY:681:LYS:N	2.46	0.40
32:B7:11:LYS:HE2	35:BA:686:G:H5''	2.03	0.40
33:B8:50:LEU:HA	33:B8:53:PRO:HG3	2.04	0.40
34:B9:29:ASN:HA	34:B9:30:PRO:HD2	1.89	0.40
35:BA:71:A:H5''	35:BA:72:U:O5'	2.21	0.40
35:BA:94:C:O2	35:BA:94:C:H2'	2.20	0.40
35:BA:979:G:H2'	35:BA:982:C:H41	1.86	0.40
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.51	0.40
35:BA:1668:A:H4'	35:BA:1669:A:O5'	2.20	0.40
35:BA:1863:G:H2'	35:BA:1864:U:O4'	2.22	0.40
35:BA:2242:G:N2	35:BA:2434:A:H2	2.19	0.40
35:BA:2334:G:N3	51:BS:18:ILE:HD13	2.36	0.40
35:BA:2441:C:O2'	35:BA:2442:C:H5'	2.21	0.40
35:BA:2657:A:O2'	42:BH:160:LYS:CE	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2861:G:C4	35:BA:2862:G:C8	3.09	0.40
37:BC:75:VAL:HG12	37:BC:76:LEU:N	2.36	0.40
37:BC:181:PHE:HA	37:BC:182:PRO:HD3	1.85	0.40
39:BE:38:THR:HG23	39:BE:39:PRO:HD2	2.02	0.40
39:BE:51:PHE:C	39:BE:74:PRO:HB2	2.46	0.40
39:BE:167:VAL:HG13	39:BE:170:LEU:HD11	2.03	0.40
40:BF:132:VAL:O	40:BF:138:GLU:OE1	2.39	0.40
41:BG:125:PHE:CZ	41:BG:173:LEU:HD12	2.56	0.40
42:BH:89:ILE:HD13	42:BH:94:TYR:HB3	2.03	0.40
42:BH:163:TYR:CD1	42:BH:163:TYR:N	2.89	0.40
42:BH:169:VAL:C	42:BH:170:ARG:HG3	2.46	0.40
46:BN:3:THR:CG2	46:BN:4:TYR:H	2.27	0.40
46:BN:39:ARG:C	46:BN:41:ASP:H	2.28	0.40
46:BN:128:HIS:O	46:BN:130:HIS:N	2.54	0.40
47:BO:104:ARG:C	47:BO:106:LEU:H	2.29	0.40
48:BP:12:ALA:CB	48:BP:16:ARG:HB3	2.50	0.40
48:BP:121:LYS:HB2	48:BP:123:LEU:HD21	2.03	0.40
49:BQ:70:PRO:CA	49:BQ:95:ALA:HB2	2.51	0.40
50:BR:79:LEU:HD22	50:BR:83:ILE:HB	2.01	0.40
53:BU:95:LEU:HD13	54:BV:4:ILE:CG2	2.48	0.40
58:BZ:56:VAL:HG13	58:BZ:69:THR:O	2.21	0.40
1:CA:160:A:H1'	1:CA:344:A:C4	2.57	0.40
1:CA:439:A:H2'	1:CA:441:A:C5'	2.51	0.40
1:CA:476:G:H2'	1:CA:477:A:C8	2.56	0.40
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.36	0.40
1:CA:707:C:H2'	1:CA:708:C:C6	2.55	0.40
1:CA:740:U:O2'	1:CA:741:G:C5'	2.68	0.40
1:CA:933:G:OP2	7:CG:3:ARG:HB3	2.21	0.40
1:CA:1121:U:O2'	1:CA:1122:U:H5'	2.22	0.40
1:CA:1359:C:OP2	14:CN:22:THR:HG21	2.21	0.40
1:CA:1370:G:C2	1:CA:1371:G:N7	2.89	0.40
2:CB:130:ARG:HA	2:CB:131:PRO:HD2	1.84	0.40
4:CD:53:ASP:O	4:CD:57:ARG:HD2	2.21	0.40
12:CL:28:LYS:HE2	12:CL:33:ARG:CZ	2.51	0.40
15:CO:78:TYR:O	15:CO:79:ARG:C	2.63	0.40
17:CQ:45:HIS:HB2	17:CQ:65:ILE:CD1	2.51	0.40
17:CQ:53:LEU:HD23	17:CQ:54:GLY:N	2.35	0.40
24:CY:86:GLY:O	24:CY:88:VAL:N	2.54	0.40
24:CY:92:ILE:C	24:CY:94:VAL:H	2.28	0.40
24:CY:168:ILE:HD12	24:CY:176:GLY:CA	2.45	0.40
24:CY:219:VAL:HA	24:CY:222:ASP:OD2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:227:ILE:HD13	24:CY:242:LEU:HD23	2.03	0.40
24:CY:369:LEU:N	24:CY:369:LEU:CD1	2.84	0.40
24:CY:430:ARG:C	24:CY:432:ALA:H	2.29	0.40
24:CY:530:VAL:CG1	24:CY:533:VAL:CG2	2.99	0.40
24:CY:689:LYS:CG	24:CY:690:GLY:N	2.84	0.40
27:D2:67:LYS:O	27:D2:68:ARG:C	2.65	0.40
35:DA:13:A:H1'	35:DA:15:G:N7	2.36	0.40
35:DA:483:A:H3'	35:DA:484:C:H6	1.86	0.40
35:DA:545:C:C3'	35:DA:547:A:C5'	2.95	0.40
35:DA:646:A:H2'	35:DA:647:G:O4'	2.21	0.40
35:DA:654(S):G:H3'	35:DA:654(T):C:C4'	2.51	0.40
35:DA:695:G:N2	35:DA:696:G:H1'	2.36	0.40
35:DA:1042:G:C6	35:DA:1114:G:N1	2.89	0.40
35:DA:1061:U:H4'	35:DA:1070:A:C1'	2.45	0.40
35:DA:1061:U:H5''	35:DA:1062:G:OP2	2.20	0.40
35:DA:1328:G:H2'	35:DA:1330:C:C5	2.56	0.40
35:DA:1590:U:H2'	35:DA:1591:G:C8	2.56	0.40
35:DA:1640:C:H2'	35:DA:1641:A:O4'	2.21	0.40
35:DA:1669:A:O3'	35:DA:2549:G:H5'	2.22	0.40
35:DA:1788:C:H2'	35:DA:1789:A:C8	2.55	0.40
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.56	0.40
35:DA:1999:C:H4'	35:DA:2723:C:O2	2.20	0.40
35:DA:2488:A:H2'	35:DA:2489:G:C8	2.57	0.40
35:DA:2652:C:C4	35:DA:2653:U:C4	3.09	0.40
37:DC:11:LEU:O	37:DC:12:LEU:C	2.64	0.40
37:DC:132:LEU:O	37:DC:138:LEU:N	2.48	0.40
39:DE:168:MET:CE	39:DE:202:LYS:HE2	2.51	0.40
40:DF:139:PHE:O	40:DF:140:LEU:C	2.64	0.40
41:DG:11:TYR:OH	41:DG:33:ARG:CB	2.69	0.40
41:DG:105:LYS:H	41:DG:105:LYS:HG3	1.49	0.40
42:DH:141:VAL:C	42:DH:143:GLN:N	2.79	0.40
43:DJ:37:UNK:O	43:DJ:39:UNK:N	2.54	0.40
43:DJ:58:UNK:O	43:DJ:61:UNK:N	2.53	0.40
44:DK:18:THR:C	44:DK:20:ALA:N	2.75	0.40
44:DK:27:LEU:HA	44:DK:30:HIS:HB2	2.02	0.40
44:DK:93:ARG:HD2	44:DK:93:ARG:O	2.20	0.40
46:DN:13:TRP:O	46:DN:135:PRO:HD2	2.21	0.40
46:DN:35:ARG:HB3	46:DN:42:TRP:CZ3	2.56	0.40
47:DO:64:ARG:NH1	47:DO:83:ALA:CB	2.83	0.40
47:DO:119:PRO:HB2	52:DT:68:TYR:CE2	2.56	0.40
48:DP:50:ARG:HG3	48:DP:51:PHE:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:81:GLN:HE21	48:DP:81:GLN:HB2	1.67	0.40
48:DP:121:LYS:C	48:DP:123:LEU:HD23	2.46	0.40
50:DR:3:HIS:O	50:DR:4:LEU:CB	2.69	0.40
50:DR:28:LEU:HA	50:DR:34:ILE:CG1	2.51	0.40
52:DT:55:ASN:HD22	52:DT:58:ASN:HD21	1.66	0.40
54:DV:35:LEU:HB2	54:DV:57:VAL:HG12	2.03	0.40
55:DW:5:ALA:HB2	55:DW:54:ALA:CB	2.39	0.40
55:DW:6:ILE:HA	55:DW:103:ILE:O	2.21	0.40
56:DX:29:TRP:CZ3	56:DX:76:ARG:HB2	2.55	0.40
56:DX:84:ALA:O	56:DX:85:PRO:C	2.64	0.40
58:DZ:110:GLY:HA2	58:DZ:145:GLU:OE1	2.21	0.40
1:AA:50:A:N6	1:AA:361:G:C4'	2.79	0.40
1:AA:313:A:H2'	1:AA:314:C:C6	2.56	0.40
1:AA:427:U:C4	1:AA:428:G:C6	3.09	0.40
1:AA:532:A:O2'	1:AA:533:A:P	2.78	0.40
1:AA:538:G:H2'	1:AA:539:A:C8	2.56	0.40
1:AA:556:C:O2'	1:AA:557:G:H5'	2.21	0.40
1:AA:597:G:H1'	1:AA:644:G:N2	2.37	0.40
1:AA:902:G:H2'	1:AA:903:G:H8	1.86	0.40
1:AA:955:U:H2'	1:AA:956:U:C6	2.56	0.40
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.36	0.40
1:AA:1351:U:O2'	1:AA:1352:C:H5'	2.22	0.40
2:AB:55:PHE:HD1	2:AB:221:LEU:HG	1.86	0.40
3:AC:124:ILE:O	3:AC:124:ILE:HG22	2.21	0.40
4:AD:36:ARG:CG	4:AD:36:ARG:NH1	2.83	0.40
4:AD:53:ASP:O	4:AD:57:ARG:HD2	2.22	0.40
4:AD:58:LEU:HD23	4:AD:62:GLN:HG2	2.03	0.40
4:AD:62:GLN:O	4:AD:66:ARG:HD2	2.21	0.40
5:AE:79:GLU:HB3	5:AE:93:PRO:CD	2.52	0.40
7:AG:80:VAL:CG2	7:AG:81:GLY:N	2.80	0.40
9:AI:93:ARG:C	9:AI:95:LYS:N	2.74	0.40
10:AJ:50:ILE:HD11	14:AN:41:ARG:CZ	2.51	0.40
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	2.03	0.40
13:AM:16:ASP:HB3	13:AM:41:PRO:HB3	2.03	0.40
16:AP:9:PHE:HE2	16:AP:18:ARG:NE	2.19	0.40
17:AQ:10:VAL:HG13	17:AQ:19:VAL:HB	2.03	0.40
19:AS:45:VAL:O	19:AS:47:HIS:N	2.51	0.40
20:AT:44:ALA:HA	20:AT:92:LEU:HD21	2.02	0.40
24:AY:20:HIS:CE1	24:AY:21:ILE:HG12	2.57	0.40
24:AY:238:THR:HG22	24:AY:241:GLU:H	1.83	0.40
24:AY:286:ILE:HG23	24:AY:287:PRO:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:420:ASP:HB3	24:AY:472:VAL:HG13	2.02	0.40
24:AY:486:THR:CG2	24:AY:600:VAL:HG13	2.50	0.40
25:B0:20:ARG:CG	25:B0:20:ARG:NH1	2.84	0.40
26:B1:53:VAL:HG12	26:B1:54:ALA:N	2.36	0.40
26:B1:85:LEU:C	26:B1:87:PRO:HD2	2.46	0.40
27:B2:57:ILE:HG22	27:B2:61:LEU:CD1	2.51	0.40
28:B3:4:LEU:HD23	28:B3:58:VAL:HA	2.02	0.40
28:B3:50:VAL:O	28:B3:51:ALA:C	2.64	0.40
30:B5:25:LEU:HD12	55:BW:19:LEU:C	2.47	0.40
31:B6:12:GLU:HG2	31:B6:23:THR:CG2	2.52	0.40
33:B8:38:GLY:O	33:B8:39:LYS:C	2.64	0.40
35:BA:594:U:H2'	35:BA:595:C:C6	2.56	0.40
35:BA:1061:U:H4'	35:BA:1070:A:C1'	2.45	0.40
35:BA:1062:G:H22	35:BA:1077:A:H1'	1.86	0.40
35:BA:1342:A:O2'	35:BA:1344:G:OP2	2.32	0.40
35:BA:1345:C:C2'	35:BA:1346:G:H5'	2.50	0.40
35:BA:1499:C:H2'	35:BA:1500:G:O4'	2.21	0.40
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.84	0.40
35:BA:1664:A:OP1	35:BA:1665:A:OP2	2.39	0.40
35:BA:2031:A:N3	35:BA:2455:G:O2'	2.53	0.40
35:BA:2122:U:O2'	37:BC:173:HIS:HD2	2.04	0.40
35:BA:2577:A:C5'	35:BA:2578:G:C5'	2.99	0.40
37:BC:84:ILE:HG23	37:BC:95:VAL:HG12	2.02	0.40
40:BF:68:LYS:HG3	40:BF:69:HIS:CD2	2.55	0.40
42:BH:87:LEU:HD22	42:BH:163:TYR:O	2.21	0.40
44:BK:52:ILE:HG22	44:BK:53:VAL:N	2.37	0.40
46:BN:18:ALA:O	46:BN:19:GLU:C	2.64	0.40
48:BP:17:LYS:C	48:BP:19:VAL:N	2.77	0.40
48:BP:56:SER:O	48:BP:58:THR:N	2.54	0.40
48:BP:81:GLN:HG2	48:BP:106:LEU:HA	2.02	0.40
48:BP:100:LEU:N	48:BP:100:LEU:CD2	2.84	0.40
48:BP:107:LYS:HB2	48:BP:107:LYS:HE3	1.79	0.40
51:BS:102:ALA:O	51:BS:103:GLU:C	2.64	0.40
53:BU:57:PHE:O	53:BU:59:ARG:N	2.54	0.40
57:BY:18:GLY:O	57:BY:21:LYS:HB2	2.21	0.40
57:BY:90:LEU:HB2	57:BY:91:GLU:OE2	2.20	0.40
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HB2	2.56	0.40
58:BZ:109:ALA:HB3	58:BZ:144:LEU:O	2.21	0.40
1:CA:203:U:C4'	1:CA:204:U:OP1	2.70	0.40
1:CA:244:U:C6	1:CA:894:G:C2	3.09	0.40
1:CA:793:U:C3'	1:CA:794:A:C5'	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1054:C:OP1	1:CA:1198:G:OP2	2.39	0.40
1:CA:1329:A:C2'	1:CA:1330:U:H5'	2.51	0.40
1:CA:1339:A:H2'	1:CA:1340:A:O4'	2.21	0.40
1:CA:1397:C:H3'	1:CA:1397:C:H6	1.87	0.40
2:CB:32:ILE:O	2:CB:32:ILE:HG23	2.20	0.40
2:CB:39:ILE:HG22	2:CB:41:ILE:HD12	2.02	0.40
4:CD:65:ARG:HD3	4:CD:75:PHE:CD2	2.55	0.40
7:CG:38:LEU:O	7:CG:38:LEU:HD12	2.22	0.40
9:CI:56:LEU:HD23	9:CI:56:LEU:O	2.21	0.40
12:CL:61:THR:C	12:CL:63:GLY:H	2.29	0.40
14:CN:23:ARG:CD	14:CN:28:GLY:O	2.65	0.40
15:CO:82:ILE:HD13	15:CO:82:ILE:O	2.22	0.40
19:CS:58:VAL:O	19:CS:60:VAL:HG12	2.21	0.40
24:CY:9:LEU:HD23	24:CY:9:LEU:C	2.44	0.40
24:CY:128:TYR:HE2	24:CY:130:VAL:HG23	1.83	0.40
24:CY:265:LYS:C	24:CY:267:LYS:N	2.79	0.40
24:CY:637:ARG:HG3	24:CY:642:VAL:CG2	2.51	0.40
27:D2:54:LYS:C	27:D2:56:GLN:N	2.79	0.40
28:D3:59:VAL:CG1	28:D3:60:GLU:N	2.81	0.40
29:D4:6:HIS:HB3	29:D4:7:PRO:CD	2.51	0.40
29:D4:14:ILE:HG23	29:D4:31:ILE:HG22	2.03	0.40
29:D4:49:PHE:O	29:D4:50:VAL:O	2.40	0.40
35:DA:271(P):C:H2'	35:DA:271(Q):G:O4'	2.20	0.40
35:DA:511:U:C5	35:DA:512:G:C4	3.10	0.40
35:DA:805:G:H5'	35:DA:806:C:C5	2.56	0.40
35:DA:1320:C:H2'	35:DA:1329:U:OP2	2.21	0.40
35:DA:1529:G:C6	35:DA:1541:G:N1	2.89	0.40
35:DA:1741:A:H2'	35:DA:1742:G:O4'	2.20	0.40
35:DA:1856:G:H1	35:DA:1886:C:H42	1.68	0.40
35:DA:1907:G:C6	35:DA:1908:C:C4	3.09	0.40
35:DA:2033:A:H2'	35:DA:2035:G:OP2	2.21	0.40
35:DA:2202:C:H2'	38:DD:151:LYS:HZ3	1.86	0.40
35:DA:2285:C:H5'	35:DA:2288:A:N6	2.36	0.40
35:DA:2822:G:OP2	39:DE:110:GLY:O	2.39	0.40
36:DB:73:A:C8	36:DB:74:U:C5	3.09	0.40
36:DB:115:G:H2'	36:DB:116:G:C8	2.53	0.40
38:DD:27:THR:CG2	38:DD:27:THR:O	2.70	0.40
39:DE:51:PHE:C	39:DE:74:PRO:CB	2.94	0.40
39:DE:95:ILE:H	39:DE:95:ILE:CD1	2.32	0.40
39:DE:165:VAL:HB	39:DE:189:PRO:CB	2.52	0.40
40:DF:182:ASN:ND2	40:DF:185:ASP:OD2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:71:THR:HG23	41:DG:89:GLY:HA3	2.03	0.40
44:DK:77:LEU:N	44:DK:77:LEU:CD2	2.77	0.40
45:DL:112:UNK:O	45:DL:117:UNK:CB	2.69	0.40
46:DN:91:LEU:O	46:DN:95:PRO:HB3	2.22	0.40
48:DP:38:GLN:CG	48:DP:39:LYS:H	2.04	0.40
48:DP:101:VAL:HG23	48:DP:102:ARG:N	2.36	0.40
49:DQ:75:THR:CG2	49:DQ:76:LYS:H	2.34	0.40
51:DS:97:ARG:HE	51:DS:97:ARG:CA	2.34	0.40
52:DT:89:VAL:CB	52:DT:91:ARG:HG3	2.50	0.40
53:DU:75:ASN:ND2	53:DU:77:SER:OG	2.54	0.40
55:DW:62:HIS:O	55:DW:63:ASP:O	2.39	0.40
57:DY:97:ARG:O	57:DY:98:VAL:HB	2.21	0.40
58:DZ:42:VAL:CG1	58:DZ:43:GLU:N	2.83	0.40
58:DZ:142:SER:C	58:DZ:144:LEU:H	2.29	0.40
58:DZ:157:LEU:O	58:DZ:158:PRO:O	2.39	0.40
1:AA:186:C:H2'	1:AA:187:C:C6	2.56	0.40
1:AA:238:G:P	17:AQ:25:ARG:HH22	2.44	0.40
1:AA:363:A:H5'	12:AL:34:ARG:HB2	2.02	0.40
1:AA:894:G:H2'	1:AA:895:G:O4'	2.22	0.40
1:AA:946:A:H3'	1:AA:947:G:C8	2.56	0.40
1:AA:1002:G:H3'	1:AA:1003:G:C8	2.56	0.40
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.21	0.40
1:AA:1319:A:OP1	19:AS:10:PHE:CZ	2.73	0.40
2:AB:21:ARG:HB3	2:AB:39:ILE:HG12	2.02	0.40
2:AB:95:GLN:OE1	2:AB:95:GLN:HA	2.22	0.40
2:AB:152:PHE:HD1	2:AB:152:PHE:O	2.04	0.40
2:AB:176:GLU:O	2:AB:177:ALA:C	2.63	0.40
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.19	0.40
3:AC:90:GLU:CD	3:AC:93:LYS:HD2	2.45	0.40
3:AC:134:ILE:O	3:AC:136:GLN:N	2.54	0.40
4:AD:4:TYR:CG	4:AD:5:ILE:N	2.86	0.40
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.49	0.40
5:AE:78:HIS:HE1	5:AE:80:ILE:CG2	2.34	0.40
6:AF:29:ALA:C	6:AF:31:GLU:N	2.79	0.40
7:AG:82:GLY:CA	23:AX:13:A:H2	2.32	0.40
8:AH:6:ILE:HD12	8:AH:6:ILE:H	1.81	0.40
10:AJ:79:ARG:NH1	10:AJ:79:ARG:HG2	2.36	0.40
10:AJ:98:ILE:O	10:AJ:98:ILE:CG2	2.66	0.40
13:AM:57:ARG:C	13:AM:59:TYR:N	2.79	0.40
13:AM:117:VAL:O	13:AM:118:ALA:O	2.38	0.40
16:AP:6:LEU:HA	16:AP:6:LEU:HD12	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:77:A:H61	35:BA:2422:A:H5''	1.86	0.40
24:AY:487:ILE:HB	24:AY:597:GLY:O	2.21	0.40
27:B2:31:GLU:O	27:B2:35:LEU:N	2.46	0.40
28:B3:22:ALA:CA	28:B3:46:ASN:HD22	2.34	0.40
29:B4:6:HIS:HB3	29:B4:7:PRO:CD	2.51	0.40
29:B4:16:CYS:HB3	29:B4:20:ASN:O	2.21	0.40
33:B8:48:PHE:C	33:B8:49:VAL:CG2	2.92	0.40
34:B9:10:ILE:H	34:B9:10:ILE:HG13	1.74	0.40
35:BA:205:G:HO2'	35:BA:206:U:P	2.42	0.40
35:BA:216:A:C4	35:BA:432:A:C2	3.10	0.40
35:BA:260:G:C1'	35:BA:621:A:H1'	2.52	0.40
35:BA:272(J):C:N4	35:BA:363:G:H22	2.20	0.40
35:BA:321:G:N2	35:BA:341:G:H5''	2.36	0.40
35:BA:341:G:H2'	35:BA:342:G:C8	2.56	0.40
35:BA:461:C:N4	35:BA:469:G:N2	2.69	0.40
35:BA:511:U:H5	35:BA:512:G:C5	2.39	0.40
35:BA:523:C:H3'	35:BA:523:C:H6	1.87	0.40
35:BA:654(L):G:C2'	35:BA:654(M):C:H4'	2.51	0.40
35:BA:654(O):G:H2'	35:BA:654(P):C:C5	2.56	0.40
35:BA:700:G:H2'	35:BA:701:G:H8	1.85	0.40
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.56	0.40
35:BA:746:A:H2'	35:BA:2612:C:H5''	2.03	0.40
35:BA:887:A:H2'	35:BA:887:A:N3	2.37	0.40
35:BA:1053:C:H2'	35:BA:1054:A:O4'	2.22	0.40
35:BA:1073:A:H2'	35:BA:1074:G:H5'	2.02	0.40
35:BA:1131:G:OP1	46:BN:80:GLY:N	2.49	0.40
35:BA:1175:U:P	35:BA:1176:G:H5''	2.61	0.40
35:BA:1917:U:H2'	35:BA:1918:A:C5'	2.51	0.40
35:BA:2026:C:C4	35:BA:2027:G:C8	3.09	0.40
35:BA:2741:A:H2'	35:BA:2742:C:O4'	2.22	0.40
35:BA:2841:C:O2'	35:BA:2842:G:H5'	2.21	0.40
35:BA:2850:A:H2	50:BR:61:HIS:CD2	2.39	0.40
37:BC:37:LYS:O	37:BC:38:PHE:HB3	2.21	0.40
38:BD:97:TYR:C	38:BD:99:ASP:N	2.78	0.40
39:BE:28:ALA:CB	39:BE:93:VAL:HG22	2.51	0.40
40:BF:63:LYS:HA	40:BF:76:GLY:O	2.21	0.40
40:BF:160:ASN:CG	40:BF:163:VAL:HG23	2.45	0.40
41:BG:71:THR:HG23	41:BG:90:LEU:CA	2.51	0.40
42:BH:46:GLU:HG3	42:BH:51:ARG:CB	2.51	0.40
42:BH:124:GLU:HB2	42:BH:132:ARG:CG	2.49	0.40
44:BK:104:VAL:CG2	44:BK:127:ILE:HB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:103:VAL:O	46:BN:104:LYS:C	2.62	0.40
48:BP:6:LEU:HG	48:BP:7:ARG:H	1.84	0.40
48:BP:119:GLU:OE1	48:BP:119:GLU:CA	2.69	0.40
49:BQ:68:ILE:CG2	49:BQ:103:MET:HA	2.52	0.40
50:BR:82:GLU:C	50:BR:84:ALA:H	2.29	0.40
51:BS:66:ALA:O	51:BS:99:LYS:HD3	2.21	0.40
51:BS:74:ALA:HB2	51:BS:101:LEU:HD21	2.03	0.40
52:BT:28:VAL:HG22	52:BT:46:GLU:C	2.46	0.40
52:BT:55:ASN:O	52:BT:55:ASN:ND2	2.55	0.40
55:BW:62:HIS:O	55:BW:63:ASP:O	2.39	0.40
56:BX:14:SER:O	56:BX:15:GLU:C	2.63	0.40
57:BY:30:VAL:HG12	57:BY:31:LEU:N	2.37	0.40
58:BZ:175:VAL:HB	58:BZ:176:PRO:CD	2.52	0.40
1:CA:321:A:C2	1:CA:333:G:C2	3.09	0.40
1:CA:841:U:H3'	1:CA:848:C:O4'	2.21	0.40
1:CA:908:A:O2'	1:CA:909:A:H5'	2.22	0.40
1:CA:1053:G:C4	1:CA:1199:U:C5	3.09	0.40
1:CA:1217:C:H5'	14:CN:9:LYS:HZ3	1.86	0.40
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.21	0.40
1:CA:1511:G:H8	1:CA:1511:G:O5'	2.03	0.40
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.74	0.40
3:CC:149:ALA:HA	3:CC:201:TYR:O	2.22	0.40
7:CG:62:PHE:O	7:CG:63:LYS:C	2.65	0.40
7:CG:82:GLY:CA	23:CX:13:A:H2	2.33	0.40
8:CH:26:VAL:HG23	8:CH:27:PRO:HD2	2.02	0.40
8:CH:107:LEU:HA	8:CH:107:LEU:HD23	1.88	0.40
11:CK:99:GLN:HG2	11:CK:105:VAL:HG21	2.03	0.40
13:CM:66:LEU:O	13:CM:67:GLU:C	2.64	0.40
15:CO:33:THR:HG23	15:CO:63:ARG:HH12	1.86	0.40
20:CT:64:ASP:OD1	20:CT:81:LYS:HD2	2.21	0.40
22:CV:4:G:O2'	22:CV:5:G:H8	2.03	0.40
24:CY:309:LEU:O	24:CY:390:VAL:HA	2.21	0.40
24:CY:448:GLN:HE22	24:CY:480:GLN:NE2	2.18	0.40
24:CY:507:TYR:O	24:CY:577:SER:HA	2.21	0.40
26:D1:30:VAL:CG2	26:D1:31:GLY:N	2.76	0.40
31:D6:5:VAL:CG2	35:DA:2283:C:OP1	2.70	0.40
33:D8:25:MET:HB2	48:DP:62:LEU:HD21	2.04	0.40
35:DA:665:C:H6	35:DA:665:C:O5'	2.05	0.40
35:DA:827:U:H4'	35:DA:828:U:O2	2.21	0.40
35:DA:854:G:H1	35:DA:923:C:H42	1.70	0.40
35:DA:915:C:H2'	35:DA:916:G:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:979:G:H2'	35:DA:982:C:H41	1.87	0.40
35:DA:1051:G:C4	35:DA:1052:C:N4	2.89	0.40
35:DA:1226:A:H2'	35:DA:1227:G:H5'	2.04	0.40
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.51	0.40
35:DA:1398:C:H2'	35:DA:1399:C:C6	2.55	0.40
35:DA:1993:U:C5'	39:DE:128:SER:HB3	2.52	0.40
35:DA:2076:U:C5	35:DA:2596:U:C2	3.08	0.40
35:DA:2097:C:HO2'	35:DA:2098:U:H5'	1.85	0.40
35:DA:2354:G:H2'	35:DA:2355:C:H6	1.86	0.40
37:DC:3:LYS:HD3	37:DC:3:LYS:O	2.21	0.40
37:DC:30:VAL:O	37:DC:31:LYS:C	2.64	0.40
37:DC:30:VAL:HG11	37:DC:42:VAL:HG13	2.04	0.40
37:DC:181:PHE:HA	37:DC:182:PRO:HD3	1.84	0.40
38:DD:165:ILE:HD13	38:DD:175:LEU:CD2	2.51	0.40
39:DE:96:PHE:O	39:DE:175:VAL:HG11	2.21	0.40
40:DF:118:ALA:HA	40:DF:123:LEU:HB3	2.03	0.40
41:DG:5:VAL:CB	41:DG:8:LYS:HB2	2.43	0.40
41:DG:47:LYS:HB3	41:DG:48:GLU:H	1.69	0.40
42:DH:41:MET:HG3	42:DH:42:ARG:N	2.36	0.40
44:DK:5:VAL:HA	44:DK:59:ILE:HG23	2.02	0.40
47:DO:104:ARG:CZ	52:DT:33:LYS:HD2	2.50	0.40
49:DQ:26:TYR:CD1	49:DQ:140:ALA:HB3	2.57	0.40
49:DQ:52:VAL:O	49:DQ:53:ALA:C	2.63	0.40
49:DQ:134:ARG:C	49:DQ:137:TYR:CD1	3.00	0.40
50:DR:11:ASN:CG	50:DR:12:ARG:N	2.79	0.40
52:DT:30:VAL:HG22	52:DT:84:GLN:O	2.22	0.40
52:DT:32:TYR:O	52:DT:33:LYS:HB2	2.22	0.40
54:DV:38:LEU:HD12	54:DV:56:SER:CA	2.51	0.40
54:DV:39:LEU:HD13	54:DV:51:VAL:HA	2.01	0.40
57:DY:87:LYS:HE2	57:DY:87:LYS:HB3	1.90	0.40
58:DZ:10:ARG:HD2	58:DZ:36:LYS:HB3	2.04	0.40
58:DZ:34:ASN:O	58:DZ:35:ARG:HG2	2.21	0.40
1:AA:157:G:C2	1:AA:165:C:C2	3.08	0.40
1:AA:532:A:C2'	1:AA:533:A:OP1	2.69	0.40
1:AA:631:G:H5'	1:AA:631:G:C8	2.52	0.40
1:AA:671:G:N2	1:AA:736:C:C2	2.89	0.40
1:AA:1094:G:HO2'	1:AA:1095:U:P	2.45	0.40
1:AA:1157:A:C1'	1:AA:1181:G:H21	2.35	0.40
1:AA:1423:G:OP1	47:BO:49:ARG:NH2	2.55	0.40
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.57	0.40
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:9:GLY:HA2	3:AC:12:LEU:HG	2.03	0.40
3:AC:63:ASN:O	3:AC:63:ASN:CG	2.65	0.40
5:AE:6:PHE:HB3	5:AE:35:GLY:C	2.46	0.40
5:AE:149:GLU:O	5:AE:153:LYS:HE2	2.21	0.40
7:AG:46:ALA:O	7:AG:49:ILE:N	2.55	0.40
7:AG:120:ILE:O	7:AG:124:LEU:HB2	2.21	0.40
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.35	0.40
9:AI:114:TYR:N	9:AI:114:TYR:HD2	2.20	0.40
11:AK:41:THR:O	11:AK:41:THR:HG23	2.21	0.40
12:AL:60:LEU:N	12:AL:60:LEU:CD2	2.83	0.40
13:AM:64:TRP:N	13:AM:64:TRP:CD1	2.88	0.40
13:AM:77:ASN:O	13:AM:78:ILE:C	2.65	0.40
14:AN:24:CYS:SG	14:AN:39:LEU:HA	2.61	0.40
16:AP:14:ASN:O	16:AP:14:ASN:CG	2.61	0.40
16:AP:74:LEU:O	16:AP:77:ALA:HB3	2.22	0.40
18:AR:36:ASN:O	18:AR:39:VAL:HG23	2.22	0.40
22:AW:6:G:H2'	22:AW:7:G:O4'	2.21	0.40
24:AY:78:ARG:HG3	24:AY:78:ARG:HH11	1.87	0.40
24:AY:496:LYS:HA	24:AY:509:HIS:HB2	2.04	0.40
24:AY:590:ILE:O	24:AY:592:GLU:N	2.53	0.40
61:AY:702:FUA:H212	61:AY:702:FUA:H72	1.88	0.40
26:B1:53:VAL:CG1	26:B1:54:ALA:N	2.83	0.40
27:B2:38:GLN:NE2	27:B2:44:LEU:HB2	2.36	0.40
28:B3:22:ALA:HA	28:B3:46:ASN:HD22	1.86	0.40
30:B5:13:LYS:NZ	35:BA:517:C:OP2	2.52	0.40
31:B6:8:LYS:O	31:B6:9:LEU:O	2.39	0.40
31:B6:27:LYS:HB3	31:B6:30:THR:CG2	2.51	0.40
35:BA:13:A:H1'	35:BA:15:G:N7	2.37	0.40
35:BA:266:G:O6	35:BA:267:C:C4	2.75	0.40
35:BA:307:G:N2	35:BA:310:A:O5'	2.55	0.40
35:BA:311:A:O4'	35:BA:332:A:C4	2.74	0.40
35:BA:332:A:C6	35:BA:335:C:C2	3.10	0.40
35:BA:613:G:C2	35:BA:615:G:C5	3.09	0.40
35:BA:752:A:H4'	35:BA:753:C:O5'	2.22	0.40
35:BA:1024:G:OP2	35:BA:1026:U:OP1	2.38	0.40
35:BA:1156:A:O2'	35:BA:1157:G:P	2.80	0.40
35:BA:1334:G:O3'	56:BX:65:ARG:NH2	2.55	0.40
35:BA:1568:G:H4'	38:BD:59:LYS:HB3	2.04	0.40
35:BA:1680:U:C2'	35:BA:1681:G:H5'	2.51	0.40
35:BA:1819:A:O2'	35:BA:1820:U:OP2	2.33	0.40
35:BA:2174:C:O2'	35:BA:2175:C:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2193:G:O2'	35:BA:2194:G:H5'	2.22	0.40
35:BA:2412:A:N6	35:BA:2413:G:C2	2.89	0.40
35:BA:2422:A:H3'	35:BA:2422:A:C8	2.57	0.40
35:BA:2582:G:N3	35:BA:2582:G:H2'	2.35	0.40
35:BA:2653:U:O2'	42:BH:110:SER:CB	2.69	0.40
37:BC:29:LEU:O	37:BC:32:GLU:N	2.43	0.40
37:BC:100:ILE:O	37:BC:102:GLN:N	2.54	0.40
37:BC:102:GLN:O	37:BC:103:LYS:C	2.63	0.40
37:BC:154:ILE:HA	37:BC:157:ILE:HD12	2.03	0.40
39:BE:16:ARG:O	39:BE:18:ASP:N	2.55	0.40
39:BE:167:VAL:HG22	39:BE:170:LEU:HD11	2.02	0.40
40:BF:10:PRO:CG	40:BF:13:SER:OG	2.69	0.40
41:BG:41:GLN:NE2	41:BG:60:LEU:HD21	2.37	0.40
41:BG:119:GLY:CA	41:BG:181:ARG:H	2.35	0.40
41:BG:139:LEU:HA	41:BG:144:ILE:HD13	2.04	0.40
42:BH:83:TYR:CB	42:BH:135:GLY:H	2.27	0.40
44:BK:57:ILE:H	44:BK:57:ILE:CD1	2.30	0.40
44:BK:61:ALA:O	44:BK:63:ARG:N	2.55	0.40
46:BN:55:VAL:CG2	46:BN:127:ASP:N	2.83	0.40
46:BN:94:HIS:HA	46:BN:96:GLU:OE1	2.21	0.40
52:BT:19:LEU:HA	52:BT:20:PRO:HD3	1.80	0.40
53:BU:99:ALA:HB2	53:BU:106:PHE:CZ	2.56	0.40
57:BY:28:LYS:O	57:BY:29:GLU:C	2.64	0.40
57:BY:87:LYS:O	57:BY:88:LYS:HB2	2.20	0.40
58:BZ:67:LEU:HD23	58:BZ:90:VAL:CG1	2.51	0.40
1:CA:109:A:C6	1:CA:326:G:C6	3.08	0.40
1:CA:315:A:O2'	1:CA:316:G:P	2.79	0.40
1:CA:625:G:C4	1:CA:626:U:C5	3.09	0.40
1:CA:725:G:O2'	1:CA:726:C:H5'	2.21	0.40
1:CA:778:G:H1'	11:CK:119:CYS:HB3	2.03	0.40
1:CA:975:A:H4'	1:CA:976:G:C5'	2.33	0.40
1:CA:1228:C:C5	1:CA:1229:A:N7	2.90	0.40
1:CA:1342:C:H1'	9:CI:124:GLN:CG	2.52	0.40
2:CB:17:PHE:CD2	2:CB:17:PHE:C	2.99	0.40
2:CB:58:ILE:O	2:CB:61:LEU:N	2.47	0.40
4:CD:61:LYS:HG3	4:CD:203:VAL:HG13	2.02	0.40
4:CD:192:GLU:C	4:CD:194:LEU:N	2.79	0.40
5:CE:81:GLU:HA	5:CE:89:ILE:O	2.21	0.40
8:CH:35:ILE:HG22	8:CH:39:LEU:CD2	2.51	0.40
9:CI:43:ALA:C	9:CI:45:ALA:N	2.80	0.40
11:CK:34:ASP:HB2	11:CK:35:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:17:LYS:CD	12:CL:18:VAL:HG22	2.47	0.40
13:CM:68:GLY:O	13:CM:70:LEU:N	2.52	0.40
13:CM:77:ASN:O	13:CM:78:ILE:C	2.63	0.40
18:CR:63:GLN:OE1	18:CR:63:GLN:HA	2.21	0.40
21:CU:13:ILE:C	21:CU:15:ARG:N	2.77	0.40
24:CY:35:TYR:HB2	24:CY:273:LEU:HD11	2.04	0.40
24:CY:122:TRP:O	24:CY:124:GLN:N	2.55	0.40
24:CY:137:ASN:C	24:CY:139:MET:H	2.20	0.40
24:CY:141:LYS:O	24:CY:144:ALA:CB	2.69	0.40
24:CY:171:GLU:HG3	24:CY:172:ASP:N	2.37	0.40
24:CY:314:PHE:C	24:CY:314:PHE:CD1	2.99	0.40
25:D0:24:LYS:HA	25:D0:24:LYS:HD3	1.93	0.40
26:D1:17:SER:HB3	26:D1:38:SER:OG	2.22	0.40
26:D1:43:TYR:N	26:D1:43:TYR:CD1	2.89	0.40
27:D2:24:LEU:HD13	27:D2:60:LEU:HD21	2.02	0.40
31:D6:8:LYS:HA	31:D6:27:LYS:HA	2.02	0.40
31:D6:11:LEU:HA	31:D6:54:ILE:O	2.22	0.40
33:D8:32:LEU:HB2	33:D8:36:LYS:HD2	2.03	0.40
33:D8:58:ILE:CG2	48:DP:49:ARG:HD3	2.52	0.40
35:DA:204:A:OP1	35:DA:204:A:H8	2.04	0.40
35:DA:206:U:O2	35:DA:206:U:C2'	2.69	0.40
35:DA:272(J):C:H3'	35:DA:274:G:C5'	2.32	0.40
35:DA:332:A:O2'	35:DA:333:G:P	2.80	0.40
35:DA:654(O):G:H2'	35:DA:654(P):C:C5	2.56	0.40
35:DA:820:A:N3	35:DA:943:U:H4'	2.37	0.40
35:DA:883:G:N2	35:DA:894:C:C2	2.89	0.40
35:DA:1005:C:OP2	35:DA:1011:G:H2'	2.22	0.40
35:DA:1053:C:H2'	35:DA:1054:A:O4'	2.21	0.40
35:DA:1277:G:O2'	50:DR:24:GLN:HG2	2.20	0.40
35:DA:1314:C:H6	35:DA:1314:C:C5'	2.26	0.40
35:DA:1434:A:N3	35:DA:1434:A:H2'	2.36	0.40
35:DA:1608:A:C6	35:DA:1611:C:C2	3.09	0.40
35:DA:1789:A:H2'	35:DA:1790:C:O4'	2.21	0.40
35:DA:2012:G:O3'	55:DW:96:ILE:HG13	2.20	0.40
35:DA:2392:A:H2	35:DA:2424:C:N4	2.19	0.40
35:DA:2474:C:H5'	35:DA:2475:C:C5	2.56	0.40
35:DA:2693:A:C6	35:DA:2717:G:C6	3.09	0.40
35:DA:2880:C:H6	35:DA:2880:C:O5'	2.05	0.40
37:DC:16:ASP:HA	37:DC:17:PRO:HD2	1.86	0.40
37:DC:154:ILE:HA	37:DC:157:ILE:HD12	2.04	0.40
38:DD:35:LYS:HA	38:DD:64:ILE:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:92:ILE:HA	38:DD:107:ALA:H	1.87	0.40
38:DD:150:LYS:HA	38:DD:150:LYS:HD3	1.98	0.40
38:DD:226:MET:HB3	38:DD:230:ASP:CB	2.48	0.40
39:DE:31:CYS:HA	39:DE:32:PRO:HD3	1.82	0.40
39:DE:36:ARG:HH21	39:DE:88:GLY:N	2.20	0.40
39:DE:144:ARG:HB3	39:DE:145:LYS:H	1.57	0.40
40:DF:29:ASN:HB3	40:DF:32:LEU:HB3	2.03	0.40
41:DG:46:ALA:HA	41:DG:51:ARG:CB	2.51	0.40
42:DH:72:ILE:C	42:DH:74:ASN:N	2.79	0.40
43:DJ:123:UNK:O	43:DJ:124:UNK:C	2.69	0.40
44:DK:41:PHE:C	44:DK:43:ALA:N	2.77	0.40
47:DO:2:ILE:HD11	47:DO:82:ASN:ND2	2.33	0.40
47:DO:68:GLU:CB	47:DO:78:ARG:HB2	2.52	0.40
47:DO:68:GLU:OE2	47:DO:68:GLU:N	2.54	0.40
48:DP:13:ASN:O	48:DP:13:ASN:ND2	2.54	0.40
51:DS:17:ARG:C	51:DS:19:LYS:N	2.78	0.40
52:DT:78:LEU:HB3	52:DT:79:HIS:CE1	2.57	0.40
56:DX:8:ILE:CD1	56:DX:42:ALA:O	2.69	0.40
56:DX:39:ILE:O	56:DX:40:LYS:C	2.64	0.40
58:DZ:29:TYR:CB	58:DZ:34:ASN:HB2	2.36	0.40
58:DZ:120:ILE:O	58:DZ:121:HIS:HB2	2.20	0.40
1:AA:226:G:O2'	1:AA:227:G:H5'	2.22	0.40
1:AA:262:A:C6	1:AA:263:A:C6	3.09	0.40
1:AA:563:A:N7	1:AA:567:G:H1'	2.36	0.40
1:AA:707:C:H2'	1:AA:708:C:C6	2.57	0.40
1:AA:812:C:O2'	1:AA:813:U:OP2	2.20	0.40
1:AA:910:C:O2'	1:AA:911:U:H5'	2.22	0.40
1:AA:963:G:H21	10:AJ:55:LYS:HD2	1.86	0.40
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.51	0.40
1:AA:1296:C:O2'	1:AA:1302:U:C5	2.63	0.40
1:AA:1465:C:C2'	1:AA:1466:C:H5'	2.52	0.40
2:AB:212:GLN:OE1	2:AB:216:SER:HB2	2.22	0.40
4:AD:149:ALA:O	4:AD:153:ARG:HG3	2.22	0.40
5:AE:135:THR:O	5:AE:136:MET:C	2.64	0.40
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.51	0.40
7:AG:77:SER:OG	22:AW:33:C:O3'	2.40	0.40
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	2.03	0.40
10:AJ:67:THR:O	10:AJ:67:THR:HG22	2.21	0.40
16:AP:50:LYS:C	16:AP:51:VAL:HG23	2.46	0.40
24:AY:137:ASN:O	24:AY:262:SER:HA	2.21	0.40
24:AY:435:ASP:OD2	24:AY:437:THR:OG1	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:554:PRO:HG2	24:AY:555:LEU:HG	2.04	0.40
26:B1:12:PRO:HG3	35:BA:1365:A:H5'	2.04	0.40
27:B2:29:LYS:O	27:B2:32:LEU:N	2.55	0.40
30:B5:19:ARG:HA	35:BA:2046:G:H5''	2.01	0.40
35:BA:83:G:H22	35:BA:102:G:H2'	1.84	0.40
35:BA:121:G:N2	35:BA:122:G:H1'	2.36	0.40
35:BA:271(E):U:H2'	35:BA:271(F):C:H6	1.85	0.40
35:BA:319:C:P	40:BF:137:LYS:HZ3	2.44	0.40
35:BA:572:A:H2'	35:BA:573:G:O4'	2.22	0.40
35:BA:635:C:O2'	35:BA:639:U:OP1	2.38	0.40
35:BA:637:A:N6	35:BA:652:C:H4'	2.36	0.40
35:BA:777:A:C2	35:BA:778:G:C4	3.10	0.40
35:BA:812:C:C2	35:BA:813:U:C5	3.09	0.40
35:BA:910:A:C6	35:BA:911:A:C6	3.10	0.40
35:BA:1016:G:H1	35:BA:1146:C:H42	1.69	0.40
35:BA:1278:A:C5'	50:BR:36:THR:HG22	2.50	0.40
35:BA:1337:G:H2'	35:BA:1338:G:H8	1.86	0.40
35:BA:1398:C:H2'	35:BA:1399:C:C6	2.54	0.40
35:BA:1459:G:O2'	35:BA:1461:G:H5'	2.22	0.40
35:BA:1571:A:H8	35:BA:1571:A:O5'	2.04	0.40
35:BA:2078:C:H1'	35:BA:2434:A:H1'	2.04	0.40
35:BA:2244:U:H6	35:BA:2244:U:O5'	2.04	0.40
35:BA:2516:G:O2'	35:BA:2517:C:H5'	2.21	0.40
35:BA:2579:C:O5'	35:BA:2579:C:H6	2.05	0.40
35:BA:2867:G:OP2	52:BT:119:LYS:NZ	2.54	0.40
36:BB:29:A:C2	36:BB:56:G:C2	3.10	0.40
39:BE:60:ASN:O	39:BE:61:ARG:C	2.65	0.40
40:BF:89:VAL:CG1	40:BF:90:PHE:H	2.27	0.40
40:BF:157:VAL:CG2	40:BF:194:MET:HA	2.52	0.40
40:BF:179:GLU:C	40:BF:181:LEU:N	2.80	0.40
41:BG:34:LEU:HD11	41:BG:100:TRP:CZ2	2.55	0.40
41:BG:37:VAL:HG22	41:BG:159:VAL:HB	2.03	0.40
41:BG:44:GLY:O	41:BG:47:LYS:CD	2.70	0.40
41:BG:106:LEU:O	41:BG:106:LEU:HG	2.20	0.40
42:BH:19:VAL:O	42:BH:20:ALA:CB	2.69	0.40
44:BK:41:PHE:O	44:BK:43:ALA:N	2.54	0.40
46:BN:40:PRO:O	53:BU:64:ARG:NH2	2.53	0.40
48:BP:71:VAL:N	48:BP:72:PRO:CD	2.85	0.40
48:BP:91:PHE:HZ	48:BP:100:LEU:CD1	2.32	0.40
52:BT:50:ILE:HD11	52:BT:64:ARG:HB3	2.03	0.40
54:BV:32:THR:HG23	54:BV:60:GLU:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:35:LEU:O	54:BV:36:PRO:C	2.65	0.40
57:BY:11:ASP:O	57:BY:27:VAL:HA	2.22	0.40
1:CA:267:C:H2'	1:CA:268:C:C6	2.47	0.40
1:CA:301:G:H2'	1:CA:302:G:H8	1.87	0.40
1:CA:313:A:H2'	1:CA:314:C:C6	2.57	0.40
1:CA:407:G:H2'	1:CA:408:A:C8	2.54	0.40
1:CA:436:C:O2'	1:CA:437:U:P	2.80	0.40
1:CA:841:U:H3'	1:CA:848:C:H5'	2.04	0.40
1:CA:1442(B):A:C5	52:DT:118:ARG:NE	2.89	0.40
2:CB:121:LEU:HA	2:CB:124:SER:CB	2.50	0.40
3:CC:9:GLY:HA2	3:CC:12:LEU:HG	2.04	0.40
4:CD:190:ASP:HB3	4:CD:193:ASP:OD2	2.22	0.40
5:CE:101:ILE:CD1	5:CE:118:ILE:O	2.67	0.40
6:CF:50:TYR:HB2	6:CF:51:PRO:HD2	2.03	0.40
9:CI:4:TYR:CB	9:CI:19:LEU:HB2	2.22	0.40
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.21	0.40
13:CM:40:ASN:HD21	13:CM:42:ALA:HB3	1.86	0.40
15:CO:74:ASP:O	15:CO:76:GLU:N	2.53	0.40
16:CP:50:LYS:C	16:CP:51:VAL:HG23	2.47	0.40
16:CP:60:LEU:HA	16:CP:60:LEU:HD23	1.94	0.40
17:CQ:10:VAL:HG13	17:CQ:19:VAL:HB	2.03	0.40
24:CY:128:TYR:O	24:CY:128:TYR:CD1	2.75	0.40
24:CY:141:LYS:O	24:CY:144:ALA:HB2	2.22	0.40
24:CY:345:THR:O	24:CY:345:THR:HG22	2.21	0.40
27:D2:24:LEU:C	27:D2:24:LEU:CD2	2.95	0.40
33:D8:48:PHE:C	33:D8:49:VAL:CG2	2.93	0.40
34:D9:3:VAL:HG21	35:DA:2539:C:H4'	2.04	0.40
34:D9:19:ARG:O	34:D9:20:HIS:HB2	2.21	0.40
35:DA:271(P):C:H2'	35:DA:271(Q):G:C8	2.56	0.40
35:DA:312:G:H2'	35:DA:313:C:O4'	2.22	0.40
35:DA:482:A:N6	35:DA:506:G:C8	2.89	0.40
35:DA:626:U:N3	48:DP:105:LEU:HG	2.36	0.40
35:DA:772:C:O2'	35:DA:773:U:H5'	2.21	0.40
35:DA:811:U:O2	35:DA:1251:C:C6	2.75	0.40
35:DA:999:U:O2	35:DA:1157:G:C2	2.75	0.40
35:DA:1010:A:H1'	35:DA:1153:C:C1'	2.49	0.40
35:DA:1043:C:O5'	35:DA:1043:C:H6	2.05	0.40
35:DA:1049:C:H6	35:DA:1049:C:H5'	1.86	0.40
35:DA:1453:U:OP1	50:DR:63:ARG:NH2	2.54	0.40
35:DA:2019:A:C4'	53:DU:34:LYS:HD2	2.51	0.40
35:DA:2352:A:C2'	35:DA:2353:G:H5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2393:A:H2'	35:DA:2394:C:O4'	2.22	0.40
35:DA:2454:G:H2'	35:DA:2455:G:C5'	2.52	0.40
35:DA:2652:C:H42	35:DA:2668:G:H1	1.70	0.40
35:DA:2821:A:OP2	39:DE:110:GLY:O	2.39	0.40
37:DC:79:ALA:C	37:DC:120:VAL:HG11	2.47	0.40
37:DC:172:ILE:HG21	37:DC:197:LEU:HD11	2.03	0.40
39:DE:167:VAL:HG13	39:DE:170:LEU:HD11	2.03	0.40
40:DF:157:VAL:HA	40:DF:176:LEU:O	2.21	0.40
42:DH:28:GLY:HA3	42:DH:79:VAL:HG21	2.02	0.40
43:DJ:69:UNK:O	43:DJ:70:UNK:O	2.40	0.40
44:DK:6:ALA:HB3	44:DK:59:ILE:HG22	2.03	0.40
44:DK:30:HIS:CE1	44:DK:59:ILE:HB	2.56	0.40
47:DO:114:ILE:O	47:DO:117:LEU:N	2.45	0.40
49:DQ:1:MET:HE3	49:DQ:44:ALA:HB3	2.04	0.40
50:DR:88:ARG:HD2	50:DR:88:ARG:O	2.21	0.40
52:DT:28:VAL:HG22	52:DT:46:GLU:C	2.46	0.40
54:DV:19:LYS:HG2	54:DV:94:LEU:CB	2.47	0.40
54:DV:32:THR:HG23	54:DV:60:GLU:HA	2.04	0.40
58:DZ:35:ARG:CG	58:DZ:35:ARG:NH1	2.82	0.40
58:DZ:129:SER:HB2	58:DZ:131:ARG:CD	2.52	0.40

All (2) 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)
2:CB:65:GLY:O	37:DC:28:ARG:NH2[2_646]	1.56	0.64
2:CB:65:GLY:O	37:DC:28:ARG:CZ[2_646]	1.87	0.33

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	AB	233/256 (91%)	139 (60%)	53 (23%)	41 (18%)	0	1
2	CB	233/256 (91%)	140 (60%)	51 (22%)	42 (18%)	0	1
3	AC	205/239 (86%)	133 (65%)	50 (24%)	22 (11%)	0	5
3	CC	205/239 (86%)	132 (64%)	52 (25%)	21 (10%)	0	5
4	AD	206/209 (99%)	134 (65%)	50 (24%)	22 (11%)	0	5
4	CD	206/209 (99%)	134 (65%)	51 (25%)	21 (10%)	0	5
5	AE	149/162 (92%)	119 (80%)	21 (14%)	9 (6%)	1	13
5	CE	149/162 (92%)	117 (78%)	24 (16%)	8 (5%)	1	14
6	AF	99/101 (98%)	75 (76%)	17 (17%)	7 (7%)	1	10
6	CF	99/101 (98%)	74 (75%)	18 (18%)	7 (7%)	1	10
7	AG	153/156 (98%)	109 (71%)	34 (22%)	10 (6%)	1	12
7	CG	153/156 (98%)	110 (72%)	32 (21%)	11 (7%)	1	10
8	AH	136/138 (99%)	103 (76%)	30 (22%)	3 (2%)	5	30
8	CH	136/138 (99%)	105 (77%)	27 (20%)	4 (3%)	3	26
9	AI	121/128 (94%)	81 (67%)	26 (22%)	14 (12%)	0	4
9	CI	121/128 (94%)	82 (68%)	27 (22%)	12 (10%)	0	6
10	AJ	97/105 (92%)	60 (62%)	21 (22%)	16 (16%)	0	2
10	CJ	97/105 (92%)	61 (63%)	20 (21%)	16 (16%)	0	2
11	AK	117/129 (91%)	91 (78%)	20 (17%)	6 (5%)	1	15
11	CK	117/129 (91%)	91 (78%)	20 (17%)	6 (5%)	1	15
12	AL	123/132 (93%)	82 (67%)	23 (19%)	18 (15%)	0	3
12	CL	123/132 (93%)	82 (67%)	22 (18%)	19 (15%)	0	2
13	AM	123/126 (98%)	77 (63%)	25 (20%)	21 (17%)	0	2
13	CM	123/126 (98%)	77 (63%)	26 (21%)	20 (16%)	0	2
14	AN	58/61 (95%)	47 (81%)	7 (12%)	4 (7%)	1	11
14	CN	58/61 (95%)	46 (79%)	7 (12%)	5 (9%)	0	7
15	AO	86/89 (97%)	55 (64%)	23 (27%)	8 (9%)	0	6
15	CO	86/89 (97%)	53 (62%)	24 (28%)	9 (10%)	0	5
16	AP	82/88 (93%)	60 (73%)	15 (18%)	7 (8%)	0	7
16	CP	82/88 (93%)	60 (73%)	15 (18%)	7 (8%)	0	7
17	AQ	98/105 (93%)	78 (80%)	15 (15%)	5 (5%)	1	15
17	CQ	98/105 (93%)	78 (80%)	16 (16%)	4 (4%)	2	19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	AR	68/88 (77%)	52 (76%)	11 (16%)	5 (7%)	1	9
18	CR	68/88 (77%)	51 (75%)	12 (18%)	5 (7%)	1	9
19	AS	77/93 (83%)	43 (56%)	14 (18%)	20 (26%)	0	0
19	CS	77/93 (83%)	43 (56%)	15 (20%)	19 (25%)	0	0
20	AT	97/106 (92%)	52 (54%)	30 (31%)	15 (16%)	0	2
20	CT	97/106 (92%)	53 (55%)	29 (30%)	15 (16%)	0	2
21	AU	23/27 (85%)	14 (61%)	6 (26%)	3 (13%)	0	3
21	CU	23/27 (85%)	14 (61%)	5 (22%)	4 (17%)	0	1
24	AY	663/691 (96%)	435 (66%)	137 (21%)	91 (14%)	0	3
24	CY	663/691 (96%)	449 (68%)	134 (20%)	80 (12%)	0	4
25	B0	82/85 (96%)	64 (78%)	14 (17%)	4 (5%)	1	16
25	D0	82/85 (96%)	64 (78%)	14 (17%)	4 (5%)	1	16
26	B1	92/98 (94%)	64 (70%)	15 (16%)	13 (14%)	0	3
26	D1	92/98 (94%)	67 (73%)	13 (14%)	12 (13%)	0	3
27	B2	69/72 (96%)	35 (51%)	18 (26%)	16 (23%)	0	0
27	D2	69/72 (96%)	29 (42%)	31 (45%)	9 (13%)	0	3
28	B3	58/60 (97%)	41 (71%)	12 (21%)	5 (9%)	0	7
28	D3	58/60 (97%)	41 (71%)	12 (21%)	5 (9%)	0	7
29	B4	56/71 (79%)	27 (48%)	14 (25%)	15 (27%)	0	0
29	D4	56/71 (79%)	28 (50%)	13 (23%)	15 (27%)	0	0
30	B5	57/60 (95%)	37 (65%)	9 (16%)	11 (19%)	0	1
30	D5	57/60 (95%)	38 (67%)	7 (12%)	12 (21%)	0	1
31	B6	48/54 (89%)	21 (44%)	12 (25%)	15 (31%)	0	0
31	D6	48/54 (89%)	22 (46%)	12 (25%)	14 (29%)	0	0
32	B7	47/49 (96%)	35 (74%)	11 (23%)	1 (2%)	5	31
32	D7	47/49 (96%)	35 (74%)	11 (23%)	1 (2%)	5	31
33	B8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	1
33	D8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	1
34	B9	35/37 (95%)	21 (60%)	9 (26%)	5 (14%)	0	3
34	D9	35/37 (95%)	21 (60%)	8 (23%)	6 (17%)	0	2
37	BC	226/229 (99%)	163 (72%)	51 (23%)	12 (5%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	DC	226/229 (99%)	163 (72%)	50 (22%)	13 (6%)	1	13
38	BD	273/276 (99%)	189 (69%)	50 (18%)	34 (12%)	0	4
38	DD	273/276 (99%)	188 (69%)	50 (18%)	35 (13%)	0	3
39	BE	203/206 (98%)	122 (60%)	45 (22%)	36 (18%)	0	1
39	DE	203/206 (98%)	124 (61%)	44 (22%)	35 (17%)	0	2
40	BF	206/210 (98%)	132 (64%)	44 (21%)	30 (15%)	0	3
40	DF	206/210 (98%)	133 (65%)	42 (20%)	31 (15%)	0	2
41	BG	177/182 (97%)	110 (62%)	43 (24%)	24 (14%)	0	3
41	DG	177/182 (97%)	115 (65%)	36 (20%)	26 (15%)	0	2
42	BH	165/180 (92%)	86 (52%)	40 (24%)	39 (24%)	0	0
42	DH	165/180 (92%)	86 (52%)	40 (24%)	39 (24%)	0	0
44	BK	138/147 (94%)	92 (67%)	35 (25%)	11 (8%)	1	8
44	DK	138/147 (94%)	92 (67%)	35 (25%)	11 (8%)	1	8
46	BN	137/140 (98%)	88 (64%)	28 (20%)	21 (15%)	0	2
46	DN	137/140 (98%)	88 (64%)	28 (20%)	21 (15%)	0	2
47	BO	120/122 (98%)	91 (76%)	19 (16%)	10 (8%)	0	8
47	DO	120/122 (98%)	93 (78%)	17 (14%)	10 (8%)	0	8
48	BP	144/150 (96%)	72 (50%)	45 (31%)	27 (19%)	0	1
48	DP	144/150 (96%)	72 (50%)	44 (31%)	28 (19%)	0	1
49	BQ	139/141 (99%)	106 (76%)	26 (19%)	7 (5%)	1	16
49	DQ	139/141 (99%)	106 (76%)	26 (19%)	7 (5%)	1	16
50	BR	115/118 (98%)	81 (70%)	20 (17%)	14 (12%)	0	4
50	DR	115/118 (98%)	81 (70%)	20 (17%)	14 (12%)	0	4
51	BS	97/112 (87%)	41 (42%)	35 (36%)	21 (22%)	0	1
51	DS	97/112 (87%)	41 (42%)	35 (36%)	21 (22%)	0	1
52	BT	136/146 (93%)	76 (56%)	32 (24%)	28 (21%)	0	1
52	DT	136/146 (93%)	75 (55%)	32 (24%)	29 (21%)	0	1
53	BU	115/118 (98%)	66 (57%)	37 (32%)	12 (10%)	0	5
53	DU	115/118 (98%)	67 (58%)	35 (30%)	13 (11%)	0	4
54	BV	99/101 (98%)	69 (70%)	12 (12%)	18 (18%)	0	1
54	DV	99/101 (98%)	69 (70%)	12 (12%)	18 (18%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
55	BW	111/113 (98%)	80 (72%)	21 (19%)	10 (9%)	0	6
55	DW	111/113 (98%)	81 (73%)	21 (19%)	9 (8%)	1	8
56	BX	91/96 (95%)	56 (62%)	26 (29%)	9 (10%)	0	6
56	DX	91/96 (95%)	57 (63%)	25 (28%)	9 (10%)	0	6
57	BY	105/110 (96%)	42 (40%)	36 (34%)	27 (26%)	0	0
57	DY	105/110 (96%)	43 (41%)	36 (34%)	26 (25%)	0	0
58	BZ	183/206 (89%)	108 (59%)	42 (23%)	33 (18%)	0	1
58	DZ	183/206 (89%)	114 (62%)	37 (20%)	32 (18%)	0	1
All	All	13200/13966 (94%)	8607 (65%)	2874 (22%)	1719 (13%)	0	3

All (1719) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	12	GLU
2	AB	13	ALA
2	AB	15	VAL
2	AB	20	GLU
2	AB	95	GLN
2	AB	129	GLU
2	AB	190	THR
2	AB	195	ASP
2	AB	233	SER
2	AB	239	VAL
3	AC	12	LEU
3	AC	47	LEU
3	AC	61	ALA
3	AC	95	THR
3	AC	154	SER
3	AC	156	ARG
3	AC	207	VAL
4	AD	3	ARG
4	AD	13	ARG
4	AD	14	ARG
4	AD	18	LYS
4	AD	30	LYS
4	AD	32	ALA
4	AD	44	GLY
4	AD	153	ARG
4	AD	179	GLU

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Mol	Chain	Res	Type
5	AE	11	ILE
6	AF	39	LYS
7	AG	8	GLU
7	AG	52	GLU
7	AG	90	GLU
8	AH	105	ARG
9	AI	41	VAL
9	AI	43	ALA
9	AI	61	ALA
9	AI	89	ASN
10	AJ	33	GLN
10	AJ	36	GLY
10	AJ	55	LYS
10	AJ	56	HIS
10	AJ	57	LYS
10	AJ	59	SER
10	AJ	75	ILE
11	AK	123	LYS
11	AK	127	LYS
12	AL	18	VAL
12	AL	27	LEU
12	AL	28	LYS
12	AL	38	THR
12	AL	45	PRO
12	AL	81	SER
12	AL	91	LYS
13	AM	12	ASN
13	AM	67	GLU
13	AM	70	LEU
13	AM	83	ASP
13	AM	90	LEU
13	AM	91	ARG
13	AM	100	GLY
13	AM	118	ALA
13	AM	124	PRO
14	AN	15	LYS
14	AN	29	ARG
15	AO	24	SER
16	AP	83	GLU
17	AQ	13	ASP
17	AQ	49	GLU
18	AR	37	VAL

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Mol	Chain	Res	Type
18	AR	38	GLU
18	AR	45	SER
19	AS	10	PHE
19	AS	27	GLU
19	AS	28	LYS
19	AS	29	ARG
19	AS	47	HIS
19	AS	61	TYR
20	AT	48	LYS
20	AT	74	LYS
20	AT	99	LEU
21	AU	3	LYS
24	AY	6	GLU
24	AY	19	ALA
24	AY	21	ILE
24	AY	23	ALA
24	AY	66	THR
24	AY	68	ALA
24	AY	84	THR
24	AY	85	PRO
24	AY	88	VAL
24	AY	92	ILE
24	AY	119	GLU
24	AY	121	VAL
24	AY	129	LYS
24	AY	197	ARG
24	AY	203	GLU
24	AY	204	GLU
24	AY	205	TYR
24	AY	206	LEU
24	AY	209	ALA
24	AY	210	ARG
24	AY	251	ILE
24	AY	276	VAL
24	AY	360	ALA
24	AY	385	THR
24	AY	396	ARG
24	AY	402	ILE
24	AY	447	GLY
24	AY	448	GLN
24	AY	456	GLU
24	AY	498	ILE

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Mol	Chain	Res	Type
24	AY	519	ARG
24	AY	530	VAL
24	AY	559	PRO
24	AY	614	GLU
25	B0	74	ARG
26	B1	28	GLY
26	B1	52	ARG
26	B1	53	VAL
26	B1	85	LEU
27	B2	18	PRO
27	B2	19	VAL
27	B2	20	GLU
27	B2	47	ASN
27	B2	48	HIS
28	B3	3	ARG
29	B4	3	GLU
29	B4	26	SER
29	B4	38	LYS
29	B4	43	TYR
29	B4	50	VAL
29	B4	57	GLU
30	B5	49	CYS
30	B5	53	ALA
30	B5	56	LYS
30	B5	57	VAL
31	B6	7	ILE
31	B6	9	LEU
31	B6	18	ARG
31	B6	20	ASN
31	B6	27	LYS
31	B6	31	PRO
31	B6	44	ARG
31	B6	52	VAL
33	B8	31	HIS
33	B8	33	ASN
33	B8	43	GLN
33	B8	49	VAL
34	B9	2	LYS
34	B9	35	ARG
38	BD	19	ALA
38	BD	24	ILE
38	BD	25	THR

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Mol	Chain	Res	Type
38	BD	27	THR
38	BD	30	GLU
38	BD	34	VAL
38	BD	35	LYS
38	BD	127	VAL
38	BD	225	ALA
38	BD	239	ARG
38	BD	246	PRO
39	BE	35	GLN
39	BE	54	GLN
39	BE	77	ILE
39	BE	88	GLY
39	BE	90	THR
39	BE	145	LYS
39	BE	185	LYS
39	BE	189	PRO
40	BF	11	VAL
40	BF	21	ALA
40	BF	64	ILE
40	BF	89	VAL
40	BF	167	ALA
41	BG	4	ASP
41	BG	6	ALA
41	BG	47	LYS
41	BG	87	PRO
41	BG	96	ARG
41	BG	102	PHE
41	BG	109	VAL
41	BG	110	ALA
41	BG	181	ARG
42	BH	13	LYS
42	BH	20	ALA
42	BH	41	MET
42	BH	46	GLU
42	BH	55	PRO
42	BH	83	TYR
42	BH	154	PRO
42	BH	155	SER
42	BH	156	ALA
42	BH	157	TYR
42	BH	160	LYS
42	BH	169	VAL

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Mol	Chain	Res	Type
42	BH	173	PRO
44	BK	51	ALA
44	BK	115	LEU
46	BN	8	GLN
46	BN	36	GLY
46	BN	46	VAL
46	BN	47	ALA
46	BN	57	ALA
46	BN	58	ASP
46	BN	63	THR
46	BN	130	HIS
46	BN	133	GLN
47	BO	35	VAL
47	BO	48	PRO
47	BO	54	GLU
47	BO	68	GLU
48	BP	12	ALA
48	BP	14	LYS
48	BP	17	LYS
48	BP	31	ALA
48	BP	47	ASP
48	BP	48	PRO
48	BP	52	GLU
48	BP	57	THR
48	BP	58	THR
48	BP	111	ARG
48	BP	135	LEU
48	BP	147	LEU
49	BQ	27	VAL
49	BQ	135	ASP
50	BR	8	ARG
50	BR	14	SER
50	BR	58	GLY
50	BR	88	ARG
50	BR	107	ASP
50	BR	117	VAL
51	BS	13	ARG
51	BS	23	ARG
51	BS	97	ARG
51	BS	100	ALA
51	BS	102	ALA
51	BS	103	GLU

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Mol	Chain	Res	Type
52	BT	5	ALA
52	BT	6	LEU
52	BT	24	PRO
52	BT	28	VAL
52	BT	30	VAL
52	BT	55	ASN
52	BT	80	SER
52	BT	91	ARG
52	BT	104	ASN
52	BT	107	ASP
52	BT	130	ALA
52	BT	132	LYS
52	BT	135	ALA
53	BU	91	ASP
53	BU	93	LYS
54	BV	16	PRO
54	BV	18	LEU
54	BV	19	LYS
54	BV	46	VAL
54	BV	67	GLY
55	BW	63	ASP
56	BX	12	VAL
56	BX	42	ALA
57	BY	7	VAL
57	BY	24	VAL
57	BY	48	ALA
57	BY	60	PHE
57	BY	74	PRO
57	BY	77	PRO
57	BY	78	ALA
57	BY	99	CYS
57	BY	100	ALA
57	BY	104	GLY
58	BZ	27	VAL
58	BZ	51	ALA
58	BZ	78	LYS
58	BZ	80	ARG
58	BZ	81	ARG
58	BZ	120	ILE
58	BZ	121	HIS
58	BZ	142	SER
58	BZ	146	ILE

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Mol	Chain	Res	Type
58	BZ	152	ALA
58	BZ	163	LEU
58	BZ	168	GLU
58	BZ	185	GLU
58	BZ	186	GLU
2	CB	12	GLU
2	CB	13	ALA
2	CB	15	VAL
2	CB	20	GLU
2	CB	95	GLN
2	CB	129	GLU
2	CB	195	ASP
2	CB	233	SER
2	CB	239	VAL
3	CC	12	LEU
3	CC	47	LEU
3	CC	61	ALA
3	CC	95	THR
3	CC	154	SER
3	CC	156	ARG
3	CC	207	VAL
4	CD	3	ARG
4	CD	13	ARG
4	CD	14	ARG
4	CD	18	LYS
4	CD	30	LYS
4	CD	32	ALA
4	CD	44	GLY
4	CD	153	ARG
4	CD	171	GLY
5	CE	11	ILE
6	CF	39	LYS
7	CG	8	GLU
7	CG	52	GLU
7	CG	90	GLU
8	CH	105	ARG
9	CI	41	VAL
9	CI	43	ALA
9	CI	61	ALA
9	CI	89	ASN
10	CJ	33	GLN
10	CJ	36	GLY

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Mol	Chain	Res	Type
10	CJ	55	LYS
10	CJ	56	HIS
10	CJ	57	LYS
10	CJ	59	SER
10	CJ	75	ILE
11	CK	123	LYS
11	CK	127	LYS
12	CL	18	VAL
12	CL	27	LEU
12	CL	28	LYS
12	CL	38	THR
12	CL	45	PRO
12	CL	81	SER
12	CL	91	LYS
13	CM	12	ASN
13	CM	67	GLU
13	CM	70	LEU
13	CM	83	ASP
13	CM	90	LEU
13	CM	91	ARG
13	CM	100	GLY
13	CM	118	ALA
13	CM	124	PRO
14	CN	15	LYS
14	CN	29	ARG
15	CO	24	SER
16	CP	83	GLU
17	CQ	13	ASP
17	CQ	49	GLU
18	CR	37	VAL
18	CR	38	GLU
18	CR	45	SER
19	CS	10	PHE
19	CS	27	GLU
19	CS	28	LYS
19	CS	29	ARG
19	CS	47	HIS
19	CS	61	TYR
20	CT	48	LYS
20	CT	74	LYS
20	CT	99	LEU
21	CU	3	LYS

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Mol	Chain	Res	Type
24	CY	21	ILE
24	CY	39	ILE
24	CY	66	THR
24	CY	67	ALA
24	CY	84	THR
24	CY	92	ILE
24	CY	104	ALA
24	CY	138	LYS
24	CY	183	MET
24	CY	209	ALA
24	CY	210	ARG
24	CY	297	GLU
24	CY	299	VAL
24	CY	448	GLN
24	CY	456	GLU
24	CY	498	ILE
24	CY	530	VAL
24	CY	674	ASP
25	D0	74	ARG
26	D1	53	VAL
27	D2	47	ASN
27	D2	48	HIS
28	D3	3	ARG
29	D4	26	SER
29	D4	38	LYS
29	D4	43	TYR
29	D4	50	VAL
29	D4	57	GLU
30	D5	49	CYS
30	D5	53	ALA
30	D5	56	LYS
30	D5	57	VAL
31	D6	7	ILE
31	D6	9	LEU
31	D6	18	ARG
31	D6	20	ASN
31	D6	27	LYS
31	D6	31	PRO
31	D6	44	ARG
31	D6	52	VAL
33	D8	31	HIS
33	D8	33	ASN

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Mol	Chain	Res	Type
33	D8	43	GLN
33	D8	49	VAL
34	D9	2	LYS
34	D9	35	ARG
38	DD	19	ALA
38	DD	24	ILE
38	DD	25	THR
38	DD	27	THR
38	DD	34	VAL
38	DD	35	LYS
38	DD	127	VAL
38	DD	225	ALA
38	DD	239	ARG
38	DD	246	PRO
39	DE	35	GLN
39	DE	54	GLN
39	DE	77	ILE
39	DE	88	GLY
39	DE	90	THR
39	DE	145	LYS
39	DE	185	LYS
39	DE	189	PRO
40	DF	11	VAL
40	DF	21	ALA
40	DF	64	ILE
40	DF	89	VAL
40	DF	167	ALA
41	DG	4	ASP
41	DG	14	GLU
41	DG	47	LYS
41	DG	48	GLU
41	DG	75	LYS
41	DG	81	LYS
41	DG	82	LEU
41	DG	87	PRO
41	DG	96	ARG
41	DG	109	VAL
41	DG	110	ALA
42	DH	13	LYS
42	DH	20	ALA
42	DH	41	MET
42	DH	46	GLU

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Mol	Chain	Res	Type
42	DH	55	PRO
42	DH	83	TYR
42	DH	154	PRO
42	DH	155	SER
42	DH	156	ALA
42	DH	157	TYR
42	DH	160	LYS
42	DH	169	VAL
42	DH	173	PRO
42	DH	176	ALA
44	DK	51	ALA
44	DK	115	LEU
46	DN	8	GLN
46	DN	36	GLY
46	DN	46	VAL
46	DN	47	ALA
46	DN	58	ASP
46	DN	63	THR
46	DN	130	HIS
46	DN	133	GLN
47	DO	35	VAL
47	DO	48	PRO
47	DO	68	GLU
48	DP	12	ALA
48	DP	14	LYS
48	DP	17	LYS
48	DP	31	ALA
48	DP	47	ASP
48	DP	48	PRO
48	DP	52	GLU
48	DP	57	THR
48	DP	58	THR
48	DP	111	ARG
48	DP	135	LEU
48	DP	147	LEU
49	DQ	27	VAL
49	DQ	135	ASP
50	DR	8	ARG
50	DR	14	SER
50	DR	58	GLY
50	DR	88	ARG
50	DR	107	ASP

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Mol	Chain	Res	Type
50	DR	117	VAL
51	DS	13	ARG
51	DS	23	ARG
51	DS	57	LYS
51	DS	97	ARG
51	DS	100	ALA
51	DS	102	ALA
51	DS	103	GLU
52	DT	5	ALA
52	DT	6	LEU
52	DT	24	PRO
52	DT	28	VAL
52	DT	30	VAL
52	DT	55	ASN
52	DT	80	SER
52	DT	91	ARG
52	DT	97	ALA
52	DT	104	ASN
52	DT	107	ASP
52	DT	130	ALA
52	DT	132	LYS
52	DT	135	ALA
53	DU	91	ASP
53	DU	93	LYS
54	DV	16	PRO
54	DV	18	LEU
54	DV	19	LYS
54	DV	46	VAL
54	DV	67	GLY
55	DW	63	ASP
56	DX	12	VAL
56	DX	42	ALA
57	DY	7	VAL
57	DY	24	VAL
57	DY	48	ALA
57	DY	60	PHE
57	DY	74	PRO
57	DY	77	PRO
57	DY	78	ALA
57	DY	99	CYS
57	DY	100	ALA
57	DY	104	GLY

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Mol	Chain	Res	Type
58	DZ	38	TYR
58	DZ	42	VAL
58	DZ	80	ARG
58	DZ	112	ARG
58	DZ	136	PHE
58	DZ	146	ILE
58	DZ	158	PRO
58	DZ	177	PRO
58	DZ	181	GLU
58	DZ	186	GLU
2	AB	18	GLY
2	AB	24	TRP
2	AB	65	GLY
2	AB	83	MET
2	AB	128	GLU
2	AB	151	GLY
2	AB	152	PHE
2	AB	153	ARG
2	AB	165	VAL
2	AB	216	SER
2	AB	221	LEU
2	AB	224	GLN
2	AB	238	LEU
3	AC	26	LYS
3	AC	96	GLY
3	AC	129	ALA
3	AC	131	ARG
3	AC	135	LYS
3	AC	139	GLN
4	AD	5	ILE
4	AD	69	GLY
4	AD	156	GLU
4	AD	171	GLY
5	AE	8	GLU
6	AF	30	LEU
6	AF	34	GLY
6	AF	43	LEU
7	AG	80	VAL
8	AH	2	LEU
9	AI	34	ASN
9	AI	85	LEU
10	AJ	19	SER

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Mol	Chain	Res	Type
10	AJ	61	GLU
10	AJ	83	GLU
10	AJ	84	GLN
10	AJ	85	LEU
11	AK	88	GLY
12	AL	46	LYS
12	AL	71	PRO
12	AL	87	GLY
12	AL	89	ARG
12	AL	121	GLY
13	AM	4	ILE
13	AM	5	ALA
13	AM	7	VAL
13	AM	55	ARG
13	AM	114	ARG
14	AN	14	PRO
16	AP	34	GLU
18	AR	41	LYS
19	AS	14	HIS
19	AS	25	LYS
19	AS	26	GLY
19	AS	62	ILE
19	AS	63	THR
19	AS	73	GLU
20	AT	49	ALA
20	AT	62	LEU
20	AT	69	GLY
24	AY	10	LYS
24	AY	39	ILE
24	AY	112	GLN
24	AY	114	VAL
24	AY	183	MET
24	AY	196	ILE
24	AY	299	VAL
24	AY	347	GLY
24	AY	371	ALA
24	AY	380	LEU
24	AY	386	GLY
24	AY	399	LEU
24	AY	416	LYS
24	AY	418	LYS
24	AY	471	LYS

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Mol	Chain	Res	Type
24	AY	505	GLY
24	AY	657	THR
24	AY	678	GLU
25	B0	20	ARG
26	B1	69	LYS
26	B1	84	GLY
27	B2	21	LEU
27	B2	26	ARG
27	B2	49	LYS
28	B3	29	ARG
29	B4	5	ILE
29	B4	9	LEU
29	B4	20	ASN
29	B4	44	THR
29	B4	48	ARG
29	B4	51	ASP
30	B5	35	GLU
30	B5	36	CYS
30	B5	38	ALA
30	B5	58	LEU
30	B5	59	GLU
31	B6	16	CYS
31	B6	19	ARG
31	B6	23	THR
31	B6	28	ARG
31	B6	43	CYS
32	B7	17	GLY
33	B8	34	TRP
33	B8	37	SER
33	B8	40	GLU
34	B9	11	CYS
34	B9	12	ASP
37	BC	12	LEU
37	BC	30	VAL
37	BC	38	PHE
38	BD	3	VAL
38	BD	12	SER
38	BD	32	SER
38	BD	36	PRO
38	BD	42	GLY
38	BD	125	ILE
38	BD	197	GLY

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Mol	Chain	Res	Type
38	BD	198	ASN
38	BD	234	GLY
38	BD	260	ARG
38	BD	267	SER
38	BD	268	ARG
39	BE	2	LYS
39	BE	46	ALA
39	BE	53	PRO
39	BE	57	LYS
39	BE	66	HIS
39	BE	69	LYS
39	BE	71	GLY
39	BE	72	VAL
39	BE	118	LYS
39	BE	134	ILE
39	BE	144	ARG
39	BE	186	GLY
40	BF	5	ALA
40	BF	10	PRO
40	BF	84	VAL
40	BF	127	GLU
40	BF	169	ASN
40	BF	181	LEU
40	BF	206	ILE
40	BF	207	GLY
41	BG	14	GLU
41	BG	75	LYS
41	BG	81	LYS
41	BG	82	LEU
41	BG	166	ASP
42	BH	21	PRO
42	BH	42	ARG
42	BH	69	ARG
42	BH	138	LYS
42	BH	174	GLY
42	BH	176	ALA
44	BK	10	LEU
44	BK	42	ASN
44	BK	48	MET
44	BK	62	ASP
44	BK	82	ALA
44	BK	87	GLY

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Mol	Chain	Res	Type
46	BN	77	GLY
46	BN	125	GLY
46	BN	129	PRO
47	BO	5	GLN
47	BO	29	ASN
47	BO	89	ASN
47	BO	100	GLY
48	BP	34	GLY
48	BP	98	GLU
49	BQ	52	VAL
49	BQ	62	GLY
49	BQ	71	ASP
50	BR	45	ARG
50	BR	83	ILE
51	BS	37	ALA
51	BS	57	LYS
51	BS	59	LYS
51	BS	85	VAL
51	BS	94	TYR
51	BS	104	GLY
51	BS	107	GLU
52	BT	11	GLU
52	BT	12	SER
52	BT	58	ASN
52	BT	88	ILE
52	BT	97	ALA
52	BT	133	GLU
53	BU	11	ARG
53	BU	27	LEU
53	BU	32	PHE
53	BU	67	ALA
54	BV	2	PHE
54	BV	26	ASP
54	BV	31	ALA
54	BV	47	VAL
54	BV	53	GLU
54	BV	55	ALA
54	BV	78	LYS
55	BW	6	ILE
55	BW	11	ARG
56	BX	87	GLN
57	BY	17	SER

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Mol	Chain	Res	Type
57	BY	38	ILE
57	BY	39	VAL
57	BY	41	GLY
57	BY	59	GLY
57	BY	81	LYS
57	BY	98	VAL
57	BY	107	ASP
58	BZ	5	LEU
58	BZ	42	VAL
58	BZ	85	HIS
58	BZ	112	ARG
58	BZ	148	ASP
58	BZ	158	PRO
58	BZ	180	VAL
2	CB	18	GLY
2	CB	24	TRP
2	CB	65	GLY
2	CB	83	MET
2	CB	128	GLU
2	CB	151	GLY
2	CB	152	PHE
2	CB	153	ARG
2	CB	165	VAL
2	CB	190	THR
2	CB	216	SER
2	CB	221	LEU
2	CB	224	GLN
2	CB	236	TYR
2	CB	238	LEU
3	CC	26	LYS
3	CC	96	GLY
3	CC	129	ALA
3	CC	131	ARG
3	CC	135	LYS
3	CC	139	GLN
4	CD	5	ILE
4	CD	31	CYS
4	CD	69	GLY
4	CD	156	GLU
4	CD	179	GLU
5	CE	8	GLU
6	CF	30	LEU

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Mol	Chain	Res	Type
6	CF	34	GLY
6	CF	43	LEU
7	CG	41	ARG
7	CG	80	VAL
8	CH	2	LEU
9	CI	34	ASN
10	CJ	19	SER
10	CJ	61	GLU
10	CJ	84	GLN
10	CJ	85	LEU
11	CK	88	GLY
12	CL	46	LYS
12	CL	71	PRO
12	CL	72	GLY
12	CL	87	GLY
12	CL	89	ARG
12	CL	121	GLY
13	CM	4	ILE
13	CM	5	ALA
13	CM	7	VAL
13	CM	55	ARG
13	CM	114	ARG
13	CM	121	LYS
16	CP	34	GLU
16	CP	76	GLN
17	CQ	95	TYR
18	CR	41	LYS
19	CS	14	HIS
19	CS	25	LYS
19	CS	26	GLY
19	CS	62	ILE
19	CS	63	THR
19	CS	73	GLU
20	CT	49	ALA
20	CT	62	LEU
20	CT	69	GLY
24	CY	34	TYR
24	CY	86	GLY
24	CY	112	GLN
24	CY	127	LYS
24	CY	129	LYS
24	CY	143	GLY

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Mol	Chain	Res	Type
24	CY	144	ALA
24	CY	172	ASP
24	CY	203	GLU
24	CY	211	GLU
24	CY	300	GLU
24	CY	366	VAL
24	CY	416	LYS
24	CY	505	GLY
24	CY	531	GLY
24	CY	537	GLU
24	CY	547	GLU
24	CY	551	GLN
24	CY	595	GLN
24	CY	664	GLN
24	CY	673	PHE
24	CY	681	LYS
25	D0	20	ARG
26	D1	22	GLY
26	D1	30	VAL
26	D1	83	GLU
26	D1	84	GLY
26	D1	85	LEU
26	D1	94	LEU
26	D1	95	LEU
27	D2	5	GLU
27	D2	49	LYS
28	D3	29	ARG
29	D4	3	GLU
29	D4	5	ILE
29	D4	9	LEU
29	D4	20	ASN
29	D4	44	THR
29	D4	48	ARG
29	D4	51	ASP
30	D5	35	GLU
30	D5	36	CYS
30	D5	38	ALA
30	D5	58	LEU
30	D5	59	GLU
31	D6	16	CYS
31	D6	19	ARG
31	D6	23	THR

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Mol	Chain	Res	Type
31	D6	28	ARG
32	D7	17	GLY
33	D8	34	TRP
33	D8	37	SER
33	D8	40	GLU
34	D9	11	CYS
34	D9	12	ASP
37	DC	12	LEU
37	DC	30	VAL
37	DC	38	PHE
38	DD	3	VAL
38	DD	12	SER
38	DD	30	GLU
38	DD	32	SER
38	DD	36	PRO
38	DD	41	GLY
38	DD	42	GLY
38	DD	125	ILE
38	DD	197	GLY
38	DD	198	ASN
38	DD	236	GLY
38	DD	267	SER
38	DD	268	ARG
39	DE	2	LYS
39	DE	46	ALA
39	DE	53	PRO
39	DE	57	LYS
39	DE	66	HIS
39	DE	69	LYS
39	DE	71	GLY
39	DE	72	VAL
39	DE	118	LYS
39	DE	129	HIS
39	DE	134	ILE
39	DE	144	ARG
39	DE	186	GLY
40	DF	10	PRO
40	DF	82	ILE
40	DF	84	VAL
40	DF	127	GLU
40	DF	169	ASN
40	DF	181	LEU

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Mol	Chain	Res	Type
40	DF	206	ILE
41	DG	3	LEU
41	DG	76	SER
41	DG	104	GLU
41	DG	124	SER
41	DG	181	ARG
42	DH	21	PRO
42	DH	42	ARG
42	DH	69	ARG
42	DH	138	LYS
44	DK	10	LEU
44	DK	42	ASN
44	DK	48	MET
44	DK	62	ASP
44	DK	82	ALA
44	DK	87	GLY
46	DN	57	ALA
46	DN	77	GLY
46	DN	125	GLY
46	DN	129	PRO
47	DO	5	GLN
47	DO	29	ASN
47	DO	54	GLU
47	DO	89	ASN
47	DO	120	GLU
48	DP	34	GLY
48	DP	98	GLU
49	DQ	52	VAL
49	DQ	62	GLY
49	DQ	71	ASP
50	DR	45	ARG
51	DS	37	ALA
51	DS	59	LYS
51	DS	85	VAL
51	DS	94	TYR
51	DS	104	GLY
51	DS	107	GLU
52	DT	12	SER
52	DT	41	ARG
52	DT	88	ILE
52	DT	133	GLU
53	DU	11	ARG

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Mol	Chain	Res	Type
53	DU	27	LEU
53	DU	32	PHE
53	DU	67	ALA
54	DV	2	PHE
54	DV	26	ASP
54	DV	31	ALA
54	DV	47	VAL
54	DV	53	GLU
54	DV	55	ALA
55	DW	6	ILE
55	DW	11	ARG
56	DX	87	GLN
57	DY	17	SER
57	DY	38	ILE
57	DY	39	VAL
57	DY	41	GLY
57	DY	59	GLY
57	DY	81	LYS
57	DY	92	ASN
57	DY	98	VAL
57	DY	107	ASP
58	DZ	17	ALA
58	DZ	18	LEU
58	DZ	37	VAL
58	DZ	40	ASP
58	DZ	142	SER
58	DZ	148	ASP
58	DZ	159	PRO
2	AB	78	GLN
2	AB	79	ASP
2	AB	236	TYR
3	AC	4	LYS
3	AC	168	ALA
4	AD	31	CYS
4	AD	40	PRO
5	AE	140	ARG
5	AE	154	GLY
7	AG	14	PRO
7	AG	41	ARG
7	AG	62	PHE
9	AI	11	LYS
9	AI	44	VAL

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Mol	Chain	Res	Type
9	AI	95	LYS
12	AL	47	LYS
12	AL	51	ALA
12	AL	72	GLY
12	AL	92	ASP
13	AM	11	ARG
13	AM	121	LYS
14	AN	16	PHE
15	AO	14	GLU
15	AO	77	ARG
16	AP	13	HIS
16	AP	76	GLN
17	AQ	95	TYR
20	AT	97	ALA
24	AY	25	LYS
24	AY	34	TYR
24	AY	42	ILE
24	AY	89	ASP
24	AY	120	THR
24	AY	144	ALA
24	AY	148	LEU
24	AY	283	PRO
24	AY	393	ASP
24	AY	458	HIS
24	AY	469	GLU
24	AY	532	GLY
24	AY	535	PRO
24	AY	636	PRO
24	AY	680	PRO
26	B1	95	LEU
27	B2	43	GLN
27	B2	58	ALA
27	B2	68	ARG
28	B3	32	GLN
30	B5	37	LYS
33	B8	35	GLN
33	B8	57	ARG
37	BC	17	PRO
37	BC	127	LYS
38	BD	28	GLU
38	BD	41	GLY
38	BD	74	GLY

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Mol	Chain	Res	Type
38	BD	129	ASN
38	BD	134	ARG
38	BD	236	GLY
38	BD	242	ARG
39	BE	83	ASP
39	BE	86	PRO
39	BE	117	MET
39	BE	129	HIS
40	BF	3	GLU
40	BF	82	ILE
40	BF	108	LYS
40	BF	115	ALA
40	BF	122	LYS
40	BF	168	ARG
40	BF	195	ASP
41	BG	22	ARG
41	BG	43	LEU
41	BG	116	ASP
41	BG	163	ALA
42	BH	18	GLU
42	BH	47	GLU
42	BH	85	LYS
42	BH	98	LEU
42	BH	126	PRO
42	BH	158	HIS
42	BH	165	ALA
42	BH	170	ARG
42	BH	171	LEU
46	BN	40	PRO
46	BN	59	LYS
46	BN	110	GLY
46	BN	136	GLU
47	BO	120	GLU
48	BP	43	GLY
48	BP	49	ARG
48	BP	123	LEU
50	BR	12	ARG
51	BS	71	ARG
51	BS	90	GLY
51	BS	99	LYS
52	BT	3	ARG
52	BT	41	ARG

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Mol	Chain	Res	Type
52	BT	103	ARG
53	BU	83	LEU
53	BU	114	LYS
54	BV	3	ALA
54	BV	50	PRO
55	BW	18	ARG
56	BX	19	ALA
56	BX	22	ALA
56	BX	91	ALA
57	BY	46	LYS
57	BY	92	ASN
58	BZ	30	ASN
58	BZ	83	PRO
58	BZ	122	ARG
58	BZ	128	VAL
58	BZ	166	SER
58	BZ	170	THR
2	CB	78	GLN
2	CB	79	ASP
3	CC	4	LYS
3	CC	15	THR
3	CC	168	ALA
4	CD	40	PRO
5	CE	154	GLY
6	CF	29	ALA
7	CG	14	PRO
7	CG	62	PHE
9	CI	11	LYS
9	CI	44	VAL
9	CI	85	LEU
9	CI	95	LYS
10	CJ	83	GLU
12	CL	47	LYS
12	CL	51	ALA
12	CL	92	ASP
12	CL	116	SER
13	CM	11	ARG
14	CN	14	PRO
14	CN	16	PHE
15	CO	14	GLU
15	CO	77	ARG
16	CP	13	HIS

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Mol	Chain	Res	Type
19	CS	5	LEU
20	CT	97	ALA
24	CY	87	HIS
24	CY	91	THR
24	CY	123	ARG
24	CY	192	LEU
24	CY	239	GLU
24	CY	303	PRO
24	CY	380	LEU
24	CY	400	GLU
24	CY	421	GLN
24	CY	458	HIS
24	CY	502	GLY
24	CY	504	ARG
24	CY	519	ARG
24	CY	620	VAL
24	CY	680	PRO
27	D2	4	SER
27	D2	41	ILE
27	D2	68	ARG
27	D2	71	ASN
28	D3	32	GLN
30	D5	37	LYS
31	D6	43	CYS
33	D8	35	GLN
33	D8	57	ARG
37	DC	17	PRO
37	DC	82	GLU
37	DC	127	LYS
38	DD	28	GLU
38	DD	74	GLY
38	DD	129	ASN
38	DD	134	ARG
38	DD	234	GLY
38	DD	242	ARG
38	DD	260	ARG
39	DE	83	ASP
39	DE	86	PRO
40	DF	3	GLU
40	DF	5	ALA
40	DF	108	LYS
40	DF	115	ALA

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Mol	Chain	Res	Type
40	DF	126	VAL
40	DF	168	ARG
40	DF	195	ASP
40	DF	207	GLY
41	DG	21	ARG
41	DG	115	ARG
41	DG	117	PHE
41	DG	169	ALA
42	DH	18	GLU
42	DH	47	GLU
42	DH	85	LYS
42	DH	98	LEU
42	DH	126	PRO
42	DH	158	HIS
42	DH	165	ALA
42	DH	170	ARG
42	DH	171	LEU
42	DH	174	GLY
46	DN	40	PRO
46	DN	59	LYS
46	DN	110	GLY
46	DN	136	GLU
47	DO	100	GLY
48	DP	43	GLY
48	DP	49	ARG
48	DP	123	LEU
50	DR	12	ARG
50	DR	83	ILE
51	DS	71	ARG
51	DS	90	GLY
51	DS	99	LYS
52	DT	11	GLU
52	DT	58	ASN
53	DU	66	ASN
53	DU	83	LEU
53	DU	110	VAL
53	DU	114	LYS
54	DV	3	ALA
54	DV	50	PRO
54	DV	78	LYS
55	DW	18	ARG
56	DX	6	ASP

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Mol	Chain	Res	Type
56	DX	19	ALA
56	DX	22	ALA
56	DX	91	ALA
57	DY	46	LYS
57	DY	75	ILE
58	DZ	49	ARG
58	DZ	81	ARG
58	DZ	108	PRO
58	DZ	168	GLU
2	AB	29	ALA
2	AB	63	MET
2	AB	64	ARG
2	AB	97	TRP
2	AB	130	ARG
3	AC	15	THR
3	AC	44	GLU
3	AC	63	ASN
3	AC	65	ALA
4	AD	71	SER
5	AE	37	ARG
5	AE	136	MET
5	AE	138	ALA
6	AF	29	ALA
10	AJ	23	ILE
10	AJ	32	ALA
12	AL	19	ARG
12	AL	116	SER
13	AM	36	LYS
13	AM	113	PRO
15	AO	26	GLU
15	AO	80	ALA
15	AO	84	LYS
17	AQ	89	LEU
19	AS	5	LEU
19	AS	42	PRO
19	AS	50	ALA
20	AT	85	MET
20	AT	96	GLY
20	AT	98	PRO
21	AU	25	LYS
24	AY	230	LYS
24	AY	406	GLU

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Mol	Chain	Res	Type
24	AY	444	PRO
24	AY	457	LEU
24	AY	502	GLY
24	AY	506	GLN
24	AY	549	ALA
26	B1	54	ALA
27	B2	51	ARG
27	B2	70	GLN
31	B6	41	PRO
33	B8	3	LYS
34	B9	30	PRO
37	BC	82	GLU
37	BC	168	LYS
37	BC	227	PRO
39	BE	17	ASP
39	BE	64	LYS
39	BE	70	ALA
39	BE	82	ARG
40	BF	62	ARG
40	BF	126	VAL
40	BF	134	GLY
40	BF	180	GLY
41	BG	30	GLU
41	BG	103	LEU
41	BG	126	ASP
44	BK	116	ASN
48	BP	89	ALA
48	BP	106	LEU
48	BP	107	LYS
48	BP	108	LYS
48	BP	119	GLU
49	BQ	139	GLU
50	BR	31	HIS
50	BR	61	HIS
50	BR	86	ARG
51	BS	15	ARG
51	BS	89	ARG
51	BS	105	ALA
52	BT	26	ASP
53	BU	66	ASN
53	BU	110	VAL
55	BW	111	HIS

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Mol	Chain	Res	Type
56	BX	6	ASP
57	BY	67	LEU
57	BY	75	ILE
58	BZ	71	VAL
58	BZ	159	PRO
58	BZ	165	VAL
2	CB	29	ALA
2	CB	63	MET
2	CB	64	ARG
2	CB	97	TRP
2	CB	130	ARG
2	CB	212	GLN
3	CC	65	ALA
4	CD	149	ALA
5	CE	37	ARG
5	CE	136	MET
5	CE	138	ALA
5	CE	140	ARG
7	CG	131	LYS
10	CJ	23	ILE
10	CJ	30	SER
10	CJ	32	ALA
13	CM	36	LYS
13	CM	113	PRO
15	CO	25	THR
15	CO	26	GLU
15	CO	80	ALA
15	CO	84	LYS
16	CP	54	GLU
18	CR	87	ARG
19	CS	30	LEU
19	CS	42	PRO
19	CS	50	ALA
20	CT	34	LYS
20	CT	78	ALA
20	CT	96	GLY
20	CT	98	PRO
21	CU	25	LYS
24	CY	88	VAL
24	CY	137	ASN
24	CY	174	PHE
24	CY	227	ILE

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Mol	Chain	Res	Type
24	CY	371	ALA
24	CY	419	ALA
24	CY	427	ALA
24	CY	470	PHE
24	CY	559	PRO
25	D0	42	GLY
26	D1	24	ALA
27	D2	18	PRO
28	D3	38	GLU
31	D6	41	PRO
33	D8	3	LYS
33	D8	61	LEU
37	DC	168	LYS
37	DC	227	PRO
39	DE	17	ASP
39	DE	45	THR
39	DE	64	LYS
39	DE	70	ALA
39	DE	117	MET
40	DF	90	PHE
40	DF	122	LYS
40	DF	134	GLY
41	DG	97	ASP
41	DG	140	ILE
42	DH	81	GLU
44	DK	116	ASN
48	DP	89	ALA
48	DP	106	LEU
48	DP	107	LYS
49	DQ	139	GLU
50	DR	31	HIS
50	DR	61	HIS
51	DS	15	ARG
51	DS	89	ARG
51	DS	105	ALA
52	DT	3	ARG
52	DT	9	LEU
52	DT	103	ARG
55	DW	99	ARG
57	DY	67	LEU
58	DZ	41	LEU
58	DZ	120	ILE

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Mol	Chain	Res	Type
58	DZ	165	VAL
58	DZ	169	GLU
2	AB	9	GLU
2	AB	84	GLU
2	AB	212	GLN
3	AC	35	GLU
3	AC	179	ARG
4	AD	149	ALA
4	AD	159	ARG
4	AD	186	LEU
6	AF	21	LEU
8	AH	121	ASP
9	AI	94	ALA
9	AI	106	ALA
10	AJ	30	SER
10	AJ	91	PRO
11	AK	34	ASP
13	AM	10	PRO
15	AO	25	THR
16	AP	54	GLU
18	AR	87	ARG
19	AS	30	LEU
19	AS	54	GLY
19	AS	59	PRO
20	AT	34	LYS
20	AT	44	ALA
20	AT	78	ALA
20	AT	104	LEU
21	AU	6	ARG
24	AY	22	ASP
24	AY	65	ILE
24	AY	123	ARG
24	AY	153	MET
24	AY	303	PRO
24	AY	361	ASN
24	AY	415	PRO
24	AY	577	SER
24	AY	598	ASP
24	AY	617	MET
24	AY	652	MET
24	AY	688	ILE
26	B1	30	VAL

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Mol	Chain	Res	Type
26	B1	31	GLY
27	B2	14	ARG
28	B3	38	GLU
29	B4	2	LYS
29	B4	40	HIS
30	B5	4	HIS
33	B8	48	PHE
33	B8	61	LEU
38	BD	10	THR
38	BD	273	ARG
39	BE	45	THR
39	BE	187	ALA
40	BF	90	PHE
41	BG	106	LEU
42	BH	14	GLY
42	BH	81	GLU
42	BH	93	GLY
46	BN	127	ASP
46	BN	134	ARG
48	BP	23	PRO
48	BP	33	ARG
48	BP	83	VAL
50	BR	42	LYS
50	BR	102	GLU
52	BT	9	LEU
52	BT	17	THR
53	BU	46	ALA
54	BV	22	VAL
55	BW	93	ALA
55	BW	99	ARG
56	BX	11	PRO
56	BX	13	LEU
57	BY	37	VAL
58	BZ	46	LYS
2	CB	9	GLU
2	CB	84	GLU
3	CC	35	GLU
3	CC	44	GLU
4	CD	159	ARG
4	CD	186	LEU
5	CE	118	ILE
6	CF	21	LEU

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Mol	Chain	Res	Type
7	CG	42	ILE
8	CH	121	ASP
9	CI	94	ALA
10	CJ	91	PRO
11	CK	34	ASP
11	CK	57	THR
11	CK	95	ILE
12	CL	19	ARG
13	CM	10	PRO
17	CQ	25	ARG
19	CS	54	GLY
19	CS	59	PRO
20	CT	85	MET
20	CT	104	LEU
21	CU	6	ARG
24	CY	36	THR
24	CY	205	TYR
24	CY	206	LEU
24	CY	262	SER
24	CY	283	PRO
24	CY	315	LYS
24	CY	405	PRO
26	D1	63	ALA
29	D4	2	LYS
29	D4	40	HIS
30	D5	4	HIS
33	D8	48	PHE
34	D9	30	PRO
38	DD	10	THR
38	DD	273	ARG
39	DE	187	ALA
40	DF	62	ARG
40	DF	180	GLY
41	DG	12	TYR
41	DG	42	GLY
42	DH	111	HIS
46	DN	127	ASP
46	DN	134	ARG
48	DP	23	PRO
48	DP	33	ARG
48	DP	83	VAL
48	DP	108	LYS

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Mol	Chain	Res	Type
48	DP	119	GLU
50	DR	86	ARG
50	DR	102	GLU
52	DT	17	THR
52	DT	26	ASP
54	DV	22	VAL
55	DW	111	HIS
56	DX	11	PRO
56	DX	13	LEU
57	DY	37	VAL
58	DZ	110	GLY
2	AB	157	ARG
3	AC	165	THR
5	AE	146	ALA
9	AI	127	LYS
11	AK	57	THR
11	AK	95	ILE
13	AM	21	TYR
13	AM	106	ASN
17	AQ	25	ARG
24	AY	24	GLY
24	AY	75	LYS
24	AY	408	VAL
24	AY	591	LYS
25	B0	13	GLY
25	B0	42	GLY
27	B2	44	LEU
28	B3	45	GLY
31	B6	36	LEU
39	BE	52	LEU
39	BE	73	GLU
39	BE	130	GLY
40	BF	14	PRO
40	BF	66	PRO
42	BH	48	GLY
42	BH	92	ILE
42	BH	111	HIS
44	BK	21	PRO
44	BK	73	PRO
46	BN	65	LYS
46	BN	81	GLY
47	BO	18	LYS

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Mol	Chain	Res	Type
48	BP	141	ALA
52	BT	81	PRO
55	BW	14	PRO
55	BW	25	ARG
2	CB	157	ARG
2	CB	204	ASN
3	CC	160	ALA
3	CC	165	THR
4	CD	71	SER
4	CD	88	VAL
8	CH	135	CYS
12	CL	106	ASP
13	CM	116	THR
20	CT	44	ALA
21	CU	9	ARG
24	CY	408	VAL
24	CY	671	MET
25	D0	13	GLY
26	D1	52	ARG
26	D1	73	LEU
39	DE	73	GLU
39	DE	130	GLY
40	DF	2	LYS
40	DF	14	PRO
40	DF	66	PRO
40	DF	85	GLY
41	DG	22	ARG
42	DH	14	GLY
42	DH	45	VAL
42	DH	48	GLY
42	DH	92	ILE
42	DH	93	GLY
44	DK	21	PRO
44	DK	73	PRO
46	DN	65	LYS
46	DN	81	GLY
47	DO	18	LYS
48	DP	67	MET
48	DP	141	ALA
49	DQ	30	GLY
50	DR	42	LYS
52	DT	127	ALA

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Mol	Chain	Res	Type
53	DU	46	ALA
55	DW	14	PRO
55	DW	25	ARG
58	DZ	12	GLY
58	DZ	65	GLN
58	DZ	121	HIS
4	AD	88	VAL
5	AE	118	ILE
7	AG	42	ILE
9	AI	74	ILE
15	AO	75	PRO
26	B1	87	PRO
29	B4	28	LYS
40	BF	177	ALA
42	BH	45	VAL
42	BH	76	VAL
46	BN	5	VAL
49	BQ	30	GLY
52	BT	92	GLY
54	BV	54	GLY
55	BW	59	VAL
57	BY	3	VAL
9	CI	74	ILE
16	CP	2	VAL
19	CS	51	VAL
24	CY	479	PRO
24	CY	670	VAL
28	D3	45	GLY
29	D4	28	LYS
34	D9	21	GLY
39	DE	52	LEU
42	DH	76	VAL
52	DT	81	PRO
55	DW	59	VAL
2	AB	26	PRO
2	AB	131	PRO
2	AB	232	PRO
6	AF	51	PRO
7	AG	9	VAL
9	AI	80	GLY
16	AP	2	VAL
19	AS	51	VAL

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Mol	Chain	Res	Type
26	B1	36	GLY
37	BC	160	GLY
38	BD	228	PRO
40	BF	25	PRO
40	BF	85	GLY
42	BH	39	PRO
48	BP	146	VAL
53	BU	90	VAL
54	BV	36	PRO
57	BY	31	LEU
58	BZ	134	PRO
2	CB	232	PRO
6	CF	51	PRO
7	CG	9	VAL
7	CG	82	GLY
15	CO	75	PRO
24	CY	554	PRO
37	DC	160	GLY
40	DF	25	PRO
40	DF	177	ALA
46	DN	5	VAL
48	DP	146	VAL
53	DU	90	VAL
54	DV	36	PRO
54	DV	54	GLY
57	DY	3	VAL
57	DY	31	LEU
2	AB	230	VAL
7	AG	82	GLY
16	AP	62	VAL
20	AT	100	ILE
27	B2	41	ILE
37	BC	68	GLY
41	BG	129	GLY
51	BS	22	GLY
57	BY	30	VAL
58	BZ	133	ILE
2	CB	131	PRO
2	CB	230	VAL
9	CI	80	GLY
16	CP	62	VAL
20	CT	100	ILE

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Mol	Chain	Res	Type
24	CY	394	ALA
24	CY	600	VAL
38	DD	228	PRO
39	DE	34	VAL
42	DH	39	PRO
51	DS	22	GLY
52	DT	92	GLY
53	DU	9	VAL
2	AB	127	ILE
2	AB	194	PRO
4	AD	92	VAL
4	AD	180	GLY
19	AS	9	VAL
26	B1	86	SER
37	BC	136	GLY
39	BE	14	ILE
39	BE	34	VAL
41	BG	24	GLY
42	BH	107	VAL
52	BT	15	VAL
54	BV	51	VAL
2	CB	127	ILE
2	CB	194	PRO
4	CD	92	VAL
14	CN	55	GLY
15	CO	19	PRO
24	CY	532	GLY
37	DC	68	GLY
37	DC	101	ILE
37	DC	107	GLY
37	DC	136	GLY
39	DE	75	VAL
51	DS	91	PRO
57	DY	30	VAL
58	DZ	166	SER
24	AY	333	GLY
37	BC	107	GLY
39	BE	75	VAL
42	BH	52	VAL
51	BS	91	PRO
57	BY	27	VAL
2	CB	26	PRO

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Mol	Chain	Res	Type
24	CY	293	THR
30	D5	50	GLY
38	DD	11	PRO
39	DE	14	ILE
41	DG	20	ILE
42	DH	52	VAL
42	DH	107	VAL
52	DT	15	VAL
54	DV	51	VAL
58	DZ	14	LYS
58	DZ	134	PRO
38	BD	245	PRO
38	DD	245	PRO

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	AB	202/220 (92%)	183 (91%)	19 (9%)	8	32
2	CB	202/220 (92%)	183 (91%)	19 (9%)	8	32
3	AC	160/188 (85%)	144 (90%)	16 (10%)	7	30
3	CC	160/188 (85%)	144 (90%)	16 (10%)	7	30
4	AD	180/181 (99%)	162 (90%)	18 (10%)	7	30
4	CD	180/181 (99%)	163 (91%)	17 (9%)	8	32
5	AE	115/123 (94%)	99 (86%)	16 (14%)	3	19
5	CE	115/123 (94%)	98 (85%)	17 (15%)	3	17
6	AF	90/90 (100%)	83 (92%)	7 (8%)	11	38
6	CF	90/90 (100%)	84 (93%)	6 (7%)	15	42
7	AG	126/127 (99%)	116 (92%)	10 (8%)	11	37
7	CG	126/127 (99%)	115 (91%)	11 (9%)	9	34
8	AH	119/119 (100%)	113 (95%)	6 (5%)	22	49
8	CH	119/119 (100%)	111 (93%)	8 (7%)	15	42

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	AI	98/99 (99%)	90 (92%)	8 (8%)	10	36
9	CI	98/99 (99%)	90 (92%)	8 (8%)	10	36
10	AJ	88/92 (96%)	74 (84%)	14 (16%)	2	15
10	CJ	88/92 (96%)	75 (85%)	13 (15%)	3	17
11	AK	90/99 (91%)	82 (91%)	8 (9%)	9	33
11	CK	90/99 (91%)	83 (92%)	7 (8%)	11	38
12	AL	104/109 (95%)	94 (90%)	10 (10%)	8	32
12	CL	104/109 (95%)	93 (89%)	11 (11%)	6	28
13	AM	99/101 (98%)	89 (90%)	10 (10%)	7	30
13	CM	99/101 (98%)	89 (90%)	10 (10%)	7	30
14	AN	49/50 (98%)	42 (86%)	7 (14%)	3	19
14	CN	49/50 (98%)	42 (86%)	7 (14%)	3	19
15	AO	79/80 (99%)	73 (92%)	6 (8%)	12	39
15	CO	79/80 (99%)	72 (91%)	7 (9%)	9	33
16	AP	72/74 (97%)	66 (92%)	6 (8%)	10	35
16	CP	72/74 (97%)	65 (90%)	7 (10%)	8	31
17	AQ	94/97 (97%)	85 (90%)	9 (10%)	8	32
17	CQ	94/97 (97%)	85 (90%)	9 (10%)	8	32
18	AR	61/77 (79%)	58 (95%)	3 (5%)	22	49
18	CR	61/77 (79%)	58 (95%)	3 (5%)	22	49
19	AS	69/80 (86%)	60 (87%)	9 (13%)	4	21
19	CS	69/80 (86%)	60 (87%)	9 (13%)	4	21
20	AT	76/82 (93%)	67 (88%)	9 (12%)	5	24
20	CT	76/82 (93%)	67 (88%)	9 (12%)	5	24
21	AU	19/22 (86%)	19 (100%)	0	100	100
21	CU	19/22 (86%)	19 (100%)	0	100	100
24	AY	563/582 (97%)	480 (85%)	83 (15%)	3	17
24	CY	563/582 (97%)	490 (87%)	73 (13%)	4	21
25	B0	66/67 (98%)	57 (86%)	9 (14%)	3	20
25	D0	66/67 (98%)	57 (86%)	9 (14%)	3	20
26	B1	78/83 (94%)	64 (82%)	14 (18%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
26	D1	78/83 (94%)	70 (90%)	8 (10%)	7	30
27	B2	66/67 (98%)	60 (91%)	6 (9%)	9	33
27	D2	66/67 (98%)	57 (86%)	9 (14%)	3	20
28	B3	51/52 (98%)	46 (90%)	5 (10%)	7	31
28	D3	51/52 (98%)	46 (90%)	5 (10%)	7	31
29	B4	51/63 (81%)	37 (72%)	14 (28%)	0	3
29	D4	51/63 (81%)	37 (72%)	14 (28%)	0	3
30	B5	51/52 (98%)	48 (94%)	3 (6%)	18	45
30	D5	51/52 (98%)	48 (94%)	3 (6%)	18	45
31	B6	49/52 (94%)	37 (76%)	12 (24%)	1	4
31	D6	49/52 (94%)	37 (76%)	12 (24%)	1	4
32	B7	41/42 (98%)	38 (93%)	3 (7%)	13	40
32	D7	41/42 (98%)	38 (93%)	3 (7%)	13	40
33	B8	53/55 (96%)	44 (83%)	9 (17%)	2	13
33	D8	53/55 (96%)	44 (83%)	9 (17%)	2	13
34	B9	34/34 (100%)	31 (91%)	3 (9%)	9	33
34	D9	34/34 (100%)	30 (88%)	4 (12%)	5	24
37	BC	180/181 (99%)	166 (92%)	14 (8%)	11	38
37	DC	180/181 (99%)	166 (92%)	14 (8%)	11	38
38	BD	217/218 (100%)	182 (84%)	35 (16%)	2	15
38	DD	217/218 (100%)	182 (84%)	35 (16%)	2	15
39	BE	165/166 (99%)	134 (81%)	31 (19%)	1	10
39	DE	165/166 (99%)	136 (82%)	29 (18%)	2	12
40	BF	165/166 (99%)	153 (93%)	12 (7%)	13	40
40	DF	165/166 (99%)	153 (93%)	12 (7%)	13	40
41	BG	155/156 (99%)	130 (84%)	25 (16%)	2	15
41	DG	155/156 (99%)	127 (82%)	28 (18%)	2	11
42	BH	136/148 (92%)	122 (90%)	14 (10%)	7	30
42	DH	136/148 (92%)	122 (90%)	14 (10%)	7	30
44	BK	104/111 (94%)	88 (85%)	16 (15%)	2	16
44	DK	104/111 (94%)	88 (85%)	16 (15%)	2	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	BN	117/119 (98%)	100 (86%)	17 (14%)	3	18
46	DN	117/119 (98%)	100 (86%)	17 (14%)	3	18
47	BO	100/100 (100%)	92 (92%)	8 (8%)	11	37
47	DO	100/100 (100%)	91 (91%)	9 (9%)	9	33
48	BP	112/116 (97%)	92 (82%)	20 (18%)	2	11
48	DP	112/116 (97%)	92 (82%)	20 (18%)	2	11
49	BQ	111/111 (100%)	94 (85%)	17 (15%)	3	16
49	DQ	111/111 (100%)	95 (86%)	16 (14%)	3	18
50	BR	100/101 (99%)	86 (86%)	14 (14%)	3	19
50	DR	100/101 (99%)	86 (86%)	14 (14%)	3	19
51	BS	77/88 (88%)	66 (86%)	11 (14%)	3	19
51	DS	77/88 (88%)	66 (86%)	11 (14%)	3	19
52	BT	120/127 (94%)	98 (82%)	22 (18%)	2	11
52	DT	120/127 (94%)	99 (82%)	21 (18%)	2	12
53	BU	92/94 (98%)	85 (92%)	7 (8%)	12	39
53	DU	92/94 (98%)	85 (92%)	7 (8%)	12	39
54	BV	82/82 (100%)	70 (85%)	12 (15%)	3	18
54	DV	82/82 (100%)	70 (85%)	12 (15%)	3	18
55	BW	91/92 (99%)	84 (92%)	7 (8%)	12	38
55	DW	91/92 (99%)	84 (92%)	7 (8%)	12	38
56	BX	74/78 (95%)	62 (84%)	12 (16%)	2	15
56	DX	74/78 (95%)	62 (84%)	12 (16%)	2	15
57	BY	87/91 (96%)	73 (84%)	14 (16%)	2	15
57	DY	87/91 (96%)	73 (84%)	14 (16%)	2	15
58	BZ	162/179 (90%)	128 (79%)	34 (21%)	1	7
58	DZ	162/179 (90%)	143 (88%)	19 (12%)	5	25
All	All	11080/11566 (96%)	9716 (88%)	1364 (12%)	4	23

All (1364) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	16	HIS

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Mol	Chain	Res	Type
2	AB	17	PHE
2	AB	36	ARG
2	AB	43	ASP
2	AB	44	LEU
2	AB	67	THR
2	AB	79	ASP
2	AB	101	MET
2	AB	129	GLU
2	AB	162	ILE
2	AB	172	ILE
2	AB	178	ARG
2	AB	179	LYS
2	AB	184	VAL
2	AB	192	SER
2	AB	200	ILE
2	AB	221	LEU
2	AB	223	ILE
3	AC	5	ILE
3	AC	16	ARG
3	AC	34	LEU
3	AC	47	LEU
3	AC	54	ARG
3	AC	56	ASP
3	AC	72	LYS
3	AC	79	ARG
3	AC	95	THR
3	AC	125	GLU
3	AC	152	ILE
3	AC	156	ARG
3	AC	165	THR
3	AC	167	TRP
3	AC	178	LEU
3	AC	179	ARG
4	AD	3	ARG
4	AD	9	CYS
4	AD	12	CYS
4	AD	15	GLU
4	AD	22	LYS
4	AD	36	ARG
4	AD	49	ARG
4	AD	58	LEU
4	AD	70	ILE

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Mol	Chain	Res	Type
4	AD	73	ARG
4	AD	78	LEU
4	AD	96	LEU
4	AD	114	ARG
4	AD	127	THR
4	AD	135	LEU
4	AD	162	LEU
4	AD	168	ARG
4	AD	200	GLU
5	AE	12	LEU
5	AE	18	ARG
5	AE	20	GLN
5	AE	31	LEU
5	AE	41	VAL
5	AE	64	ARG
5	AE	67	VAL
5	AE	68	GLU
5	AE	75	THR
5	AE	76	ILE
5	AE	79	GLU
5	AE	96	PRO
5	AE	101	ILE
5	AE	117	ASP
5	AE	119	LEU
5	AE	144	THR
6	AF	15	ASP
6	AF	32	ASN
6	AF	40	VAL
6	AF	43	LEU
6	AF	47	ARG
6	AF	86	ARG
6	AF	98	LEU
7	AG	27	ILE
7	AG	30	ILE
7	AG	57	GLU
7	AG	66	VAL
7	AG	79	ARG
7	AG	104	LEU
7	AG	113	GLU
7	AG	124	LEU
7	AG	137	LYS
7	AG	151	TYR

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Mol	Chain	Res	Type
8	AH	1	MET
8	AH	83	ILE
8	AH	91	ARG
8	AH	98	LYS
8	AH	109	ILE
8	AH	118	VAL
9	AI	4	TYR
9	AI	10	ARG
9	AI	29	ASN
9	AI	47	LEU
9	AI	59	PHE
9	AI	95	LYS
9	AI	114	TYR
9	AI	128	ARG
10	AJ	4	ILE
10	AJ	38	ILE
10	AJ	40	LEU
10	AJ	43	ARG
10	AJ	50	ILE
10	AJ	55	LYS
10	AJ	59	SER
10	AJ	62	HIS
10	AJ	63	PHE
10	AJ	74	ILE
10	AJ	76	ASN
10	AJ	79	ARG
10	AJ	80	LYS
10	AJ	96	ILE
11	AK	29	ILE
11	AK	31	THR
11	AK	48	ILE
11	AK	87	THR
11	AK	91	ARG
11	AK	92	GLU
11	AK	119	CYS
11	AK	124	LYS
12	AL	7	ILE
12	AL	13	LYS
12	AL	38	THR
12	AL	41	ARG
12	AL	47	LYS
12	AL	70	ILE

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Mol	Chain	Res	Type
12	AL	81	SER
12	AL	85	ILE
12	AL	100	ILE
12	AL	113	ARG
13	AM	64	TRP
13	AM	66	LEU
13	AM	70	LEU
13	AM	98	VAL
13	AM	108	ARG
13	AM	113	PRO
13	AM	115	LYS
13	AM	121	LYS
13	AM	122	LYS
13	AM	124	PRO
14	AN	14	PRO
14	AN	16	PHE
14	AN	18	VAL
14	AN	29	ARG
14	AN	41	ARG
14	AN	42	ILE
14	AN	44	LEU
15	AO	10	LYS
15	AO	39	LEU
15	AO	41	GLU
15	AO	57	LEU
15	AO	82	ILE
15	AO	85	LEU
16	AP	1	MET
16	AP	2	VAL
16	AP	6	LEU
16	AP	11	SER
16	AP	32	TYR
16	AP	74	LEU
17	AQ	7	THR
17	AQ	9	VAL
17	AQ	23	VAL
17	AQ	35	VAL
17	AQ	38	ARG
17	AQ	48	GLU
17	AQ	52	LYS
17	AQ	59	ILE
17	AQ	78	GLU

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Mol	Chain	Res	Type
18	AR	29	PHE
18	AR	31	LEU
18	AR	86	VAL
19	AS	5	LEU
19	AS	6	LYS
19	AS	7	LYS
19	AS	15	LEU
19	AS	19	VAL
19	AS	29	ARG
19	AS	37	ARG
19	AS	66	MET
19	AS	77	THR
20	AT	13	LEU
20	AT	24	LEU
20	AT	26	ASN
20	AT	36	LEU
20	AT	74	LYS
20	AT	75	ASN
20	AT	84	LEU
20	AT	93	GLU
20	AT	104	LEU
24	AY	9	LEU
24	AY	12	LEU
24	AY	20	HIS
24	AY	21	ILE
24	AY	40	HIS
24	AY	65	ILE
24	AY	83	ASP
24	AY	85	PRO
24	AY	88	VAL
24	AY	89	ASP
24	AY	92	ILE
24	AY	96	ARG
24	AY	100	VAL
24	AY	101	LEU
24	AY	102	ASP
24	AY	117	GLN
24	AY	122	TRP
24	AY	124	GLN
24	AY	130	VAL
24	AY	132	ARG
24	AY	152	THR

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Mol	Chain	Res	Type
24	AY	157	LEU
24	AY	191	ASP
24	AY	192	LEU
24	AY	201	ILE
24	AY	204	GLU
24	AY	216	LEU
24	AY	225	GLU
24	AY	230	LYS
24	AY	240	GLU
24	AY	242	LEU
24	AY	252	ASP
24	AY	255	ILE
24	AY	260	LEU
24	AY	270	GLN
24	AY	285	ASP
24	AY	289	ILE
24	AY	298	VAL
24	AY	299	VAL
24	AY	312	LEU
24	AY	326	THR
24	AY	328	ILE
24	AY	343	ASN
24	AY	349	LYS
24	AY	357	ARG
24	AY	377	VAL
24	AY	378	VAL
24	AY	381	LYS
24	AY	388	THR
24	AY	399	LEU
24	AY	409	ILE
24	AY	410	ASP
24	AY	420	ASP
24	AY	421	GLN
24	AY	426	GLN
24	AY	428	LEU
24	AY	438	PHE
24	AY	440	VAL
24	AY	468	ARG
24	AY	476	VAL
24	AY	481	VAL
24	AY	487	ILE
24	AY	501	THR

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Mol	Chain	Res	Type
24	AY	504	ARG
24	AY	506	GLN
24	AY	509	HIS
24	AY	512	ILE
24	AY	515	GLU
24	AY	517	LEU
24	AY	533	VAL
24	AY	567	LEU
24	AY	574	GLU
24	AY	595	GLN
24	AY	598	ASP
24	AY	608	VAL
24	AY	614	GLU
24	AY	625	ASN
24	AY	630	GLN
24	AY	631	ILE
24	AY	634	MET
24	AY	644	ARG
24	AY	657	THR
24	AY	685	GLU
25	B0	5	LYS
25	B0	11	ARG
25	B0	20	ARG
25	B0	27	GLU
25	B0	41	ARG
25	B0	60	PHE
25	B0	75	LEU
25	B0	78	TYR
25	B0	84	LEU
26	B1	3	LYS
26	B1	18	ILE
26	B1	35	THR
26	B1	45	ASN
26	B1	46	LEU
26	B1	62	VAL
26	B1	65	SER
26	B1	72	GLU
26	B1	73	LEU
26	B1	75	GLU
26	B1	80	LEU
26	B1	83	GLU
26	B1	94	LEU

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Mol	Chain	Res	Type
26	B1	95	LEU
27	B2	3	LEU
27	B2	30	ARG
27	B2	32	LEU
27	B2	44	LEU
27	B2	59	ARG
27	B2	64	LEU
28	B3	8	LEU
28	B3	28	LEU
28	B3	29	ARG
28	B3	38	GLU
28	B3	48	GLU
29	B4	1	MET
29	B4	5	ILE
29	B4	8	LYS
29	B4	9	LEU
29	B4	13	ARG
29	B4	14	ILE
29	B4	20	ASN
29	B4	28	LYS
29	B4	32	TYR
29	B4	40	HIS
29	B4	42	PHE
29	B4	43	TYR
29	B4	49	PHE
29	B4	55	ARG
30	B5	4	HIS
30	B5	55	ARG
30	B5	58	LEU
31	B6	7	ILE
31	B6	9	LEU
31	B6	10	LEU
31	B6	11	LEU
31	B6	15	GLU
31	B6	18	ARG
31	B6	23	THR
31	B6	27	LYS
31	B6	30	THR
31	B6	31	PRO
31	B6	39	TYR
31	B6	42	TRP
32	B7	1	MET

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Mol	Chain	Res	Type
32	B7	4	THR
32	B7	48	LYS
33	B8	6	THR
33	B8	14	VAL
33	B8	31	HIS
33	B8	32	LEU
33	B8	33	ASN
33	B8	34	TRP
33	B8	48	PHE
33	B8	49	VAL
33	B8	61	LEU
34	B9	7	VAL
34	B9	10	ILE
34	B9	29	ASN
37	BC	18	ASN
37	BC	28	ARG
37	BC	31	LYS
37	BC	48	LEU
37	BC	54	ARG
37	BC	58	ASN
37	BC	74	ARG
37	BC	149	ASN
37	BC	152	GLU
37	BC	184	GLU
37	BC	185	LYS
37	BC	189	ASN
37	BC	211	ARG
37	BC	212	SER
38	BD	10	THR
38	BD	23	GLU
38	BD	24	ILE
38	BD	25	THR
38	BD	26	LYS
38	BD	35	LYS
38	BD	37	LEU
38	BD	61	LEU
38	BD	65	ILE
38	BD	87	ASN
38	BD	89	SER
38	BD	92	ILE
38	BD	94	LEU
38	BD	95	LEU

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Mol	Chain	Res	Type
38	BD	106	ILE
38	BD	111	LEU
38	BD	117	VAL
38	BD	131	LEU
38	BD	157	ARG
38	BD	166	GLN
38	BD	183	ARG
38	BD	192	THR
38	BD	202	LYS
38	BD	212	SER
38	BD	221	VAL
38	BD	227	ASN
38	BD	228	PRO
38	BD	244	ARG
38	BD	246	PRO
38	BD	257	LEU
38	BD	260	ARG
38	BD	263	ARG
38	BD	270	ILE
38	BD	271	ILE
38	BD	275	LYS
39	BE	4	ILE
39	BE	9	VAL
39	BE	14	ILE
39	BE	24	THR
39	BE	26	ILE
39	BE	33	VAL
39	BE	45	THR
39	BE	49	LEU
39	BE	54	GLN
39	BE	55	ASN
39	BE	61	ARG
39	BE	67	PHE
39	BE	69	LYS
39	BE	76	ARG
39	BE	78	LEU
39	BE	94	GLU
39	BE	95	ILE
39	BE	102	VAL
39	BE	118	LYS
39	BE	119	ARG
39	BE	121	ASN

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Mol	Chain	Res	Type
39	BE	134	ILE
39	BE	144	ARG
39	BE	175	VAL
39	BE	178	GLU
39	BE	184	VAL
39	BE	188	VAL
39	BE	192	ASN
39	BE	197	ILE
39	BE	202	LYS
39	BE	203	LYS
40	BF	19	GLU
40	BF	28	ILE
40	BF	41	LEU
40	BF	64	ILE
40	BF	66	PRO
40	BF	83	PHE
40	BF	106	ARG
40	BF	125	LEU
40	BF	149	ASP
40	BF	165	ARG
40	BF	175	THR
40	BF	179	GLU
41	BG	4	ASP
41	BG	5	VAL
41	BG	14	GLU
41	BG	16	ARG
41	BG	22	ARG
41	BG	33	ARG
41	BG	34	LEU
41	BG	36	LYS
41	BG	43	LEU
41	BG	60	LEU
41	BG	71	THR
41	BG	80	PHE
41	BG	83	ARG
41	BG	88	ILE
41	BG	92	VAL
41	BG	98	ARG
41	BG	128	ARG
41	BG	135	LEU
41	BG	145	THR
41	BG	147	ASP

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Mol	Chain	Res	Type
41	BG	148	MET
41	BG	152	LEU
41	BG	159	VAL
41	BG	164	GLU
41	BG	166	ASP
42	BH	15	VAL
42	BH	45	VAL
42	BH	46	GLU
42	BH	49	VAL
42	BH	53	GLU
42	BH	54	ARG
42	BH	83	TYR
42	BH	89	ILE
42	BH	104	GLU
42	BH	105	LEU
42	BH	111	HIS
42	BH	143	GLN
42	BH	158	HIS
42	BH	171	LEU
44	BK	2	LYS
44	BK	3	LYS
44	BK	5	VAL
44	BK	29	GLN
44	BK	30	HIS
44	BK	34	ILE
44	BK	38	VAL
44	BK	57	ILE
44	BK	59	ILE
44	BK	65	PHE
44	BK	70	LYS
44	BK	73	PRO
44	BK	77	LEU
44	BK	86	LYS
44	BK	105	LEU
44	BK	117	THR
46	BN	1	MET
46	BN	4	TYR
46	BN	23	LEU
46	BN	26	LEU
46	BN	34	LEU
46	BN	39	ARG
46	BN	41	ASP

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Mol	Chain	Res	Type
46	BN	45	ASN
46	BN	48	MET
46	BN	50	ASP
46	BN	56	ASN
46	BN	63	THR
46	BN	65	LYS
46	BN	96	GLU
46	BN	109	LYS
46	BN	120	LEU
46	BN	123	TYR
47	BO	23	ARG
47	BO	38	VAL
47	BO	40	VAL
47	BO	48	PRO
47	BO	49	ARG
47	BO	69	ILE
47	BO	87	ILE
47	BO	117	LEU
48	BP	7	ARG
48	BP	13	ASN
48	BP	16	ARG
48	BP	18	ARG
48	BP	39	LYS
48	BP	41	ARG
48	BP	42	SER
48	BP	57	THR
48	BP	60	MET
48	BP	61	ARG
48	BP	62	LEU
48	BP	70	GLN
48	BP	81	GLN
48	BP	85	LEU
48	BP	91	PHE
48	BP	112	LEU
48	BP	114	ILE
48	BP	123	LEU
48	BP	125	VAL
48	BP	149	GLU
49	BQ	14	ARG
49	BQ	17	LEU
49	BQ	45	GLN
49	BQ	46	GLN

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Mol	Chain	Res	Type
49	BQ	55	VAL
49	BQ	56	ARG
49	BQ	58	PHE
49	BQ	65	PHE
49	BQ	67	ARG
49	BQ	76	LYS
49	BQ	79	LEU
49	BQ	81	VAL
49	BQ	106	VAL
49	BQ	134	ARG
49	BQ	135	ASP
49	BQ	139	GLU
49	BQ	141	GLN
50	BR	8	ARG
50	BR	27	SER
50	BR	30	THR
50	BR	33	ARG
50	BR	37	THR
50	BR	54	LEU
50	BR	65	LEU
50	BR	71	GLN
50	BR	74	LYS
50	BR	75	LEU
50	BR	94	TYR
50	BR	97	VAL
50	BR	99	LYS
50	BR	100	LEU
51	BS	11	LYS
51	BS	12	PHE
51	BS	36	TYR
51	BS	63	THR
51	BS	64	GLU
51	BS	67	ARG
51	BS	92	TYR
51	BS	97	ARG
51	BS	101	LEU
51	BS	103	GLU
51	BS	106	ARG
52	BT	6	LEU
52	BT	13	ARG
52	BT	16	ARG
52	BT	24	PRO

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Mol	Chain	Res	Type
52	BT	32	TYR
52	BT	38	ASN
52	BT	46	GLU
52	BT	49	VAL
52	BT	53	ARG
52	BT	58	ASN
52	BT	62	THR
52	BT	65	LYS
52	BT	75	ILE
52	BT	78	LEU
52	BT	82	LEU
52	BT	85	LYS
52	BT	90	GLN
52	BT	93	ARG
52	BT	108	ARG
52	BT	115	ARG
52	BT	125	ARG
52	BT	129	ARG
53	BU	20	LEU
53	BU	34	LYS
53	BU	74	LEU
53	BU	92	ARG
53	BU	101	ARG
53	BU	108	GLU
53	BU	112	ARG
54	BV	1	MET
54	BV	18	LEU
54	BV	19	LYS
54	BV	21	ARG
54	BV	24	LYS
54	BV	39	LEU
54	BV	40	LEU
54	BV	51	VAL
54	BV	89	GLN
54	BV	95	LEU
54	BV	98	GLU
54	BV	99	ILE
55	BW	11	ARG
55	BW	40	ASN
55	BW	52	GLU
55	BW	76	VAL
55	BW	88	ARG

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Mol	Chain	Res	Type
55	BW	98	LYS
55	BW	107	LEU
56	BX	3	THR
56	BX	8	ILE
56	BX	11	PRO
56	BX	27	THR
56	BX	28	PHE
56	BX	30	VAL
56	BX	38	GLU
56	BX	51	VAL
56	BX	56	THR
56	BX	57	LEU
56	BX	68	ARG
56	BX	83	VAL
57	BY	2	ARG
57	BY	7	VAL
57	BY	9	LYS
57	BY	29	GLU
57	BY	32	PRO
57	BY	51	VAL
57	BY	53	PRO
57	BY	54	LYS
57	BY	55	TYR
57	BY	62	GLU
57	BY	77	PRO
57	BY	79	CYS
57	BY	90	LEU
57	BY	102	CYS
58	BZ	5	LEU
58	BZ	6	LYS
58	BZ	8	TYR
58	BZ	24	LEU
58	BZ	28	MET
58	BZ	30	ASN
58	BZ	31	ARG
58	BZ	34	ASN
58	BZ	42	VAL
58	BZ	55	HIS
58	BZ	63	ASP
58	BZ	67	LEU
58	BZ	68	PRO
58	BZ	72	ARG

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Mol	Chain	Res	Type
58	BZ	78	LYS
58	BZ	83	PRO
58	BZ	86	VAL
58	BZ	87	ASP
58	BZ	92	SER
58	BZ	97	GLU
58	BZ	100	VAL
58	BZ	107	THR
58	BZ	112	ARG
58	BZ	123	ASP
58	BZ	127	LYS
58	BZ	140	ASP
58	BZ	146	ILE
58	BZ	150	LEU
58	BZ	154	ASP
58	BZ	158	PRO
58	BZ	163	LEU
58	BZ	166	SER
58	BZ	171	ILE
58	BZ	186	GLU
2	CB	15	VAL
2	CB	16	HIS
2	CB	17	PHE
2	CB	36	ARG
2	CB	43	ASP
2	CB	44	LEU
2	CB	67	THR
2	CB	79	ASP
2	CB	101	MET
2	CB	129	GLU
2	CB	162	ILE
2	CB	172	ILE
2	CB	178	ARG
2	CB	179	LYS
2	CB	184	VAL
2	CB	192	SER
2	CB	200	ILE
2	CB	221	LEU
2	CB	223	ILE
3	CC	5	ILE
3	CC	16	ARG
3	CC	34	LEU

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Mol	Chain	Res	Type
3	CC	47	LEU
3	CC	54	ARG
3	CC	56	ASP
3	CC	72	LYS
3	CC	79	ARG
3	CC	95	THR
3	CC	125	GLU
3	CC	152	ILE
3	CC	156	ARG
3	CC	165	THR
3	CC	167	TRP
3	CC	178	LEU
3	CC	179	ARG
4	CD	3	ARG
4	CD	9	CYS
4	CD	12	CYS
4	CD	15	GLU
4	CD	22	LYS
4	CD	36	ARG
4	CD	49	ARG
4	CD	70	ILE
4	CD	73	ARG
4	CD	78	LEU
4	CD	96	LEU
4	CD	114	ARG
4	CD	127	THR
4	CD	135	LEU
4	CD	162	LEU
4	CD	168	ARG
4	CD	200	GLU
5	CE	10	MET
5	CE	12	LEU
5	CE	18	ARG
5	CE	20	GLN
5	CE	31	LEU
5	CE	41	VAL
5	CE	64	ARG
5	CE	67	VAL
5	CE	68	GLU
5	CE	75	THR
5	CE	76	ILE
5	CE	79	GLU

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Mol	Chain	Res	Type
5	CE	96	PRO
5	CE	101	ILE
5	CE	117	ASP
5	CE	119	LEU
5	CE	144	THR
6	CF	15	ASP
6	CF	32	ASN
6	CF	43	LEU
6	CF	47	ARG
6	CF	86	ARG
6	CF	98	LEU
7	CG	27	ILE
7	CG	30	ILE
7	CG	57	GLU
7	CG	66	VAL
7	CG	79	ARG
7	CG	104	LEU
7	CG	113	GLU
7	CG	124	LEU
7	CG	137	LYS
7	CG	151	TYR
7	CG	156	TRP
8	CH	1	MET
8	CH	39	LEU
8	CH	54	ASP
8	CH	83	ILE
8	CH	91	ARG
8	CH	98	LYS
8	CH	109	ILE
8	CH	118	VAL
9	CI	4	TYR
9	CI	10	ARG
9	CI	29	ASN
9	CI	47	LEU
9	CI	59	PHE
9	CI	95	LYS
9	CI	114	TYR
9	CI	128	ARG
10	CJ	4	ILE
10	CJ	38	ILE
10	CJ	40	LEU
10	CJ	43	ARG

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Mol	Chain	Res	Type
10	CJ	50	ILE
10	CJ	55	LYS
10	CJ	62	HIS
10	CJ	63	PHE
10	CJ	74	ILE
10	CJ	76	ASN
10	CJ	79	ARG
10	CJ	80	LYS
10	CJ	96	ILE
11	CK	29	ILE
11	CK	48	ILE
11	CK	87	THR
11	CK	91	ARG
11	CK	92	GLU
11	CK	117	ASN
11	CK	124	LYS
12	CL	7	ILE
12	CL	13	LYS
12	CL	38	THR
12	CL	41	ARG
12	CL	47	LYS
12	CL	70	ILE
12	CL	81	SER
12	CL	85	ILE
12	CL	98	TYR
12	CL	100	ILE
12	CL	113	ARG
13	CM	64	TRP
13	CM	66	LEU
13	CM	70	LEU
13	CM	98	VAL
13	CM	108	ARG
13	CM	113	PRO
13	CM	115	LYS
13	CM	121	LYS
13	CM	122	LYS
13	CM	124	PRO
14	CN	14	PRO
14	CN	16	PHE
14	CN	18	VAL
14	CN	29	ARG
14	CN	41	ARG

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Mol	Chain	Res	Type
14	CN	42	ILE
14	CN	44	LEU
15	CO	10	LYS
15	CO	39	LEU
15	CO	41	GLU
15	CO	57	LEU
15	CO	59	MET
15	CO	82	ILE
15	CO	85	LEU
16	CP	1	MET
16	CP	2	VAL
16	CP	6	LEU
16	CP	11	SER
16	CP	21	VAL
16	CP	32	TYR
16	CP	74	LEU
17	CQ	7	THR
17	CQ	9	VAL
17	CQ	23	VAL
17	CQ	35	VAL
17	CQ	38	ARG
17	CQ	48	GLU
17	CQ	52	LYS
17	CQ	59	ILE
17	CQ	78	GLU
18	CR	29	PHE
18	CR	31	LEU
18	CR	86	VAL
19	CS	5	LEU
19	CS	6	LYS
19	CS	7	LYS
19	CS	15	LEU
19	CS	19	VAL
19	CS	29	ARG
19	CS	37	ARG
19	CS	66	MET
19	CS	77	THR
20	CT	13	LEU
20	CT	24	LEU
20	CT	26	ASN
20	CT	36	LEU
20	CT	74	LYS

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Mol	Chain	Res	Type
20	CT	75	ASN
20	CT	84	LEU
20	CT	93	GLU
20	CT	104	LEU
24	CY	13	ARG
24	CY	14	ASN
24	CY	17	ILE
24	CY	21	ILE
24	CY	28	THR
24	CY	65	ILE
24	CY	66	THR
24	CY	79	ILE
24	CY	81	ILE
24	CY	88	VAL
24	CY	92	ILE
24	CY	95	GLU
24	CY	98	MET
24	CY	100	VAL
24	CY	102	ASP
24	CY	117	GLN
24	CY	128	TYR
24	CY	130	VAL
24	CY	132	ARG
24	CY	137	ASN
24	CY	157	LEU
24	CY	175	SER
24	CY	191	ASP
24	CY	192	LEU
24	CY	216	LEU
24	CY	218	GLU
24	CY	225	GLU
24	CY	232	LEU
24	CY	255	ILE
24	CY	260	LEU
24	CY	278	ASP
24	CY	285	ASP
24	CY	312	LEU
24	CY	326	THR
24	CY	341	VAL
24	CY	343	ASN
24	CY	356	LEU
24	CY	357	ARG

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Mol	Chain	Res	Type
24	CY	377	VAL
24	CY	381	LYS
24	CY	388	THR
24	CY	389	LEU
24	CY	397	VAL
24	CY	399	LEU
24	CY	415	PRO
24	CY	420	ASP
24	CY	421	GLN
24	CY	422	GLU
24	CY	428	LEU
24	CY	438	PHE
24	CY	460	GLU
24	CY	476	VAL
24	CY	487	ILE
24	CY	492	ASP
24	CY	499	ARG
24	CY	512	ILE
24	CY	533	VAL
24	CY	536	LYS
24	CY	548	GLU
24	CY	575	VAL
24	CY	580	MET
24	CY	598	ASP
24	CY	602	LEU
24	CY	607	ARG
24	CY	614	GLU
24	CY	630	GLN
24	CY	631	ILE
24	CY	634	MET
24	CY	641	GLN
24	CY	647	VAL
24	CY	661	SER
24	CY	681	LYS
24	CY	683	VAL
25	D0	5	LYS
25	D0	11	ARG
25	D0	20	ARG
25	D0	27	GLU
25	D0	41	ARG
25	D0	60	PHE
25	D0	75	LEU

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Mol	Chain	Res	Type
25	D0	78	TYR
25	D0	84	LEU
26	D1	27	GLU
26	D1	39	LYS
26	D1	46	LEU
26	D1	50	ARG
26	D1	61	ARG
26	D1	74	VAL
26	D1	80	LEU
26	D1	83	GLU
27	D2	8	LYS
27	D2	20	GLU
27	D2	24	LEU
27	D2	53	LEU
27	D2	56	GLN
27	D2	57	ILE
27	D2	59	ARG
27	D2	60	LEU
27	D2	63	VAL
28	D3	8	LEU
28	D3	28	LEU
28	D3	29	ARG
28	D3	38	GLU
28	D3	48	GLU
29	D4	1	MET
29	D4	5	ILE
29	D4	8	LYS
29	D4	9	LEU
29	D4	13	ARG
29	D4	14	ILE
29	D4	20	ASN
29	D4	28	LYS
29	D4	32	TYR
29	D4	40	HIS
29	D4	42	PHE
29	D4	43	TYR
29	D4	49	PHE
29	D4	55	ARG
30	D5	4	HIS
30	D5	55	ARG
30	D5	58	LEU
31	D6	7	ILE

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Mol	Chain	Res	Type
31	D6	9	LEU
31	D6	10	LEU
31	D6	11	LEU
31	D6	15	GLU
31	D6	18	ARG
31	D6	23	THR
31	D6	27	LYS
31	D6	30	THR
31	D6	31	PRO
31	D6	39	TYR
31	D6	42	TRP
32	D7	1	MET
32	D7	4	THR
32	D7	48	LYS
33	D8	6	THR
33	D8	14	VAL
33	D8	31	HIS
33	D8	32	LEU
33	D8	33	ASN
33	D8	34	TRP
33	D8	48	PHE
33	D8	49	VAL
33	D8	61	LEU
34	D9	2	LYS
34	D9	7	VAL
34	D9	10	ILE
34	D9	29	ASN
37	DC	18	ASN
37	DC	31	LYS
37	DC	48	LEU
37	DC	54	ARG
37	DC	58	ASN
37	DC	74	ARG
37	DC	121	MET
37	DC	149	ASN
37	DC	152	GLU
37	DC	184	GLU
37	DC	185	LYS
37	DC	189	ASN
37	DC	211	ARG
37	DC	212	SER
38	DD	10	THR

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Mol	Chain	Res	Type
38	DD	23	GLU
38	DD	24	ILE
38	DD	25	THR
38	DD	26	LYS
38	DD	35	LYS
38	DD	37	LEU
38	DD	61	LEU
38	DD	65	ILE
38	DD	87	ASN
38	DD	89	SER
38	DD	92	ILE
38	DD	94	LEU
38	DD	95	LEU
38	DD	106	ILE
38	DD	111	LEU
38	DD	117	VAL
38	DD	131	LEU
38	DD	157	ARG
38	DD	166	GLN
38	DD	183	ARG
38	DD	192	THR
38	DD	202	LYS
38	DD	212	SER
38	DD	221	VAL
38	DD	227	ASN
38	DD	228	PRO
38	DD	244	ARG
38	DD	246	PRO
38	DD	257	LEU
38	DD	260	ARG
38	DD	263	ARG
38	DD	270	ILE
38	DD	271	ILE
38	DD	275	LYS
39	DE	4	ILE
39	DE	9	VAL
39	DE	14	ILE
39	DE	26	ILE
39	DE	33	VAL
39	DE	49	LEU
39	DE	54	GLN
39	DE	55	ASN

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Mol	Chain	Res	Type
39	DE	61	ARG
39	DE	67	PHE
39	DE	69	LYS
39	DE	76	ARG
39	DE	78	LEU
39	DE	94	GLU
39	DE	95	ILE
39	DE	102	VAL
39	DE	118	LYS
39	DE	119	ARG
39	DE	121	ASN
39	DE	134	ILE
39	DE	144	ARG
39	DE	175	VAL
39	DE	178	GLU
39	DE	184	VAL
39	DE	188	VAL
39	DE	192	ASN
39	DE	197	ILE
39	DE	202	LYS
39	DE	203	LYS
40	DF	19	GLU
40	DF	28	ILE
40	DF	41	LEU
40	DF	64	ILE
40	DF	66	PRO
40	DF	83	PHE
40	DF	106	ARG
40	DF	125	LEU
40	DF	149	ASP
40	DF	165	ARG
40	DF	175	THR
40	DF	179	GLU
41	DG	4	ASP
41	DG	26	GLN
41	DG	28	VAL
41	DG	33	ARG
41	DG	34	LEU
41	DG	37	VAL
41	DG	38	VAL
41	DG	43	LEU
41	DG	45	GLU

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Mol	Chain	Res	Type
41	DG	47	LYS
41	DG	49	ASP
41	DG	55	LYS
41	DG	59	GLU
41	DG	62	LEU
41	DG	80	PHE
41	DG	82	LEU
41	DG	83	ARG
41	DG	88	ILE
41	DG	98	ARG
41	DG	120	LEU
41	DG	123	ASN
41	DG	135	LEU
41	DG	143	GLU
41	DG	145	THR
41	DG	148	MET
41	DG	159	VAL
41	DG	166	ASP
41	DG	167	GLU
42	DH	15	VAL
42	DH	45	VAL
42	DH	46	GLU
42	DH	49	VAL
42	DH	53	GLU
42	DH	54	ARG
42	DH	83	TYR
42	DH	89	ILE
42	DH	104	GLU
42	DH	105	LEU
42	DH	111	HIS
42	DH	143	GLN
42	DH	158	HIS
42	DH	171	LEU
44	DK	2	LYS
44	DK	3	LYS
44	DK	4	VAL
44	DK	29	GLN
44	DK	30	HIS
44	DK	34	ILE
44	DK	38	VAL
44	DK	57	ILE
44	DK	59	ILE

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Mol	Chain	Res	Type
44	DK	65	PHE
44	DK	70	LYS
44	DK	73	PRO
44	DK	77	LEU
44	DK	86	LYS
44	DK	105	LEU
44	DK	117	THR
46	DN	1	MET
46	DN	4	TYR
46	DN	23	LEU
46	DN	26	LEU
46	DN	34	LEU
46	DN	39	ARG
46	DN	41	ASP
46	DN	45	ASN
46	DN	48	MET
46	DN	56	ASN
46	DN	63	THR
46	DN	65	LYS
46	DN	78	TYR
46	DN	96	GLU
46	DN	109	LYS
46	DN	120	LEU
46	DN	123	TYR
47	DO	23	ARG
47	DO	38	VAL
47	DO	40	VAL
47	DO	48	PRO
47	DO	49	ARG
47	DO	69	ILE
47	DO	87	ILE
47	DO	114	ILE
47	DO	117	LEU
48	DP	7	ARG
48	DP	13	ASN
48	DP	16	ARG
48	DP	18	ARG
48	DP	39	LYS
48	DP	41	ARG
48	DP	42	SER
48	DP	57	THR
48	DP	60	MET

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Mol	Chain	Res	Type
48	DP	61	ARG
48	DP	62	LEU
48	DP	70	GLN
48	DP	81	GLN
48	DP	85	LEU
48	DP	91	PHE
48	DP	112	LEU
48	DP	114	ILE
48	DP	123	LEU
48	DP	125	VAL
48	DP	149	GLU
49	DQ	14	ARG
49	DQ	17	LEU
49	DQ	45	GLN
49	DQ	46	GLN
49	DQ	55	VAL
49	DQ	56	ARG
49	DQ	58	PHE
49	DQ	65	PHE
49	DQ	67	ARG
49	DQ	76	LYS
49	DQ	79	LEU
49	DQ	81	VAL
49	DQ	134	ARG
49	DQ	135	ASP
49	DQ	139	GLU
49	DQ	141	GLN
50	DR	8	ARG
50	DR	27	SER
50	DR	30	THR
50	DR	33	ARG
50	DR	37	THR
50	DR	54	LEU
50	DR	65	LEU
50	DR	71	GLN
50	DR	74	LYS
50	DR	75	LEU
50	DR	94	TYR
50	DR	97	VAL
50	DR	99	LYS
50	DR	100	LEU
51	DS	11	LYS

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Mol	Chain	Res	Type
51	DS	12	PHE
51	DS	36	TYR
51	DS	63	THR
51	DS	64	GLU
51	DS	67	ARG
51	DS	92	TYR
51	DS	97	ARG
51	DS	101	LEU
51	DS	103	GLU
51	DS	106	ARG
52	DT	6	LEU
52	DT	13	ARG
52	DT	16	ARG
52	DT	24	PRO
52	DT	32	TYR
52	DT	38	ASN
52	DT	46	GLU
52	DT	49	VAL
52	DT	53	ARG
52	DT	58	ASN
52	DT	62	THR
52	DT	65	LYS
52	DT	75	ILE
52	DT	78	LEU
52	DT	82	LEU
52	DT	85	LYS
52	DT	90	GLN
52	DT	108	ARG
52	DT	115	ARG
52	DT	125	ARG
52	DT	129	ARG
53	DU	20	LEU
53	DU	34	LYS
53	DU	74	LEU
53	DU	92	ARG
53	DU	101	ARG
53	DU	108	GLU
53	DU	112	ARG
54	DV	1	MET
54	DV	18	LEU
54	DV	19	LYS
54	DV	21	ARG

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Mol	Chain	Res	Type
54	DV	24	LYS
54	DV	39	LEU
54	DV	40	LEU
54	DV	51	VAL
54	DV	89	GLN
54	DV	95	LEU
54	DV	98	GLU
54	DV	99	ILE
55	DW	11	ARG
55	DW	40	ASN
55	DW	52	GLU
55	DW	76	VAL
55	DW	88	ARG
55	DW	98	LYS
55	DW	107	LEU
56	DX	3	THR
56	DX	8	ILE
56	DX	11	PRO
56	DX	27	THR
56	DX	28	PHE
56	DX	30	VAL
56	DX	38	GLU
56	DX	51	VAL
56	DX	56	THR
56	DX	57	LEU
56	DX	68	ARG
56	DX	83	VAL
57	DY	2	ARG
57	DY	7	VAL
57	DY	9	LYS
57	DY	29	GLU
57	DY	32	PRO
57	DY	51	VAL
57	DY	53	PRO
57	DY	54	LYS
57	DY	55	TYR
57	DY	62	GLU
57	DY	77	PRO
57	DY	79	CYS
57	DY	90	LEU
57	DY	102	CYS
58	DZ	5	LEU

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Mol	Chain	Res	Type
58	DZ	6	LYS
58	DZ	8	TYR
58	DZ	20	ARG
58	DZ	24	LEU
58	DZ	31	ARG
58	DZ	72	ARG
58	DZ	81	ARG
58	DZ	91	LEU
58	DZ	92	SER
58	DZ	112	ARG
58	DZ	127	LYS
58	DZ	140	ASP
58	DZ	150	LEU
58	DZ	154	ASP
58	DZ	168	GLU
58	DZ	171	ILE
58	DZ	179	ASP
58	DZ	180	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (364) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	19	HIS
2	AB	37	ASN
2	AB	40	HIS
2	AB	78	GLN
2	AB	94	ASN
2	AB	110	GLN
2	AB	113	HIS
2	AB	146	GLN
2	AB	204	ASN
2	AB	224	GLN
3	AC	28	GLN
3	AC	108	ASN
3	AC	118	GLN
3	AC	170	GLN
3	AC	176	HIS
3	AC	181	ASN
4	AD	62	GLN
4	AD	74	GLN
4	AD	77	ASN
4	AD	129	ASN

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Mol	Chain	Res	Type
5	AE	20	GLN
5	AE	72	GLN
5	AE	73	ASN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	73	ASN
6	AF	100	ASN
7	AG	13	GLN
7	AG	68	ASN
7	AG	84	ASN
7	AG	97	GLN
7	AG	106	GLN
8	AH	82	HIS
9	AI	3	GLN
9	AI	29	ASN
9	AI	58	HIS
9	AI	87	GLN
9	AI	124	GLN
10	AJ	56	HIS
10	AJ	68	HIS
10	AJ	76	ASN
11	AK	22	HIS
12	AL	9	GLN
12	AL	49	ASN
12	AL	75	HIS
12	AL	99	HIS
13	AM	12	ASN
13	AM	40	ASN
13	AM	77	ASN
14	AN	49	HIS
15	AO	13	GLN
15	AO	37	ASN
15	AO	62	GLN
17	AQ	16	GLN
19	AS	14	HIS
19	AS	47	HIS
20	AT	18	GLN
20	AT	26	ASN
20	AT	42	GLN
20	AT	75	ASN
24	AY	14	ASN

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Mol	Chain	Res	Type
24	AY	124	GLN
24	AY	137	ASN
24	AY	165	GLN
24	AY	190	ASN
24	AY	208	GLN
24	AY	343	ASN
24	AY	421	GLN
24	AY	458	HIS
24	AY	475	ASN
24	AY	500	GLN
24	AY	527	ASN
24	AY	573	HIS
24	AY	630	GLN
24	AY	641	GLN
25	B0	12	ASN
25	B0	70	GLN
26	B1	45	ASN
26	B1	56	GLN
27	B2	38	GLN
27	B2	47	ASN
27	B2	56	GLN
28	B3	19	GLN
29	B4	6	HIS
29	B4	40	HIS
30	B5	22	HIS
30	B5	43	HIS
31	B6	20	ASN
31	B6	26	ASN
31	B6	32	ASN
32	B7	8	ASN
33	B8	31	HIS
33	B8	33	ASN
34	B9	29	ASN
37	BC	58	ASN
37	BC	149	ASN
37	BC	189	ASN
38	BD	58	HIS
38	BD	112	GLN
38	BD	115	GLN
38	BD	116	GLN
38	BD	126	GLN
38	BD	164	GLN

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Mol	Chain	Res	Type
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
38	BD	227	ASN
38	BD	253	GLN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	129	HIS
39	BE	143	ASN
39	BE	169	ASN
39	BE	180	ASN
39	BE	192	ASN
40	BF	8	GLN
40	BF	69	HIS
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
40	BF	169	ASN
40	BF	204	ASN
41	BG	27	ASN
41	BG	40	ASN
41	BG	108	ASN
42	BH	65	HIS
42	BH	74	ASN
42	BH	147	ASN
42	BH	158	HIS
44	BK	29	GLN
44	BK	33	ASN
44	BK	47	ASN
44	BK	89	HIS
46	BN	45	ASN
46	BN	69	GLN
46	BN	101	HIS
46	BN	131	GLN
47	BO	82	ASN
47	BO	90	GLN
48	BP	9	ASN
48	BP	13	ASN
48	BP	27	HIS
48	BP	35	HIS
48	BP	84	ASN

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Mol	Chain	Res	Type
48	BP	128	HIS
49	BQ	12	GLN
49	BQ	13	GLN
49	BQ	45	GLN
50	BR	3	HIS
50	BR	16	HIS
50	BR	23	ASN
50	BR	24	GLN
50	BR	61	HIS
52	BT	38	ASN
52	BT	43	GLN
52	BT	55	ASN
52	BT	58	ASN
52	BT	84	GLN
52	BT	90	GLN
53	BU	14	HIS
53	BU	44	ASN
53	BU	49	HIS
53	BU	66	ASN
53	BU	81	HIS
53	BU	117	GLN
55	BW	40	ASN
55	BW	61	ASN
55	BW	102	HIS
56	BX	41	ASN
56	BX	55	ASN
56	BX	82	GLN
58	BZ	54	HIS
58	BZ	65	GLN
58	BZ	118	GLN
58	BZ	121	HIS
2	CB	19	HIS
2	CB	37	ASN
2	CB	40	HIS
2	CB	78	GLN
2	CB	94	ASN
2	CB	110	GLN
2	CB	113	HIS
2	CB	146	GLN
2	CB	204	ASN
3	CC	28	GLN
3	CC	31	HIS

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Mol	Chain	Res	Type
3	CC	108	ASN
3	CC	118	GLN
3	CC	170	GLN
3	CC	176	HIS
3	CC	181	ASN
4	CD	42	GLN
4	CD	62	GLN
4	CD	74	GLN
4	CD	77	ASN
4	CD	129	ASN
5	CE	20	GLN
5	CE	72	GLN
5	CE	73	ASN
6	CF	18	GLN
6	CF	27	GLN
6	CF	32	ASN
6	CF	73	ASN
6	CF	100	ASN
7	CG	13	GLN
7	CG	68	ASN
7	CG	84	ASN
7	CG	86	GLN
7	CG	97	GLN
7	CG	106	GLN
8	CH	82	HIS
9	CI	3	GLN
9	CI	29	ASN
9	CI	58	HIS
9	CI	87	GLN
9	CI	124	GLN
10	CJ	56	HIS
10	CJ	68	HIS
10	CJ	76	ASN
10	CJ	84	GLN
11	CK	22	HIS
12	CL	9	GLN
12	CL	49	ASN
12	CL	75	HIS
13	CM	12	ASN
13	CM	40	ASN
13	CM	77	ASN
14	CN	49	HIS

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Mol	Chain	Res	Type
15	CO	13	GLN
15	CO	37	ASN
15	CO	62	GLN
17	CQ	16	GLN
19	CS	14	HIS
19	CS	47	HIS
20	CT	16	HIS
20	CT	26	ASN
20	CT	42	GLN
20	CT	75	ASN
24	CY	40	HIS
24	CY	117	GLN
24	CY	137	ASN
24	CY	165	GLN
24	CY	190	ASN
24	CY	226	ASN
24	CY	270	GLN
24	CY	343	ASN
24	CY	359	HIS
24	CY	421	GLN
24	CY	448	GLN
24	CY	458	HIS
24	CY	480	GLN
24	CY	500	GLN
24	CY	527	ASN
24	CY	543	GLN
24	CY	573	HIS
24	CY	625	ASN
24	CY	630	GLN
24	CY	664	GLN
25	D0	12	ASN
25	D0	70	GLN
26	D1	45	ASN
26	D1	56	GLN
27	D2	38	GLN
27	D2	47	ASN
27	D2	65	ASN
28	D3	19	GLN
29	D4	40	HIS
30	D5	22	HIS
30	D5	43	HIS
31	D6	20	ASN

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Mol	Chain	Res	Type
31	D6	26	ASN
31	D6	32	ASN
31	D6	49	HIS
32	D7	8	ASN
33	D8	31	HIS
33	D8	33	ASN
34	D9	29	ASN
37	DC	58	ASN
37	DC	149	ASN
37	DC	189	ASN
38	DD	58	HIS
38	DD	96	HIS
38	DD	112	GLN
38	DD	115	GLN
38	DD	116	GLN
38	DD	126	GLN
38	DD	164	GLN
38	DD	166	GLN
38	DD	186	HIS
38	DD	198	ASN
38	DD	227	ASN
38	DD	253	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	129	HIS
39	DE	143	ASN
39	DE	169	ASN
39	DE	180	ASN
39	DE	192	ASN
40	DF	8	GLN
40	DF	69	HIS
40	DF	75	HIS
40	DF	133	ASN
40	DF	160	ASN
40	DF	169	ASN
40	DF	204	ASN
41	DG	27	ASN
41	DG	41	GLN
41	DG	58	GLN
42	DH	65	HIS
42	DH	147	ASN

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Mol	Chain	Res	Type
42	DH	158	HIS
44	DK	29	GLN
44	DK	33	ASN
44	DK	47	ASN
44	DK	89	HIS
46	DN	45	ASN
46	DN	56	ASN
46	DN	69	GLN
46	DN	101	HIS
46	DN	131	GLN
47	DO	5	GLN
47	DO	82	ASN
48	DP	9	ASN
48	DP	13	ASN
48	DP	27	HIS
48	DP	84	ASN
48	DP	128	HIS
49	DQ	12	GLN
49	DQ	13	GLN
49	DQ	45	GLN
50	DR	3	HIS
50	DR	16	HIS
50	DR	23	ASN
50	DR	24	GLN
50	DR	61	HIS
51	DS	16	ASN
52	DT	38	ASN
52	DT	43	GLN
52	DT	55	ASN
52	DT	58	ASN
52	DT	84	GLN
52	DT	90	GLN
53	DU	14	HIS
53	DU	44	ASN
53	DU	49	HIS
53	DU	66	ASN
53	DU	81	HIS
53	DU	94	ASN
53	DU	117	GLN
55	DW	40	ASN
55	DW	61	ASN
55	DW	102	HIS

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Mol	Chain	Res	Type
56	DX	41	ASN
56	DX	55	ASN
56	DX	82	GLN
58	DZ	54	HIS
58	DZ	55	HIS
58	DZ	73	GLN
58	DZ	118	GLN
58	DZ	151	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	272 (18%)	43 (2%)
1	CA	1503/1522 (98%)	268 (17%)	43 (2%)
22	AV	76/77 (98%)	15 (19%)	0
22	AW	76/77 (98%)	25 (32%)	1 (1%)
22	CV	76/77 (98%)	14 (18%)	0
22	CW	76/77 (98%)	19 (25%)	1 (1%)
23	AX	11/25 (44%)	4 (36%)	1 (9%)
23	CX	11/25 (44%)	4 (36%)	1 (9%)
35	BA	2900/2915 (99%)	600 (20%)	71 (2%)
35	DA	2900/2915 (99%)	596 (20%)	71 (2%)
36	BB	118/122 (96%)	25 (21%)	0
36	DB	118/122 (96%)	25 (21%)	0
All	All	9368/9476 (98%)	1867 (19%)	232 (2%)

All (1867) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	33	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	60	A
1	AA	61	G
1	AA	62	U
1	AA	81	U

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Mol	Chain	Res	Type
1	AA	88	A
1	AA	89	C
1	AA	90	U
1	AA	91	C
1	AA	97	G
1	AA	98	G
1	AA	101	A
1	AA	104	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	129	U
1	AA	129(A)	G
1	AA	131	C
1	AA	144	G
1	AA	146	G
1	AA	147	G
1	AA	149	A
1	AA	160	A
1	AA	163	C
1	AA	181	G
1	AA	182	U
1	AA	189(G)	G
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	243	A
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	268	C
1	AA	281	G
1	AA	289	G
1	AA	316	G
1	AA	321	A

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Mol	Chain	Res	Type
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	350	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	366	C
1	AA	367	U
1	AA	372	C
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	437	U
1	AA	439	A
1	AA	444	C
1	AA	452	A
1	AA	460	G
1	AA	461	A
1	AA	471	G
1	AA	481	G
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A

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Mol	Chain	Res	Type
1	AA	534	U
1	AA	536	C
1	AA	547	A
1	AA	553	A
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	588	G
1	AA	596	C
1	AA	631	G
1	AA	632	A
1	AA	650	G
1	AA	653	A
1	AA	665	A
1	AA	682	G
1	AA	683	G
1	AA	686	U
1	AA	687	A
1	AA	688	G
1	AA	704	A
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	724	G
1	AA	728	A
1	AA	731	G
1	AA	744	C
1	AA	748	C
1	AA	755	G
1	AA	777	A
1	AA	793	U
1	AA	794	A
1	AA	813	U
1	AA	816	A
1	AA	817	C
1	AA	828	A

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Mol	Chain	Res	Type
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	858	G
1	AA	859	A
1	AA	867	G
1	AA	874	G
1	AA	895	G
1	AA	907	A
1	AA	914	A
1	AA	921	U
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	951	G
1	AA	960	U
1	AA	961	U
1	AA	968	A
1	AA	969	A
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	981	U
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	997	U
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A
1	AA	1010	G
1	AA	1027	C
1	AA	1030	C
1	AA	1030(B)	C
1	AA	1050	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U

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Mol	Chain	Res	Type
1	AA	1066	C
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1129	C
1	AA	1130	A
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1152	A
1	AA	1154	G
1	AA	1159	U
1	AA	1184	G
1	AA	1187	G
1	AA	1196	U
1	AA	1197	G
1	AA	1199	U
1	AA	1202	G
1	AA	1212	U
1	AA	1214	C
1	AA	1217	C
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1273	G
1	AA	1280	A
1	AA	1281	U
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A

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Mol	Chain	Res	Type
1	AA	1298	C
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1335	C
1	AA	1336	C
1	AA	1337	G
1	AA	1338	G
1	AA	1346	A
1	AA	1348	U
1	AA	1354	C
1	AA	1363	C
1	AA	1364	U
1	AA	1365	G
1	AA	1370	G
1	AA	1379	G
1	AA	1394	A
1	AA	1397	C
1	AA	1398	A
1	AA	1404	C
1	AA	1419	G
1	AA	1434	A
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1490	C
1	AA	1492	A
1	AA	1493	A
1	AA	1494	G
1	AA	1498	U
1	AA	1499	A
1	AA	1503	A
1	AA	1504	G

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Mol	Chain	Res	Type
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
22	AV	4	G
22	AV	5	G
22	AV	8	U
22	AV	17	C
22	AV	17(A)	U
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	47	U
22	AV	48	C
22	AV	63	G
22	AV	71	C
22	AV	75	C
22	AV	76	A
22	AW	5	G
22	AW	7	G
22	AW	8	U
22	AW	9	G
22	AW	10	G
22	AW	15	G
22	AW	18	U
22	AW	19	G
22	AW	20	G
22	AW	21	U
22	AW	22	A
22	AW	28	U
22	AW	48	U
22	AW	49	C
22	AW	50	G
22	AW	53	G
22	AW	62	C
22	AW	64	G
22	AW	66	C

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Mol	Chain	Res	Type
22	AW	68	C
22	AW	69	C
22	AW	72	C
22	AW	73	A
22	AW	74	A
22	AW	75	C
23	AX	12	A
23	AX	13	A
23	AX	14	A
23	AX	19	U
35	BA	9	U
35	BA	18	C
35	BA	28	A
35	BA	35	G
35	BA	42	G
35	BA	43	A
35	BA	45	C
35	BA	49	A
35	BA	50	U
35	BA	61	G
35	BA	63	U
35	BA	72	U
35	BA	75	G
35	BA	83	G
35	BA	84	A
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	92	A
35	BA	94	C
35	BA	95	G
35	BA	100	G
35	BA	102	G
35	BA	106	C
35	BA	116	C
35	BA	118	A
35	BA	119	A
35	BA	121	G
35	BA	125	G
35	BA	129	C
35	BA	139(A)	G
35	BA	141	A

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Mol	Chain	Res	Type
35	BA	142(A)	C
35	BA	155	U
35	BA	156	U
35	BA	157	U
35	BA	171	G
35	BA	174	C
35	BA	190	A
35	BA	196	A
35	BA	199	A
35	BA	204	A
35	BA	205	G
35	BA	212	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	227	A
35	BA	241	A
35	BA	248	G
35	BA	252	G
35	BA	261	G
35	BA	271(J)	C
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(O)	C
35	BA	271(Y)	U
35	BA	272	G
35	BA	272(A)	U
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	272(I)	U
35	BA	276	A
35	BA	280	C
35	BA	283	A
35	BA	286	C
35	BA	299	A
35	BA	310	A
35	BA	311	A
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G

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Mol	Chain	Res	Type
35	BA	336	C
35	BA	345	A
35	BA	346	A
35	BA	352	G
35	BA	353	G
35	BA	362	U
35	BA	363	G
35	BA	363(F)	A
35	BA	364	C
35	BA	365	C
35	BA	371	A
35	BA	372	G
35	BA	386	G
35	BA	396	G
35	BA	405	U
35	BA	406	G
35	BA	407	G
35	BA	411	G
35	BA	412	A
35	BA	428	A
35	BA	444	C
35	BA	448	U
35	BA	449	A
35	BA	455	C
35	BA	458	G
35	BA	475	U
35	BA	480	A
35	BA	481	G
35	BA	504	U
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	526	A
35	BA	527	C
35	BA	528	A
35	BA	529	A
35	BA	530	G
35	BA	531	C
35	BA	532	A
35	BA	544	G
35	BA	548	A
35	BA	552	G

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Mol	Chain	Res	Type
35	BA	555	U
35	BA	556	G
35	BA	562	U
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	587	C
35	BA	591	C
35	BA	592	G
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	615	G
35	BA	620	G
35	BA	622	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	653	A
35	BA	654	A
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(M)	C
35	BA	654(T)	C
35	BA	655	A
35	BA	675	A
35	BA	682	G
35	BA	686	G
35	BA	695	G
35	BA	699	A
35	BA	722	A
35	BA	727	A
35	BA	729	G
35	BA	730	C
35	BA	740	U
35	BA	745	G
35	BA	753	C
35	BA	764	A

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Mol	Chain	Res	Type
35	BA	765	G
35	BA	775	G
35	BA	776	G
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	788	A
35	BA	789	A
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	793	A
35	BA	794	G
35	BA	800	A
35	BA	805	G
35	BA	811	U
35	BA	812	C
35	BA	827	U
35	BA	828	U
35	BA	830	G
35	BA	840	C
35	BA	841	A
35	BA	859	G
35	BA	878	A
35	BA	889	C
35	BA	896	A
35	BA	897	C
35	BA	900	A
35	BA	904	C
35	BA	910	A
35	BA	926	A
35	BA	932	G
35	BA	940	G
35	BA	941	A
35	BA	945	A
35	BA	946	G
35	BA	959	A
35	BA	961	C
35	BA	962	G
35	BA	969	U
35	BA	974	G
35	BA	975	C

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Mol	Chain	Res	Type
35	BA	980	A
35	BA	983	A
35	BA	985	C
35	BA	990	A
35	BA	991	C
35	BA	996	A
35	BA	1005	C
35	BA	1011	G
35	BA	1012	U
35	BA	1013	C
35	BA	1021	A
35	BA	1022	G
35	BA	1023	U
35	BA	1026	U
35	BA	1033	U
35	BA	1034	G
35	BA	1039	G
35	BA	1044	G
35	BA	1045	A
35	BA	1047	G
35	BA	1048	A
35	BA	1049	C
35	BA	1052	C
35	BA	1053	C
35	BA	1054	A
35	BA	1058	G
35	BA	1062	G
35	BA	1067	A
35	BA	1070	A
35	BA	1073	A
35	BA	1076	C
35	BA	1088	A
35	BA	1090	U
35	BA	1109	C
35	BA	1111	A
35	BA	1112	G
35	BA	1114	G
35	BA	1115	G
35	BA	1122	G
35	BA	1126	A
35	BA	1135	C
35	BA	1136	G

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Mol	Chain	Res	Type
35	BA	1141	U
35	BA	1142	U
35	BA	1142(A)	A
35	BA	1143	A
35	BA	1146	C
35	BA	1155	A
35	BA	1157	G
35	BA	1158	C
35	BA	1159	U
35	BA	1170	G
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1177	A
35	BA	1204	A
35	BA	1210	A
35	BA	1211	U
35	BA	1212	G
35	BA	1213	A
35	BA	1220	A
35	BA	1221	C
35	BA	1224	C
35	BA	1238	G
35	BA	1247	A
35	BA	1248	G
35	BA	1250	G
35	BA	1251	C
35	BA	1252	G
35	BA	1255	U
35	BA	1256	G
35	BA	1266	G
35	BA	1271	G
35	BA	1272	A
35	BA	1273	U
35	BA	1287	A
35	BA	1300	U
35	BA	1302	A
35	BA	1314	C
35	BA	1326	U
35	BA	1329	U
35	BA	1330	C

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Mol	Chain	Res	Type
35	BA	1332	G
35	BA	1342	A
35	BA	1345	C
35	BA	1349	A
35	BA	1359	A
35	BA	1365	A
35	BA	1379	A
35	BA	1380	G
35	BA	1384	A
35	BA	1385	G
35	BA	1386	C
35	BA	1396	U
35	BA	1403	C
35	BA	1406	U
35	BA	1411	C
35	BA	1416	G
35	BA	1420	U
35	BA	1421	G
35	BA	1427	A
35	BA	1428	C
35	BA	1434	A
35	BA	1435	G
35	BA	1445	A
35	BA	1445(A)	C
35	BA	1453	U
35	BA	1455	G
35	BA	1459	G
35	BA	1460	A
35	BA	1461	G
35	BA	1467	C
35	BA	1476	C
35	BA	1477	A
35	BA	1478	G
35	BA	1482	G
35	BA	1484	G
35	BA	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1491	G
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A

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Mol	Chain	Res	Type
35	BA	1496	A
35	BA	1497	U
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1517	G
35	BA	1528(A)	A
35	BA	1541	G
35	BA	1542	A
35	BA	1544	A
35	BA	1553	A
35	BA	1554	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1588	C
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1615	C
35	BA	1616	A
35	BA	1618	A
35	BA	1634	A
35	BA	1640	C
35	BA	1644	C
35	BA	1648	C
35	BA	1668	A
35	BA	1674	G
35	BA	1678	G
35	BA	1698	A
35	BA	1699	G
35	BA	1718	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1744	C
35	BA	1748	G
35	BA	1763	G

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Mol	Chain	Res	Type
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1781	C
35	BA	1784	A
35	BA	1787	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1801	G
35	BA	1815	A
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1829	A
35	BA	1839	G
35	BA	1846	G
35	BA	1847	A
35	BA	1850	G
35	BA	1858	G
35	BA	1862	G
35	BA	1866	C
35	BA	1878	G
35	BA	1885	A
35	BA	1888	G
35	BA	1889	A
35	BA	1900	A
35	BA	1906	G
35	BA	1912	A
35	BA	1929	G
35	BA	1930	G
35	BA	1931	U
35	BA	1937	A
35	BA	1938	A
35	BA	1943	U
35	BA	1944	U
35	BA	1945	G
35	BA	1948	G
35	BA	1949	G
35	BA	1955	U
35	BA	1960	A
35	BA	1963	U

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Mol	Chain	Res	Type
35	BA	1964	G
35	BA	1967	C
35	BA	1969	A
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1987	G
35	BA	1993	U
35	BA	1997	G
35	BA	2004	G
35	BA	2021	C
35	BA	2022	U
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A
35	BA	2034	U
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2065	C
35	BA	2069	G
35	BA	2076	U
35	BA	2100	G
35	BA	2103	C
35	BA	2104	G
35	BA	2112	G
35	BA	2116	G
35	BA	2118	U
35	BA	2127	G
35	BA	2131	G
35	BA	2132	U
35	BA	2133	G
35	BA	2134	A
35	BA	2157	G
35	BA	2158	A
35	BA	2159	G
35	BA	2163	C
35	BA	2172	U
35	BA	2173	A

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Mol	Chain	Res	Type
35	BA	2185	C
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2192	G
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2202	C
35	BA	2203	U
35	BA	2205	C
35	BA	2206	G
35	BA	2207	G
35	BA	2208	A
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2263	C
35	BA	2273	A
35	BA	2283	C
35	BA	2286	A
35	BA	2288	A
35	BA	2297	C
35	BA	2302	G
35	BA	2305	A
35	BA	2306	C
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2325	G
35	BA	2334	G
35	BA	2336	A
35	BA	2345	G
35	BA	2346	A
35	BA	2347	C
35	BA	2348	U

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Mol	Chain	Res	Type
35	BA	2349	G
35	BA	2350	C
35	BA	2383	G
35	BA	2385	C
35	BA	2402	C
35	BA	2406	U
35	BA	2423	U
35	BA	2424	C
35	BA	2425	A
35	BA	2426	A
35	BA	2427	C
35	BA	2428	G
35	BA	2429	G
35	BA	2430	A
35	BA	2431	U
35	BA	2434	A
35	BA	2435	A
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2461	C
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2473	U
35	BA	2474	C
35	BA	2475	C
35	BA	2476	A
35	BA	2477	C
35	BA	2478	A
35	BA	2482	G
35	BA	2484	G
35	BA	2502	G
35	BA	2503	A
35	BA	2505	G
35	BA	2519	U
35	BA	2520	C
35	BA	2524	G
35	BA	2529	G
35	BA	2543	G
35	BA	2554	U
35	BA	2566	A

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Mol	Chain	Res	Type
35	BA	2567	G
35	BA	2572	A
35	BA	2577	A
35	BA	2585	U
35	BA	2586	C
35	BA	2602	A
35	BA	2609	U
35	BA	2610	C
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2646	C
35	BA	2655	G
35	BA	2657	A
35	BA	2658	C
35	BA	2670	A
35	BA	2673	G
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2706	G
35	BA	2712	U
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2726	U
35	BA	2733	A
35	BA	2750	A
35	BA	2751	G
35	BA	2755	C
35	BA	2756	U
35	BA	2757	A
35	BA	2758	A
35	BA	2762	G
35	BA	2763	G
35	BA	2764	A
35	BA	2765	A
35	BA	2766	G
35	BA	2778	A
35	BA	2779	U

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Mol	Chain	Res	Type
35	BA	2780	G
35	BA	2790	A
35	BA	2791	C
35	BA	2796	U
35	BA	2799	C
35	BA	2801	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2820	A
35	BA	2821	A
35	BA	2824	C
35	BA	2833	G
35	BA	2834	G
35	BA	2836	U
35	BA	2849	U
35	BA	2872	G
35	BA	2879	C
35	BA	2880	C
35	BA	2892	A
35	BA	2894	G
35	BA	2895	U
36	BB	8	U
36	BB	13	A
36	BB	15	A
36	BB	16	G
36	BB	22	U
36	BB	25	A
36	BB	33	G
36	BB	35	U
36	BB	41	U
36	BB	42	C
36	BB	45	A
36	BB	52	A
36	BB	53	A
36	BB	56	G
36	BB	67	G
36	BB	73	A
36	BB	81	G
36	BB	82	G
36	BB	88	C
36	BB	89	G

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Mol	Chain	Res	Type
36	BB	90	A
36	BB	103	G
36	BB	104	U
36	BB	110	G
36	BB	113	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	33	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	60	A
1	CA	61	G
1	CA	62	U
1	CA	81	U
1	CA	88	A
1	CA	89	C
1	CA	90	U
1	CA	91	C
1	CA	97	G
1	CA	98	G
1	CA	101	A
1	CA	104	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	129	U
1	CA	129(A)	G
1	CA	131	C
1	CA	144	G
1	CA	146	G
1	CA	147	G
1	CA	149	A
1	CA	160	A
1	CA	163	C
1	CA	181	G
1	CA	182	U
1	CA	189(G)	G
1	CA	189(H)	G
1	CA	195	A

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Mol	Chain	Res	Type
1	CA	197	A
1	CA	198	G
1	CA	202	U
1	CA	203	U
1	CA	204	U
1	CA	216	G
1	CA	243	A
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	268	C
1	CA	281	G
1	CA	289	G
1	CA	316	G
1	CA	321	A
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	344	A
1	CA	345	C
1	CA	346	G
1	CA	350	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	366	C
1	CA	367	U
1	CA	372	C
1	CA	397	A
1	CA	398	C
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	437	U
1	CA	439	A

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Mol	Chain	Res	Type
1	CA	444	C
1	CA	452	A
1	CA	460	G
1	CA	461	A
1	CA	471	G
1	CA	481	G
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	536	C
1	CA	547	A
1	CA	559	A
1	CA	560	U
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	588	G
1	CA	596	C
1	CA	631	G
1	CA	632	A
1	CA	650	G
1	CA	653	A
1	CA	665	A
1	CA	682	G
1	CA	683	G
1	CA	686	U
1	CA	687	A
1	CA	688	G
1	CA	704	A

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Mol	Chain	Res	Type
1	CA	721	G
1	CA	722	A
1	CA	723	U
1	CA	724	G
1	CA	728	A
1	CA	731	G
1	CA	744	C
1	CA	748	C
1	CA	755	G
1	CA	777	A
1	CA	793	U
1	CA	794	A
1	CA	813	U
1	CA	816	A
1	CA	817	C
1	CA	828	A
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	858	G
1	CA	859	A
1	CA	867	G
1	CA	874	G
1	CA	895	G
1	CA	907	A
1	CA	914	A
1	CA	921	U
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	951	G
1	CA	960	U
1	CA	961	U
1	CA	968	A
1	CA	969	A
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C

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Mol	Chain	Res	Type
1	CA	981	U
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	997	U
1	CA	1003	G
1	CA	1004	A
1	CA	1005	A
1	CA	1010	G
1	CA	1027	C
1	CA	1030	C
1	CA	1030(B)	C
1	CA	1050	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1102	A
1	CA	1117	G
1	CA	1124	G
1	CA	1125	U
1	CA	1129	C
1	CA	1130	A
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1152	A
1	CA	1154	G
1	CA	1159	U
1	CA	1184	G
1	CA	1187	G
1	CA	1196	U
1	CA	1197	G
1	CA	1199	U
1	CA	1202	G
1	CA	1212	U
1	CA	1214	C

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Mol	Chain	Res	Type
1	CA	1217	C
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1238	A
1	CA	1240	U
1	CA	1241	G
1	CA	1249	C
1	CA	1256	A
1	CA	1257	U
1	CA	1273	G
1	CA	1280	A
1	CA	1281	U
1	CA	1285	A
1	CA	1286	A
1	CA	1287	A
1	CA	1298	C
1	CA	1299	A
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1317	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1335	C
1	CA	1336	C
1	CA	1337	G
1	CA	1338	G
1	CA	1346	A
1	CA	1348	U
1	CA	1354	C
1	CA	1363	C
1	CA	1364	U
1	CA	1365	G
1	CA	1370	G
1	CA	1379	G
1	CA	1394	A
1	CA	1397	C
1	CA	1398	A
1	CA	1404	C
1	CA	1419	G

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Mol	Chain	Res	Type
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1490	C
1	CA	1492	A
1	CA	1493	A
1	CA	1494	G
1	CA	1498	U
1	CA	1499	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1519	A
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
22	CV	3	C
22	CV	4	G
22	CV	5	G
22	CV	17	C
22	CV	17(A)	U
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	47	U
22	CV	48	C
22	CV	63	G
22	CV	75	C
22	CV	76	A
22	CW	4	G
22	CW	5	G
22	CW	7	G
22	CW	9	G
22	CW	10	G
22	CW	15	G
22	CW	18	U

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Mol	Chain	Res	Type
22	CW	19	G
22	CW	20	G
22	CW	21	U
22	CW	22	A
22	CW	48	U
22	CW	49	C
22	CW	53	G
22	CW	66	C
22	CW	72	C
22	CW	73	A
22	CW	74	A
22	CW	75	C
23	CX	12	A
23	CX	13	A
23	CX	14	A
23	CX	19	U
35	DA	9	U
35	DA	18	C
35	DA	28	A
35	DA	35	G
35	DA	42	G
35	DA	43	A
35	DA	45	C
35	DA	49	A
35	DA	50	U
35	DA	61	G
35	DA	63	U
35	DA	72	U
35	DA	75	G
35	DA	83	G
35	DA	84	A
35	DA	85	G
35	DA	88	G
35	DA	90	U
35	DA	92	A
35	DA	94	C
35	DA	95	G
35	DA	100	G
35	DA	102	G
35	DA	106	C
35	DA	116	C
35	DA	118	A

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Mol	Chain	Res	Type
35	DA	119	A
35	DA	121	G
35	DA	125	G
35	DA	129	C
35	DA	139(A)	G
35	DA	141	A
35	DA	142(A)	C
35	DA	155	U
35	DA	156	U
35	DA	157	U
35	DA	171	G
35	DA	174	C
35	DA	190	A
35	DA	196	A
35	DA	199	A
35	DA	204	A
35	DA	205	G
35	DA	212	G
35	DA	215	G
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	227	A
35	DA	241	A
35	DA	248	G
35	DA	252	G
35	DA	261	G
35	DA	271(J)	C
35	DA	271(K)	U
35	DA	271(L)	U
35	DA	271(O)	C
35	DA	271(Y)	U
35	DA	272	G
35	DA	272(A)	U
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	272(I)	U
35	DA	276	A
35	DA	280	C
35	DA	283	A
35	DA	286	C
35	DA	299	A

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Mol	Chain	Res	Type
35	DA	310	A
35	DA	311	A
35	DA	329	G
35	DA	330	A
35	DA	332	A
35	DA	333	G
35	DA	336	C
35	DA	345	A
35	DA	346	A
35	DA	352	G
35	DA	353	G
35	DA	362	U
35	DA	363	G
35	DA	363(F)	A
35	DA	364	C
35	DA	365	C
35	DA	371	A
35	DA	372	G
35	DA	386	G
35	DA	396	G
35	DA	405	U
35	DA	406	G
35	DA	407	G
35	DA	411	G
35	DA	412	A
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	449	A
35	DA	455	C
35	DA	458	G
35	DA	475	U
35	DA	480	A
35	DA	481	G
35	DA	504	U
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	526	A
35	DA	527	C
35	DA	528	A
35	DA	529	A

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Mol	Chain	Res	Type
35	DA	530	G
35	DA	531	C
35	DA	532	A
35	DA	544	G
35	DA	548	A
35	DA	552	G
35	DA	555	U
35	DA	556	G
35	DA	562	U
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	587	C
35	DA	591	C
35	DA	592	G
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614(B)	G
35	DA	615	G
35	DA	620	G
35	DA	622	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	651	G
35	DA	653	A
35	DA	654	A
35	DA	654(I)	C
35	DA	654(J)	A
35	DA	654(K)	C
35	DA	654(M)	C
35	DA	654(T)	C
35	DA	655	A
35	DA	675	A
35	DA	682	G
35	DA	686	G
35	DA	695	G
35	DA	699	A
35	DA	722	A
35	DA	727	A

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Mol	Chain	Res	Type
35	DA	729	G
35	DA	730	C
35	DA	740	U
35	DA	745	G
35	DA	753	C
35	DA	764	A
35	DA	765	G
35	DA	775	G
35	DA	776	G
35	DA	782	A
35	DA	784	A
35	DA	785	G
35	DA	788	A
35	DA	789	A
35	DA	790	C
35	DA	791	C
35	DA	792	G
35	DA	793	A
35	DA	794	G
35	DA	800	A
35	DA	805	G
35	DA	811	U
35	DA	812	C
35	DA	827	U
35	DA	828	U
35	DA	830	G
35	DA	840	C
35	DA	841	A
35	DA	859	G
35	DA	878	A
35	DA	889	C
35	DA	896	A
35	DA	897	C
35	DA	900	A
35	DA	904	C
35	DA	910	A
35	DA	926	A
35	DA	932	G
35	DA	940	G
35	DA	941	A
35	DA	945	A
35	DA	946	G

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Mol	Chain	Res	Type
35	DA	959	A
35	DA	961	C
35	DA	962	G
35	DA	969	U
35	DA	974	G
35	DA	975	C
35	DA	980	A
35	DA	983	A
35	DA	985	C
35	DA	990	A
35	DA	991	C
35	DA	996	A
35	DA	1005	C
35	DA	1011	G
35	DA	1012	U
35	DA	1013	C
35	DA	1021	A
35	DA	1022	G
35	DA	1023	U
35	DA	1026	U
35	DA	1033	U
35	DA	1034	G
35	DA	1039	G
35	DA	1044	G
35	DA	1045	A
35	DA	1047	G
35	DA	1048	A
35	DA	1049	C
35	DA	1052	C
35	DA	1053	C
35	DA	1054	A
35	DA	1058	G
35	DA	1062	G
35	DA	1067	A
35	DA	1070	A
35	DA	1073	A
35	DA	1076	C
35	DA	1088	A
35	DA	1090	U
35	DA	1109	C
35	DA	1111	A
35	DA	1112	G

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Mol	Chain	Res	Type
35	DA	1114	G
35	DA	1115	G
35	DA	1122	G
35	DA	1126	A
35	DA	1135	C
35	DA	1136	G
35	DA	1141	U
35	DA	1142	U
35	DA	1142(A)	A
35	DA	1143	A
35	DA	1146	C
35	DA	1155	A
35	DA	1157	G
35	DA	1158	C
35	DA	1159	U
35	DA	1170	G
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1177	A
35	DA	1204	A
35	DA	1210	A
35	DA	1211	U
35	DA	1212	G
35	DA	1213	A
35	DA	1220	A
35	DA	1221	C
35	DA	1224	C
35	DA	1238	G
35	DA	1247	A
35	DA	1248	G
35	DA	1250	G
35	DA	1251	C
35	DA	1252	G
35	DA	1255	U
35	DA	1256	G
35	DA	1266	G
35	DA	1271	G
35	DA	1272	A
35	DA	1273	U
35	DA	1287	A

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Mol	Chain	Res	Type
35	DA	1300	U
35	DA	1302	A
35	DA	1314	C
35	DA	1326	U
35	DA	1329	U
35	DA	1330	C
35	DA	1332	G
35	DA	1342	A
35	DA	1345	C
35	DA	1349	A
35	DA	1359	A
35	DA	1365	A
35	DA	1379	A
35	DA	1380	G
35	DA	1384	A
35	DA	1385	G
35	DA	1386	C
35	DA	1396	U
35	DA	1403	C
35	DA	1406	U
35	DA	1411	C
35	DA	1416	G
35	DA	1420	U
35	DA	1421	G
35	DA	1427	A
35	DA	1428	C
35	DA	1434	A
35	DA	1435	G
35	DA	1445	A
35	DA	1445(A)	C
35	DA	1453	U
35	DA	1455	G
35	DA	1459	G
35	DA	1460	A
35	DA	1461	G
35	DA	1467	C
35	DA	1476	C
35	DA	1477	A
35	DA	1478	G
35	DA	1482	G
35	DA	1484	G
35	DA	1485	G

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Mol	Chain	Res	Type
35	DA	1488	G
35	DA	1490	A
35	DA	1491	G
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1496	A
35	DA	1497	U
35	DA	1505	C
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1517	G
35	DA	1528(A)	A
35	DA	1541	G
35	DA	1542	A
35	DA	1544	A
35	DA	1553	A
35	DA	1554	A
35	DA	1559	G
35	DA	1569	A
35	DA	1578	U
35	DA	1579	A
35	DA	1584	C
35	DA	1586	A
35	DA	1588	C
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1615	C
35	DA	1616	A
35	DA	1618	A
35	DA	1634	A
35	DA	1640	C
35	DA	1644	C
35	DA	1648	C
35	DA	1668	A
35	DA	1674	G
35	DA	1678	G
35	DA	1698	A
35	DA	1699	G
35	DA	1718	G

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Mol	Chain	Res	Type
35	DA	1722	A
35	DA	1739	U
35	DA	1740	G
35	DA	1744	C
35	DA	1748	G
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1781	C
35	DA	1784	A
35	DA	1787	A
35	DA	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1801	G
35	DA	1815	A
35	DA	1816	G
35	DA	1820	U
35	DA	1821	A
35	DA	1829	A
35	DA	1839	G
35	DA	1846	G
35	DA	1847	A
35	DA	1850	G
35	DA	1858	G
35	DA	1862	G
35	DA	1866	C
35	DA	1878	G
35	DA	1885	A
35	DA	1888	G
35	DA	1889	A
35	DA	1900	A
35	DA	1906	G
35	DA	1912	A
35	DA	1929	G
35	DA	1930	G
35	DA	1931	U
35	DA	1937	A
35	DA	1938	A
35	DA	1943	U
35	DA	1944	U

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Mol	Chain	Res	Type
35	DA	1945	G
35	DA	1948	G
35	DA	1949	G
35	DA	1955	U
35	DA	1960	A
35	DA	1963	U
35	DA	1964	G
35	DA	1967	C
35	DA	1969	A
35	DA	1970	A
35	DA	1971	A
35	DA	1972	A
35	DA	1993	U
35	DA	1997	G
35	DA	2004	G
35	DA	2021	C
35	DA	2022	U
35	DA	2023	G
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2043	C
35	DA	2055	C
35	DA	2056	G
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2065	C
35	DA	2069	G
35	DA	2076	U
35	DA	2100	G
35	DA	2103	C
35	DA	2104	G
35	DA	2112	G
35	DA	2116	G
35	DA	2118	U
35	DA	2127	G
35	DA	2132	U
35	DA	2133	G
35	DA	2134	A
35	DA	2157	G
35	DA	2158	A

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Mol	Chain	Res	Type
35	DA	2159	G
35	DA	2163	C
35	DA	2172	U
35	DA	2173	A
35	DA	2185	C
35	DA	2187	G
35	DA	2189	U
35	DA	2190	G
35	DA	2192	G
35	DA	2193	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2202	C
35	DA	2203	U
35	DA	2205	C
35	DA	2206	G
35	DA	2207	G
35	DA	2208	A
35	DA	2219	G
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2263	C
35	DA	2273	A
35	DA	2283	C
35	DA	2286	A
35	DA	2288	A
35	DA	2297	C
35	DA	2302	G
35	DA	2305	A
35	DA	2306	C
35	DA	2307	G
35	DA	2308	G
35	DA	2309	A
35	DA	2313	C
35	DA	2319	G
35	DA	2320	A
35	DA	2325	G
35	DA	2334	G
35	DA	2336	A

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Mol	Chain	Res	Type
35	DA	2345	G
35	DA	2346	A
35	DA	2347	C
35	DA	2348	U
35	DA	2349	G
35	DA	2350	C
35	DA	2383	G
35	DA	2385	C
35	DA	2402	C
35	DA	2423	U
35	DA	2424	C
35	DA	2425	A
35	DA	2426	A
35	DA	2427	C
35	DA	2428	G
35	DA	2429	G
35	DA	2430	A
35	DA	2431	U
35	DA	2434	A
35	DA	2435	A
35	DA	2439	A
35	DA	2441	C
35	DA	2448	A
35	DA	2461	C
35	DA	2465	C
35	DA	2469	A
35	DA	2470	G
35	DA	2473	U
35	DA	2474	C
35	DA	2475	C
35	DA	2476	A
35	DA	2477	C
35	DA	2478	A
35	DA	2482	G
35	DA	2484	G
35	DA	2502	G
35	DA	2503	A
35	DA	2505	G
35	DA	2519	U
35	DA	2520	C
35	DA	2524	G
35	DA	2529	G

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Mol	Chain	Res	Type
35	DA	2543	G
35	DA	2554	U
35	DA	2566	A
35	DA	2567	G
35	DA	2572	A
35	DA	2573	C
35	DA	2577	A
35	DA	2585	U
35	DA	2586	C
35	DA	2602	A
35	DA	2609	U
35	DA	2610	C
35	DA	2611	U
35	DA	2612	C
35	DA	2615	U
35	DA	2630	G
35	DA	2646	C
35	DA	2655	G
35	DA	2657	A
35	DA	2658	C
35	DA	2670	A
35	DA	2673	G
35	DA	2682	U
35	DA	2690	C
35	DA	2691	C
35	DA	2702	U
35	DA	2703	C
35	DA	2712	U
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2726	U
35	DA	2733	A
35	DA	2750	A
35	DA	2751	G
35	DA	2755	C
35	DA	2756	U
35	DA	2757	A
35	DA	2758	A
35	DA	2762	G
35	DA	2764	A
35	DA	2765	A
35	DA	2766	G

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Mol	Chain	Res	Type
35	DA	2778	A
35	DA	2779	U
35	DA	2780	G
35	DA	2790	A
35	DA	2791	C
35	DA	2796	U
35	DA	2799	C
35	DA	2801	A
35	DA	2802	G
35	DA	2803	C
35	DA	2808	U
35	DA	2820	A
35	DA	2821	A
35	DA	2824	C
35	DA	2833	G
35	DA	2834	G
35	DA	2836	U
35	DA	2849	U
35	DA	2872	G
35	DA	2879	C
35	DA	2880	C
35	DA	2892	A
35	DA	2894	G
35	DA	2895	U
36	DB	8	U
36	DB	13	A
36	DB	15	A
36	DB	16	G
36	DB	22	U
36	DB	25	A
36	DB	33	G
36	DB	35	U
36	DB	41	U
36	DB	42	C
36	DB	45	A
36	DB	52	A
36	DB	53	A
36	DB	56	G
36	DB	67	G
36	DB	73	A
36	DB	81	G
36	DB	82	G

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Mol	Chain	Res	Type
36	DB	88	C
36	DB	89	G
36	DB	90	A
36	DB	103	G
36	DB	104	U
36	DB	110	G
36	DB	113	G

All (232) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	203	U
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	315	A
1	AA	328	C
1	AA	344	A
1	AA	353	A
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	438	G
1	AA	532	A
1	AA	533	A
1	AA	535	A
1	AA	560	U
1	AA	575	G
1	AA	576	G
1	AA	631	G
1	AA	703	G
1	AA	812	C
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1065	U
1	AA	1101	A
1	AA	1129	C

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Mol	Chain	Res	Type
1	AA	1201	A
1	AA	1225	A
1	AA	1226	C
1	AA	1285	A
1	AA	1299	A
1	AA	1300	G
1	AA	1337	G
1	AA	1347	G
1	AA	1364	U
1	AA	1493	A
1	AA	1498	U
1	AA	1505	G
22	AW	73	A
23	AX	11	U
35	BA	27	G
35	BA	49	A
35	BA	74	A
35	BA	120	U
35	BA	128	C
35	BA	221	A
35	BA	226	G
35	BA	329	G
35	BA	331	A
35	BA	332	A
35	BA	363(F)	A
35	BA	474	G
35	BA	503	A
35	BA	603	A
35	BA	614(A)	U
35	BA	614(C)	A
35	BA	728	G
35	BA	739	G
35	BA	752	A
35	BA	764	A
35	BA	961	C
35	BA	1020	A
35	BA	1022	G
35	BA	1052	C
35	BA	1057	A
35	BA	1156	A
35	BA	1173	G
35	BA	1210	A

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Mol	Chain	Res	Type
35	BA	1212	G
35	BA	1237	A
35	BA	1301	A
35	BA	1378	A
35	BA	1427	A
35	BA	1453	U
35	BA	1494	A
35	BA	1541	G
35	BA	1558	A
35	BA	1799	G
35	BA	1819	A
35	BA	1838	C
35	BA	1846	G
35	BA	1930	G
35	BA	1943	U
35	BA	1948	G
35	BA	1992	G
35	BA	2033	A
35	BA	2111	C
35	BA	2126	A
35	BA	2172	U
35	BA	2198	A
35	BA	2225	A
35	BA	2282	G
35	BA	2296	U
35	BA	2344	U
35	BA	2345	G
35	BA	2422	A
35	BA	2425	A
35	BA	2428	G
35	BA	2481	G
35	BA	2611	U
35	BA	2689	U
35	BA	2690	C
35	BA	2756	U
35	BA	2762	G
35	BA	2778	A
35	BA	2779	U
35	BA	2799	C
35	BA	2801(A)	A
35	BA	2835	A
35	BA	2849	U

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Mol	Chain	Res	Type
35	BA	2891	G
1	CA	30	U
1	CA	60	A
1	CA	115	G
1	CA	119	A
1	CA	203	U
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	315	A
1	CA	328	C
1	CA	344	A
1	CA	353	A
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	438	G
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	535	A
1	CA	560	U
1	CA	575	G
1	CA	576	G
1	CA	631	G
1	CA	703	G
1	CA	812	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1065	U
1	CA	1101	A
1	CA	1129	C
1	CA	1201	A
1	CA	1225	A
1	CA	1226	C
1	CA	1285	A
1	CA	1299	A
1	CA	1300	G
1	CA	1337	G
1	CA	1347	G
1	CA	1364	U

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Mol	Chain	Res	Type
1	CA	1493	A
1	CA	1498	U
22	CW	73	A
23	CX	11	U
35	DA	27	G
35	DA	49	A
35	DA	74	A
35	DA	120	U
35	DA	128	C
35	DA	221	A
35	DA	226	G
35	DA	329	G
35	DA	331	A
35	DA	332	A
35	DA	363(F)	A
35	DA	474	G
35	DA	503	A
35	DA	603	A
35	DA	614(A)	U
35	DA	614(C)	A
35	DA	728	G
35	DA	739	G
35	DA	752	A
35	DA	764	A
35	DA	961	C
35	DA	1020	A
35	DA	1022	G
35	DA	1052	C
35	DA	1057	A
35	DA	1156	A
35	DA	1173	G
35	DA	1210	A
35	DA	1212	G
35	DA	1237	A
35	DA	1301	A
35	DA	1378	A
35	DA	1427	A
35	DA	1453	U
35	DA	1494	A
35	DA	1541	G
35	DA	1558	A
35	DA	1799	G

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Mol	Chain	Res	Type
35	DA	1819	A
35	DA	1838	C
35	DA	1846	G
35	DA	1930	G
35	DA	1943	U
35	DA	1948	G
35	DA	1992	G
35	DA	2033	A
35	DA	2111	C
35	DA	2126	A
35	DA	2172	U
35	DA	2198	A
35	DA	2225	A
35	DA	2282	G
35	DA	2296	U
35	DA	2344	U
35	DA	2345	G
35	DA	2422	A
35	DA	2425	A
35	DA	2428	G
35	DA	2481	G
35	DA	2611	U
35	DA	2689	U
35	DA	2690	C
35	DA	2756	U
35	DA	2762	G
35	DA	2778	A
35	DA	2779	U
35	DA	2799	C
35	DA	2801(A)	A
35	DA	2835	A
35	DA	2849	U
35	DA	2891	G

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

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the

expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
22	5MU	AV	54	22	18,21,23	0.39	0	25,30,35	0.51	0
22	5MU	CW	55	22	18,21,23	0.31	0	25,30,35	0.51	0
22	5MU	AW	55	22	18,21,23	0.28	0	25,30,35	0.51	0
22	5MU	CV	54	22	18,21,23	0.29	0	25,30,35	0.48	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	5MU	AV	54	22	-	0/7/25/26	0/2/2/2
22	5MU	CW	55	22	-	0/7/25/26	0/2/2/2
22	5MU	AW	55	22	-	0/7/25/26	0/2/2/2
22	5MU	CV	54	22	-	0/7/25/26	0/2/2/2

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.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	AV	54	5MU	2	0
22	CW	55	5MU	2	0
22	AW	55	5MU	1	0
22	CV	54	5MU	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 14 ligands modelled in this entry, 10 are monoatomic - leaving 4 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
61	FUA	CY	702	-	39,40,40	1.71	7 (17%)	50,64,64	1.56	10 (20%)
61	FUA	AY	702	-	39,40,40	1.70	7 (17%)	50,64,64	1.70	8 (16%)
62	GDP	CY	703	60	29,30,30	1.08	1 (3%)	45,47,47	1.86	10 (22%)
62	GDP	AY	703	60	29,30,30	1.06	1 (3%)	45,47,47	1.72	9 (20%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
61	FUA	CY	702	-	-	8/16/92/92	0/4/4/4
61	FUA	AY	702	-	-	7/16/92/92	0/4/4/4
62	GDP	CY	703	60	-	3/16/32/32	0/3/3/3
62	GDP	AY	703	60	-	2/16/32/32	0/3/3/3

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	CY	702	FUA	C23-C22	-4.55	1.39	1.51
61	AY	702	FUA	C23-C22	-4.43	1.39	1.51
61	AY	702	FUA	C23-C24	-4.35	1.39	1.53
61	CY	702	FUA	C23-C24	-4.35	1.39	1.53
61	AY	702	FUA	C29-C22	4.24	1.53	1.47
61	CY	702	FUA	C29-C22	3.95	1.53	1.47
61	CY	702	FUA	C24-C25	-3.67	1.39	1.50
61	AY	702	FUA	C24-C25	-3.54	1.39	1.50
61	AY	702	FUA	C14-C8	-3.25	1.53	1.59
61	CY	702	FUA	C14-C8	-3.22	1.53	1.59
62	CY	703	GDP	C5-N7	-2.92	1.33	1.39
62	AY	703	GDP	C5-N7	-2.81	1.33	1.39
61	CY	702	FUA	C25-C26	2.42	1.39	1.32
61	AY	702	FUA	C25-C26	2.25	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	CY	702	FUA	C10-C9	-2.24	1.53	1.57
61	AY	702	FUA	C10-C9	-2.20	1.53	1.57

All (37) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	CY	703	GDP	C2-N3-C4	5.50	121.78	112.30
61	AY	702	FUA	C24-C23-C22	5.35	124.11	112.72
62	AY	703	GDP	C2-N3-C4	5.33	121.48	112.30
62	CY	703	GDP	C5-C4-N3	-4.91	120.58	128.39
62	AY	703	GDP	C5-C4-N3	-4.78	120.78	128.39
61	CY	702	FUA	C16-O2-C31	-4.26	110.67	117.00
61	AY	702	FUA	C13-C12-C11	-4.18	105.84	111.90
61	CY	702	FUA	C24-C23-C22	4.09	121.43	112.72
61	AY	702	FUA	C16-O2-C31	-3.96	111.12	117.00
62	CY	703	GDP	C2'-C3'-C4'	-3.62	95.61	102.61
61	AY	702	FUA	C8-C9-C10	-3.35	112.82	116.42
62	CY	703	GDP	C2-N1-C6	-3.23	119.25	125.11
62	AY	703	GDP	C2-N1-C6	-3.22	119.27	125.11
62	CY	703	GDP	N9-C4-N3	3.17	132.29	125.95
61	CY	702	FUA	C13-C12-C11	-3.05	107.47	111.90
62	AY	703	GDP	N9-C4-N3	3.05	132.04	125.95
61	AY	702	FUA	O2-C31-C32	3.04	116.52	111.09
61	CY	702	FUA	C8-C9-C10	-2.81	113.40	116.42
62	CY	703	GDP	C8-N7-C5	2.60	108.89	104.26
62	CY	703	GDP	C4-C5-N7	-2.53	106.65	110.67
62	CY	703	GDP	N9-C8-N7	-2.47	108.81	113.40
62	AY	703	GDP	O6-C6-C5	-2.38	120.25	126.53
62	AY	703	GDP	C8-N7-C5	2.37	108.47	104.26
61	CY	702	FUA	O2-C31-C32	2.36	115.29	111.09
61	CY	702	FUA	C28-C26-C27	2.32	119.93	114.59
62	CY	703	GDP	O6-C6-C5	-2.30	120.46	126.53
62	AY	703	GDP	C4-C5-N7	-2.29	107.05	110.67
62	AY	703	GDP	N9-C8-N7	-2.26	109.21	113.40
61	AY	702	FUA	C28-C26-C27	2.24	119.75	114.59
61	CY	702	FUA	C10-C5-C4	-2.21	110.51	113.20
61	CY	702	FUA	C21-C14-C8	-2.20	110.41	112.23
61	CY	702	FUA	C24-C25-C26	-2.17	120.39	127.64
62	CY	703	GDP	C5-C6-N1	2.17	118.78	113.25
61	AY	702	FUA	C21-C14-C8	-2.16	110.44	112.23
62	AY	703	GDP	C5-C6-N1	2.11	118.63	113.25
61	CY	702	FUA	C19-C10-C9	-2.08	108.03	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	AY	702	FUA	C10-C5-C4	-2.05	110.71	113.20

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
61	AY	702	FUA	C13-C17-C22-C23
61	AY	702	FUA	C13-C17-C22-C29
61	CY	702	FUA	C13-C17-C22-C23
61	CY	702	FUA	C13-C17-C22-C29
62	AY	703	GDP	C5'-O5'-PA-O3A
62	AY	703	GDP	C5'-O5'-PA-O1A
62	CY	703	GDP	C5'-O5'-PA-O3A
62	CY	703	GDP	C5'-O5'-PA-O1A
61	AY	702	FUA	C32-C31-O2-C16
61	AY	702	FUA	O3-C31-O2-C16
61	AY	702	FUA	C29-C22-C23-C24
61	CY	702	FUA	C29-C22-C23-C24
61	AY	702	FUA	C17-C22-C23-C24
61	CY	702	FUA	C17-C22-C23-C24
61	CY	702	FUA	C23-C22-C29-O4
61	CY	702	FUA	C23-C22-C29-O5
62	CY	703	GDP	C5'-O5'-PA-O2A
61	CY	702	FUA	C17-C16-O2-C31
61	CY	702	FUA	C23-C24-C25-C26
61	AY	702	FUA	C23-C24-C25-C26

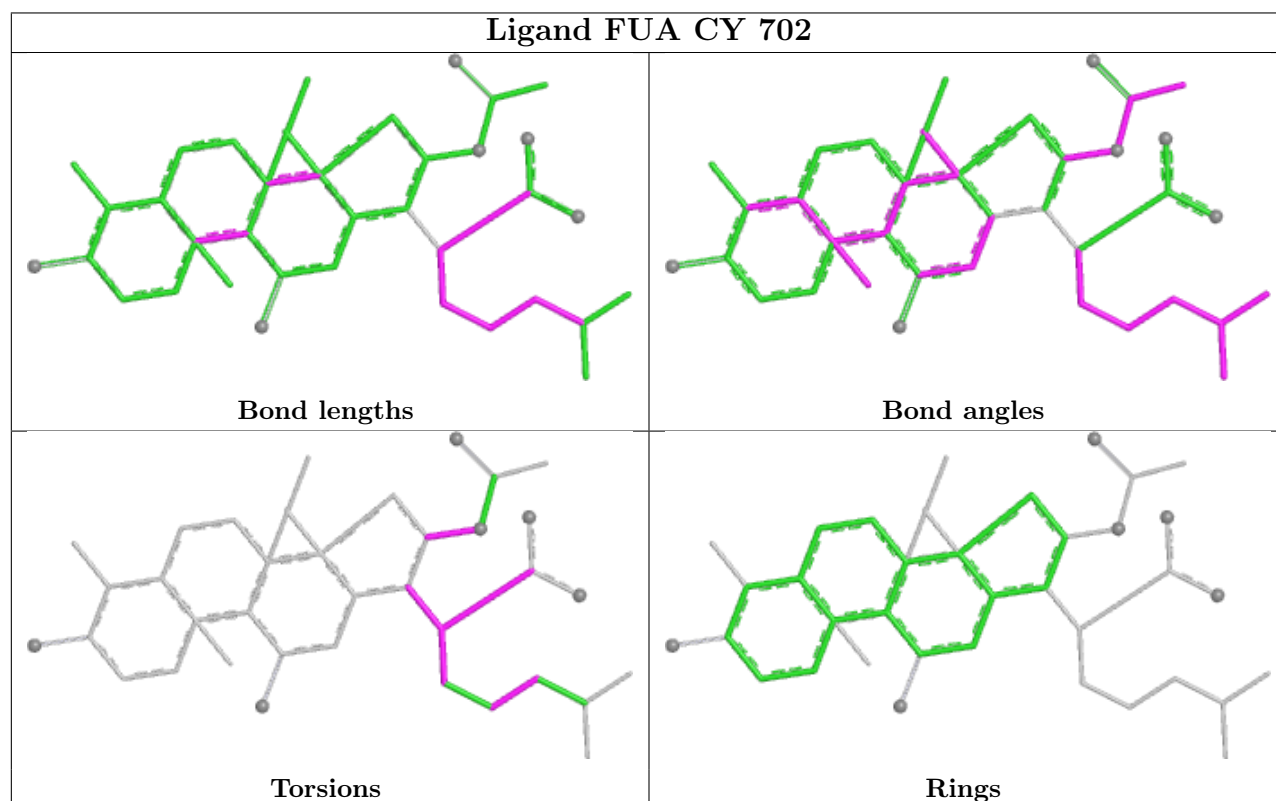
There are no ring outliers.

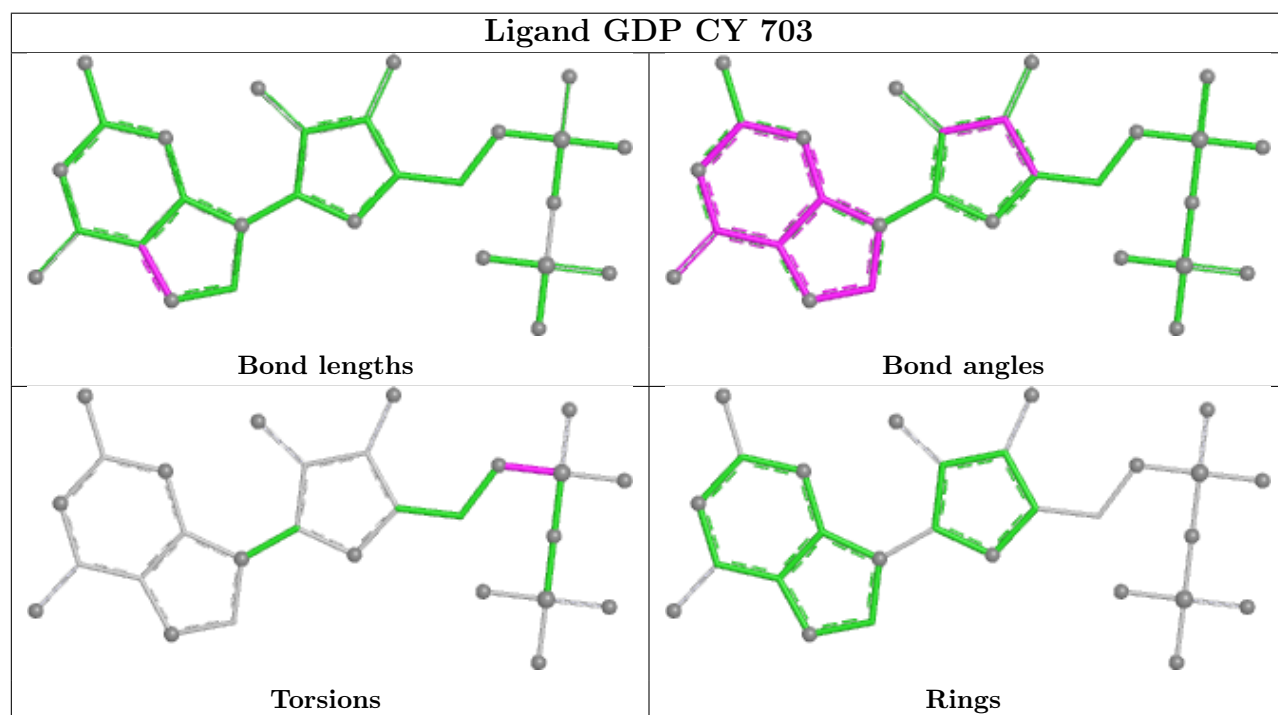
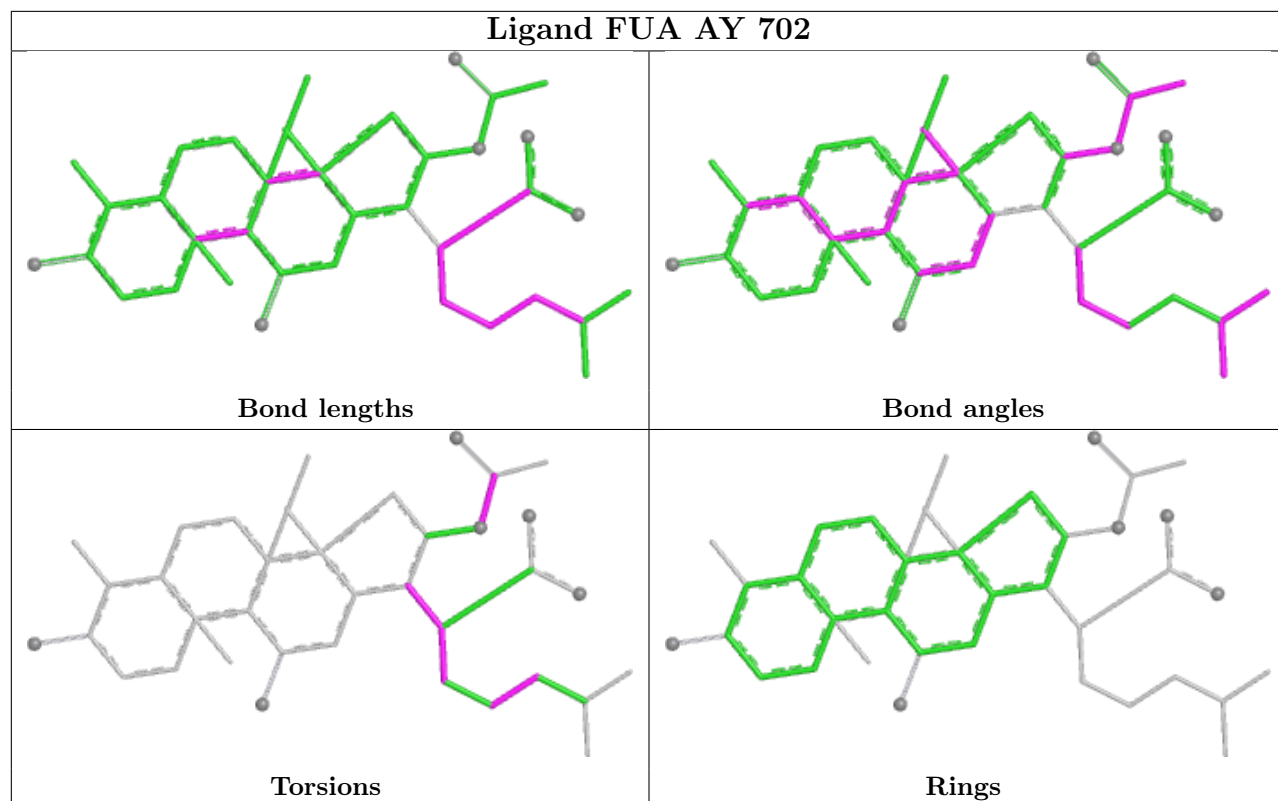
4 monomers are involved in 51 short contacts:

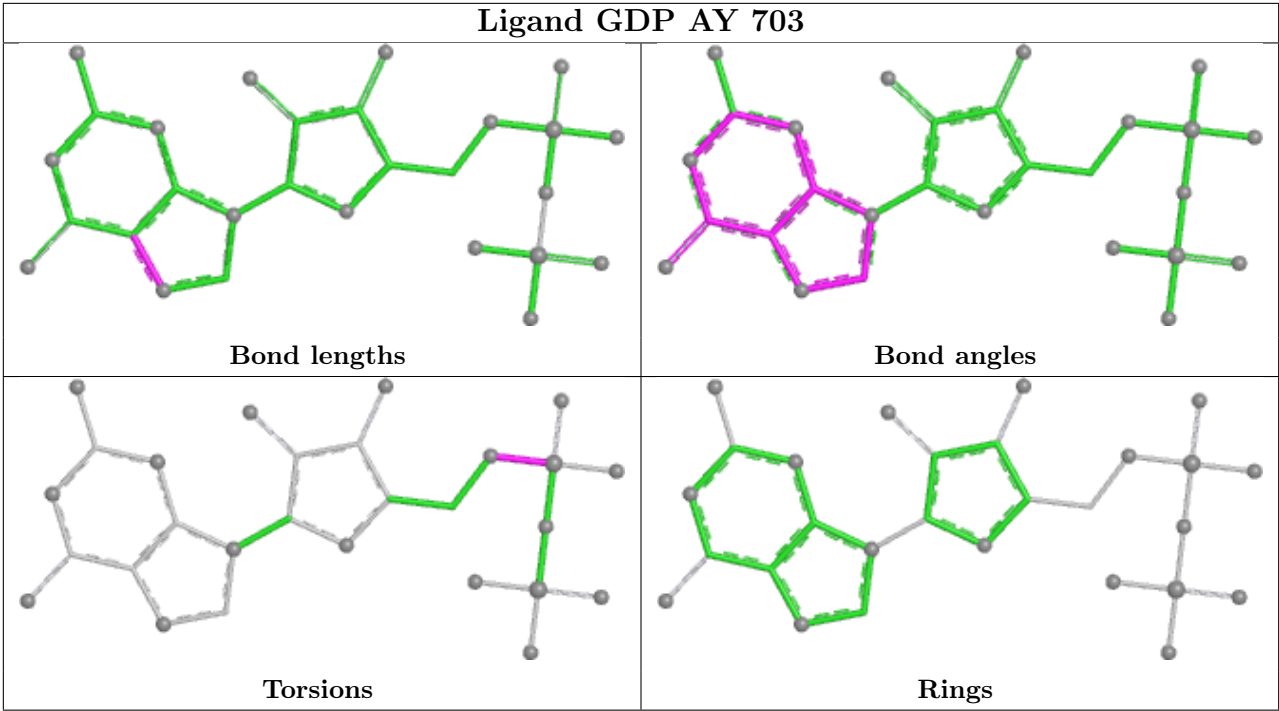
Mol	Chain	Res	Type	Clashes	Symm-Clashes
61	CY	702	FUA	22	0
61	AY	702	FUA	13	0
62	CY	703	GDP	8	0
62	AY	703	GDP	8	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be

highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.







5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
9	CI	2
9	AI	2
45	DL	1
45	BL	1
41	BG	1
41	DG	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DL	30:UNK	C	52:UNK	N	38.40
1	BL	30:UNK	C	52:UNK	N	36.36
1	BG	112:PRO	C	113:ARG	N	3.27
1	DG	112:PRO	C	113:ARG	N	3.05
1	CI	53:VAL	C	54:ASP	N	2.98
1	AI	53:VAL	C	54:ASP	N	2.92

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AI	104:ARG	C	105:ASP	N	2.54
1	CI	104:ARG	C	105:ASP	N	2.54

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	0.18	68 (4%)	38	21	23, 62, 148, 220	0
1	CA	1504/1522 (98%)	0.15	39 (2%)	57	33	26, 65, 148, 220	0
2	AB	235/256 (91%)	0.34	6 (2%)	57	33	40, 81, 147, 159	0
2	CB	235/256 (91%)	0.24	6 (2%)	57	33	43, 82, 147, 158	0
3	AC	207/239 (86%)	0.37	4 (1%)	66	39	31, 72, 113, 118	0
3	CC	207/239 (86%)	0.21	3 (1%)	73	46	33, 75, 115, 121	0
4	AD	208/209 (99%)	0.31	8 (3%)	44	25	46, 79, 115, 124	0
4	CD	208/209 (99%)	0.27	7 (3%)	48	27	48, 80, 116, 125	0
5	AE	151/162 (93%)	-0.26	0	100	100	25, 50, 90, 112	0
5	CE	151/162 (93%)	-0.18	1 (0%)	84	61	27, 52, 91, 112	0
6	AF	101/101 (100%)	0.23	0	100	100	55, 85, 110, 118	0
6	CF	101/101 (100%)	0.03	0	100	100	60, 87, 111, 118	0
7	AG	155/156 (99%)	0.21	5 (3%)	50	29	51, 79, 109, 136	0
7	CG	155/156 (99%)	0.14	6 (3%)	43	24	55, 81, 111, 136	0
8	AH	138/138 (100%)	-0.11	0	100	100	32, 54, 75, 82	0
8	CH	138/138 (100%)	-0.14	0	100	100	35, 56, 76, 83	0
9	AI	127/128 (99%)	0.61	6 (4%)	36	20	50, 83, 114, 120	0
9	CI	127/128 (99%)	0.40	4 (3%)	51	29	53, 86, 114, 120	0
10	AJ	99/105 (94%)	1.19	19 (19%)	3	3	47, 100, 155, 159	0
10	CJ	99/105 (94%)	0.81	10 (10%)	12	10	50, 102, 156, 159	0
11	AK	119/129 (92%)	0.06	5 (4%)	40	22	42, 59, 100, 123	0
11	CK	119/129 (92%)	0.01	3 (2%)	58	34	44, 60, 102, 124	0
12	AL	125/132 (94%)	0.03	1 (0%)	82	58	38, 57, 87, 127	0
12	CL	125/132 (94%)	0.05	2 (1%)	70	43	39, 58, 88, 129	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	0.80	12 (9%) 13 10	68, 111, 139, 171	0
13	CM	125/126 (99%)	0.63	11 (8%) 15 11	70, 112, 139, 172	0
14	AN	60/61 (98%)	0.43	3 (5%) 34 19	39, 59, 92, 97	0
14	CN	60/61 (98%)	0.30	2 (3%) 49 28	44, 61, 93, 98	0
15	AO	88/89 (98%)	-0.05	1 (1%) 78 52	35, 61, 91, 100	0
15	CO	88/89 (98%)	-0.07	0 100 100	38, 61, 94, 100	0
16	AP	84/88 (95%)	0.15	1 (1%) 76 50	54, 73, 96, 131	0
16	CP	84/88 (95%)	0.11	0 100 100	57, 74, 98, 132	0
17	AQ	100/105 (95%)	-0.08	0 100 100	43, 64, 89, 98	0
17	CQ	100/105 (95%)	-0.01	1 (1%) 79 54	46, 66, 90, 97	0
18	AR	70/88 (79%)	0.02	0 100 100	42, 69, 94, 108	0
18	CR	70/88 (79%)	-0.04	0 100 100	45, 70, 95, 109	0
19	AS	79/93 (84%)	0.92	7 (8%) 15 11	77, 106, 144, 149	0
19	CS	79/93 (84%)	0.67	2 (2%) 58 34	78, 107, 144, 150	0
20	AT	99/106 (93%)	0.39	6 (6%) 27 16	63, 84, 126, 129	0
20	CT	99/106 (93%)	0.33	4 (4%) 42 24	64, 85, 127, 129	0
21	AU	25/27 (92%)	1.19	5 (20%) 3 3	63, 82, 118, 122	0
21	CU	25/27 (92%)	0.90	1 (4%) 42 24	66, 86, 120, 123	0
22	AV	76/77 (98%)	-0.00	4 (5%) 32 19	32, 67, 110, 127	0
22	AW	76/77 (98%)	1.13	12 (15%) 5 5	71, 168, 192, 201	0
22	CV	76/77 (98%)	0.17	2 (2%) 57 33	47, 84, 121, 151	0
22	CW	76/77 (98%)	1.35	15 (19%) 3 3	78, 176, 200, 210	0
23	AX	11/25 (44%)	1.11	4 (36%) 1 1	28, 94, 149, 166	0
23	CX	11/25 (44%)	1.50	5 (45%) 0 1	45, 106, 156, 168	0
24	AY	667/691 (96%)	0.07	12 (1%) 67 40	61, 99, 140, 150	0
24	CY	667/691 (96%)	0.27	17 (2%) 58 34	73, 108, 148, 161	0
25	B0	84/85 (98%)	0.72	7 (8%) 17 12	67, 82, 140, 163	0
25	D0	84/85 (98%)	0.75	7 (8%) 17 12	69, 84, 141, 163	0
26	B1	94/98 (95%)	0.04	1 (1%) 78 52	41, 70, 118, 128	0
26	D1	94/98 (95%)	0.22	2 (2%) 63 37	53, 80, 123, 131	0
27	B2	71/72 (98%)	0.27	0 100 100	77, 116, 150, 161	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	D2	71/72 (98%)	0.20	0 100 100	95, 119, 146, 163	0
28	B3	60/60 (100%)	0.30	0 100 100	63, 88, 114, 135	0
28	D3	60/60 (100%)	0.37	0 100 100	64, 89, 114, 134	0
29	B4	58/71 (81%)	1.33	16 (27%) 1 2	76, 135, 220, 222	0
29	D4	58/71 (81%)	1.09	10 (17%) 4 4	77, 137, 220, 222	0
30	B5	59/60 (98%)	0.83	11 (18%) 3 4	52, 80, 153, 172	0
30	D5	59/60 (98%)	0.91	11 (18%) 3 4	52, 80, 153, 172	0
31	B6	50/54 (92%)	0.99	8 (16%) 5 5	56, 89, 107, 117	0
31	D6	50/54 (92%)	0.81	8 (16%) 5 5	56, 90, 108, 117	0
32	B7	49/49 (100%)	0.41	3 (6%) 27 16	47, 64, 119, 132	0
32	D7	49/49 (100%)	0.26	3 (6%) 27 16	47, 64, 120, 132	0
33	B8	64/65 (98%)	0.93	9 (14%) 6 6	63, 75, 105, 125	0
33	D8	64/65 (98%)	0.88	8 (12%) 8 7	65, 76, 105, 126	0
34	B9	37/37 (100%)	0.15	1 (2%) 56 32	60, 71, 85, 89	0
34	D9	37/37 (100%)	0.52	4 (10%) 11 9	60, 73, 87, 91	0
35	BA	2901/2915 (99%)	0.37	93 (3%) 50 29	30, 76, 162, 221	0
35	DA	2901/2915 (99%)	0.32	74 (2%) 57 33	29, 77, 162, 221	0
36	BB	119/122 (97%)	0.78	4 (3%) 48 27	65, 106, 138, 183	0
36	DB	119/122 (97%)	0.59	5 (4%) 40 22	66, 108, 138, 183	0
37	BC	228/229 (99%)	0.35	8 (3%) 47 27	42, 97, 147, 160	0
37	DC	228/229 (99%)	0.38	11 (4%) 35 20	43, 98, 148, 162	0
38	BD	275/276 (99%)	-0.00	1 (0%) 88 70	31, 52, 82, 101	0
38	DD	275/276 (99%)	-0.01	8 (2%) 53 30	32, 52, 82, 101	0
39	BE	205/206 (99%)	0.42	8 (3%) 43 24	44, 77, 128, 135	0
39	DE	205/206 (99%)	0.40	8 (3%) 43 24	44, 77, 128, 134	0
40	BF	208/210 (99%)	0.47	5 (2%) 59 34	53, 110, 166, 177	0
40	DF	208/210 (99%)	0.45	3 (1%) 73 46	53, 111, 166, 176	0
41	BG	181/182 (99%)	0.26	4 (2%) 62 36	63, 95, 131, 143	0
41	DG	181/182 (99%)	0.30	5 (2%) 55 31	86, 110, 137, 151	0
42	BH	167/180 (92%)	0.63	12 (7%) 21 14	81, 117, 143, 159	0
42	DH	167/180 (92%)	0.55	10 (5%) 27 17	81, 118, 143, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BJ	0/173	-	-	-	-
43	DJ	0/173	-	-	-	-
44	BK	140/147 (95%)	0.89	11 (7%) 18 13	162, 180, 186, 188	0
44	DK	140/147 (95%)	0.92	20 (14%) 6 6	162, 180, 186, 187	0
45	BL	0/125	-	-	-	-
45	BM	0/125	-	-	-	-
45	Bl	0/125	-	-	-	-
45	Bm	0/125	-	-	-	-
45	DL	0/125	-	-	-	-
45	DM	0/125	-	-	-	-
45	Dl	0/125	-	-	-	-
45	Dm	0/125	-	-	-	-
46	BN	139/140 (99%)	0.42	6 (4%) 40 22	60, 91, 132, 137	0
46	DN	139/140 (99%)	0.42	2 (1%) 73 46	61, 91, 132, 137	0
47	BO	122/122 (100%)	-0.22	0 100 100	35, 60, 73, 86	0
47	DO	122/122 (100%)	-0.11	0 100 100	36, 61, 73, 88	0
48	BP	146/150 (97%)	1.02	21 (14%) 6 6	46, 111, 137, 157	0
48	DP	146/150 (97%)	0.79	15 (10%) 12 10	50, 113, 137, 157	0
49	BQ	141/141 (100%)	0.12	1 (0%) 84 61	45, 65, 88, 119	0
49	DQ	141/141 (100%)	0.15	0 100 100	45, 66, 89, 120	0
50	BR	117/118 (99%)	0.33	6 (5%) 33 19	49, 81, 101, 128	0
50	DR	117/118 (99%)	0.44	5 (4%) 40 22	53, 82, 101, 128	0
51	BS	99/112 (88%)	1.04	15 (15%) 5 5	82, 116, 140, 144	0
51	DS	99/112 (88%)	0.87	8 (8%) 18 12	83, 117, 141, 145	0
52	BT	138/146 (94%)	0.32	5 (3%) 46 26	55, 83, 149, 176	0
52	DT	138/146 (94%)	0.41	3 (2%) 62 36	57, 84, 149, 177	0
53	BU	117/118 (99%)	0.38	4 (3%) 48 27	62, 80, 114, 135	0
53	DU	117/118 (99%)	0.47	5 (4%) 40 22	62, 81, 115, 134	0
54	BV	101/101 (100%)	0.74	5 (4%) 34 19	59, 116, 133, 141	0
54	DV	101/101 (100%)	0.67	3 (2%) 52 30	61, 116, 134, 140	0
55	BW	113/113 (100%)	0.21	1 (0%) 81 56	61, 79, 119, 158	0
55	DW	113/113 (100%)	0.15	0 100 100	63, 80, 120, 159	0
56	BX	93/96 (96%)	0.61	4 (4%) 40 22	76, 91, 110, 114	0
56	DX	93/96 (96%)	0.51	5 (5%) 31 18	76, 92, 111, 114	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
57	BY	107/110 (97%)	1.00	13 (12%) 8 7	78, 127, 149, 155	0
57	DY	107/110 (97%)	0.99	12 (11%) 10 8	78, 127, 149, 155	0
58	BZ	185/206 (89%)	0.31	3 (1%) 70 43	47, 90, 135, 143	0
58	DZ	185/206 (89%)	0.47	1 (0%) 87 66	68, 99, 138, 146	0
All	All	22794/24788 (91%)	0.33	872 (3%) 44 25	23, 82, 154, 222	0

All (872) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AA	1036	G	9.3
1	CA	1036	G	9.0
24	AY	116	PRO	8.3
14	AN	2	ALA	8.0
35	BA	1541	G	7.7
30	D5	2	ALA	7.5
1	AA	1026	G	7.1
24	AY	113	GLY	7.0
33	D8	65	GLU	7.0
1	AA	89	C	6.5
1	AA	1028	C	6.4
35	BA	654(K)	C	6.3
35	BA	2802	G	6.1
1	AA	1029	C	5.9
30	B5	60	VAL	5.9
57	DY	28	LYS	5.9
35	BA	1542	A	5.8
24	AY	114	VAL	5.8
24	CY	116	PRO	5.8
1	AA	1030(A)	G	5.8
1	CA	1001(A)	G	5.7
35	BA	654(H)	G	5.7
35	BA	654(F)	C	5.7
31	B6	42	TRP	5.7
22	AW	1	C	5.6
1	AA	1037	C	5.6
22	AW	18	U	5.6
35	DA	1541	G	5.5
13	AM	125	ARG	5.3
7	CG	82	GLY	5.3
35	DA	654(J)	A	5.3
35	DA	654(E)	G	5.2

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Mol	Chain	Res	Type	RSRZ
44	DK	12	LEU	5.1
44	DK	52	ILE	5.1
35	BA	654(I)	C	5.1
30	B5	59	GLU	5.0
25	D0	7	LEU	5.0
48	BP	87	ASP	5.0
33	B8	65	GLU	4.9
50	DR	2	ARG	4.9
35	DA	654(D)	G	4.9
1	CA	89	C	4.9
1	AA	470	C	4.8
1	AA	1027	C	4.8
24	AY	115	GLU	4.8
31	B6	22	ALA	4.7
44	BK	51	ALA	4.7
13	CM	123	ALA	4.7
7	CG	83	ALA	4.7
50	DR	3	HIS	4.7
50	BR	2	ARG	4.7
25	D0	2	ALA	4.7
7	AG	84	ASN	4.6
24	CY	530	VAL	4.6
35	BA	654(D)	G	4.6
35	BA	654(E)	G	4.6
22	CW	35	C	4.6
7	AG	83	ALA	4.6
24	CY	118	SER	4.6
1	CA	1030(A)	G	4.6
35	BA	2795	G	4.5
36	BB	88	C	4.5
25	D0	4	LYS	4.5
24	AY	89	ASP	4.5
25	B0	8	GLY	4.5
44	BK	50	ASP	4.5
35	BA	654(J)	A	4.5
1	AA	1030(B)	C	4.5
35	BA	654(G)	C	4.5
35	DA	654(K)	C	4.4
37	BC	14	LYS	4.4
13	AM	126	LYS	4.4
15	AO	23	GLY	4.4
31	D6	42	TRP	4.4

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Mol	Chain	Res	Type	RSRZ
35	DA	1542	A	4.4
9	AI	95	LYS	4.4
22	AW	17	C	4.3
30	B5	2	ALA	4.3
24	CY	88	VAL	4.3
35	BA	2794	C	4.3
10	CJ	55	LYS	4.3
1	CA	81	U	4.3
44	BK	16	LYS	4.2
25	B0	4	LYS	4.2
52	BT	3	ARG	4.2
35	DA	654(L)	G	4.2
35	DA	654(S)	G	4.2
1	CA	1035	A	4.2
19	AS	10	PHE	4.2
1	CA	1037	C	4.2
35	BA	272(J)	C	4.2
22	CW	18	U	4.1
35	BA	2894	G	4.1
1	AA	1030	C	4.1
10	AJ	34	VAL	4.1
35	BA	275	G	4.1
1	AA	1005	A	4.1
24	CY	115	GLU	4.1
1	AA	1025	U	4.0
22	CV	47	U	4.0
44	DK	11	GLN	4.0
39	BE	76	ARG	4.0
1	AA	1031	G	4.0
9	AI	4	TYR	4.0
35	BA	2801	A	3.9
1	AA	1038	C	3.9
1	AA	93	G	3.9
1	AA	1035	A	3.9
13	CM	121	LYS	3.9
57	DY	3	VAL	3.9
35	BA	1540	U	3.9
23	CX	12	A	3.9
32	B7	49	ARG	3.9
44	DK	9	LYS	3.9
51	BS	43	GLU	3.9
57	BY	62	GLU	3.9

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Mol	Chain	Res	Type	RSRZ
13	AM	124	PRO	3.9
14	CN	2	ALA	3.9
57	BY	28	LYS	3.9
1	AA	81	U	3.8
35	BA	654(L)	G	3.8
22	CW	1	C	3.8
35	DA	654(F)	C	3.8
35	DA	654(G)	C	3.8
1	AA	90	U	3.8
25	B0	2	ALA	3.8
41	BG	48	GLU	3.8
1	AA	1010	G	3.7
1	CA	1034	G	3.7
46	BN	44	PRO	3.7
35	BA	654(P)	C	3.7
1	AA	1492	A	3.7
35	BA	2897	U	3.7
24	AY	118	SER	3.7
48	BP	76	LYS	3.7
32	B7	23	ARG	3.7
30	B5	4	HIS	3.7
35	DA	654(R)	C	3.7
39	BE	64	LYS	3.7
35	DA	654(H)	G	3.6
36	BB	89	G	3.6
13	AM	84	ILE	3.6
29	B4	27	THR	3.6
19	AS	81	ARG	3.6
1	CA	1041	A	3.6
48	BP	33	ARG	3.6
50	DR	5	LYS	3.6
51	DS	11	LYS	3.6
40	BF	8	GLN	3.6
35	BA	352	G	3.6
35	DA	2802	G	3.6
36	BB	87	G	3.6
51	BS	33	LYS	3.6
22	CW	20	G	3.6
35	DA	654(M)	C	3.5
13	CM	122	LYS	3.5
42	BH	174	GLY	3.5
1	AA	1447	A	3.5

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Mol	Chain	Res	Type	RSRZ
10	AJ	4	ILE	3.5
35	BA	1762	A	3.5
40	DF	161	GLU	3.5
44	DK	74	ALA	3.5
1	AA	532	A	3.5
35	DA	654(N)	G	3.5
35	DA	654(O)	G	3.5
10	AJ	85	LEU	3.5
1	AA	88	A	3.5
1	AA	1030(D)	A	3.5
1	CA	1001	A	3.5
13	CM	125	ARG	3.5
24	CY	504	ARG	3.5
35	BA	1559	G	3.5
11	CK	129	SER	3.5
13	CM	119	GLY	3.5
4	CD	26	CYS	3.5
37	DC	78	ILE	3.4
1	AA	1034	G	3.4
1	CA	80	G	3.4
35	BA	1051	G	3.4
35	DA	275	G	3.4
22	AW	24	C	3.4
10	AJ	59	SER	3.4
1	AA	80	G	3.4
39	DE	64	LYS	3.4
7	CG	84	ASN	3.4
22	CW	17	C	3.4
3	CC	2	GLY	3.4
41	BG	49	ASP	3.4
1	AA	1001	A	3.4
44	DK	13	PRO	3.4
37	DC	116	ALA	3.4
51	BS	61	ASN	3.4
50	BR	3	HIS	3.4
29	B4	25	TYR	3.4
1	AA	1001(A)	G	3.4
36	DB	87	G	3.4
35	BA	2506	U	3.4
10	CJ	23	ILE	3.3
24	CY	84	THR	3.3
41	BG	50	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
1	AA	79	G	3.3
1	CA	1032	G	3.3
37	DC	168	LYS	3.3
1	AA	1040	U	3.3
35	BA	2896	C	3.3
44	DK	40	ALA	3.3
1	AA	1003	G	3.3
35	BA	2793	G	3.3
31	D6	37	ARG	3.3
56	DX	73	ARG	3.3
1	CA	1030(D)	A	3.3
4	CD	22	LYS	3.3
29	B4	29	PRO	3.3
58	BZ	152	ALA	3.3
32	D7	49	ARG	3.3
31	B6	26	ASN	3.3
1	CA	82	U	3.3
57	BY	19	LYS	3.3
22	CV	1	C	3.3
38	DD	35	LYS	3.3
41	DG	49	ASP	3.2
48	DP	20	GLY	3.2
23	AX	12	A	3.2
35	DA	1051	G	3.2
10	CJ	59	SER	3.2
39	BE	89	ASP	3.2
44	BK	12	LEU	3.2
10	AJ	33	GLN	3.2
48	BP	51	PHE	3.2
25	D0	3	HIS	3.2
4	AD	26	CYS	3.2
1	CA	1028	C	3.2
1	CA	93	G	3.2
3	AC	80	GLY	3.2
7	AG	82	GLY	3.2
31	D6	24	GLU	3.2
46	BN	68	GLU	3.2
13	AM	121	LYS	3.2
1	AA	1032	G	3.2
35	DA	274	G	3.2
25	D0	6	GLY	3.2
1	CA	1000	U	3.2

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Mol	Chain	Res	Type	RSRZ
31	D6	22	ALA	3.2
1	CA	88	A	3.1
19	AS	82	GLY	3.1
35	DA	1174	A	3.1
1	AA	1456	G	3.1
34	D9	37	GLY	3.1
35	BA	272(I)	U	3.1
9	CI	95	LYS	3.1
24	AY	119	GLU	3.1
42	DH	176	ALA	3.1
29	D4	22	ILE	3.1
37	BC	2	PRO	3.1
19	AS	80	TYR	3.1
35	DA	155	U	3.1
11	AK	49	GLY	3.1
1	CA	1030	C	3.1
42	BH	178	ALA	3.1
31	B6	24	GLU	3.1
16	AP	68	ASP	3.1
4	CD	31	CYS	3.1
29	B4	53	GLU	3.1
35	BA	654(V)	A	3.1
25	B0	28	GLY	3.1
31	B6	40	CYS	3.1
21	AU	9	ARG	3.0
35	DA	2118	U	3.0
48	DP	15	ARG	3.0
10	AJ	8	LEU	3.0
1	AA	1030(C)	G	3.0
35	BA	654(C)	G	3.0
23	AX	21	C	3.0
42	DH	173	PRO	3.0
53	DU	56	ASP	3.0
29	B4	31	ILE	3.0
1	AA	1020	U	3.0
25	D0	5	LYS	3.0
35	BA	1026	U	3.0
51	DS	12	PHE	3.0
30	D5	55	ARG	3.0
35	BA	274	G	3.0
35	DA	1173	G	3.0
37	DC	147	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
4	CD	112	VAL	3.0
13	AM	123	ALA	3.0
50	BR	4	LEU	3.0
22	AW	21	U	3.0
12	CL	28	LYS	3.0
13	AM	122	LYS	3.0
48	DP	34	GLY	3.0
33	D8	35	GLN	3.0
22	CW	23	G	3.0
36	DB	89	G	3.0
32	B7	48	LYS	3.0
35	DA	654(T)	C	3.0
36	DB	88	C	3.0
4	AD	31	CYS	2.9
42	DH	174	GLY	2.9
30	D5	57	VAL	2.9
57	BY	3	VAL	2.9
42	DH	145	ALA	2.9
1	AA	1002	G	2.9
25	B0	19	LYS	2.9
35	BA	975	C	2.9
11	AK	129	SER	2.9
33	B8	39	LYS	2.9
33	D8	64	TYR	2.9
1	CA	79	G	2.9
1	CA	1002	G	2.9
35	DA	2793	G	2.9
35	DA	527	C	2.9
50	BR	5	LYS	2.9
35	DA	156	U	2.9
33	D8	34	TRP	2.9
4	AD	24	GLU	2.9
1	AA	1039	C	2.9
35	BA	1534	U	2.9
35	DA	654(B)	C	2.9
13	AM	105	THR	2.9
33	B8	64	TYR	2.9
4	AD	22	LYS	2.9
26	D1	32	LYS	2.9
35	BA	271(Y)	U	2.8
35	DA	614(A)	U	2.8
35	DA	1026	U	2.8

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Mol	Chain	Res	Type	RSRZ
35	DA	272(J)	C	2.8
1	AA	1033	G	2.8
35	BA	2104	G	2.8
29	B4	3	GLU	2.8
44	DK	37	PHE	2.8
58	DZ	28	MET	2.8
35	DA	2892	A	2.8
42	DH	85	LYS	2.8
33	B8	56	GLU	2.8
37	DC	128	LEU	2.8
7	CG	81	GLY	2.8
21	AU	2	GLY	2.8
35	DA	157	U	2.8
57	DY	68	HIS	2.8
51	BS	106	ARG	2.8
41	BG	77	ILE	2.8
57	BY	82	PRO	2.8
2	CB	237	ALA	2.8
48	DP	51	PHE	2.8
42	BH	137	ASP	2.8
53	BU	58	ARG	2.8
36	DB	1	U	2.8
2	CB	7	VAL	2.8
35	DA	2804	C	2.8
29	D4	34	GLU	2.8
57	BY	83	THR	2.8
1	CA	1021	G	2.8
22	AW	4	G	2.8
57	BY	77	PRO	2.8
10	AJ	55	LYS	2.8
56	BX	4	ALA	2.8
48	DP	27	HIS	2.7
33	B8	62	LEU	2.7
35	BA	527	C	2.7
35	BA	2804	C	2.7
22	AW	23	G	2.7
35	BA	1740	G	2.7
50	DR	4	LEU	2.7
54	BV	21	ARG	2.7
13	AM	7	VAL	2.7
13	CM	124	PRO	2.7
48	BP	20	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
4	CD	21	LEU	2.7
54	BV	60	GLU	2.7
1	CA	470	C	2.7
1	CA	999	C	2.7
35	DA	2791	C	2.7
10	AJ	72	VAL	2.7
1	AA	220	G	2.7
35	BA	1780	A	2.7
13	CM	8	GLU	2.7
53	DU	58	ARG	2.7
10	AJ	82	ILE	2.7
22	CW	48	U	2.7
38	DD	275	LYS	2.7
51	BS	93	LYS	2.7
29	B4	26	SER	2.7
22	AV	1	C	2.7
33	B8	43	GLN	2.7
39	DE	76	ARG	2.7
44	DK	51	ALA	2.7
10	AJ	75	ILE	2.7
53	BU	89	GLU	2.7
31	D6	26	ASN	2.7
48	BP	35	HIS	2.7
24	CY	121	VAL	2.7
1	AA	1024	G	2.7
21	CU	6	ARG	2.7
2	AB	13	ALA	2.7
46	DN	109	LYS	2.7
19	CS	10	PHE	2.7
22	CW	72	C	2.7
30	B5	50	GLY	2.6
51	BS	60	GLY	2.6
1	AA	1004	A	2.6
57	BY	81	LYS	2.6
48	BP	74	GLU	2.6
39	DE	67	PHE	2.6
1	AA	97	G	2.6
20	CT	11	SER	2.6
35	BA	1106	G	2.6
35	DA	2893	G	2.6
7	AG	5	ARG	2.6
51	BS	30	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
57	DY	77	PRO	2.6
56	BX	78	LYS	2.6
35	BA	1493	C	2.6
35	BA	2803	C	2.6
48	DP	144	GLU	2.6
29	D4	35	VAL	2.6
54	DV	82	ARG	2.6
1	AA	1000	U	2.6
1	CA	1025	U	2.6
35	DA	1033	U	2.6
35	DA	2506	U	2.6
38	BD	35	LYS	2.6
1	CA	1042	G	2.6
22	AW	20	G	2.6
24	CY	93	GLU	2.6
35	DA	2894	G	2.6
20	AT	11	SER	2.6
37	DC	124	VAL	2.6
23	CX	21	C	2.6
35	BA	654(T)	C	2.6
4	AD	9	CYS	2.6
37	DC	79	ALA	2.6
48	BP	27	HIS	2.6
29	B4	32	TYR	2.6
1	CA	1447	A	2.6
35	DA	1253	A	2.6
1	AA	82	U	2.6
30	B5	58	LEU	2.6
42	BH	33	LEU	2.6
48	BP	70	GLN	2.6
35	DA	1740	G	2.6
10	AJ	74	ILE	2.6
1	AA	1226	C	2.6
1	CA	1030(B)	C	2.6
13	CM	120	LYS	2.6
35	DA	654(I)	C	2.6
33	D8	63	PRO	2.6
35	BA	1528	A	2.6
42	BH	173	PRO	2.6
57	DY	82	PRO	2.6
1	AA	173	U	2.6
35	BA	156	U	2.6

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Mol	Chain	Res	Type	RSRZ
30	D5	4	HIS	2.5
41	DG	75	LYS	2.5
50	BR	8	ARG	2.5
56	BX	72	LYS	2.5
10	AJ	76	ASN	2.5
39	DE	20	ALA	2.5
40	BF	25	PRO	2.5
1	AA	1006	C	2.5
20	CT	73	HIS	2.5
35	BA	34	C	2.5
35	BA	1041	C	2.5
44	DK	16	LYS	2.5
39	DE	75	VAL	2.5
1	AA	204	U	2.5
51	BS	73	LEU	2.5
20	AT	12	ALA	2.5
30	D5	50	GLY	2.5
48	DP	22	GLY	2.5
11	AK	11	LYS	2.5
37	BC	168	LYS	2.5
37	BC	4	HIS	2.5
48	BP	80	TYR	2.5
37	DC	109	MET	2.5
1	AA	76	C	2.5
7	CG	33	ASP	2.5
11	AK	127	LYS	2.5
48	DP	26	GLY	2.5
57	DY	75	ILE	2.5
23	CX	11	U	2.5
35	BA	1177	A	2.5
35	DA	2310	A	2.5
30	D5	60	VAL	2.5
2	AB	60	ASP	2.5
30	B5	24	ALA	2.5
51	BS	42	ASP	2.5
57	DY	78	ALA	2.5
19	AS	79	THR	2.5
35	BA	77	C	2.5
35	BA	1543	C	2.5
35	DA	884	C	2.5
1	AA	1124	G	2.5
1	CA	1033	G	2.5

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Mol	Chain	Res	Type	RSRZ
35	BA	2162	G	2.5
40	BF	35	GLU	2.5
1	AA	96	U	2.5
22	CW	21	U	2.5
35	DA	1175	U	2.5
35	BA	92	A	2.5
35	BA	655	A	2.5
35	BA	2310	A	2.5
38	DD	276	LYS	2.5
48	BP	107	LYS	2.5
48	BP	81	GLN	2.5
33	B8	63	PRO	2.5
57	DY	2	ARG	2.5
48	BP	19	VAL	2.5
51	BS	95	HIS	2.4
39	BE	69	LYS	2.4
51	BS	11	LYS	2.4
13	AM	118	ALA	2.4
25	B0	17	GLN	2.4
41	DG	113	ARG	2.4
51	DS	13	ARG	2.4
48	DP	53	GLY	2.4
22	AV	17	C	2.4
35	BA	2799	C	2.4
35	DA	975	C	2.4
35	DA	1052	C	2.4
36	DB	12	C	2.4
1	CA	532	A	2.4
35	BA	614(B)	G	2.4
35	DA	654(C)	G	2.4
35	DA	1058	G	2.4
46	BN	139	GLU	2.4
44	BK	13	PRO	2.4
52	BT	4	GLY	2.4
24	CY	501	THR	2.4
57	BY	37	VAL	2.4
12	CL	65	GLU	2.4
54	BV	20	LEU	2.4
35	DA	2897	U	2.4
34	D9	1	MET	2.4
35	DA	311	A	2.4
48	BP	82	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
35	DA	2106	G	2.4
20	AT	21	LYS	2.4
42	BH	175	LYS	2.4
58	BZ	153	SER	2.4
13	CM	7	VAL	2.4
53	BU	56	ASP	2.4
29	B4	22	ILE	2.4
2	AB	237	ALA	2.4
33	D8	30	ARG	2.4
48	BP	86	LYS	2.4
51	DS	45	GLY	2.4
23	AX	11	U	2.4
35	BA	2779	U	2.4
22	AV	76	A	2.4
35	BA	2712(A)	A	2.4
53	DU	11	ARG	2.4
37	BC	121	MET	2.4
44	DK	44	ALA	2.4
1	CA	1300	G	2.4
11	AK	51	LYS	2.4
35	BA	544	G	2.4
35	BA	2308	G	2.4
35	DA	654(A)	G	2.4
54	DV	36	PRO	2.4
57	DY	4	LYS	2.4
3	AC	144	SER	2.4
39	BE	75	VAL	2.4
40	BF	41	LEU	2.4
44	BK	52	ILE	2.4
7	AG	85	TYR	2.4
30	B5	51	TYR	2.4
32	D7	23	ARG	2.4
39	DE	151	TYR	2.4
56	BX	60	ARG	2.4
41	DG	35	GLU	2.4
2	CB	132	LYS	2.4
24	CY	117	GLN	2.3
37	BC	206	LYS	2.4
1	AA	92	C	2.3
24	AY	111	SER	2.3
35	DA	885	C	2.3
35	DA	2801	A	2.3

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Mol	Chain	Res	Type	RSRZ
24	AY	84	THR	2.3
51	BS	14	VAL	2.3
10	CJ	46	ARG	2.3
48	DP	33	ARG	2.3
35	BA	1332	G	2.3
35	DA	2751	G	2.3
56	DX	72	LYS	2.3
30	D5	59	GLU	2.3
48	BP	31	ALA	2.3
4	AD	2	GLY	2.3
10	CJ	37	PRO	2.3
44	DK	53	VAL	2.3
2	CB	96	ARG	2.3
42	DH	175	LYS	2.3
7	CG	85	TYR	2.3
35	BA	654(U)	A	2.3
35	DA	654	A	2.3
19	AS	12	ASP	2.3
46	DN	139	GLU	2.3
29	D4	14	ILE	2.3
29	B4	17	GLY	2.3
30	D5	47	PRO	2.3
46	BN	101	HIS	2.3
48	BP	34	GLY	2.3
57	BY	41	GLY	2.3
53	DU	94	ASN	2.3
31	B6	23	THR	2.3
44	DK	118	THR	2.3
2	AB	132	LYS	2.3
19	CS	81	ARG	2.3
20	AT	74	LYS	2.3
34	D9	2	LYS	2.3
54	BV	84	LYS	2.3
35	BA	654(S)	G	2.3
35	BA	2805	G	2.3
35	BA	2893	G	2.3
51	BS	105	ALA	2.3
10	AJ	23	ILE	2.3
41	DG	48	GLU	2.3
53	BU	97	ASP	2.3
57	DY	107	ASP	2.3
1	CA	1257	U	2.3

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Mol	Chain	Res	Type	RSRZ
42	DH	12	PRO	2.3
44	DK	22	PRO	2.3
1	AA	1286	A	2.3
14	AN	3	ARG	2.3
34	B9	1	MET	2.3
35	BA	2892	A	2.3
57	DY	71	LYS	2.3
35	DA	2477	C	2.3
44	DK	10	LEU	2.3
29	D4	32	TYR	2.3
51	DS	86	ALA	2.3
13	AM	8	GLU	2.3
11	CK	11	LYS	2.3
52	BT	33	LYS	2.3
48	BP	41	ARG	2.3
1	AA	1042	G	2.3
22	CW	6	G	2.3
35	DA	614(B)	G	2.3
52	DT	6	LEU	2.3
1	CA	1040	U	2.3
1	CA	1302	U	2.3
4	AD	42	GLN	2.3
1	AA	1531	A	2.3
22	CW	73	A	2.3
35	BA	6	A	2.3
35	BA	509	C	2.3
37	BC	124	VAL	2.3
42	BH	12	PRO	2.3
52	DT	132	LYS	2.3
14	CN	35	ARG	2.3
31	B6	37	ARG	2.3
9	CI	4	TYR	2.2
2	AB	235	SER	2.2
4	CD	9	CYS	2.2
37	DC	121	MET	2.2
1	AA	1021	G	2.2
1	CA	96	U	2.2
35	BA	614(A)	U	2.2
24	CY	22	ASP	2.2
25	D0	10	THR	2.2
48	DP	87	ASP	2.2
24	CY	17	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
1	AA	1041	A	2.2
35	DA	331	A	2.2
42	BH	176	ALA	2.2
44	DK	20	ALA	2.2
2	AB	133	LYS	2.2
35	DA	2474	C	2.2
42	DH	172	LYS	2.2
19	AS	41	VAL	2.2
42	BH	44	VAL	2.2
42	BH	141	VAL	2.2
51	DS	25	ARG	2.2
24	CY	229	LEU	2.2
29	D4	27	THR	2.2
29	D4	31	ILE	2.2
39	DE	127	ASP	2.2
1	CA	90	U	2.2
25	B0	5	LYS	2.2
26	D1	81	LYS	2.2
35	BA	499	U	2.2
44	BK	61	ALA	2.2
44	BK	11	GLN	2.2
1	CA	306	G	2.2
10	AJ	79	ARG	2.2
35	BA	989	G	2.2
35	DA	989	G	2.2
24	AY	530	VAL	2.2
42	DH	59	ARG	2.2
1	AA	1256	A	2.2
35	DA	654(Q)	C	2.2
35	DA	2803	C	2.2
13	CM	2	ALA	2.2
10	AJ	46	ARG	2.2
31	D6	21	TYR	2.2
29	B4	35	VAL	2.2
4	CD	23	GLY	2.2
38	DD	237	GLU	2.2
3	CC	95	THR	2.2
22	AV	47	U	2.2
24	AY	90	PHE	2.2
32	D7	48	LYS	2.2
1	AA	1160	G	2.2
22	CW	22	A	2.2

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Mol	Chain	Res	Type	RSRZ
35	BA	308	G	2.2
35	BA	312	G	2.2
35	BA	1044	G	2.2
35	BA	1173	G	2.2
35	BA	1533	G	2.2
35	BA	2714	G	2.2
35	DA	654(V)	A	2.2
40	BF	24	LEU	2.2
14	AN	33	VAL	2.2
29	D4	25	TYR	2.2
29	D4	56	VAL	2.2
30	B5	52	TYR	2.2
31	D6	39	TYR	2.2
48	DP	19	VAL	2.2
52	DT	32	TYR	2.2
5	CE	154	GLY	2.2
10	AJ	25	GLU	2.2
35	BA	2628	C	2.2
35	DA	1041	C	2.2
37	BC	163	GLU	2.2
44	DK	36	GLU	2.2
29	B4	24	THR	2.2
30	D5	53	ALA	2.1
21	AU	6	ARG	2.1
48	BP	15	ARG	2.1
50	BR	6	SER	2.1
58	BZ	121	HIS	2.1
10	AJ	101	VAL	2.1
37	DC	115	VAL	2.1
51	DS	14	VAL	2.1
10	CJ	54	PHE	2.1
31	D6	25	LYS	2.1
48	DP	72	PRO	2.1
49	BQ	85	LYS	2.1
24	CY	120	THR	2.1
35	BA	310	A	2.1
35	BA	1913	A	2.1
35	BA	2801(A)	A	2.1
35	DA	1762	A	2.1
22	AW	19	G	2.1
35	BA	1529	G	2.1
35	DA	1056	G	2.1

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Mol	Chain	Res	Type	RSRZ
4	AD	107	ARG	2.1
1	AA	91	C	2.1
44	DK	55	VAL	2.1
57	DY	79	CYS	2.1
39	DE	65	GLY	2.1
3	CC	161	GLU	2.1
29	D4	3	GLU	2.1
44	DK	54	PRO	2.1
1	AA	1125	U	2.1
1	AA	1257	U	2.1
30	D5	24	ALA	2.1
50	DR	105	ARG	2.1
57	BY	92	ASN	2.1
10	CJ	38	ILE	2.1
10	AJ	17	ASP	2.1
23	CX	15	A	2.1
53	DU	91	ASP	2.1
55	BW	22	ASP	2.1
54	BV	81	TYR	2.1
29	B4	39	CYS	2.1
48	DP	143	GLY	2.1
44	BK	73	PRO	2.1
9	AI	96	LEU	2.1
10	CJ	88	LEU	2.1
20	CT	10	LEU	2.1
29	B4	34	GLU	2.1
1	CA	1190	G	2.1
35	BA	1539	G	2.1
36	BB	23	G	2.1
22	AW	16	C	2.1
22	CW	3	C	2.1
9	AI	128	ARG	2.1
17	CQ	101	ARG	2.1
33	B8	30	ARG	2.1
38	DD	242	ARG	2.1
24	AY	19	ALA	2.1
10	CJ	75	ILE	2.1
3	AC	135	LYS	2.1
57	BY	94	LYS	2.1
39	BE	67	PHE	2.1
44	BK	8	VAL	2.1
51	BS	12	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
54	DV	35	LEU	2.1
48	DP	67	MET	2.1
42	DH	170	ARG	2.1
56	DX	65	ARG	2.1
9	CI	119	ALA	2.1
35	DA	1095	A	2.1
13	CM	27	LYS	2.1
24	CY	97	SER	2.1
52	BT	31	SER	2.1
20	AT	75	ASN	2.1
33	B8	48	PHE	2.1
3	AC	141	VAL	2.1
57	BY	42	VAL	2.1
26	B1	85	LEU	2.1
33	D8	62	LEU	2.1
9	AI	30	GLY	2.1
11	CK	52	GLY	2.1
22	AW	13	C	2.1
22	CW	2	G	2.1
35	BA	329	G	2.1
35	BA	363	G	2.1
35	BA	1888	G	2.1
46	BN	4	TYR	2.1
39	BE	127	ASP	2.1
37	DC	98	GLU	2.1
10	CJ	45	ARG	2.1
2	CB	133	LYS	2.1
10	AJ	3	LYS	2.1
13	AM	120	LYS	2.1
20	CT	74	LYS	2.1
35	DA	2172	U	2.1
29	B4	37	SER	2.1
38	DD	266	SER	2.1
9	CI	69	GLY	2.0
23	AX	14	A	2.0
35	BA	528	A	2.0
39	BE	66	HIS	2.0
48	BP	26	GLY	2.0
31	B6	41	PRO	2.0
34	D9	12	ASP	2.0
24	CY	196	ILE	2.0
33	D8	44	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
48	BP	52	GLU	2.0
44	DK	26	ALA	2.0
1	CA	1363	C	2.0
9	AI	102	LEU	2.0
20	AT	104	LEU	2.0
22	AW	35	C	2.0
35	BA	264	C	2.0
35	BA	272(H)	C	2.0
1	AA	70	G	2.0
1	AA	993	G	2.0
1	AA	998	G	2.0
22	CW	71	G	2.0
35	DA	352	G	2.0
35	DA	544	G	2.0
35	DA	1252	G	2.0
35	BA	157	U	2.0
35	DA	2779	U	2.0
38	DD	42	GLY	2.0
21	AU	10	ARG	2.0
21	AU	24	ARG	2.0
51	BS	34	HIS	2.0
56	DX	64	LYS	2.0
40	DF	23	ASP	2.0
2	CB	235	SER	2.0
12	AL	26	ALA	2.0
40	DF	181	LEU	2.0
52	BT	6	LEU	2.0
30	B5	57	VAL	2.0
35	BA	1057	A	2.0
42	BH	49	VAL	2.0
30	D5	49	CYS	2.0
29	B4	14	ILE	2.0
30	B5	55	ARG	2.0
38	DD	244	ARG	2.0
56	DX	74	PRO	2.0
46	BN	3	THR	2.0
1	AA	1322	C	2.0
42	BH	34	GLU	2.0
51	DS	80	LEU	2.0
1	AA	723	U	2.0
23	CX	19	U	2.0
44	BK	96	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
22	5MU	AW	55	20/22	0.64	0.13	161,165,168,168	0
22	5MU	CW	55	20/22	0.73	0.11	178,179,186,186	0
22	5MU	CV	54	20/22	0.91	0.09	89,92,95,96	0
22	5MU	AV	54	20/22	0.91	0.09	82,84,86,86	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

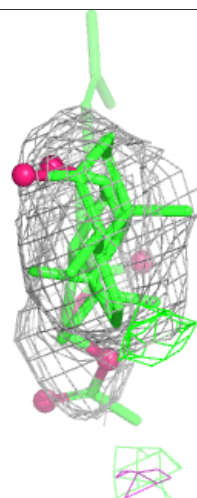
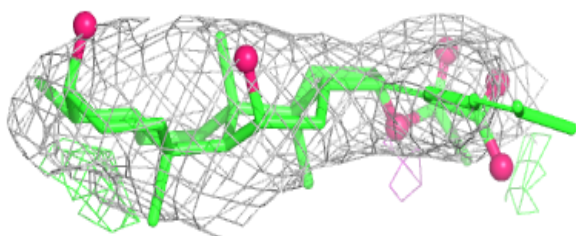
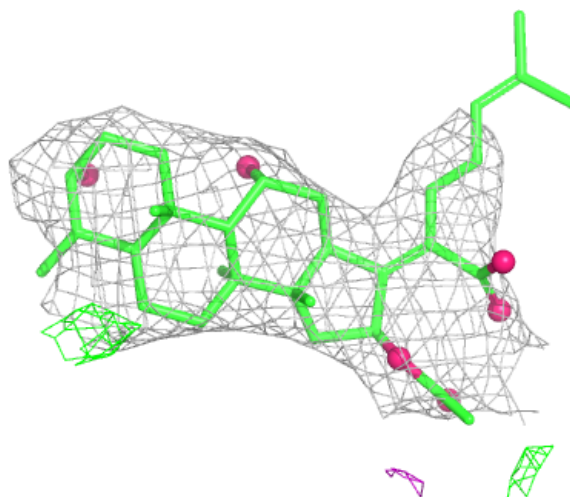
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
61	FUA	CY	702	37/37	0.82	0.17	102,104,107,109	0
59	ZN	B4	101	1/1	0.83	0.07	122,122,122,122	0
61	FUA	AY	702	37/37	0.87	0.17	98,102,110,111	0
59	ZN	D4	101	1/1	0.88	0.09	164,164,164,164	0
62	GDP	CY	703	28/28	0.93	0.09	81,87,94,95	0
62	GDP	AY	703	28/28	0.95	0.07	78,82,83,84	0
60	MG	AY	701	1/1	0.95	0.13	30,30,30,30	0
60	MG	CY	701	1/1	0.98	0.08	39,39,39,39	0
59	ZN	CD	301	1/1	0.99	0.13	49,49,49,49	0
59	ZN	AN	101	1/1	1.00	0.01	35,35,35,35	0
59	ZN	CN	101	1/1	1.00	0.01	66,66,66,66	0
59	ZN	AD	301	1/1	1.00	0.12	32,32,32,32	0
59	ZN	D9	101	1/1	1.00	0.02	86,86,86,86	0
59	ZN	B9	101	1/1	1.00	0.01	62,62,62,62	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

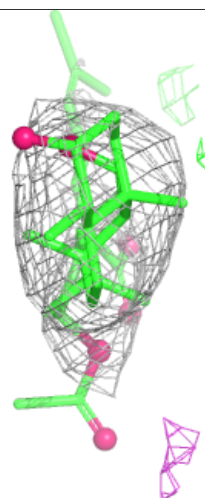
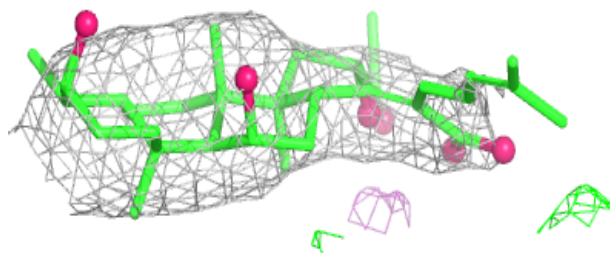
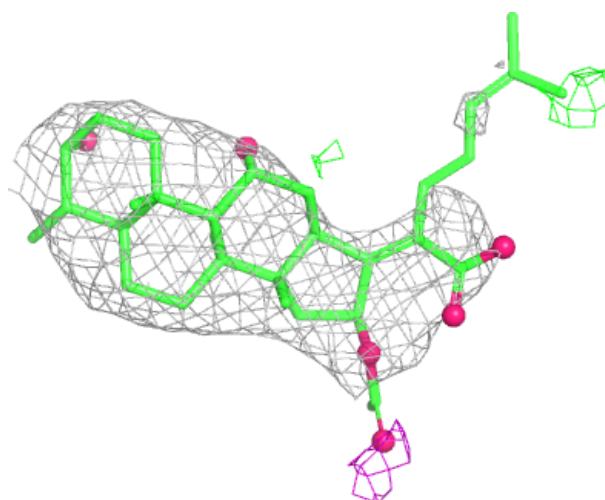
Electron density around FUA CY 702:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



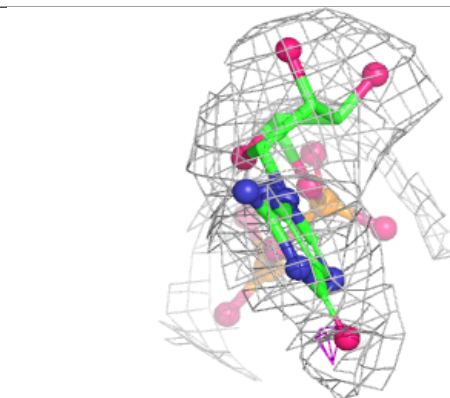
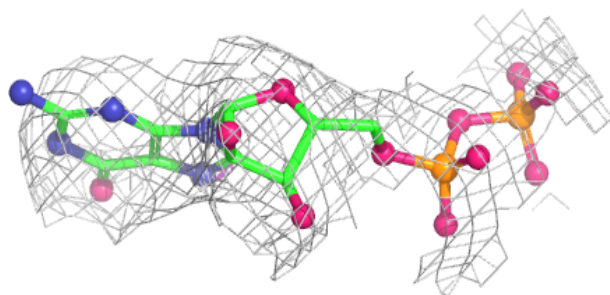
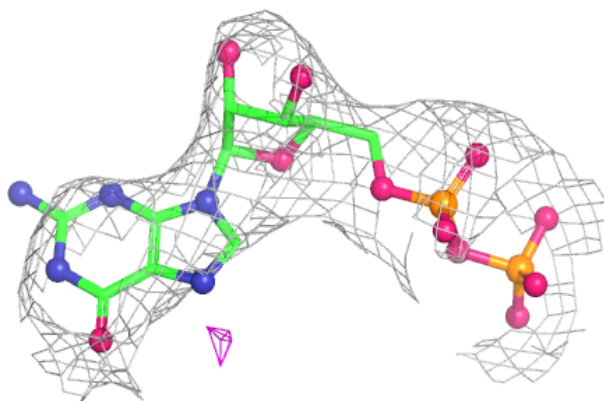
Electron density around FUA AY 702:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

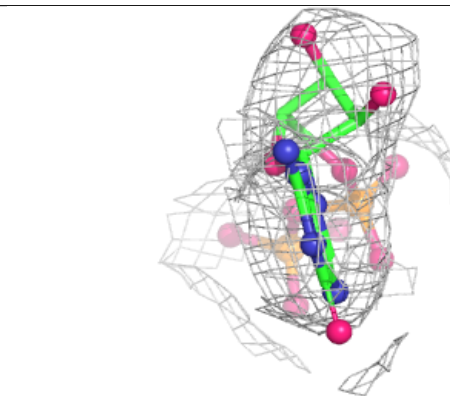
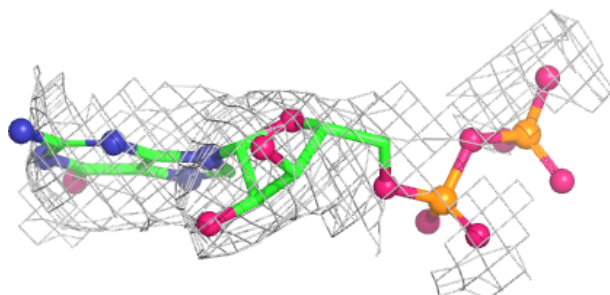
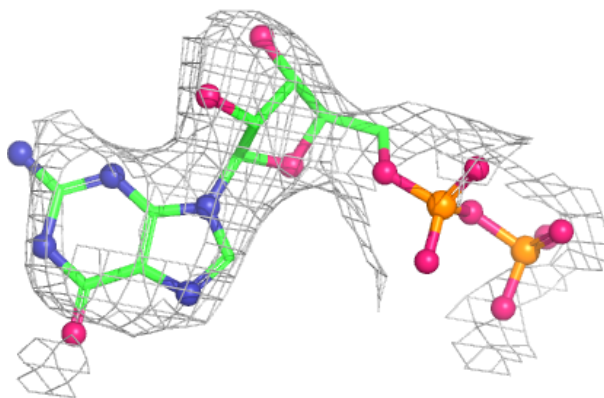


Electron density around GDP CY 703:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around GDP AY 703:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.