Full wwPDB X-ray Structure Validation Report ⓘ

Mar 28, 2026 – 11:56 PM UTC

PDB ID	:	4V8B / pdb_00004v8b
Title	:	Crystal structure analysis of ribosomal decoding (near-cognate tRNA-leu complex).
Authors	:	Jenner, L.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on	:	2011-12-06
Resolution	:	3.00 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:

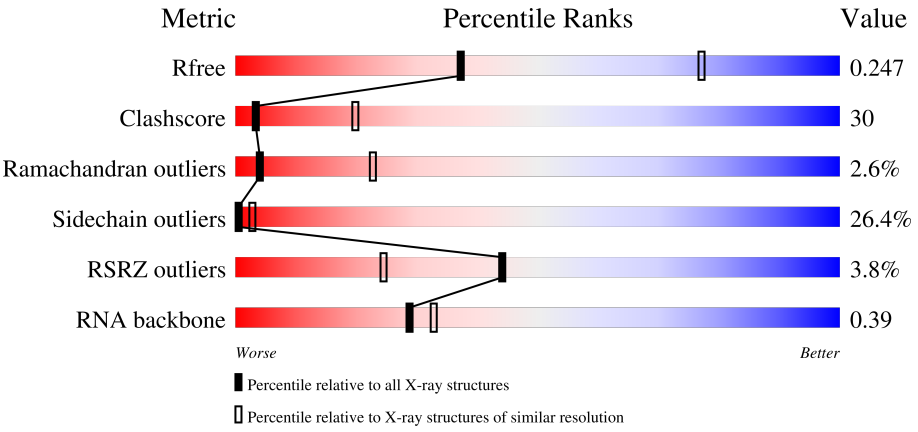
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)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

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)
RNA backbone	3983	1109 (3.20-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments 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 <=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	1506	32% 48% 19%
1	CA	1506	30% 48% 22%
2	AE	256	3% 31% 44% 17% 7%
2	CE	256	32% 39% 21% 7%

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Mol	Chain	Length	Quality of chain
3	AF	239	3% 38% 38% 10% 14%
3	CF	239	10% 30% 41% 14% 14%
4	AG	208	6% 41% 40% 17%
4	CG	208	4% 38% 43% 17%
5	AH	162	2% 37% 41% 15% 7%
5	CH	162	6% 34% 44% 15% 7%
6	AI	101	% 50% 41% 9%
6	CI	101	49% 44% 8%
7	AJ	156	8% 53% 35% 10%
7	CJ	156	6% 47% 40% 13%
8	AK	138	43% 45% 12%
8	CK	138	% 41% 49% 11%
9	AL	128	6% 37% 46% 16%
9	CL	128	9% 26% 62% 12%
10	AM	105	9% 33% 43% 16% 6%
10	CM	105	8% 21% 44% 26% 6%
11	AN	129	5% 42% 40% 11% 8%
11	CN	129	6% 49% 35% 9% 8%
12	AO	132	3% 42% 41% 12% 5%
12	CO	132	11% 39% 38% 17% 5%
13	AP	126	7% 33% 43% 13% 8%
13	CP	126	6% 26% 51% 16% 7%
14	AQ	61	8% 33% 49% 13%
14	CQ	61	21% 25% 54% 16%
15	AR	89	2% 51% 37% 10%

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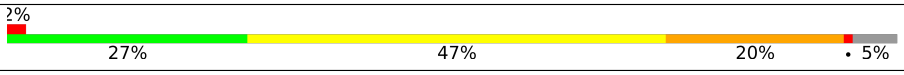
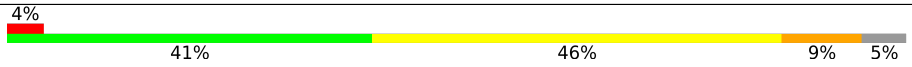
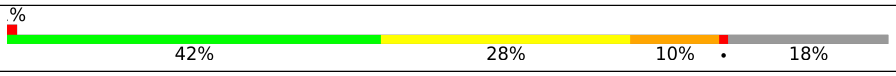
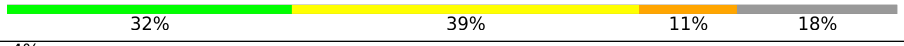
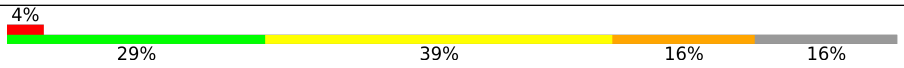
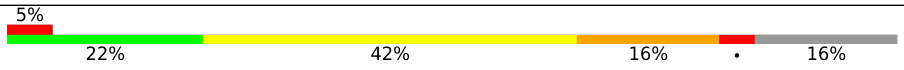
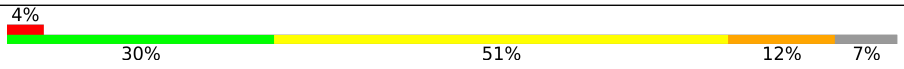
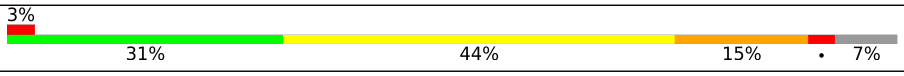
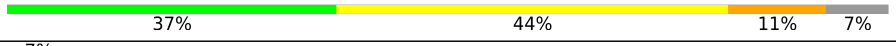
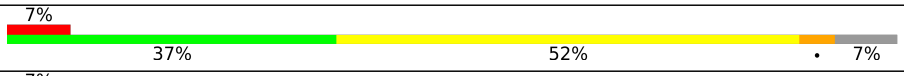
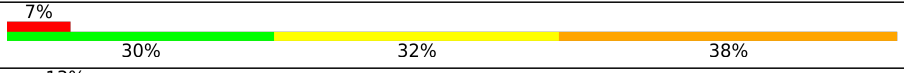
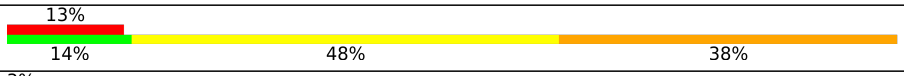
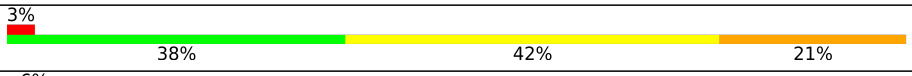
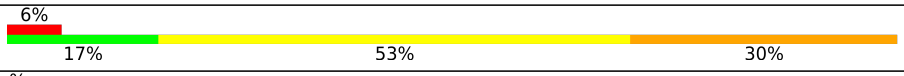
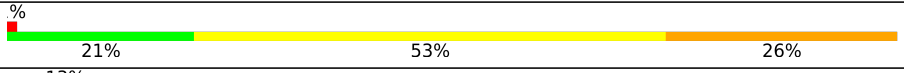
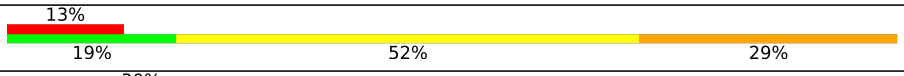
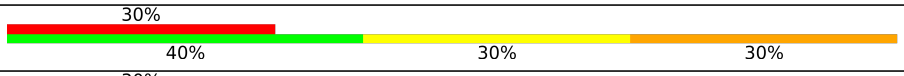
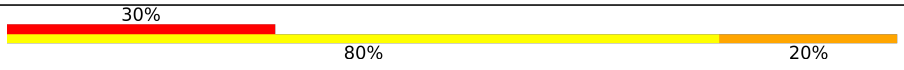
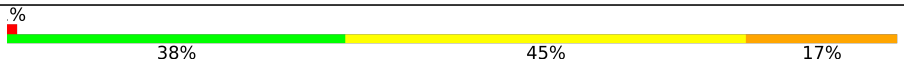
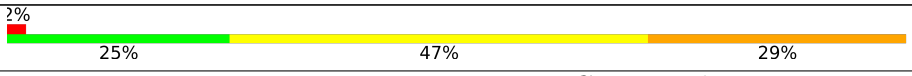
Mol	Chain	Length	Quality of chain
15	CR	89	
16	AS	88	
16	CS	88	
17	AT	105	
17	CT	105	
18	AU	88	
18	CU	88	
19	AV	93	
19	CV	93	
20	AW	106	
20	CW	106	
21	AX	27	
21	CX	27	
22	AB	87	
22	CB	87	
23	AC	77	
23	AD	77	
23	CC	77	
23	CD	77	
24	A1	10	
24	C1	10	
25	BA	2912	
25	DA	2912	
26	BB	122	
26	DB	122	

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Mol	Chain	Length	Quality of chain
27	BD	276	3% 38% 47% 12%
27	DD	276	4% 46% 38% 13%
28	BE	206	5% 30% 36% 28% 6%
28	DE	206	12% 25% 45% 24% 5%
29	BF	210	2% 46% 40% 10%
29	DF	210	3% 31% 48% 18%
30	BG	182	4% 36% 44% 18%
30	DG	182	6% 31% 52% 15%
31	BH	180	3% 35% 37% 19% 6%
31	DH	180	10% 28% 50% 13% 6%
32	BK	148	32% 41% 24%
32	DK	148	6% 40% 34% 20%
33	BM	140	5% 29% 45% 21%
33	DM	140	4% 48% 36% 14%
34	BN	122	49% 39% 11%
34	DN	122	2% 50% 37% 13%
35	BO	150	7% 27% 39% 29%
35	DO	150	15% 24% 37% 32% 7%
36	BP	141	10% 38% 43% 14%
36	DP	141	18% 24% 52% 20%
37	B0	118	38% 42% 19%
37	D0	118	3% 44% 45% 10%
38	BQ	112	4% 25% 54% 19%
38	DQ	112	4% 29% 44% 23%
39	BR	146	5% 27% 45% 21% 6%

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Mol	Chain	Length	Quality of chain
39	DR	146	5% 29% 43% 21% 6%
40	B1	118	2% 46% 42% 11%
40	D1	118	47% 39% 13%
41	B2	101	4% 34% 47% 15% 5%
41	D2	101	5% 29% 49% 17% 6%
42	BS	113	4% 40% 43% 16%
42	DS	113	3% 44% 45% 11%
43	BT	96	3% 47% 36% 11%
43	DT	96	6% 35% 46% 15%
44	BU	110	12% 31% 39% 21% 7%
44	DU	110	28% 23% 42% 25% 7%
45	BV	206	10% 26% 42% 14% 15%
45	DV	206	% 24% 42% 19% 13%
46	B3	85	% 36% 39% 12% 11%
46	D3	85	6% 36% 39% 14% 9%
47	BZ	98	14% 45% 38% 13%
47	DZ	98	16% 47% 43% 9%
48	BW	72	8% 29% 40% 17% 6% 8%
48	DW	72	3% 40% 39% 15%
49	BX	60	40% 47% 12%
49	DX	60	50% 38% 10%
50	B4	71	% 15% 42% 31% 7%
50	D4	71	3% 14% 44% 31% 11%
51	B5	60	12% 42% 32% 23%
51	D5	60	15% 33% 48% 12%

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Mol	Chain	Length	Quality of chain
52	B6	54	24% 46% 26% 7% 17%
52	D6	54	37% 11% 37% 30% 6% 17%
53	B7	49	4% 61% 27% 10%
53	D7	49	10% 43% 45% 12%
54	B8	65	12% 20% 48% 25% 6%
54	D8	65	31% 25% 43% 23% 6%

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
55	MG	AA	1643	-	-	-	X
55	MG	AA	1668	-	-	-	X
55	MG	AA	1761	-	-	-	X
55	MG	AA	1819	-	-	-	X
55	MG	AA	1831	-	-	-	X
55	MG	BA	3164	-	-	-	X
55	MG	BA	3317	-	-	-	X
55	MG	BA	3403	-	-	-	X
55	MG	CA	1601	-	-	-	X
55	MG	CA	1622	-	-	-	X
55	MG	CA	1638	-	-	-	X
55	MG	CA	1639	-	-	-	X
55	MG	CA	1684	-	-	-	X
55	MG	CA	1694	-	-	-	X
55	MG	CA	1707	-	-	-	X
55	MG	CA	1713	-	-	-	X
55	MG	DA	3025	-	-	-	X
55	MG	DA	3026	-	-	-	X
55	MG	DA	3056	-	-	-	X
55	MG	DA	3073	-	-	-	X
55	MG	DA	3089	-	-	-	X
55	MG	DA	3146	-	-	-	X
55	MG	DA	3302	-	-	-	X
55	MG	DA	3342	-	-	-	X
55	MG	DA	3363	-	-	-	X
55	MG	DA	3381	-	-	-	X
55	MG	DA	3458	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	DA	3481	-	-	-	X
55	MG	DA	3491	-	-	-	X
55	MG	DA	3501	-	-	-	X
55	MG	DA	3503	-	-	-	X
55	MG	DA	3507	-	-	-	X

2 Entry composition (i)

There are 56 unique types of molecules in this entry. The entry contains 299552 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	1506	Total	C	N	O	P	0	0	0
			32369	14408	5997	10459	1505			
1	CA	1506	Total	C	N	O	P	0	0	0
			32372	14408	5997	10461	1506			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AE	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			
2	CE	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AF	205	Total	C	N	O	S	0	0	0
			1605	1011	313	280	1			
3	CF	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AG	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	CG	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	AH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
5	CH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CI	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	AJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CJ	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	AK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CK	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	AL	127	Total	C	N	O	0	0	0
			1010	639	197	174			
9	CL	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	AM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	CN	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	AO	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			
12	CO	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AP	116	Total	C	N	O	S	0	0	0
			928	574	191	161	2			
13	CP	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	CQ	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	AR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	CR	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	AS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			
16	CS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
17	CT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AU	72	Total	C	N	O	0	0	0
			591	376	117	98			
18	CU	72	Total	C	N	O	0	0	0
			591	376	117	98			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AV	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			
19	CV	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CW	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	AX	25	Total	C	N	O	0	0	0
			217	134	52	31			
21	CX	25	Total	C	N	O	0	0	0
			217	134	52	31			

- Molecule 22 is a RNA chain called TRNA-LEU.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AB	87	Total	C	N	O	P	0	0	0
			1861	829	333	612	87			
22	CB	87	Total	C	N	O	P	0	0	0
			1861	829	333	612	87			

- Molecule 23 is a RNA chain called TRNA-FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
23	AD	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
23	CC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
23	CD	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AC	18	C	U	conflict	GB AP012306.1
AD	18	C	U	conflict	GB AP012306.1
CC	18	C	U	conflict	GB AP012306.1
CD	18	C	U	conflict	GB AP012306.1

- Molecule 24 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	A1	10	Total	C	N	O	P	0	0	0
			205	92	26	77	10			
24	C1	10	Total	C	N	O	P	0	0	0
			205	92	26	77	10			

- Molecule 25 is a RNA chain called RNA (2912-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BA	2912	Total 62707	C 27911	N 11722	O 20163	P 2911	0	0	0
25	DA	2907	Total 62607	C 27866	N 11712	O 20123	P 2906	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	161	U	-	expression tag	GB AP008226.1
BA	654A	A	G	conflict	GB AP008226.1
BA	654E	C	G	conflict	GB AP008226.1
BA	654P	G	C	conflict	GB AP008226.1
BA	654T	A	C	conflict	GB AP008226.1
BA	1058	U	G	conflict	GB AP008226.1
BA	1080	A	C	conflict	GB AP008226.1
DA	168	U	-	insertion	GB AP008226.1
DA	654A	A	G	conflict	GB AP008226.1
DA	654E	C	G	conflict	GB AP008226.1
DA	654P	G	C	conflict	GB AP008226.1
DA	654T	A	C	conflict	GB AP008226.1
DA	1058	U	G	conflict	GB AP008226.1
DA	1080	A	C	conflict	GB AP008226.1

- Molecule 26 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BB	122	Total 2617	C 1166	N 486	O 844	P 121	0	0	0
26	DB	122	Total 2617	C 1166	N 486	O 844	P 121	0	0	0

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BD	272	Total 2115	C 1335	N 420	O 357	S 3	0	0	0
27	DD	272	Total 2115	C 1335	N 420	O 357	S 3	0	0	0

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			
28	DE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BF	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			
29	DF	208	Total	C	N	O	S	0	0	0
			1627	1037	304	283	3			

- Molecule 30 is a protein called 50S ribosomal protein L5.

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

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			
31	DH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
32	DK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

- Molecule 33 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	DM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 34 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
34	DN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 35 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			
35	DO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			

- Molecule 36 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
36	DP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 37 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	B0	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
37	D0	117	Total	C	N	O		0	0	0
			960	599	202	159				

- Molecule 38 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BQ	111	Total	C	N	O	0	0	0
			882	556	176	150			
38	DQ	111	Total	C	N	O	0	0	0
			882	556	176	150			

- Molecule 39 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			
39	DR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			

- Molecule 40 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	B1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
40	D1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 41 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	B2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
41	D2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 42 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			
42	DS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			

- Molecule 43 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BT	92	Total	C	N	O	0	0	0
			725	471	131	123			
43	DT	92	Total	C	N	O	0	0	0
			725	471	131	123			

- Molecule 44 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			
44	DU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			

- Molecule 45 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BV	175	Total	C	N	O	S	0	0	0
			1397	892	251	251	3			
45	DV	179	Total	C	N	O	S	0	0	0
			1428	911	255	259	3			

- Molecule 46 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	B3	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			
46	D3	77	Total	C	N	O	S	0	0	0
			613	379	129	104	1			

- Molecule 47 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			
47	DZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			

- Molecule 48 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BW	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			
48	DW	69	Total	C	N	O	S	0	0	0
			581	358	118	104	1			

- Molecule 49 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BX	59	Total	C	N	O	0	0	0
			469	298	90	81			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	DX	59	Total	C	N	O	0	0	0
			469	298	90	81			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B4	66	Total	C	N	O	S	0	0	0
			533	335	96	97	5			
50	D4	63	Total	C	N	O	S	0	0	0
			515	326	93	91	5			

- Molecule 51 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
51	D5	58	Total	C	N	O	S	0	0	0
			454	285	89	75	5			

- Molecule 52 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			
52	D6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			

- Molecule 53 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			
53	D7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

- Molecule 54 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			
54	D8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			

- Molecule 55 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	AA	242	Total Mg 242 242	0	0
55	AG	1	Total Mg 1 1	0	0
55	AH	1	Total Mg 1 1	0	0
55	AN	2	Total Mg 2 2	0	0
55	AQ	1	Total Mg 1 1	0	0
55	AB	5	Total Mg 5 5	0	0
55	AC	9	Total Mg 9 9	0	0
55	AD	1	Total Mg 1 1	0	0
55	A1	2	Total Mg 2 2	0	0
55	BA	623	Total Mg 623 623	0	0
55	BB	17	Total Mg 17 17	0	0
55	BD	1	Total Mg 1 1	0	0
55	BE	5	Total Mg 5 5	0	0
55	BF	3	Total Mg 3 3	0	0
55	BO	2	Total Mg 2 2	0	0
55	B0	1	Total Mg 1 1	0	0
55	B1	1	Total Mg 1 1	0	0
55	B2	1	Total Mg 1 1	0	0
55	BU	2	Total Mg 2 2	0	0
55	B3	1	Total Mg 1 1	0	0
55	B5	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	B7	1	Total Mg 1 1	0	0
55	B8	1	Total Mg 1 1	0	0
55	CA	207	Total Mg 207 207	0	0
55	CG	2	Total Mg 2 2	0	0
55	CN	1	Total Mg 1 1	0	0
55	CS	1	Total Mg 1 1	0	0
55	CB	3	Total Mg 3 3	0	0
55	CC	8	Total Mg 8 8	0	0
55	DA	526	Total Mg 526 526	0	0
55	DB	14	Total Mg 14 14	0	0
55	DE	3	Total Mg 3 3	0	0
55	DP	1	Total Mg 1 1	0	0
55	DR	1	Total Mg 1 1	0	0
55	D1	2	Total Mg 2 2	0	0
55	DU	1	Total Mg 1 1	0	0
55	D3	1	Total Mg 1 1	0	0
55	D5	1	Total Mg 1 1	0	0

- Molecule 56 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	AG	1	Total Zn 1 1	0	0
56	AQ	1	Total Zn 1 1	0	0

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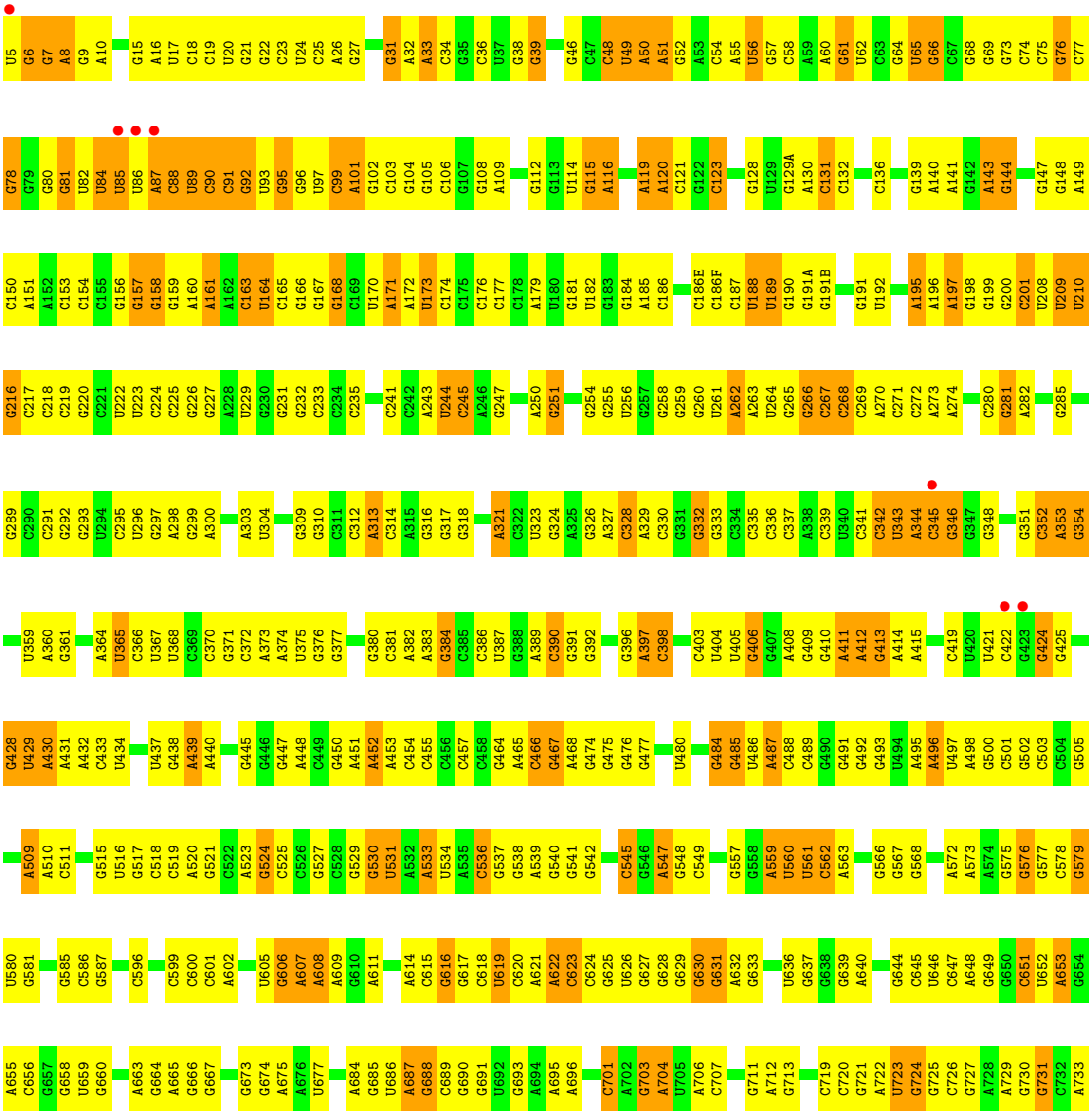
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	CG	1	Total Zn 1 1	0	0
56	CQ	1	Total Zn 1 1	0	0

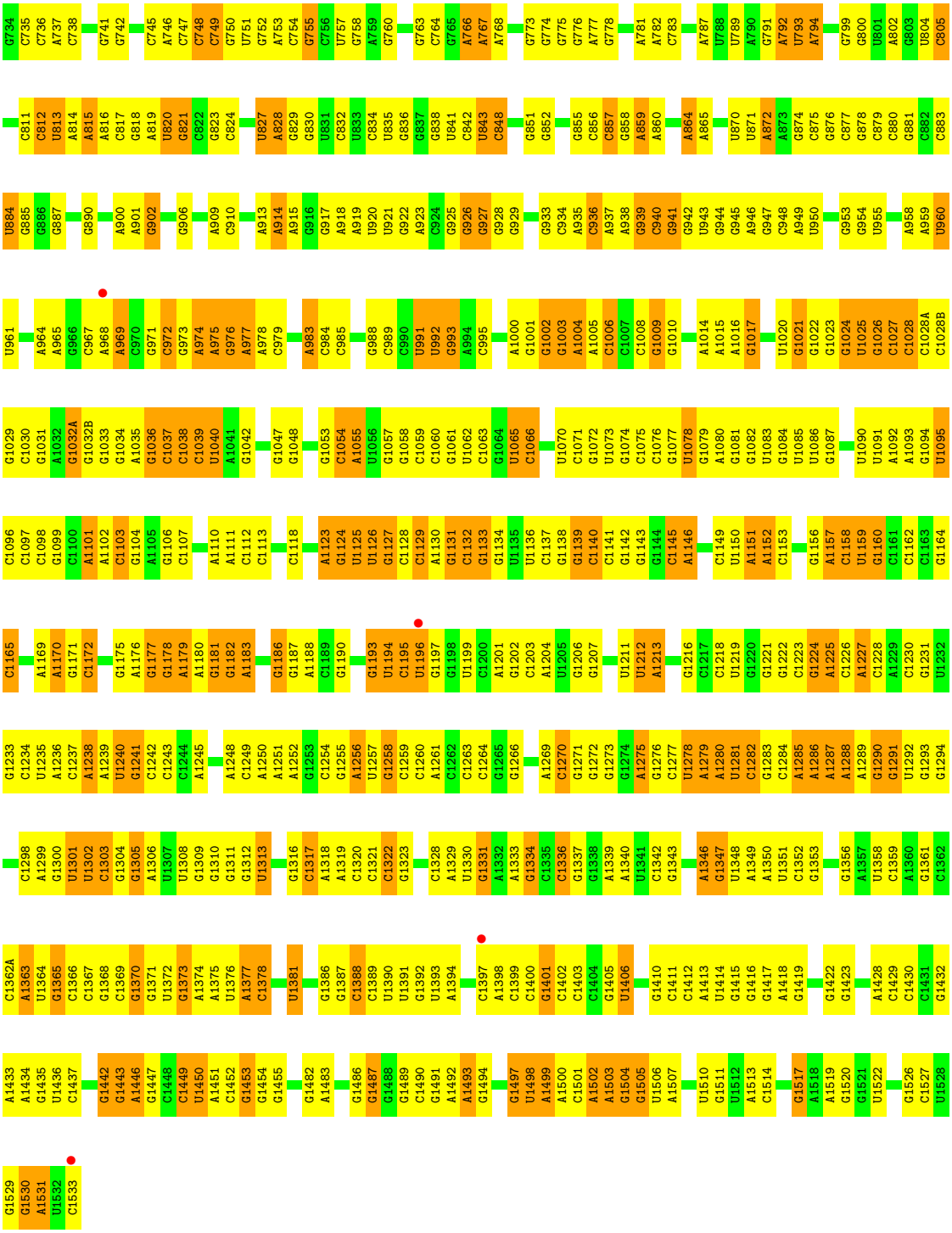
3 Residue-property plots (i)

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

• Molecule 1: 16S ribosomal RNA

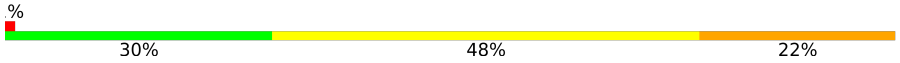
Chain AA:

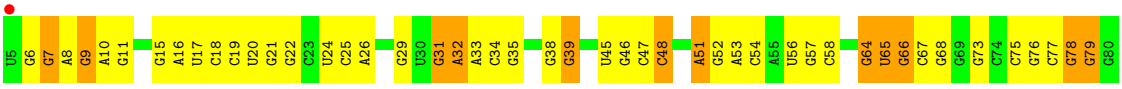


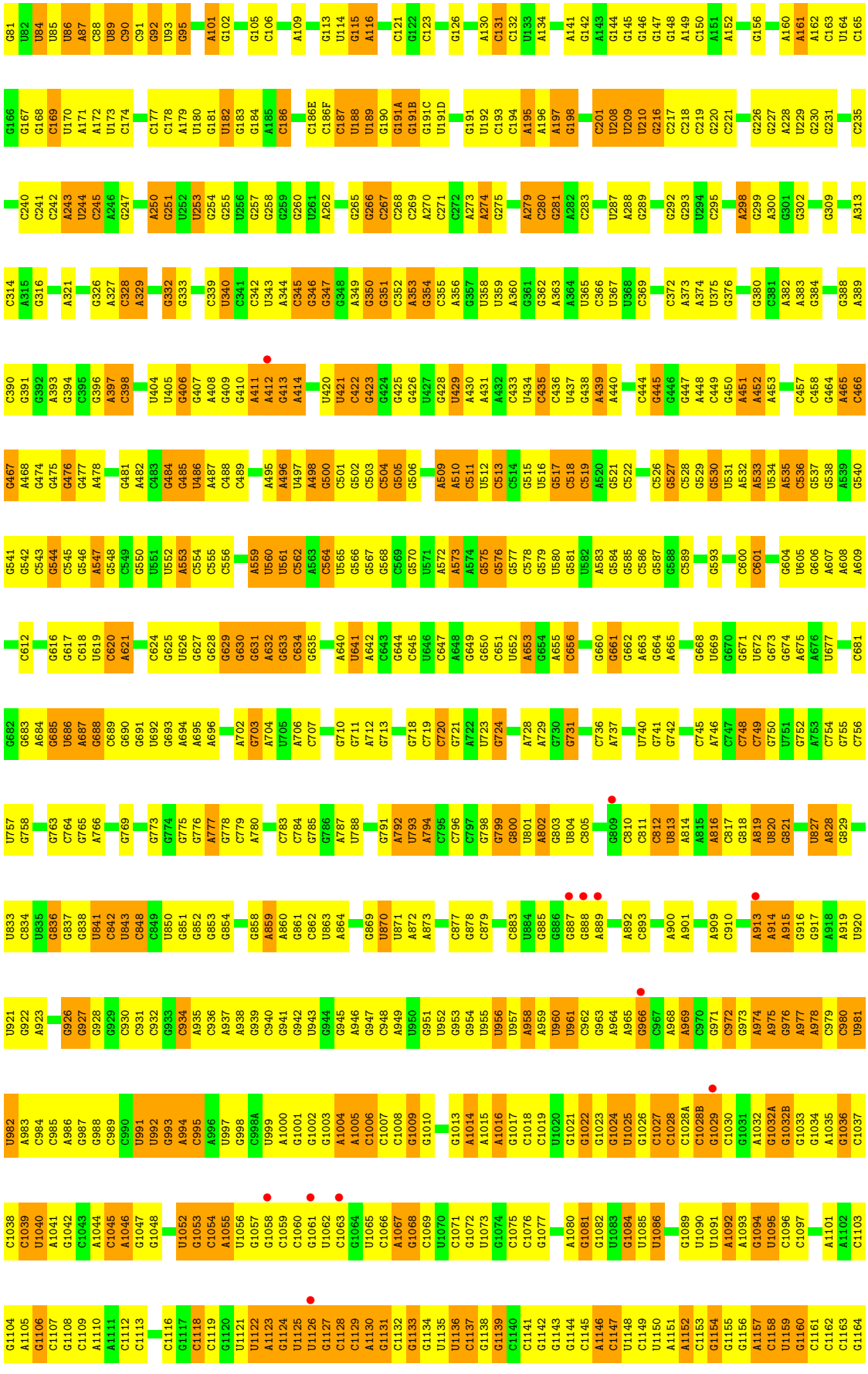


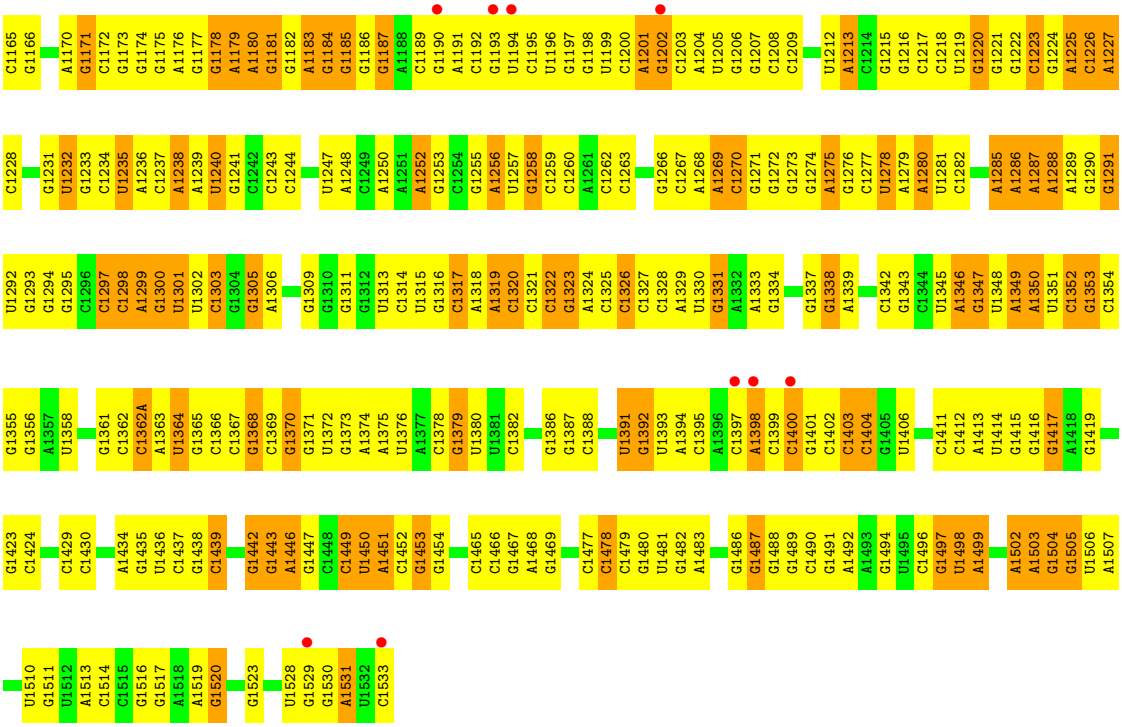
• Molecule 1: 16S ribosomal RNA

Chain CA:



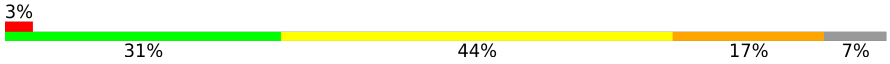


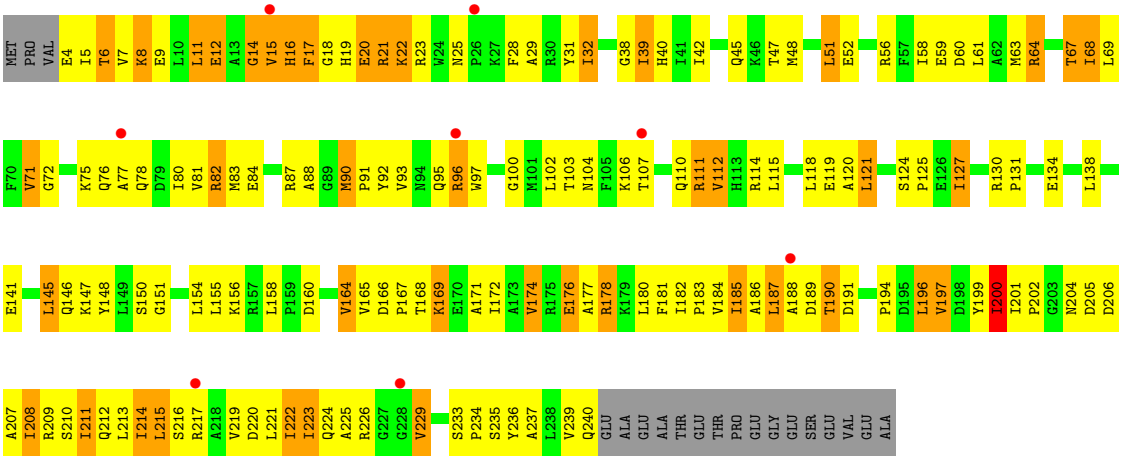




• Molecule 2: 30S RIBOSOMAL PROTEIN S2

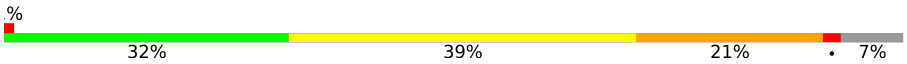
Chain AE:

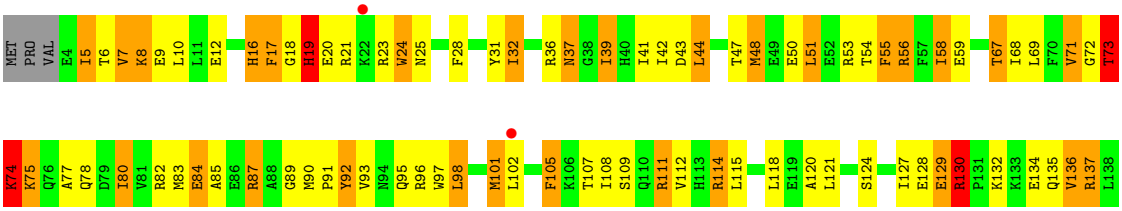


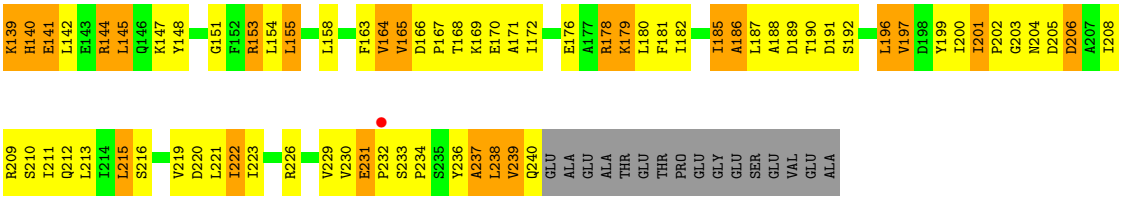


• Molecule 2: 30S RIBOSOMAL PROTEIN S2

Chain CE:

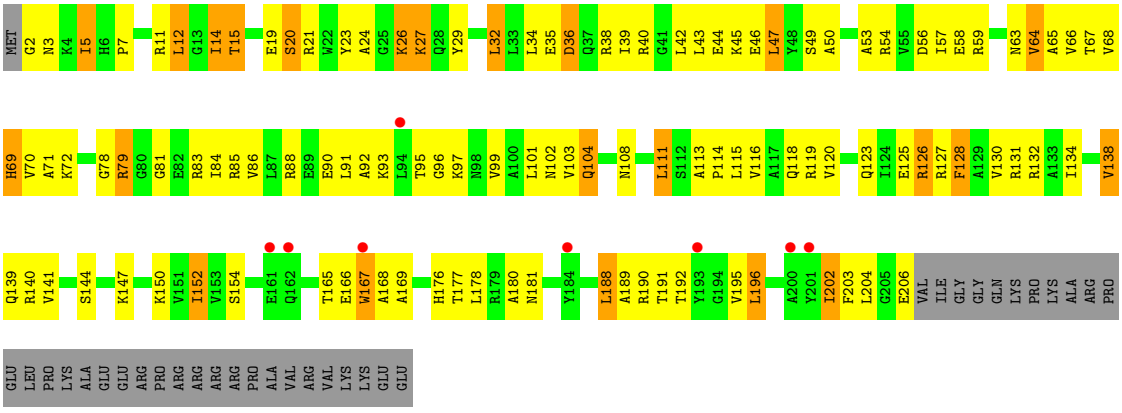






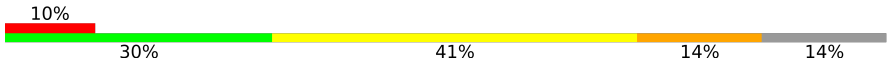
• Molecule 3: 30S RIBOSOMAL PROTEIN S3

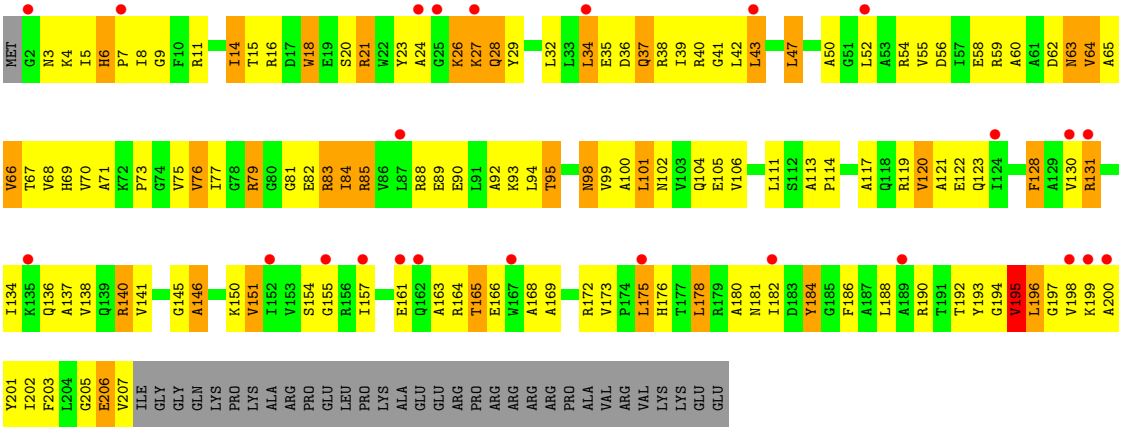
Chain AF:



• Molecule 3: 30S RIBOSOMAL PROTEIN S3

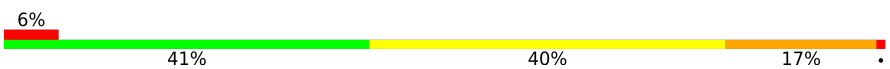
Chain CF:

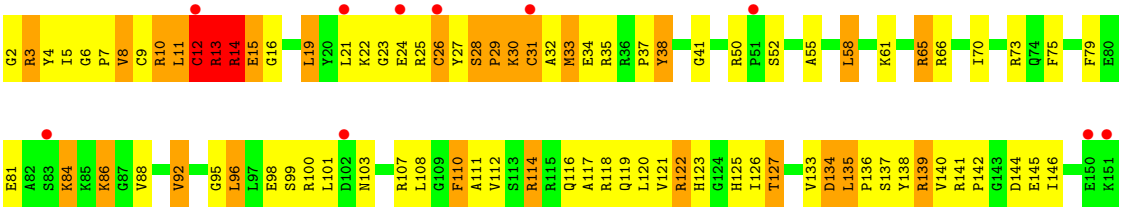


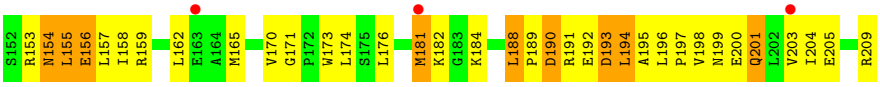


• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain AG:

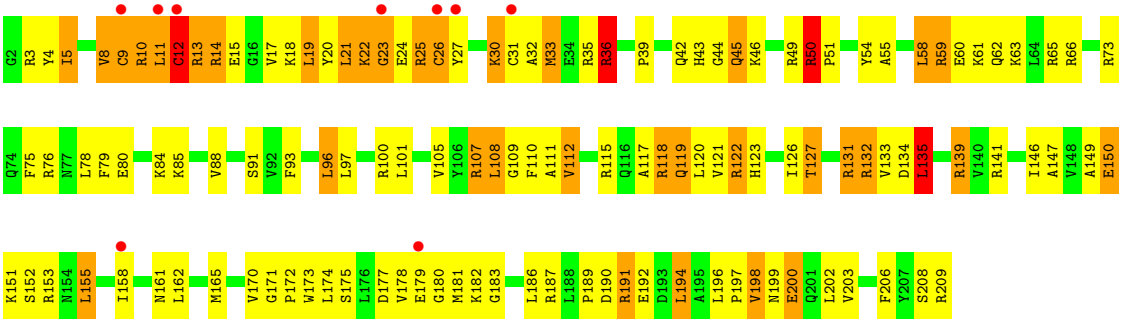






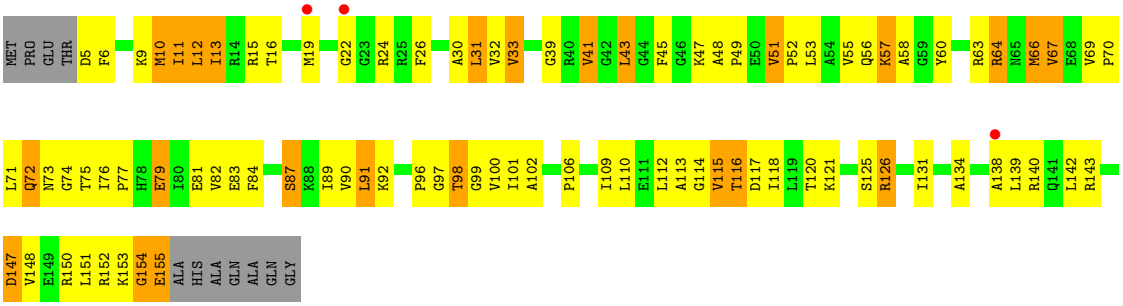
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain CG:



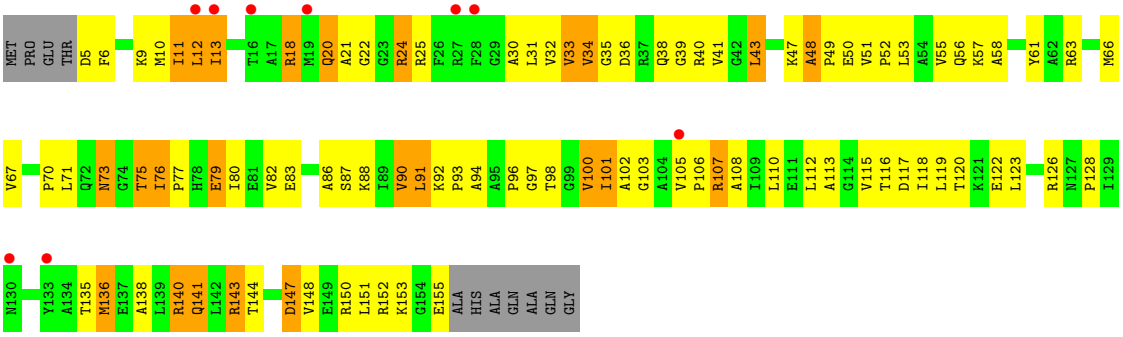
• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain AH:



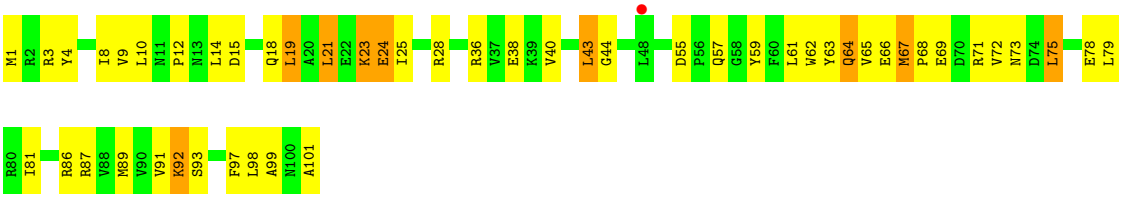
• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain CH:



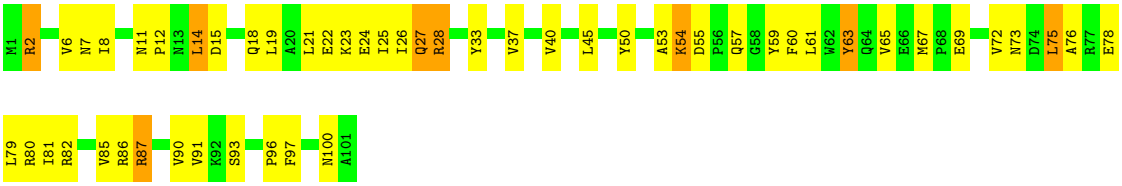
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain AI:



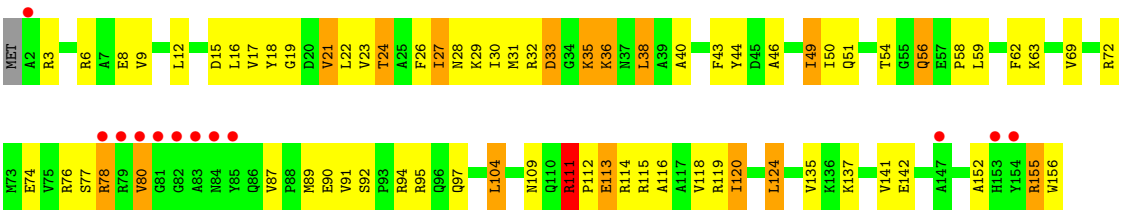
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain CI:



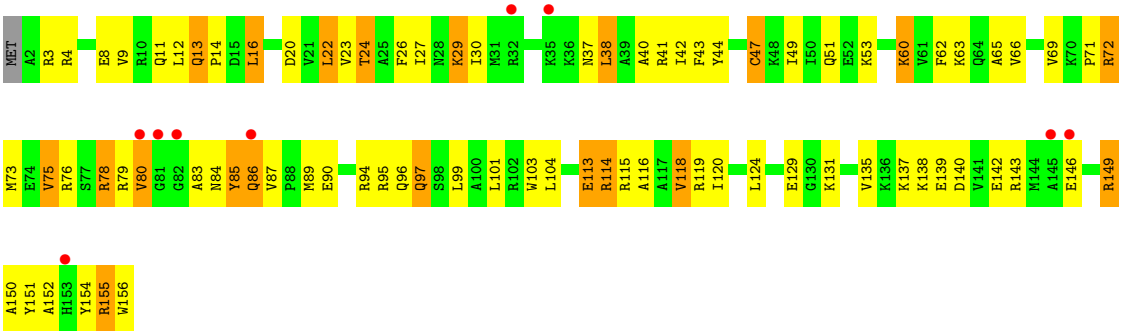
• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain AJ:



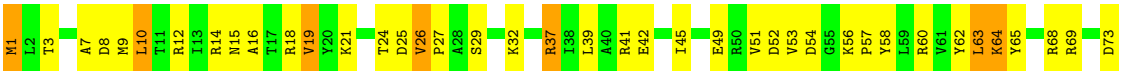
• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain CJ:



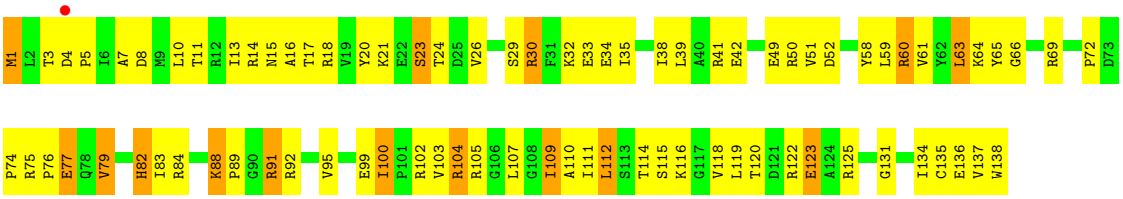
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

Chain AK:



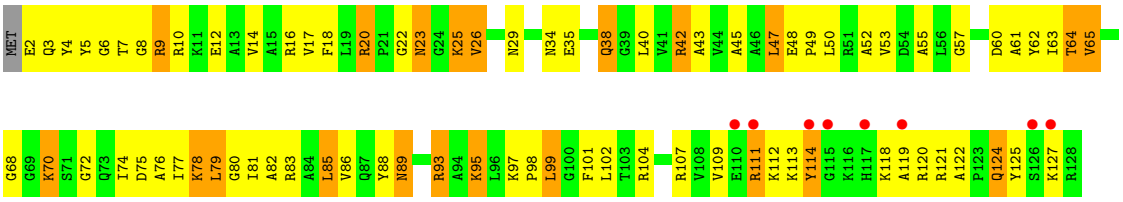
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

Chain CK:



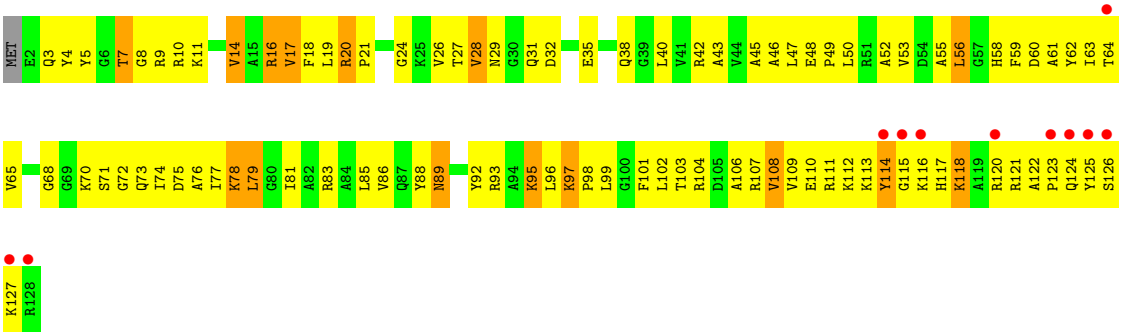
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain AL:



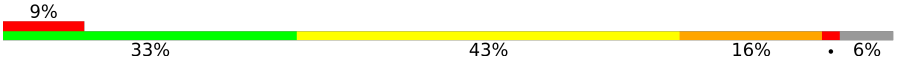
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

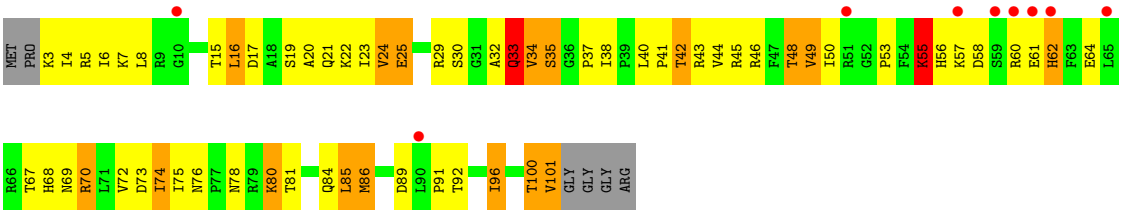
Chain CL:



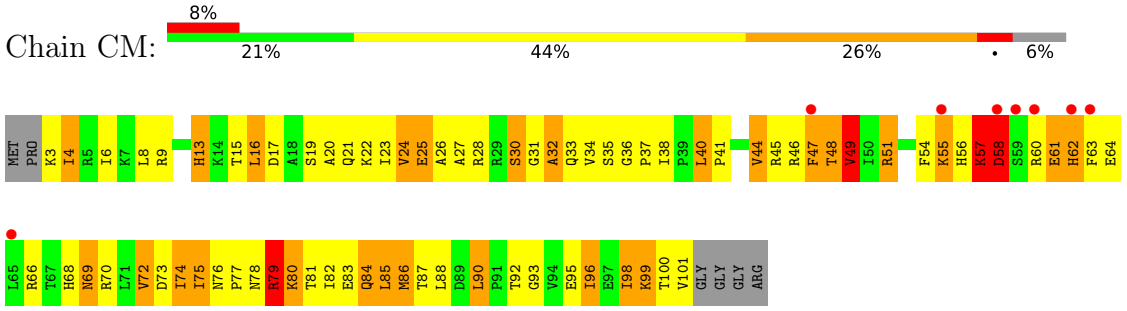
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain AM:

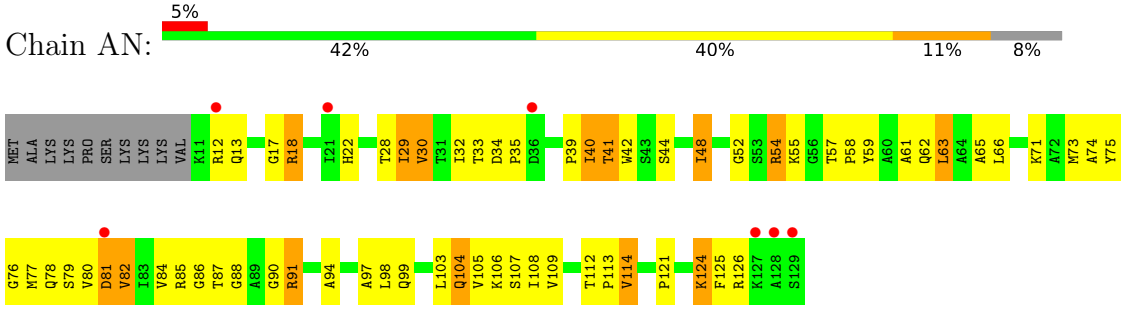




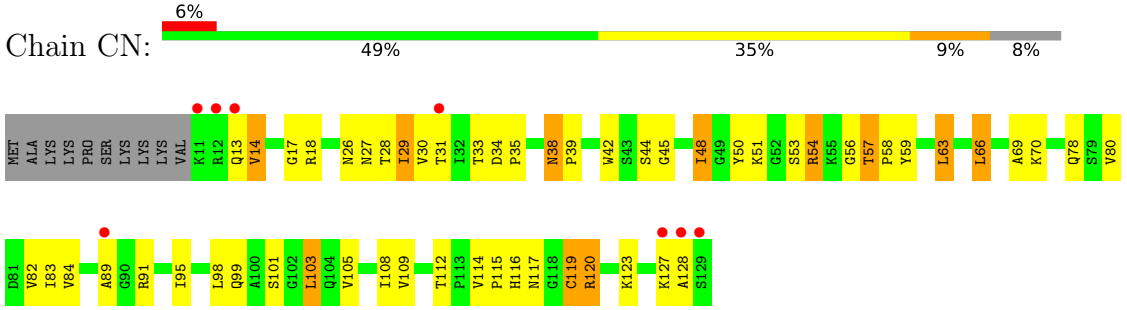
• Molecule 10: 30S RIBOSOMAL PROTEIN S10



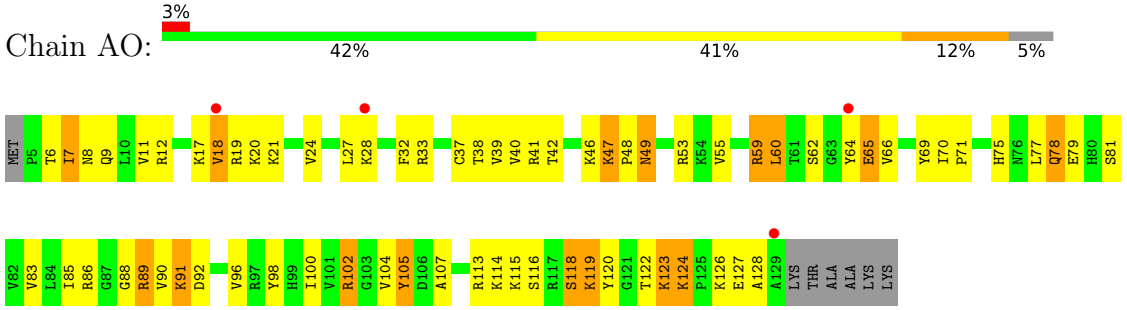
• Molecule 11: 30S RIBOSOMAL PROTEIN S11



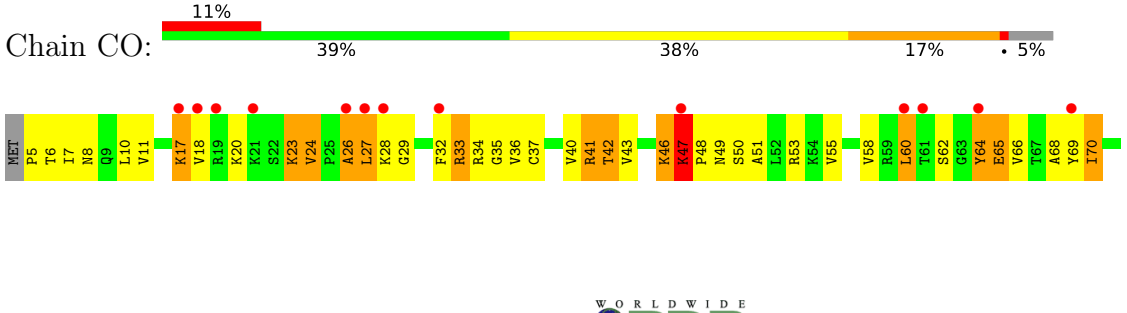
• Molecule 11: 30S RIBOSOMAL PROTEIN S11



• Molecule 12: 30S RIBOSOMAL PROTEIN S12

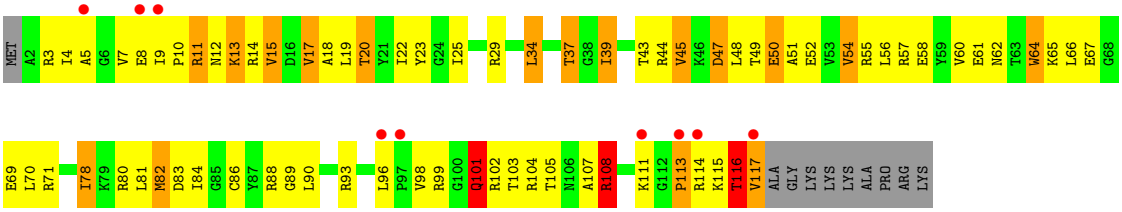


• Molecule 12: 30S RIBOSOMAL PROTEIN S12



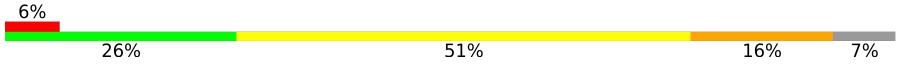
• Molecule 13: 30S RIBOSOMAL PROTEIN S13

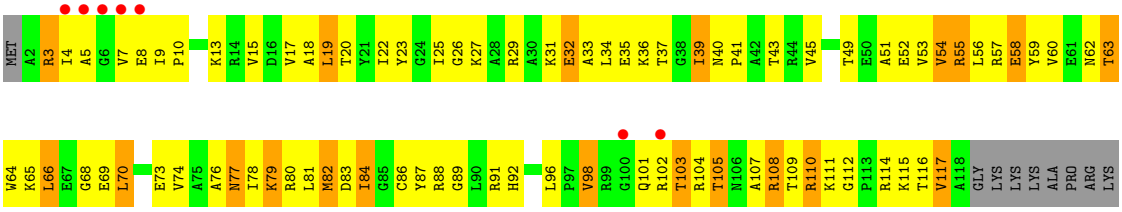
Chain AP:



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

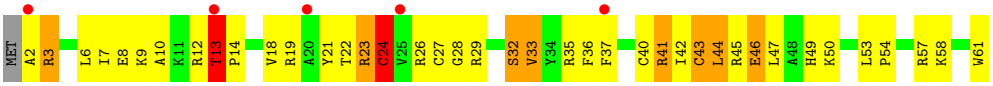
Chain CP:





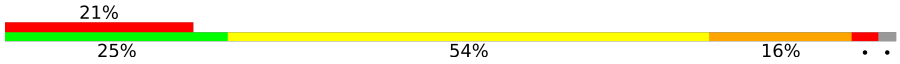
• Molecule 14: 30S RIBOSOMAL PROTEIN S14

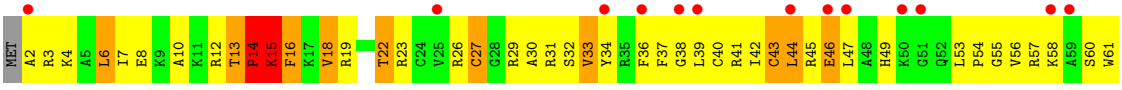
Chain AQ:



• Molecule 14: 30S RIBOSOMAL PROTEIN S14

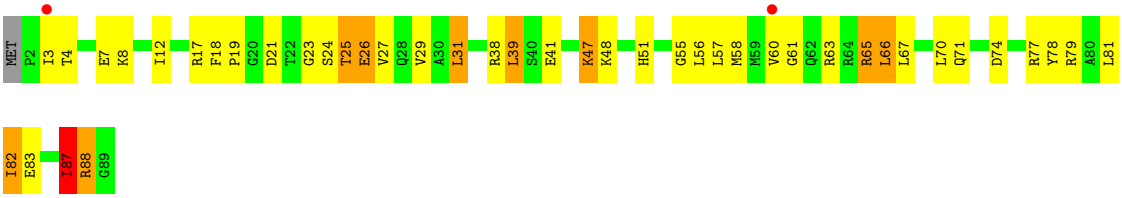
Chain CQ:





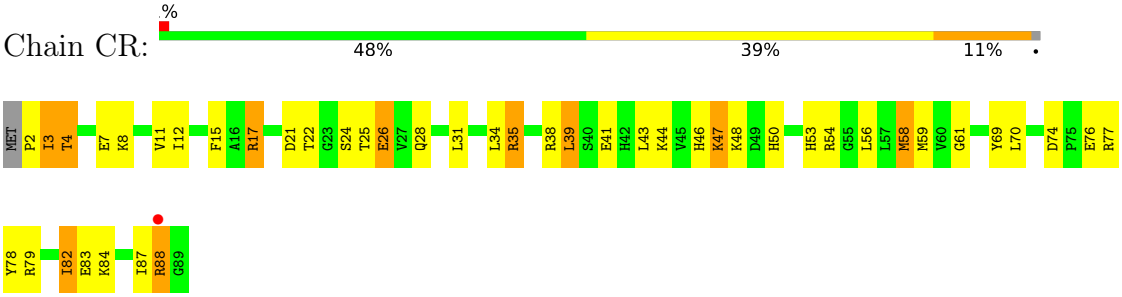
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain AR:



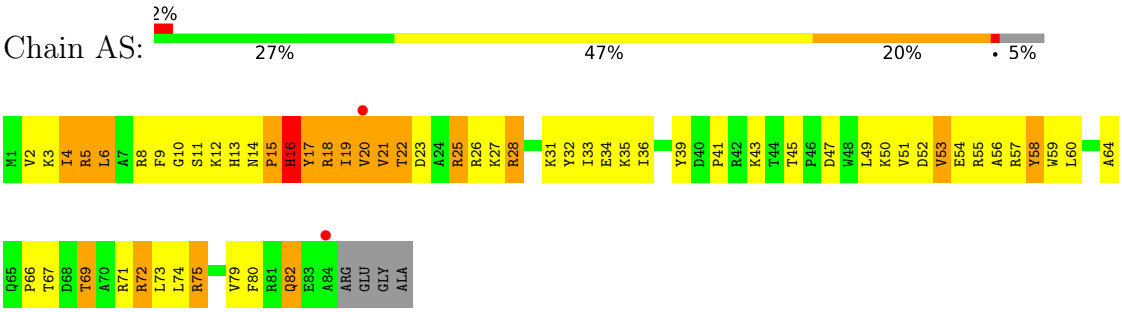
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain CR:



• Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain AS:

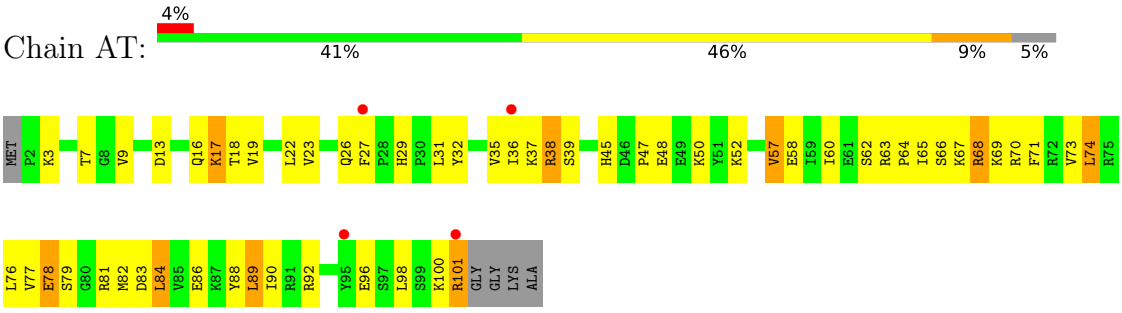


• Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain CS:

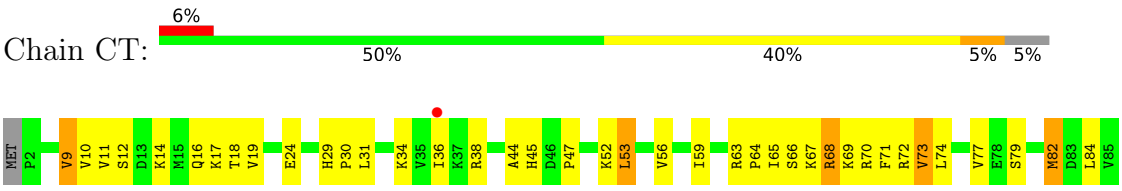
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

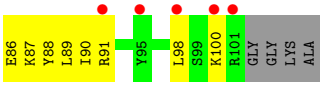
Chain AT:



• Molecule 17: 30S RIBOSOMAL PROTEIN S17

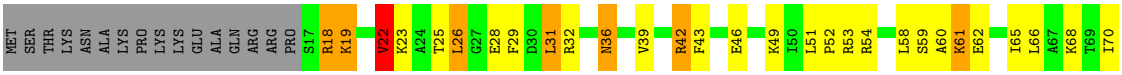
Chain CT:

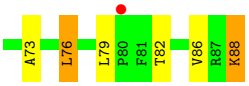




• Molecule 18: 30S RIBOSOMAL PROTEIN S18

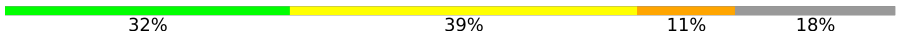
Chain AU:

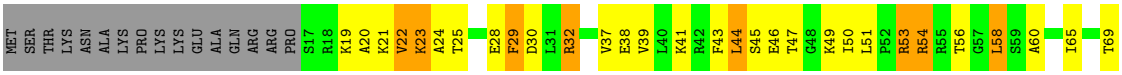


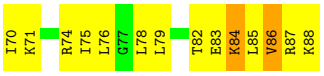


• Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain CU:

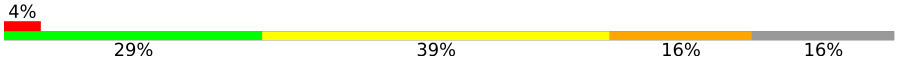


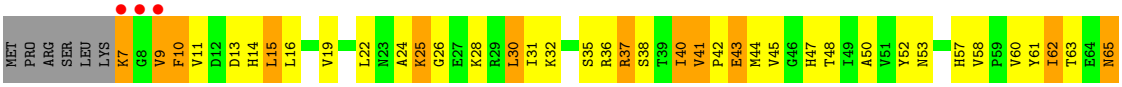


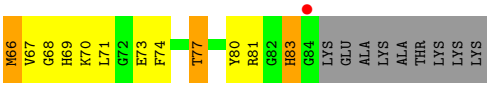


• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AV:

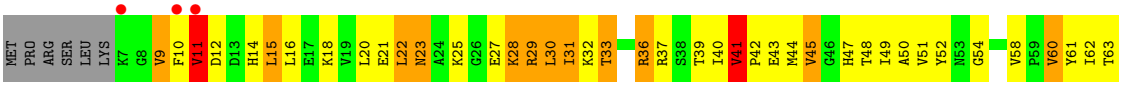


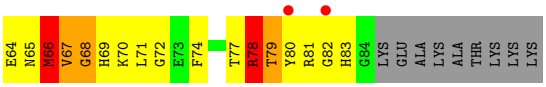




• Molecule 19: 30S RIBOSOMAL PROTEIN S19

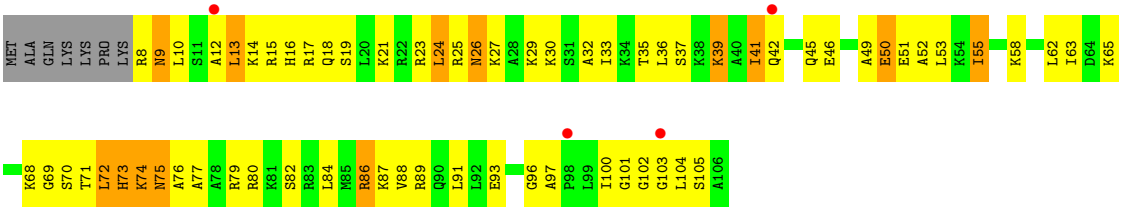
Chain CV:



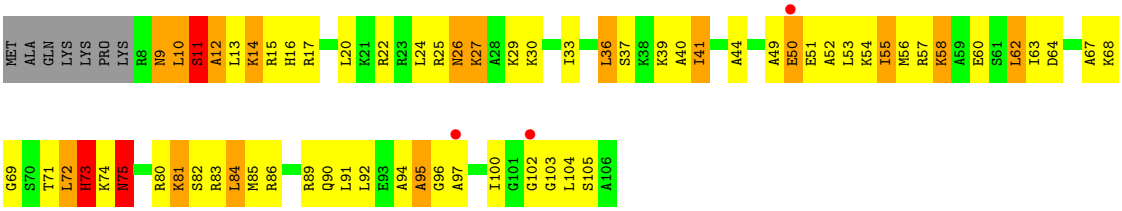


• Molecule 20: 30S RIBOSOMAL PROTEIN S20

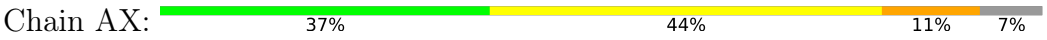
Chain AW:



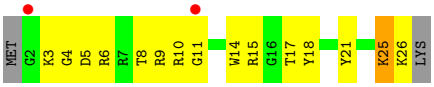
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



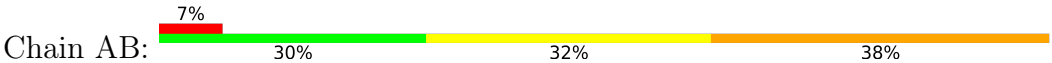
• Molecule 21: 30S RIBOSOMAL PROTEIN THX

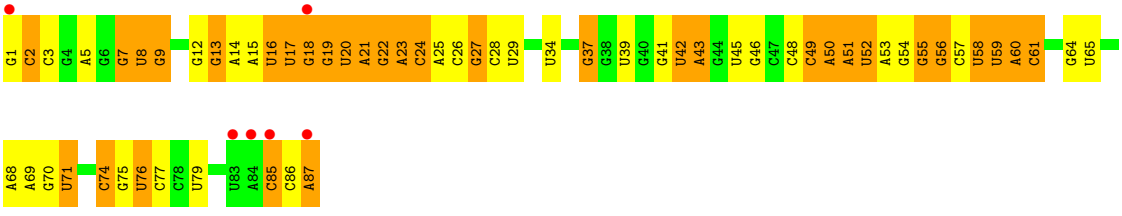


• Molecule 21: 30S RIBOSOMAL PROTEIN THX

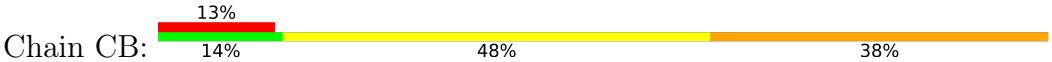


• Molecule 22: TRNA-LEU



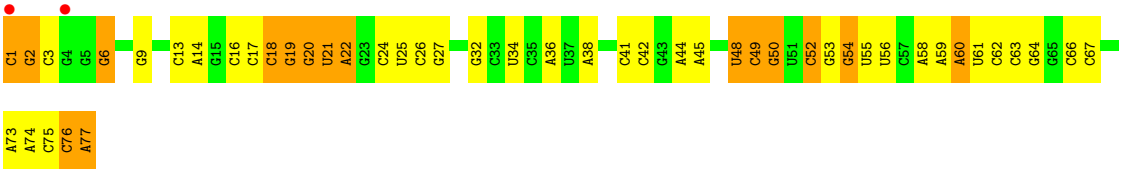


• Molecule 22: TRNA-LEU



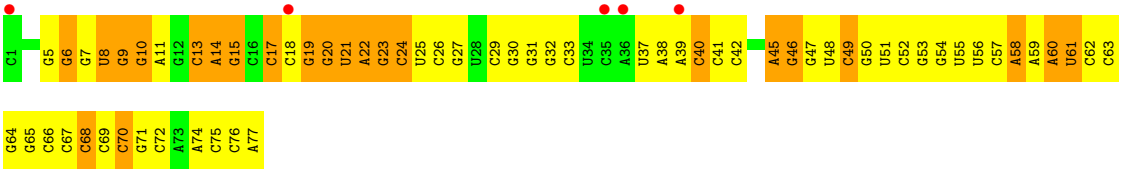
• Molecule 23: TRNA-FMET

Chain AC:



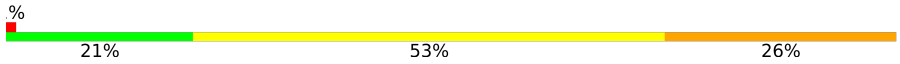
• Molecule 23: TRNA-FMET

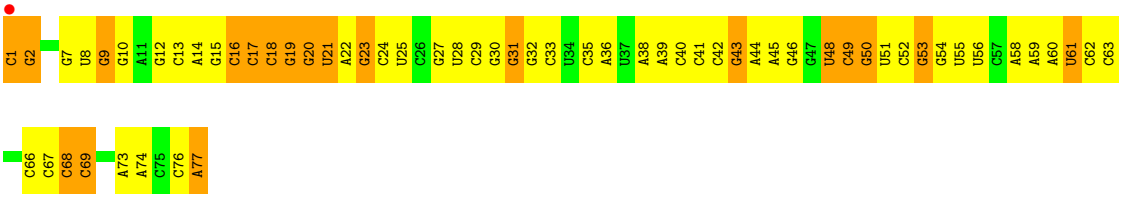
Chain AD:



• Molecule 23: TRNA-FMET

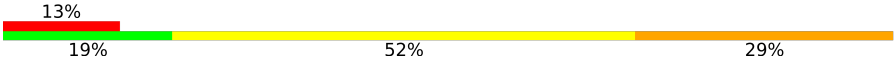
Chain CC:

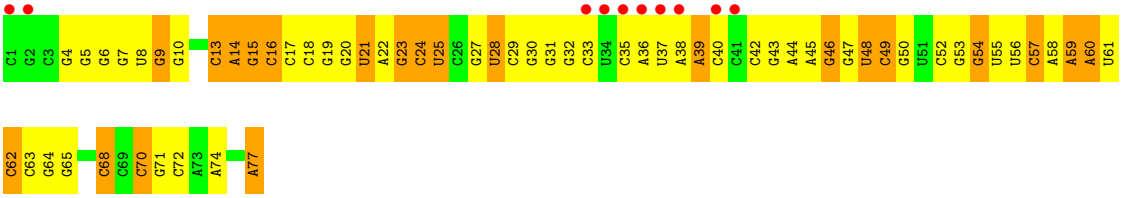




• Molecule 23: TRNA-FMET

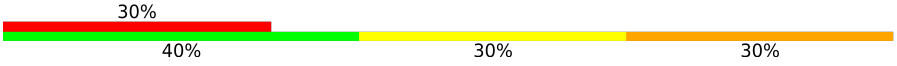
Chain CD:

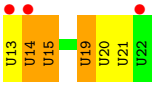




• Molecule 24: MRNA

Chain A1:



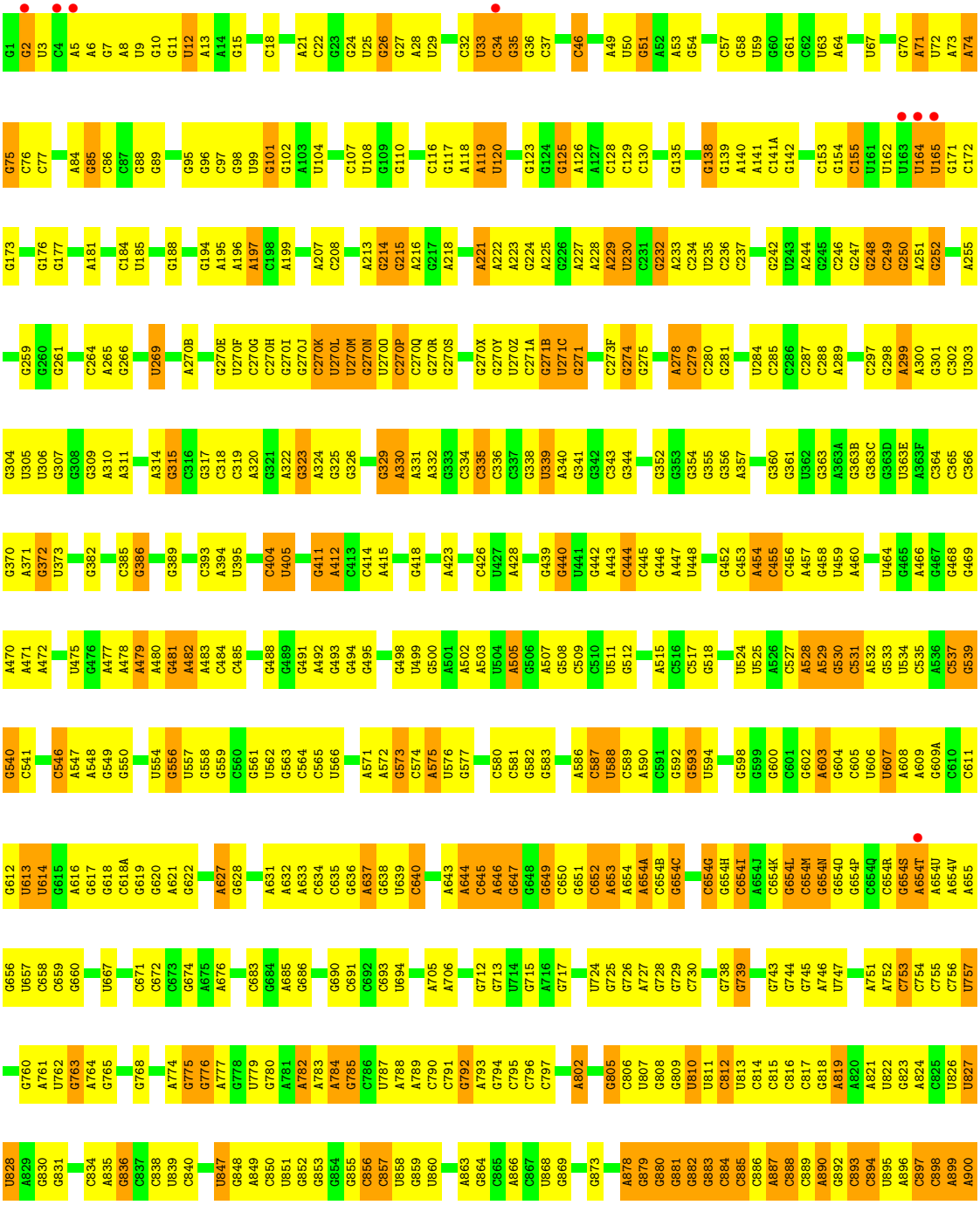


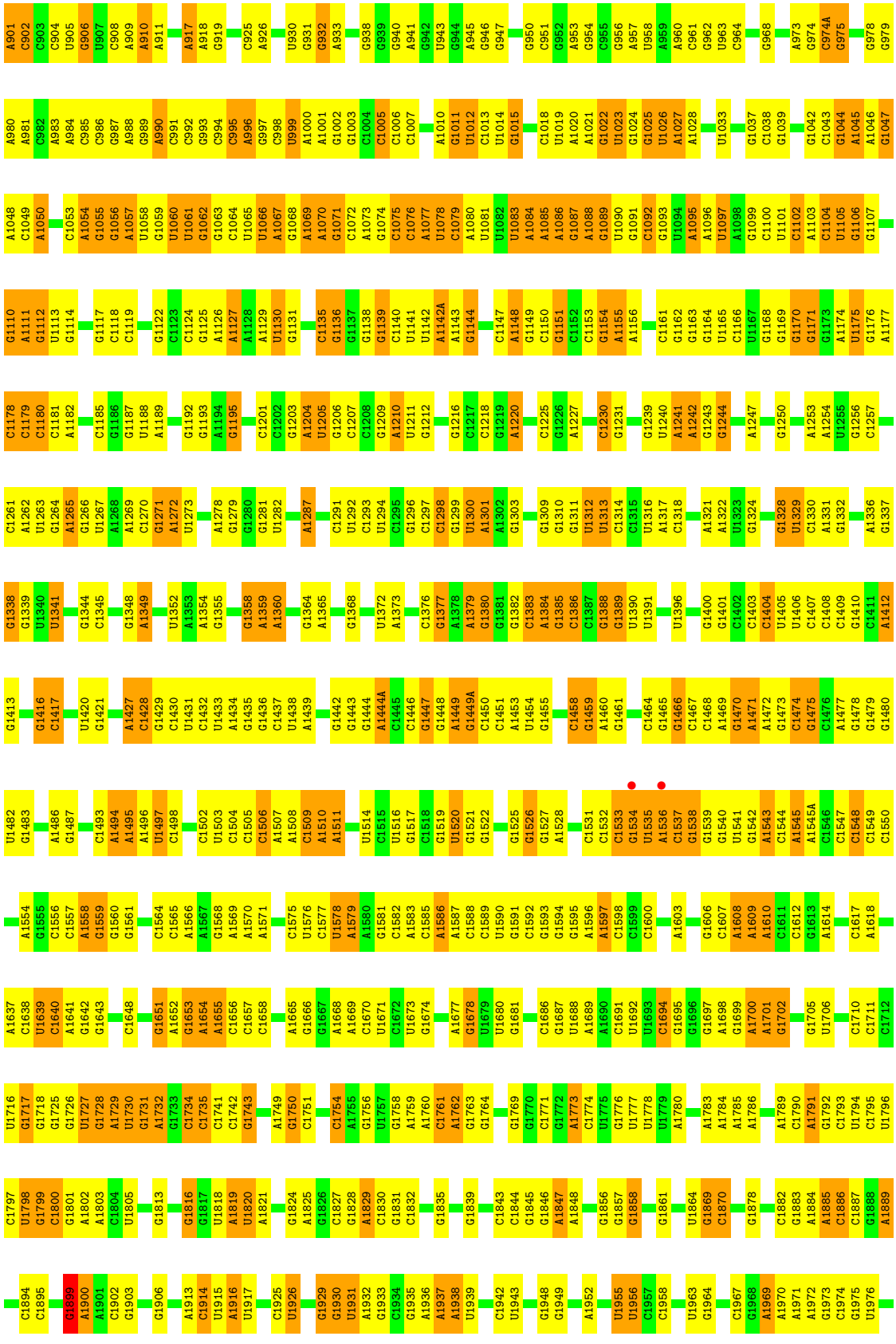
• Molecule 24: MRNA

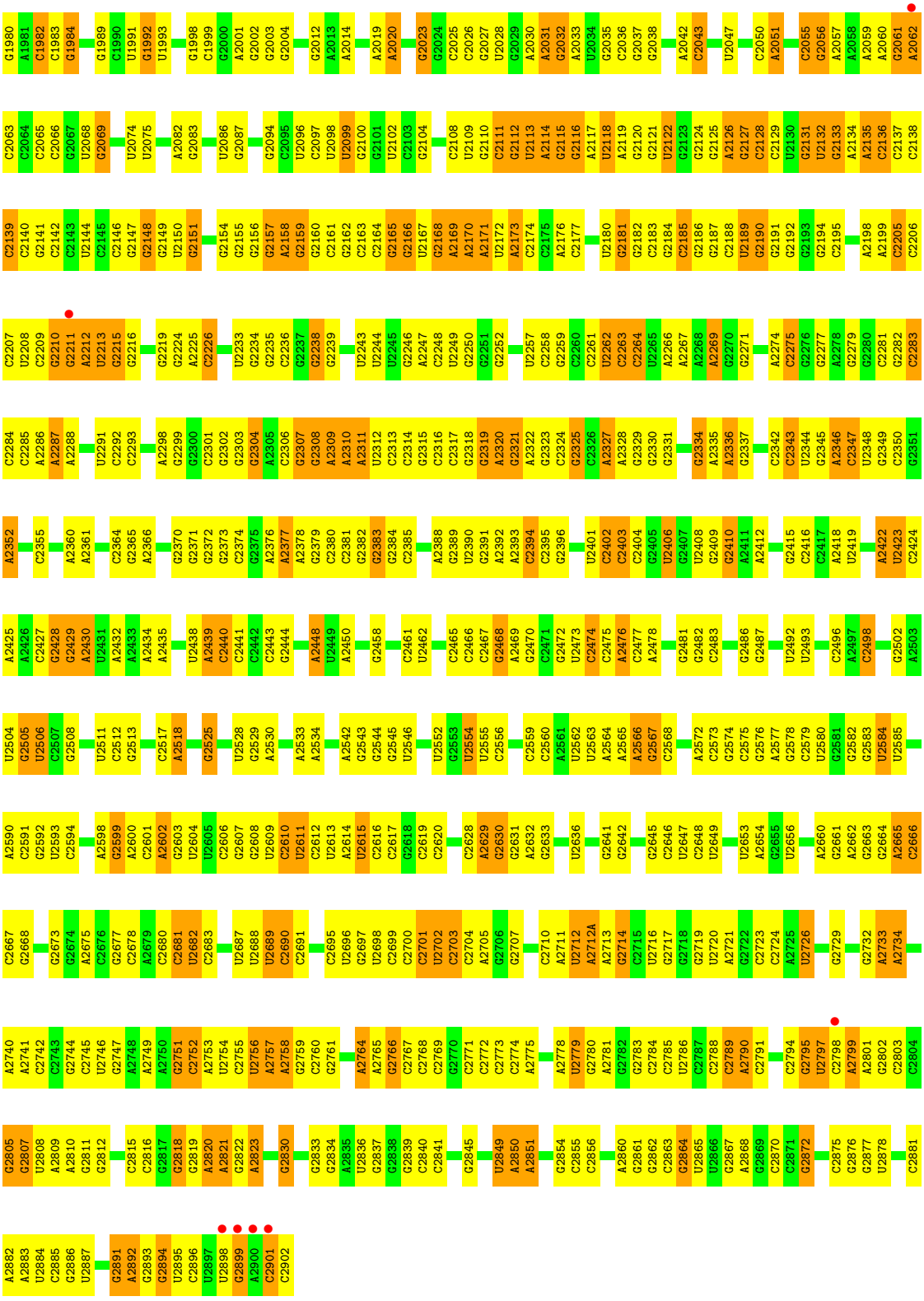
Chain C1:

• Molecule 25: RNA (2912-MER)

Chain BA:

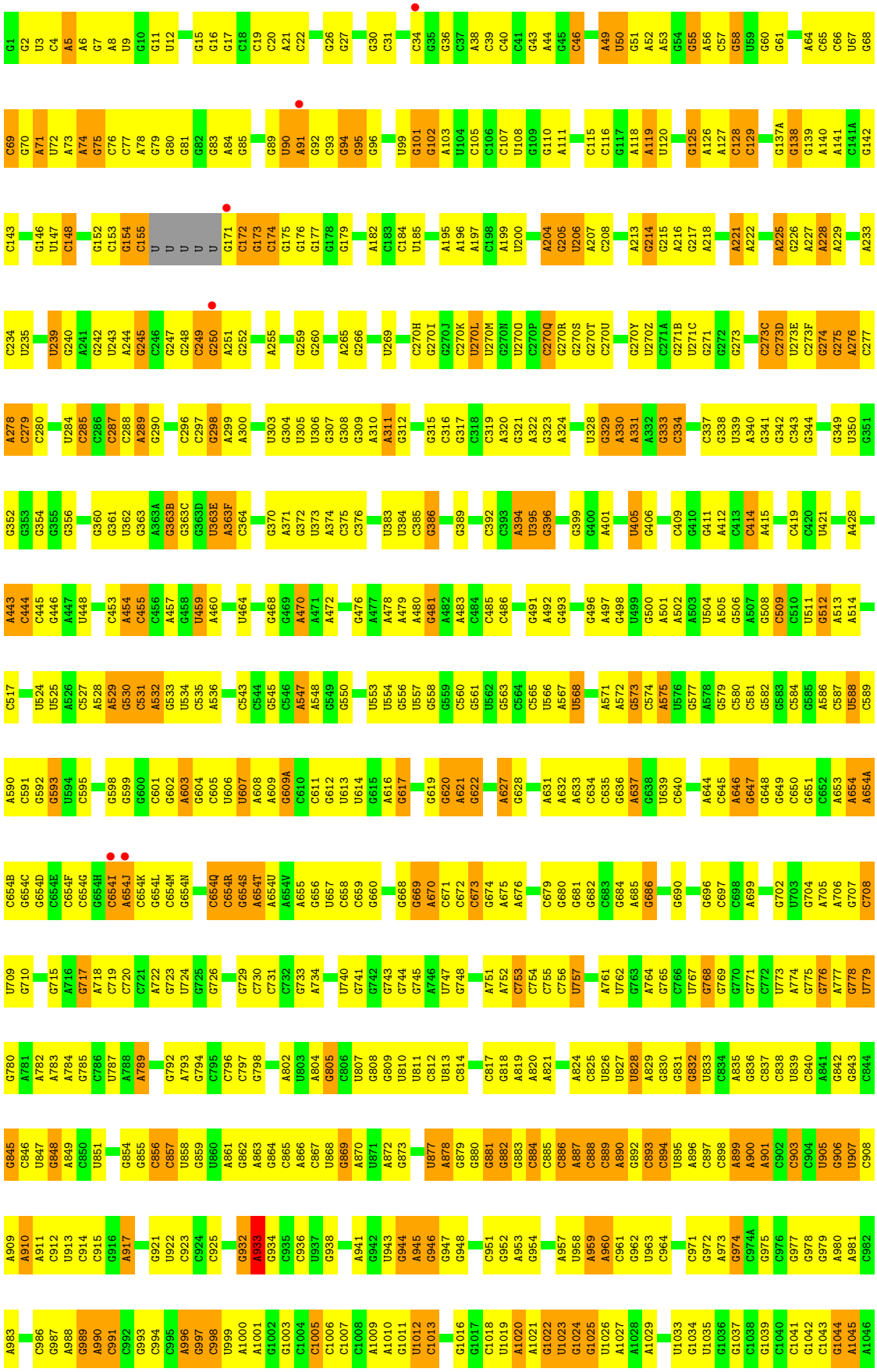


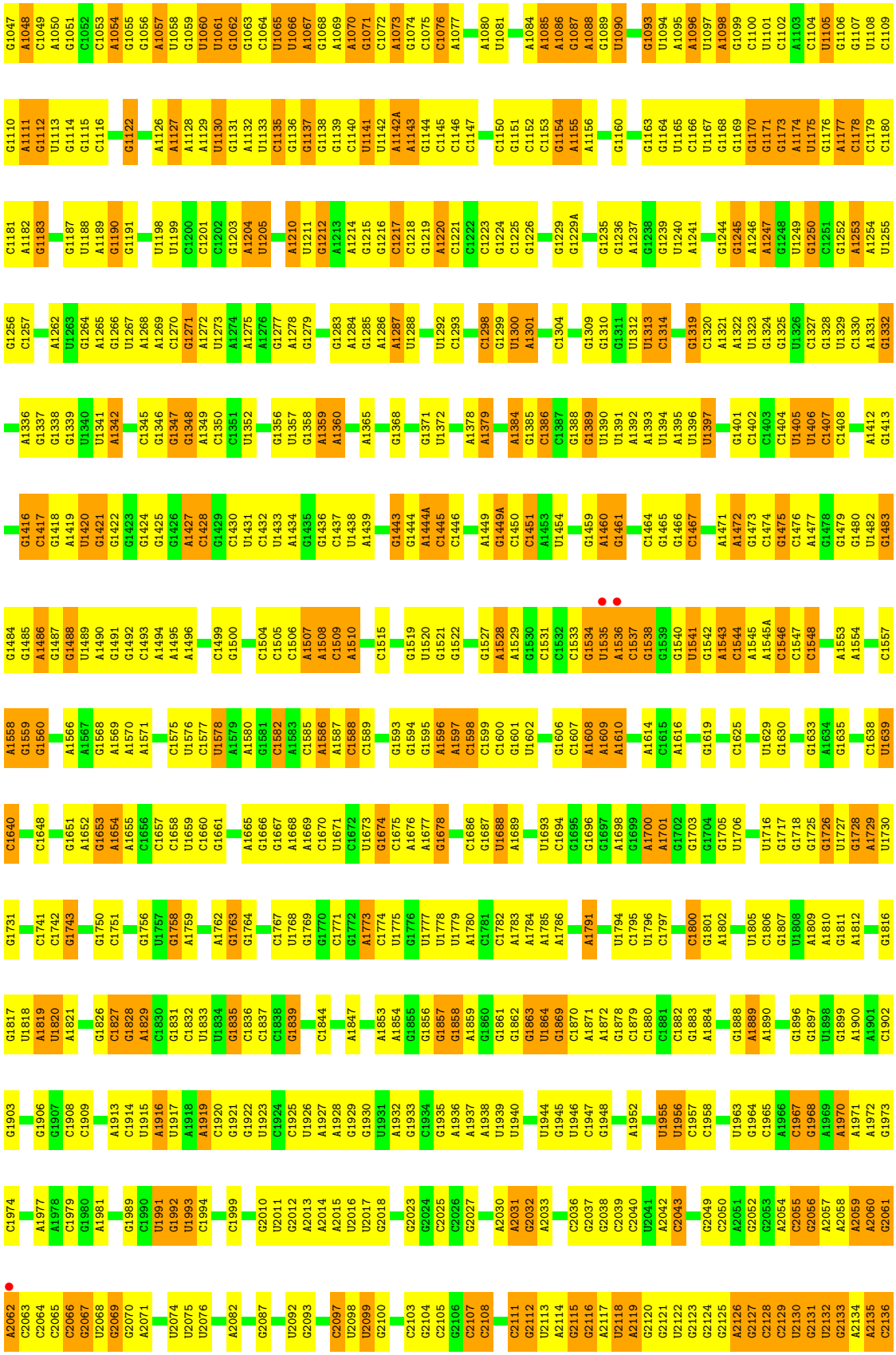


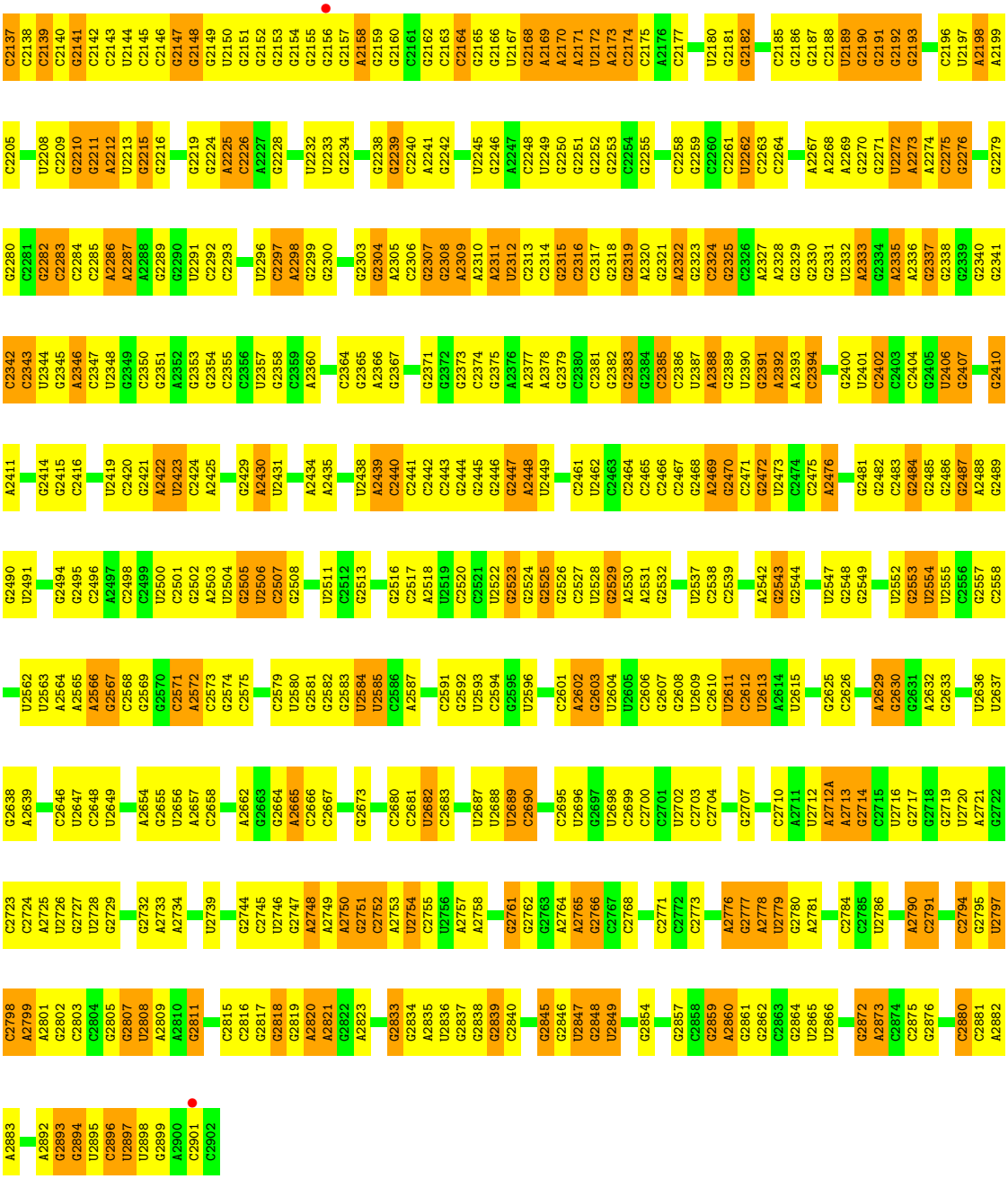


• Molecule 25: RNA (2912-MER)

Chain DA:

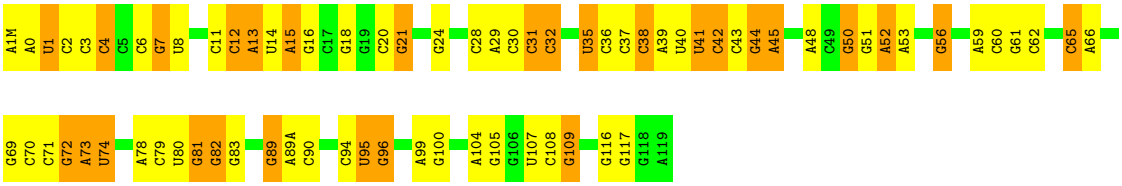






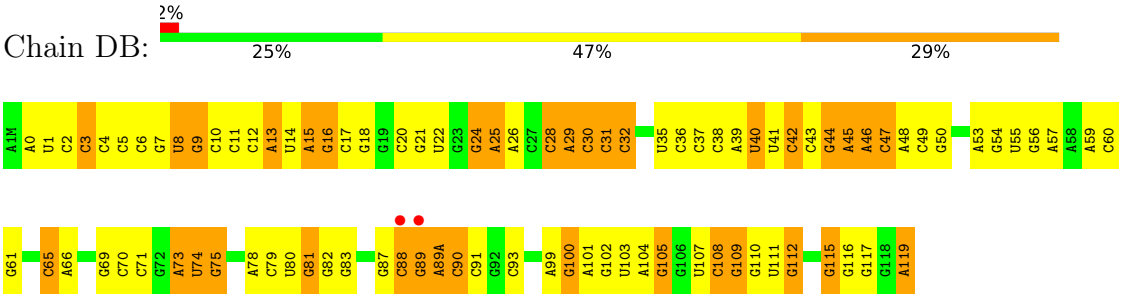
• Molecule 26: 5S RIBOSOMAL RNA

Chain BB:



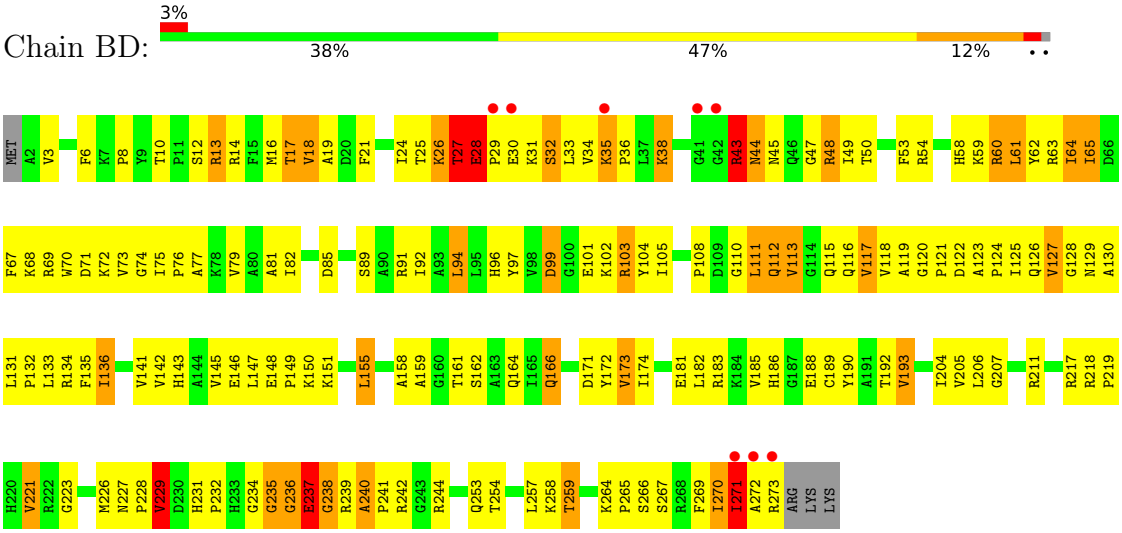
• Molecule 26: 5S RIBOSOMAL RNA

Chain DB:



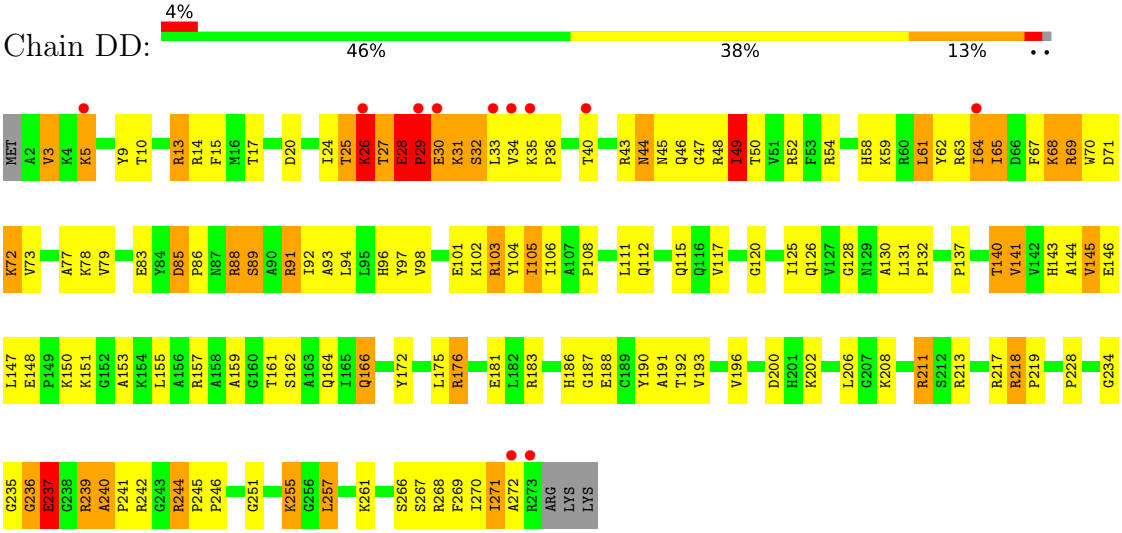
• Molecule 27: 50S ribosomal protein L2

Chain BD:



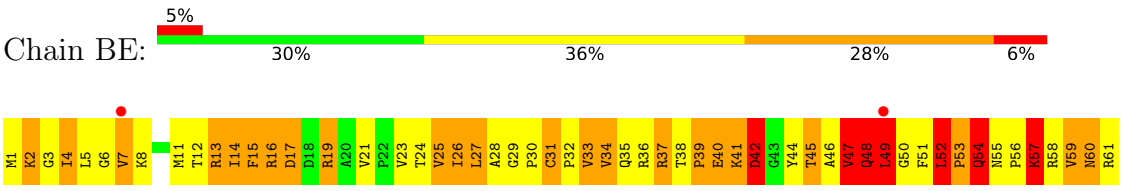
• Molecule 27: 50S ribosomal protein L2

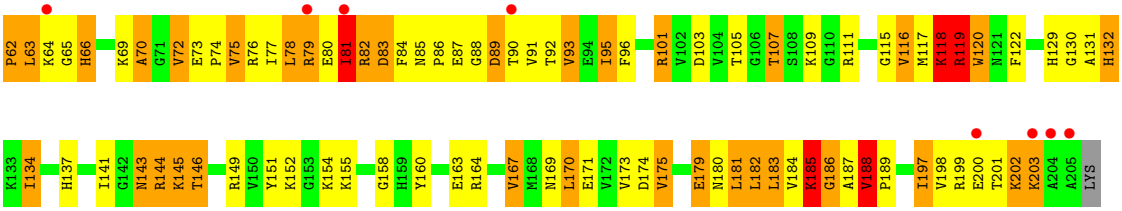
Chain DD:



• Molecule 28: 50S ribosomal protein L3

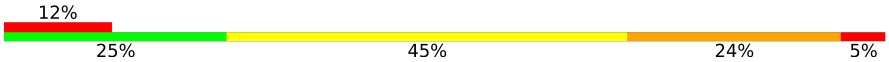
Chain BE:

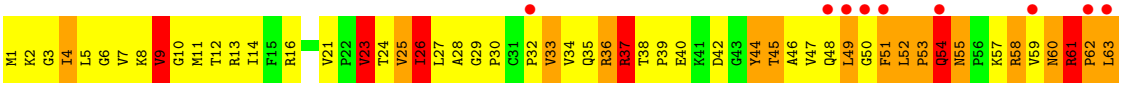


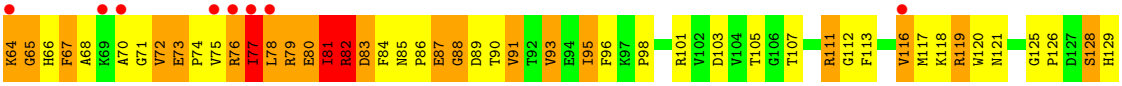


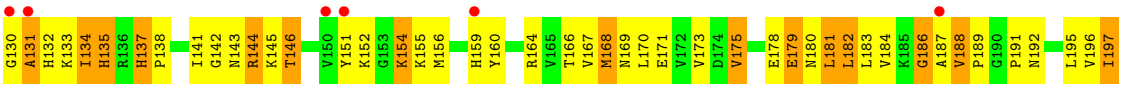
• Molecule 28: 50S ribosomal protein L3

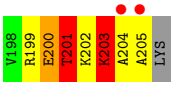
Chain DE:





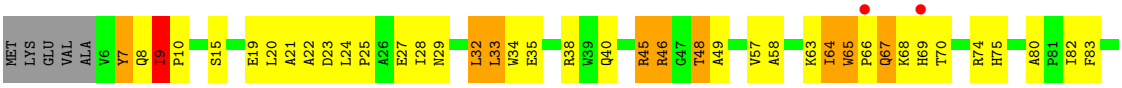


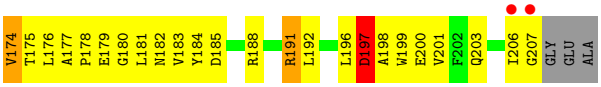




• Molecule 29: 50S ribosomal protein L4

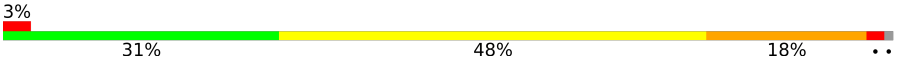
Chain BF:

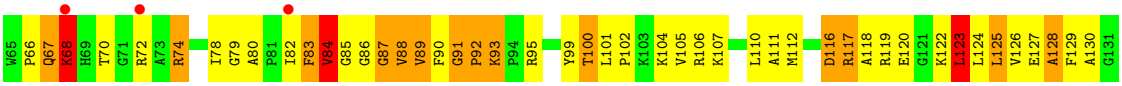


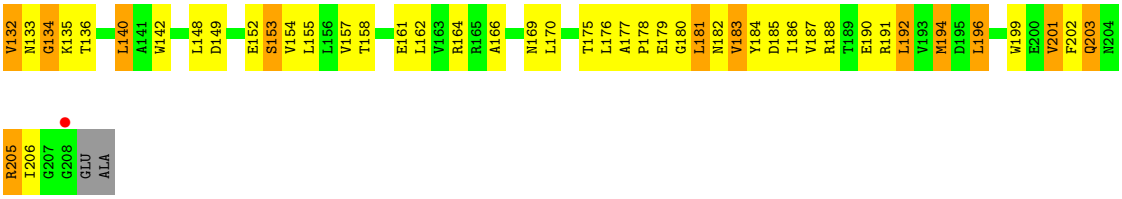


• Molecule 29: 50S ribosomal protein L4

Chain DF:

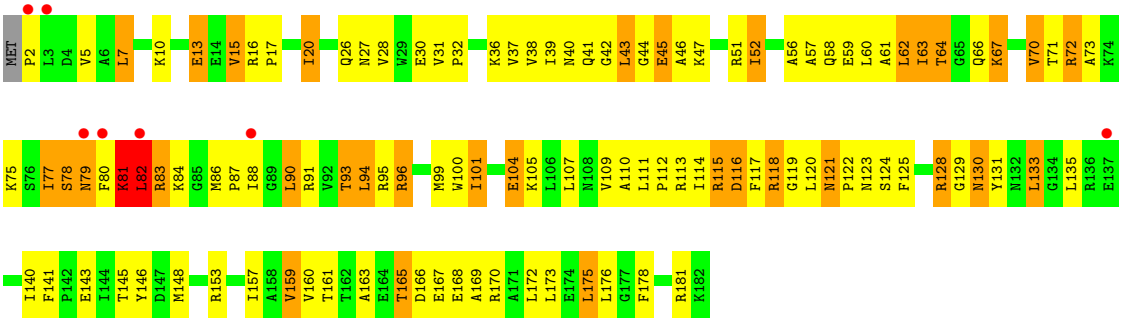






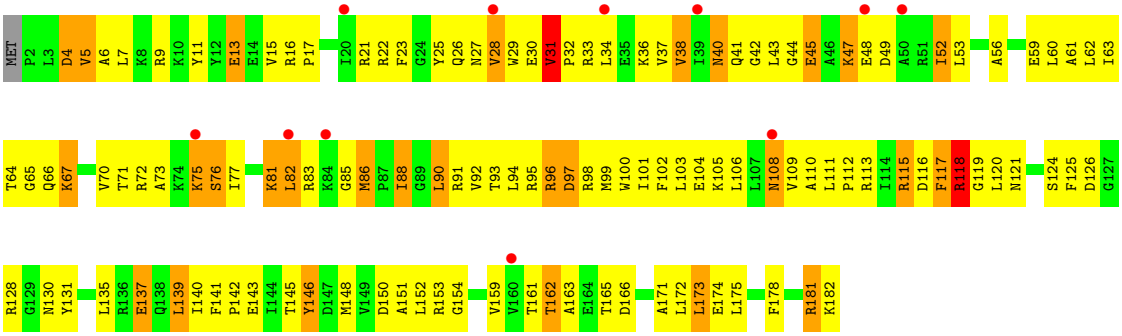
• Molecule 30: 50S ribosomal protein L5

Chain BG:



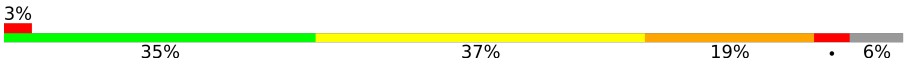
• Molecule 30: 50S ribosomal protein L5

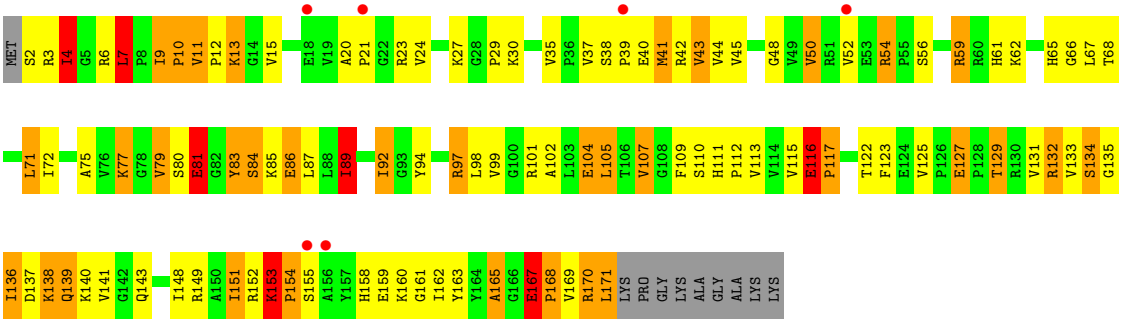
Chain DG:



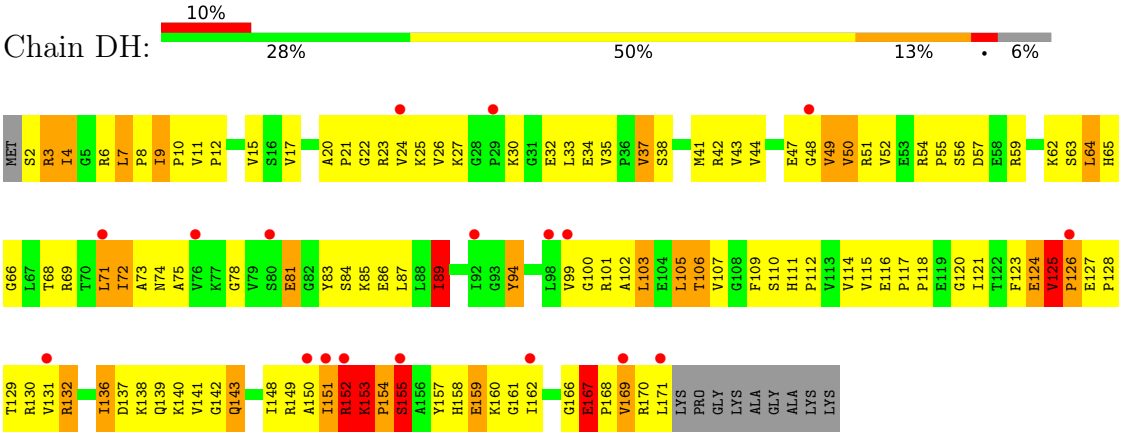
• Molecule 31: 50S ribosomal protein L6

Chain BH:

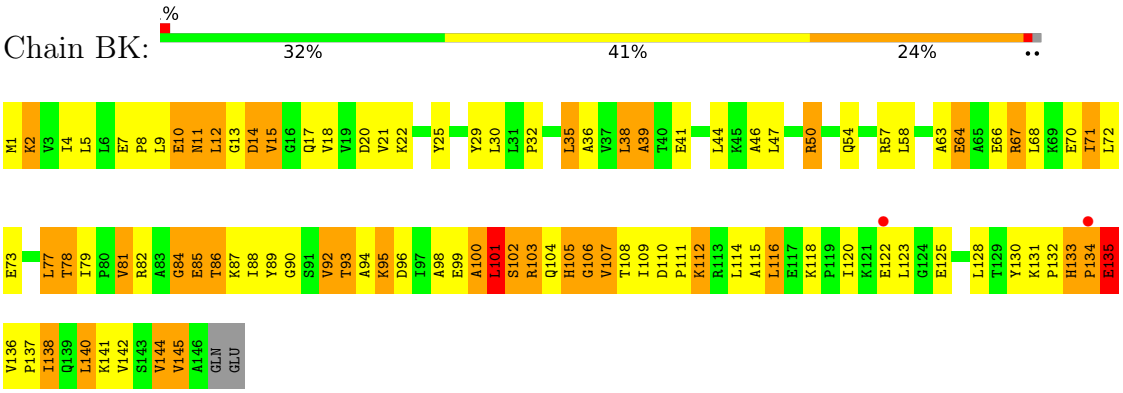




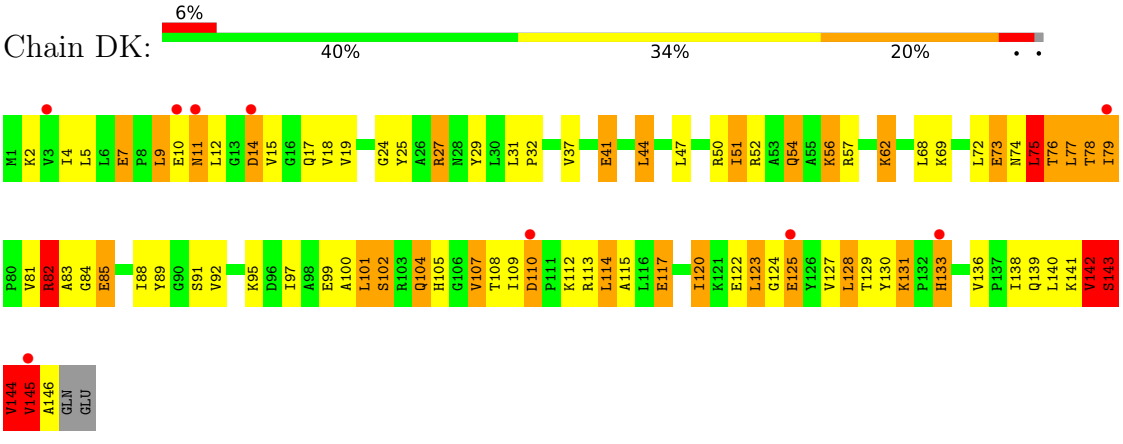
• Molecule 31: 50S ribosomal protein L6



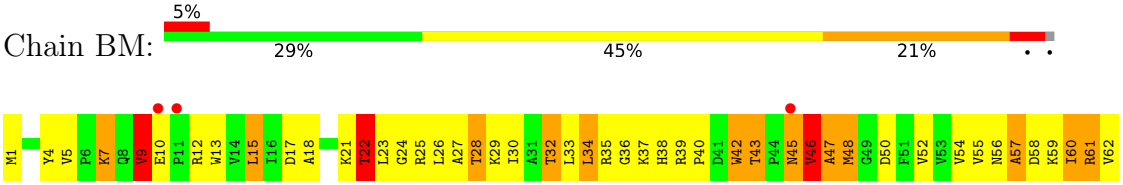
• Molecule 32: 50S ribosomal protein L9

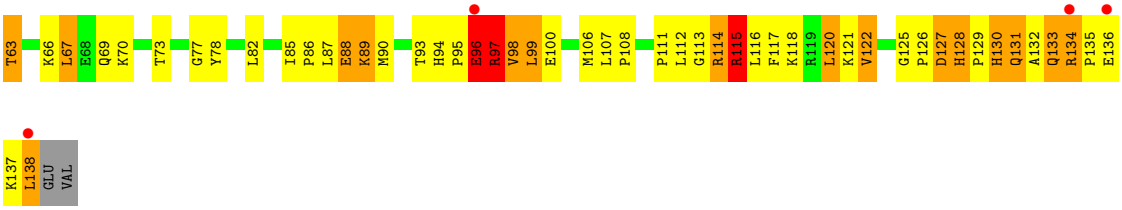


• Molecule 32: 50S ribosomal protein L9



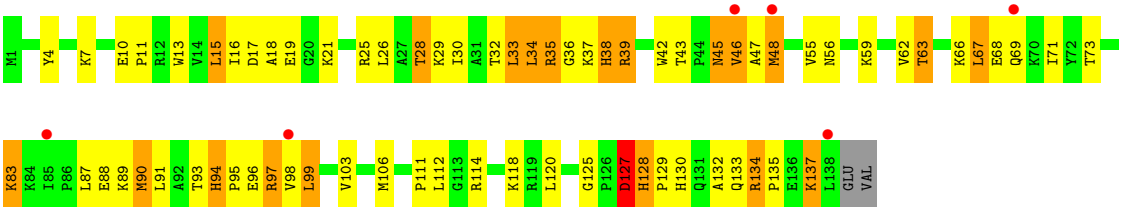
• Molecule 33: 50S ribosomal protein L13





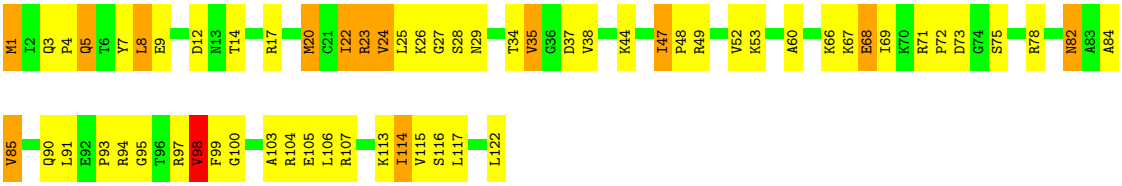
• Molecule 33: 50S ribosomal protein L13

Chain DM:



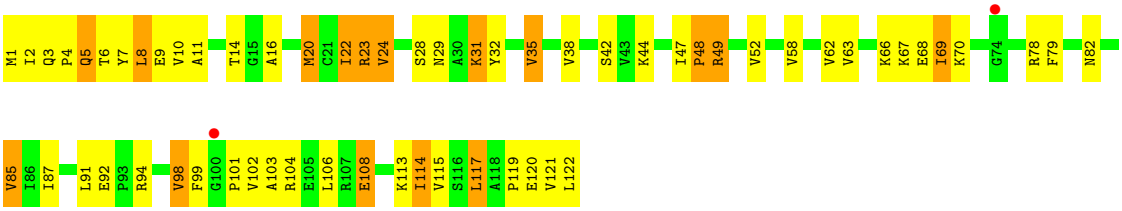
• Molecule 34: 50S ribosomal protein L14

Chain BN:



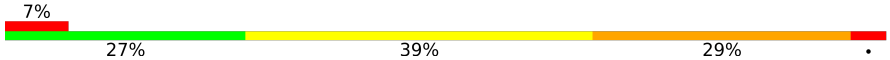
• Molecule 34: 50S ribosomal protein L14

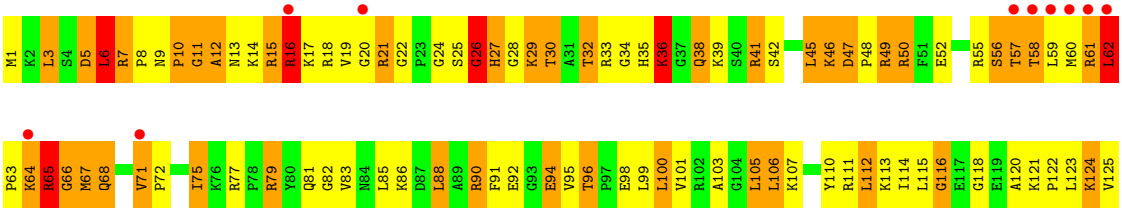
Chain DN:



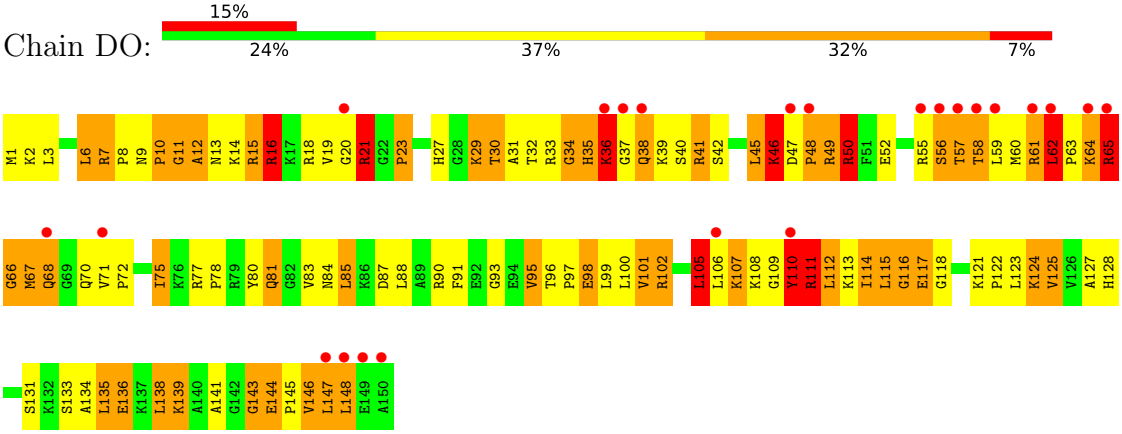
• Molecule 35: 50S ribosomal protein L15

Chain BO:

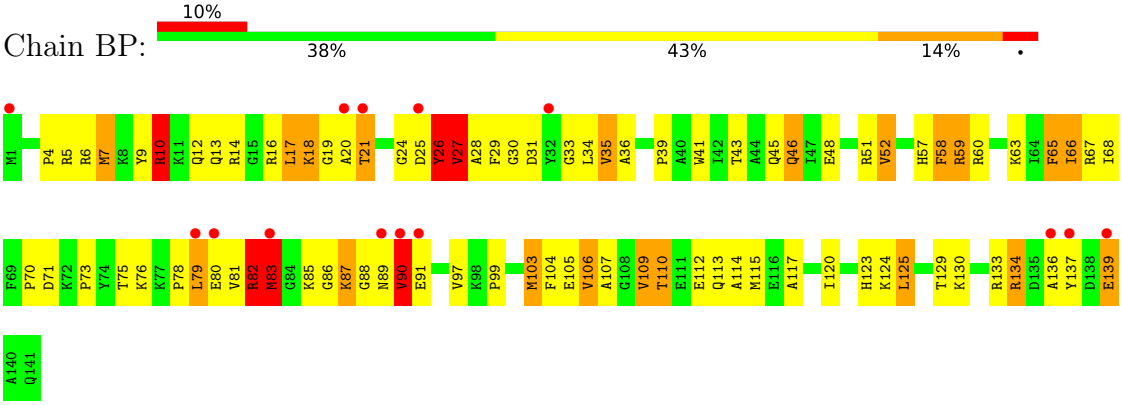




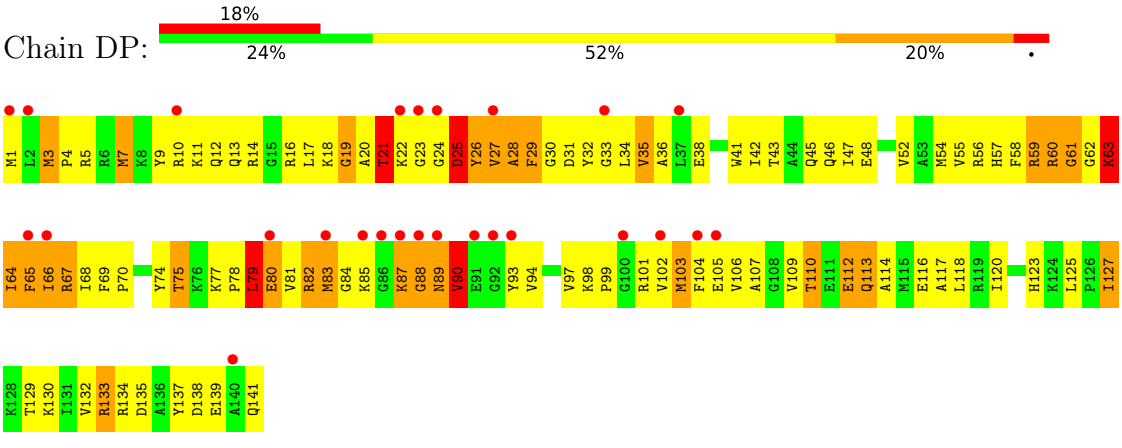
• Molecule 35: 50S ribosomal protein L15



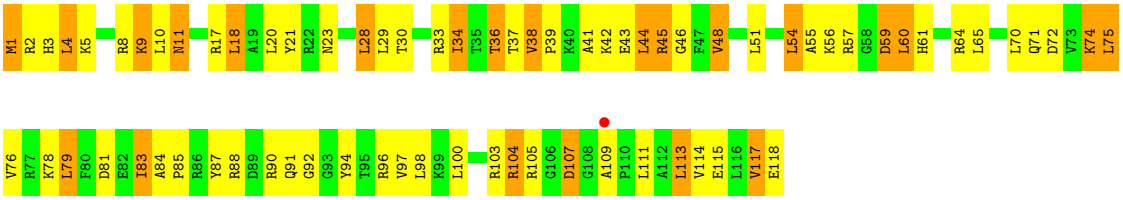
• Molecule 36: 50S ribosomal protein L16



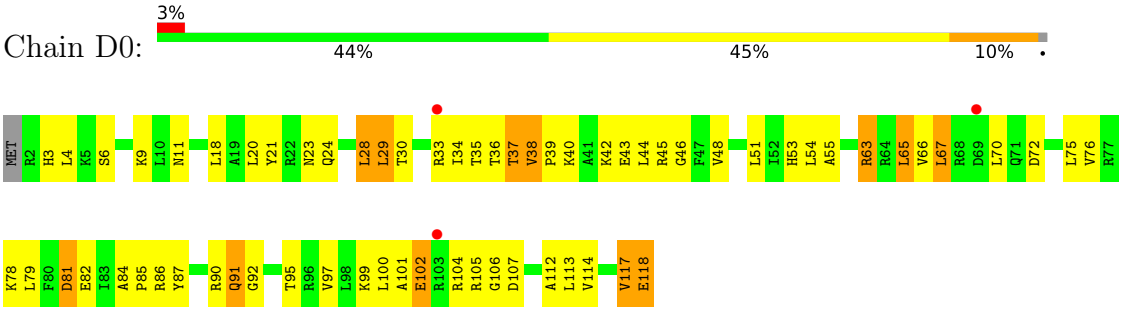
• Molecule 36: 50S ribosomal protein L16



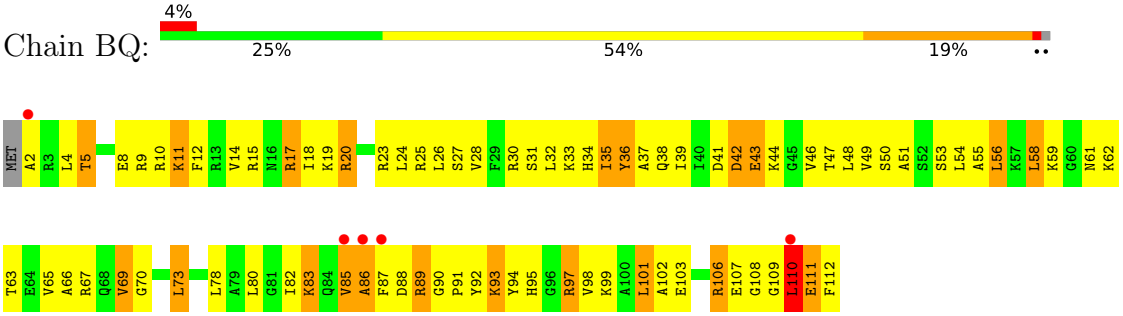
• Molecule 37: 50S ribosomal protein L17



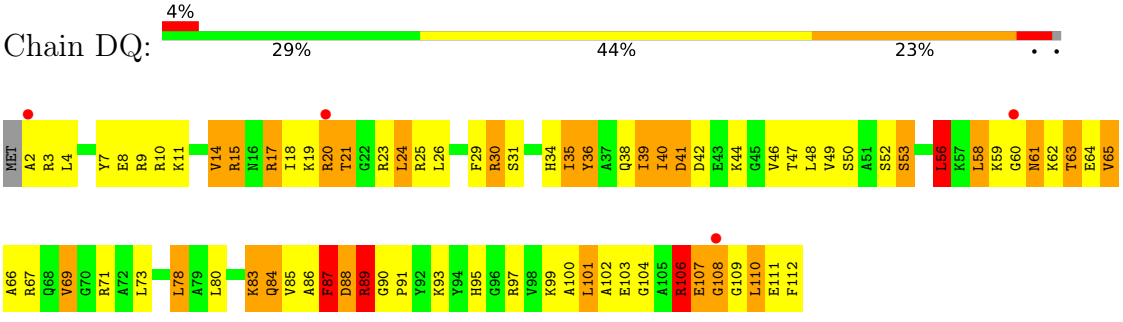
• Molecule 37: 50S ribosomal protein L17



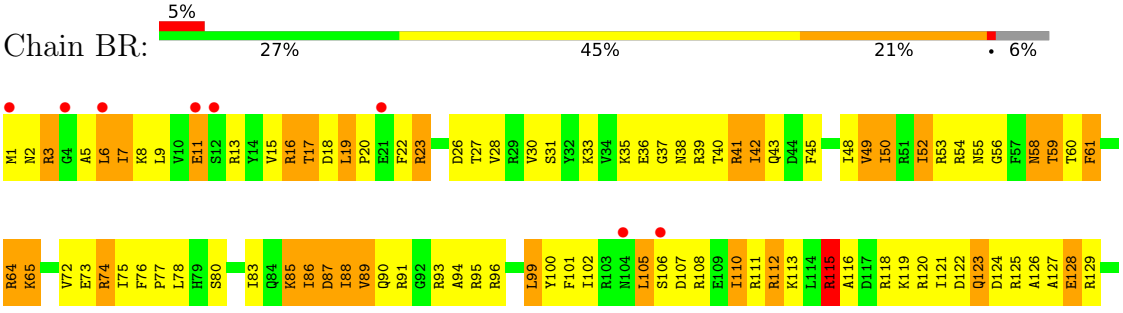
• Molecule 38: 50S ribosomal protein L18

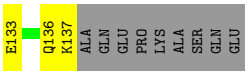


• Molecule 38: 50S ribosomal protein L18



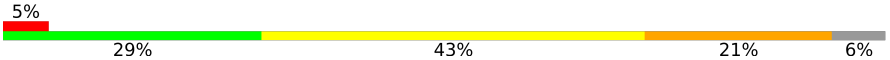
• Molecule 39: 50S ribosomal protein L19

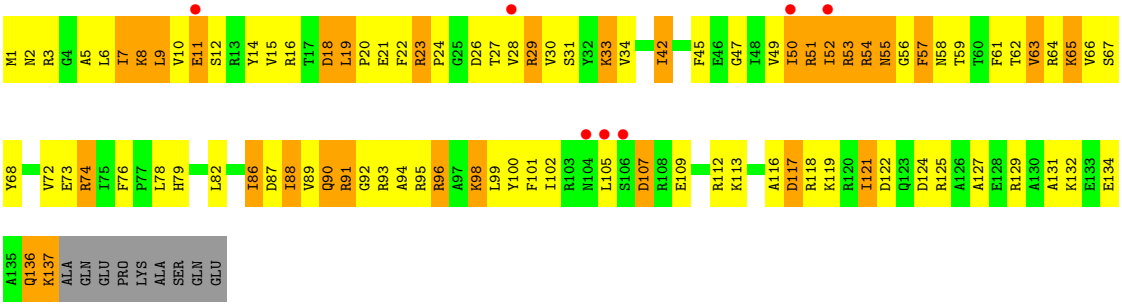




• Molecule 39: 50S ribosomal protein L19

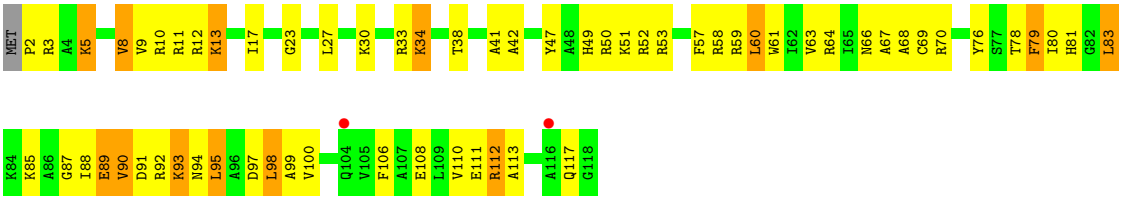
Chain DR:





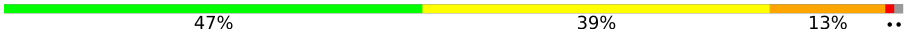
• Molecule 40: 50S ribosomal protein L20

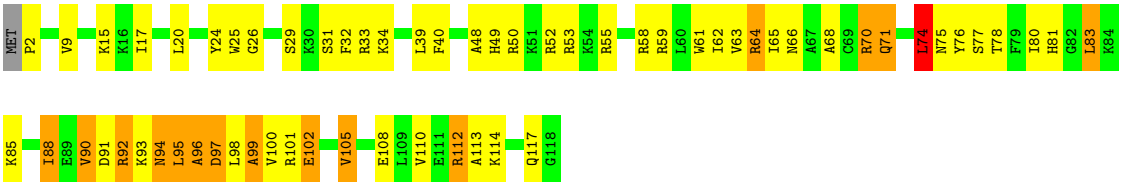
Chain B1:



• Molecule 40: 50S ribosomal protein L20

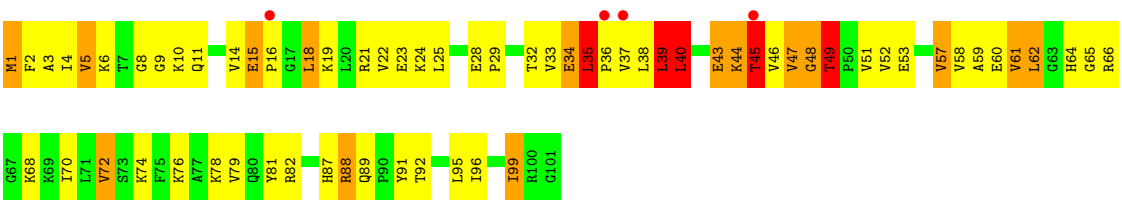
Chain D1:





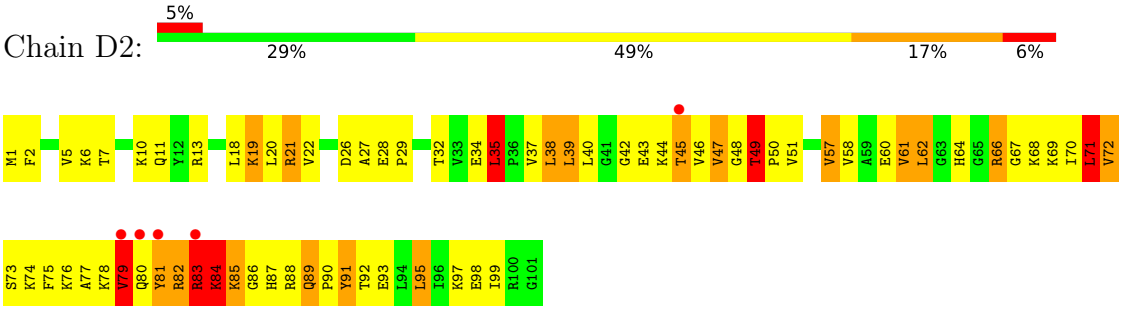
• Molecule 41: 50S ribosomal protein L21

Chain B2:



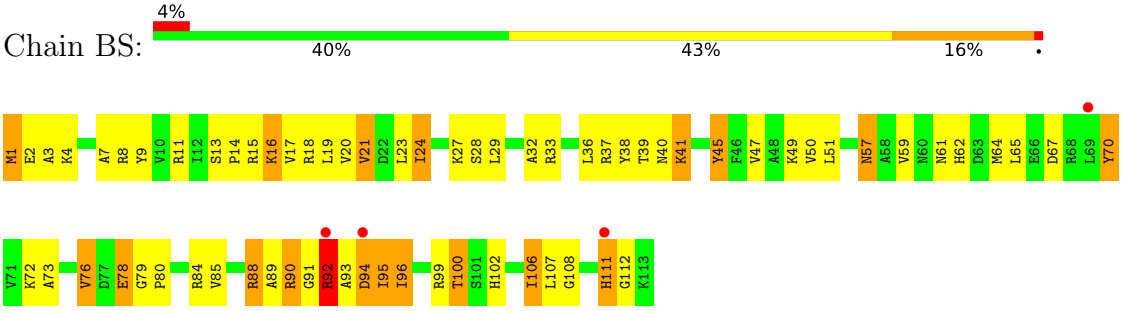
• Molecule 41: 50S ribosomal protein L21

Chain D2:



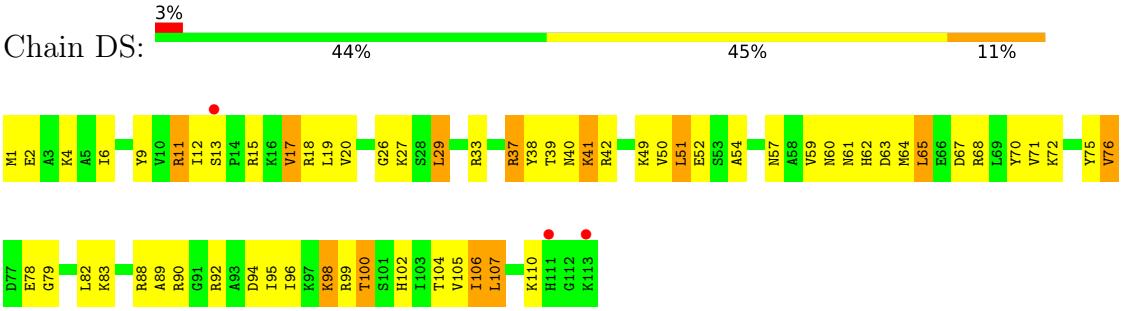
• Molecule 42: 50S ribosomal protein L22

Chain BS:



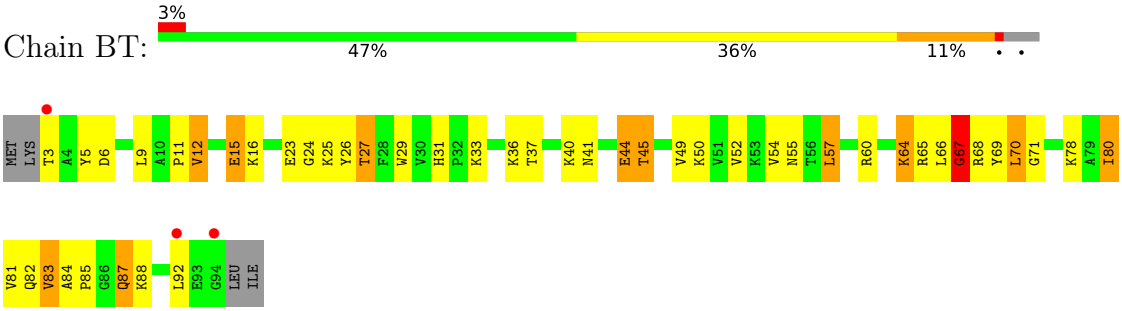
• Molecule 42: 50S ribosomal protein L22

Chain DS:



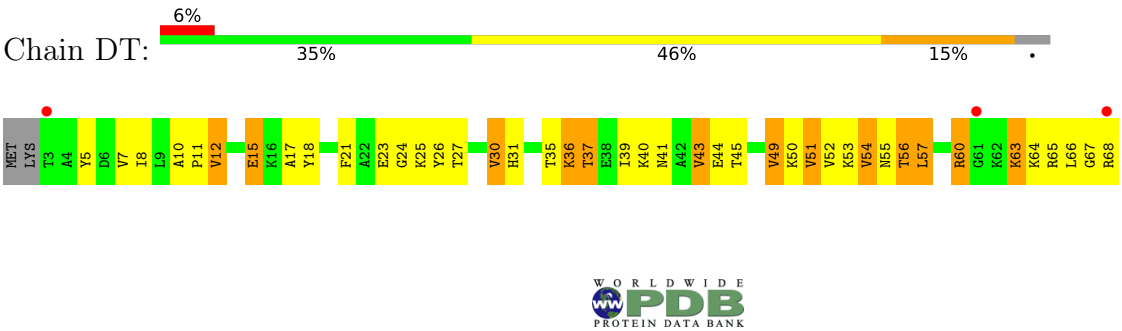
• Molecule 43: 50S ribosomal protein L23

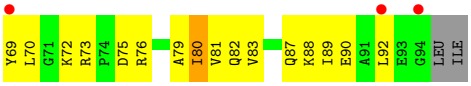
Chain BT:



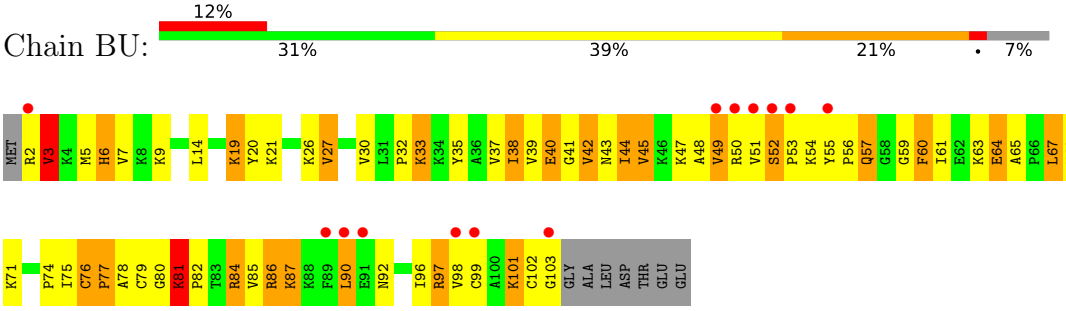
• Molecule 43: 50S ribosomal protein L23

Chain DT:

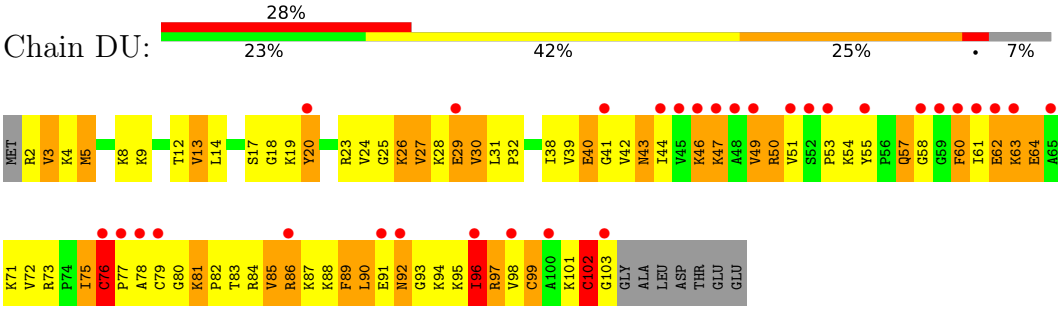




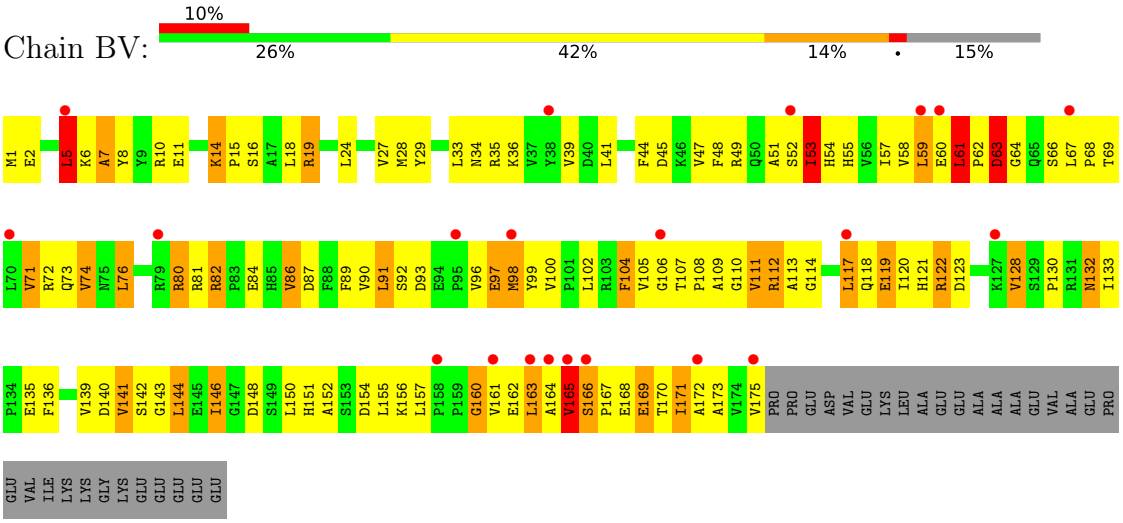
• Molecule 44: 50S ribosomal protein L24



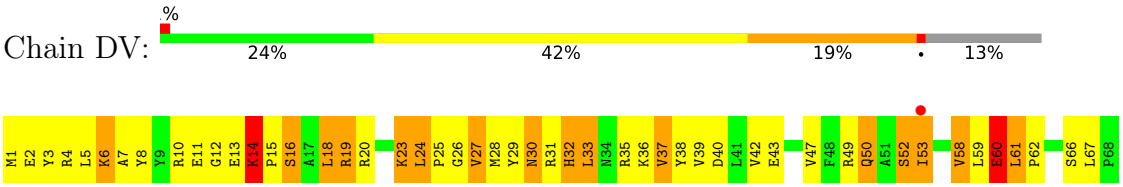
• Molecule 44: 50S ribosomal protein L24

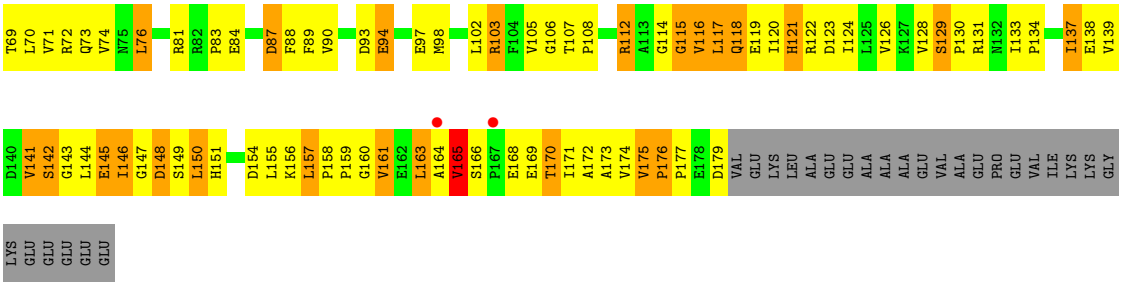


• Molecule 45: 50S ribosomal protein L25



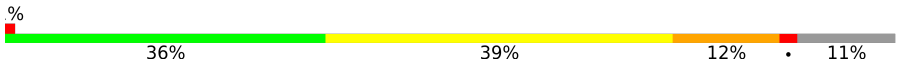
• Molecule 45: 50S ribosomal protein L25

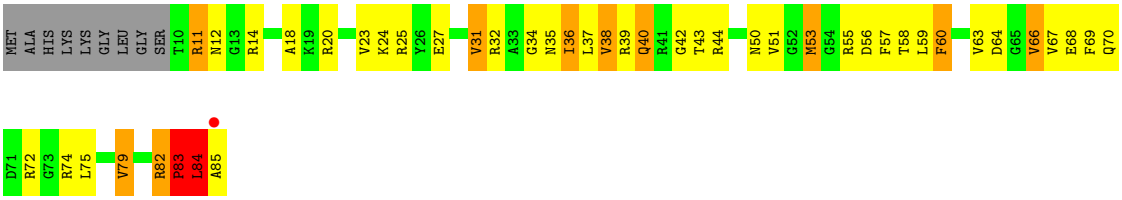




• Molecule 46: 50S ribosomal protein L27

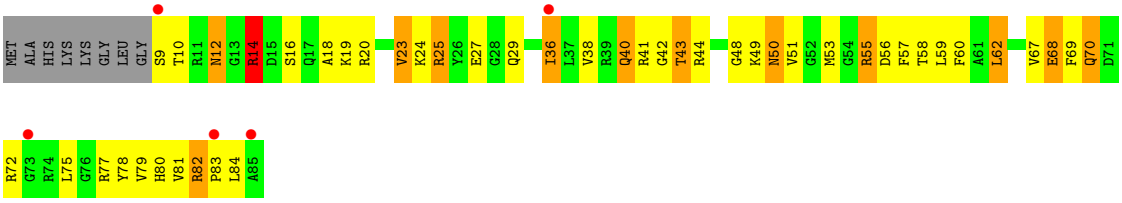
Chain B3:





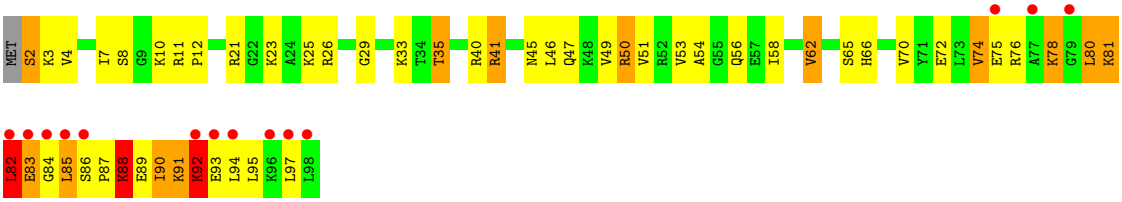
• Molecule 46: 50S ribosomal protein L27

Chain D3:



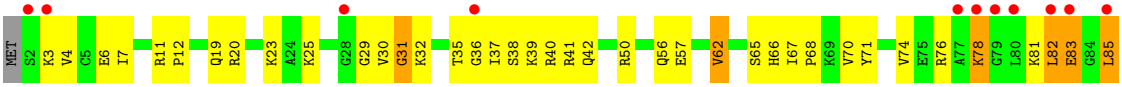
• Molecule 47: 50S ribosomal protein L28

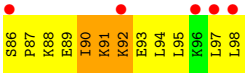
Chain BZ:



• Molecule 47: 50S ribosomal protein L28

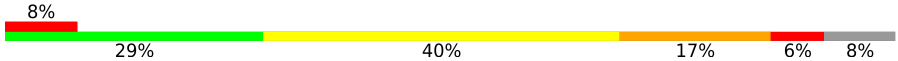
Chain DZ:

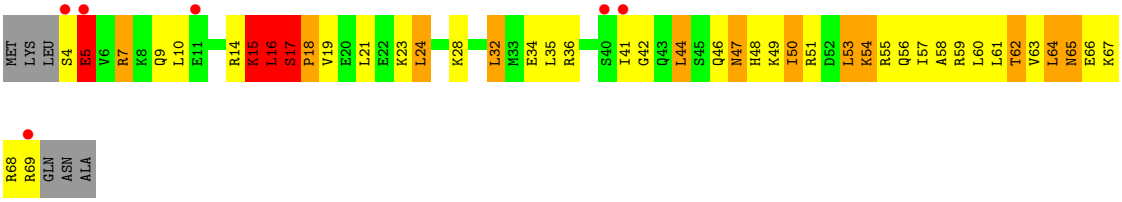




• Molecule 48: 50S ribosomal protein L29

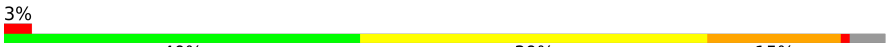
Chain BW:

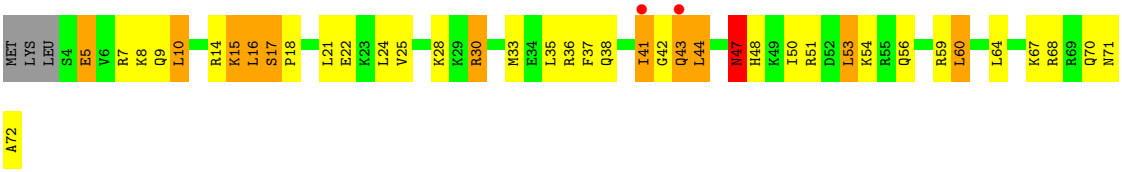




• Molecule 48: 50S ribosomal protein L29

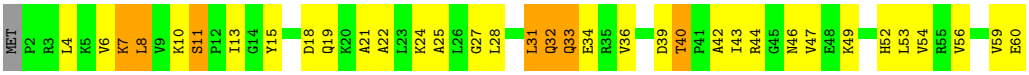
Chain DW:





• Molecule 49: 50S ribosomal protein L30

Chain BX:

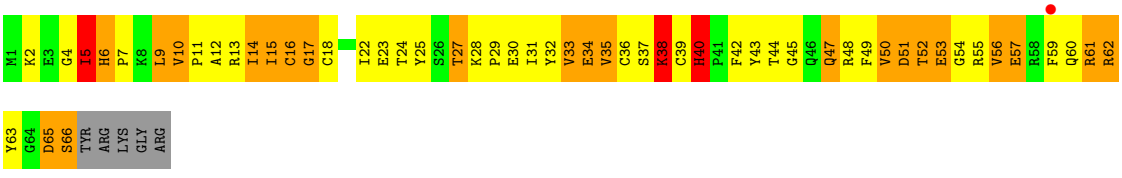


• Molecule 49: 50S ribosomal protein L30

Chain DX:

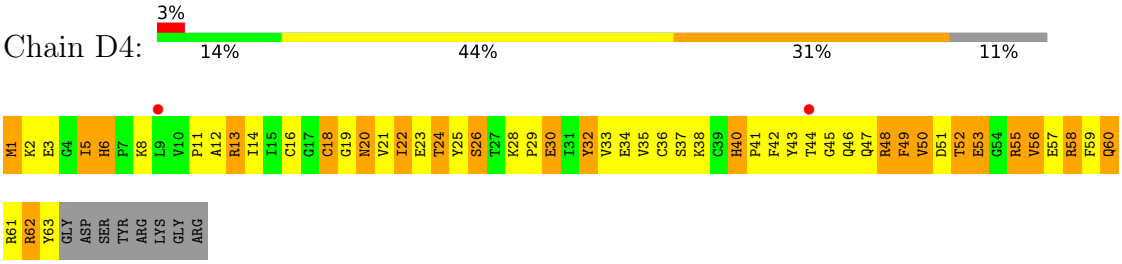
• Molecule 50: 50S ribosomal protein L31

Chain B4:



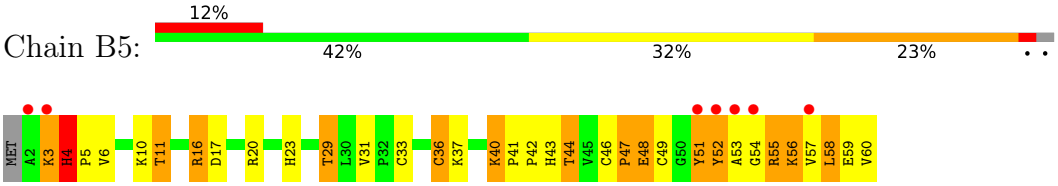
• Molecule 50: 50S ribosomal protein L31

Chain D4:



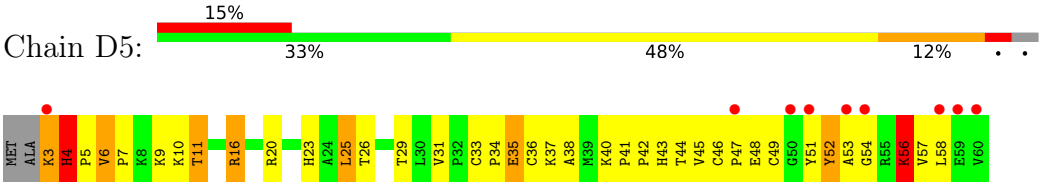
• Molecule 51: 50S ribosomal protein L32

Chain B5:



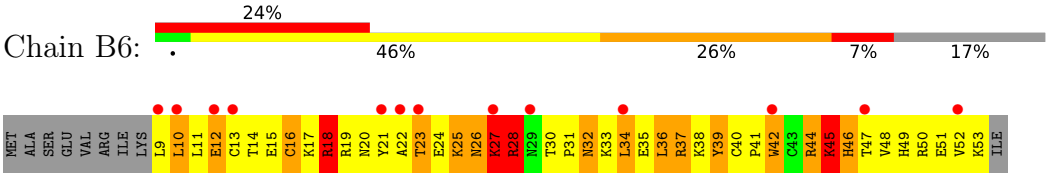
• Molecule 51: 50S ribosomal protein L32

Chain D5:



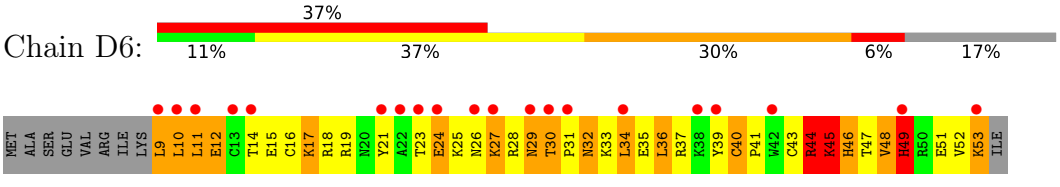
• Molecule 52: 50S ribosomal protein L33

Chain B6:



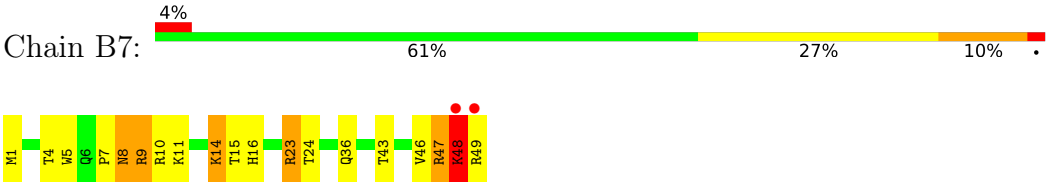
• Molecule 52: 50S ribosomal protein L33

Chain D6:



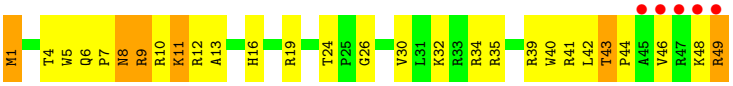
• Molecule 53: 50S ribosomal protein L34

Chain B7:

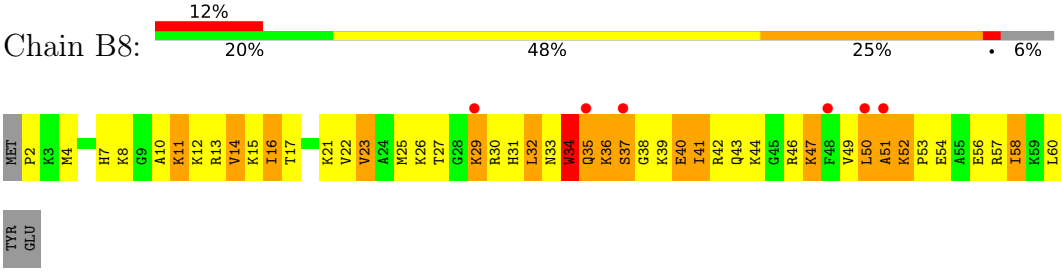


• Molecule 53: 50S ribosomal protein L34

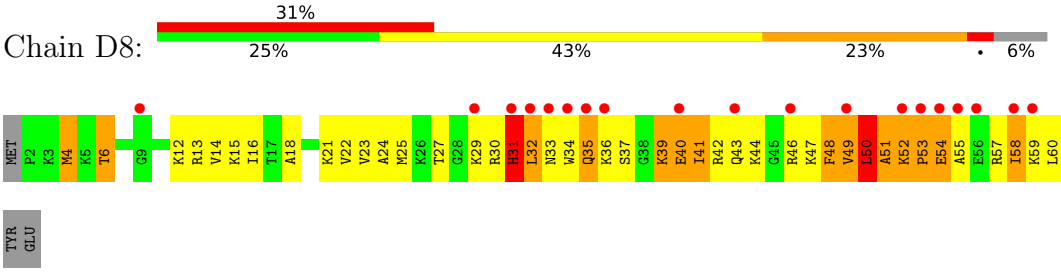
Chain D7:



• Molecule 54: 50S ribosomal protein L35



• Molecule 54: 50S ribosomal protein L35



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.00Å 450.05Å 621.46Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	153.53 – 3.00 153.53 – 3.00	Depositor EDS
% Data completeness (in resolution range)	94.1 (153.53-3.00) 93.7 (153.53-3.00)	Depositor EDS
R_{merge}	0.25	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.44 (at 3.01Å)	Xtriage
Refinement program	PHENIX 1.7.1_743	Depositor
R, R_{free}	0.211 , 0.272 0.209 , 0.247	Depositor DCC
R_{free} test set	2000 reflections (0.17%)	wwPDB-VP
Wilson B-factor (Å^2)	77.4	Xtriage
Anisotropy	0.190	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.26 , 50.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	299552	wwPDB-VP
Average B, all atoms (Å^2)	100.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.45% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality (i)

5.1 Standard geometry (i)

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

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	0.26	0/36234	0.41	0/56554
1	CA	0.24	0/36237	0.40	0/56558
2	AE	0.38	0/1959	0.90	6/2642 (0.2%)
2	CE	0.38	0/1959	0.95	10/2642 (0.4%)
3	AF	0.42	0/1629	0.81	0/2195
3	CF	0.43	0/1636	0.89	4/2205 (0.2%)
4	AG	0.50	1/1733 (0.1%)	1.00	10/2318 (0.4%)
4	CG	0.44	0/1733	0.99	11/2318 (0.5%)
5	AH	0.45	0/1171	0.92	2/1576 (0.1%)
5	CH	0.44	0/1171	0.93	2/1576 (0.1%)
6	AI	0.42	0/856	0.86	2/1154 (0.2%)
6	CI	0.39	0/856	0.82	0/1154
7	AJ	0.39	0/1276	0.87	3/1709 (0.2%)
7	CJ	0.36	0/1276	0.83	1/1709 (0.1%)
8	AK	0.43	0/1136	0.95	2/1527 (0.1%)
8	CK	0.36	0/1136	0.85	2/1527 (0.1%)
9	AL	0.39	0/1029	0.85	0/1379
9	CL	0.38	0/1029	0.90	2/1379 (0.1%)
10	AM	0.43	0/814	0.97	3/1095 (0.3%)
10	CM	0.42	0/814	0.95	4/1095 (0.4%)
11	AN	0.45	0/900	0.93	0/1213
11	CN	0.41	0/900	0.95	3/1213 (0.2%)
12	AO	0.51	0/991	1.08	7/1327 (0.5%)
12	CO	0.46	0/991	0.96	1/1327 (0.1%)
13	AP	0.39	0/938	0.89	4/1258 (0.3%)
13	CP	0.39	0/943	0.88	3/1265 (0.2%)
14	AQ	0.49	0/501	0.96	3/664 (0.5%)
14	CQ	0.35	0/501	0.98	3/664 (0.5%)
15	AR	0.43	0/745	0.88	0/992
15	CR	0.38	0/745	0.79	1/992 (0.1%)
16	AS	0.39	0/721	0.85	1/970 (0.1%)
16	CS	0.42	0/721	0.89	0/970

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AT	0.42	0/847	0.88	2/1131 (0.2%)
17	CT	0.39	0/847	0.84	1/1131 (0.1%)
18	AU	0.43	0/596	1.00	3/790 (0.4%)
18	CU	0.42	0/596	0.86	0/790
19	AV	0.44	0/638	0.94	1/860 (0.1%)
19	CV	0.44	0/638	1.14	6/860 (0.7%)
20	AW	0.37	0/765	0.86	2/1007 (0.2%)
20	CW	0.42	0/765	1.03	5/1007 (0.5%)
21	AX	0.35	0/221	0.86	1/288 (0.3%)
21	CX	0.36	0/221	0.80	0/288
22	AB	0.60	0/2080	0.52	0/3242
22	CB	0.70	0/2080	0.53	0/3242
23	AC	0.62	0/1835	0.61	0/2859
23	AD	0.35	0/1835	0.39	0/2859
23	CC	0.60	0/1835	0.58	0/2859
23	CD	0.38	0/1835	0.41	0/2859
24	A1	0.84	0/226	0.62	0/348
24	C1	0.87	0/226	0.66	0/348
25	BA	0.33	0/70233	0.45	1/109643 (0.0%)
25	DA	0.29	0/70122	0.43	2/109469 (0.0%)
26	BB	0.28	0/2928	0.42	0/4568
26	DB	0.25	0/2928	0.41	0/4568
27	BD	0.64	1/2165 (0.0%)	1.18	9/2919 (0.3%)
27	DD	0.59	0/2165	1.08	7/2919 (0.2%)
28	BE	0.50	0/1601	1.15	20/2160 (0.9%)
28	DE	0.50	0/1601	1.17	19/2160 (0.9%)
29	BF	0.55	0/1620	1.09	13/2194 (0.6%)
29	DF	0.45	0/1662	1.02	9/2249 (0.4%)
30	BG	0.47	0/1499	0.97	3/2016 (0.1%)
30	DG	0.37	0/1499	0.95	6/2016 (0.3%)
31	BH	0.52	0/1332	1.21	19/1802 (1.1%)
31	DH	0.44	0/1332	1.10	10/1802 (0.6%)
32	BK	0.48	0/1151	1.02	4/1558 (0.3%)
32	DK	0.47	0/1151	1.01	9/1558 (0.6%)
33	BM	0.54	0/1131	1.05	3/1525 (0.2%)
33	DM	0.40	0/1131	0.96	6/1525 (0.4%)
34	BN	0.53	0/943	1.00	4/1269 (0.3%)
34	DN	0.48	0/943	0.89	1/1269 (0.1%)
35	BO	0.52	0/1162	1.22	10/1544 (0.6%)
35	DO	0.45	1/1162 (0.1%)	0.99	8/1544 (0.5%)
36	BP	0.69	1/1143 (0.1%)	1.24	11/1527 (0.7%)
36	DP	0.42	0/1143	0.88	2/1527 (0.1%)
37	B0	0.53	0/982	1.05	5/1312 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
37	D0	0.48	0/974	0.99	2/1302 (0.2%)
38	BQ	0.51	0/892	0.95	1/1187 (0.1%)
38	DQ	0.40	0/892	0.93	2/1187 (0.2%)
39	BR	0.53	0/1155	1.04	4/1542 (0.3%)
39	DR	0.46	0/1155	0.94	4/1542 (0.3%)
40	B1	0.50	0/982	0.96	2/1306 (0.2%)
40	D1	0.44	0/982	0.92	5/1306 (0.4%)
41	B2	0.55	0/790	1.17	11/1057 (1.0%)
41	D2	0.45	0/790	0.95	5/1057 (0.5%)
42	BS	0.49	0/911	0.93	1/1220 (0.1%)
42	DS	0.53	0/911	0.95	0/1220
43	BT	0.57	0/739	1.00	2/993 (0.2%)
43	DT	0.54	0/739	0.93	1/993 (0.1%)
44	BU	0.60	0/798	1.06	4/1064 (0.4%)
44	DU	0.58	0/798	1.07	5/1064 (0.5%)
45	BV	0.42	0/1427	0.98	6/1935 (0.3%)
45	DV	0.40	0/1460	1.01	9/1982 (0.5%)
46	B3	0.52	0/615	1.00	2/819 (0.2%)
46	D3	0.47	0/621	1.03	3/827 (0.4%)
47	BZ	0.51	0/770	1.00	3/1022 (0.3%)
47	DZ	0.49	0/770	1.01	4/1022 (0.4%)
48	BW	0.57	0/560	1.09	2/741 (0.3%)
48	DW	0.44	0/583	1.03	3/771 (0.4%)
49	BX	0.47	0/474	1.10	3/635 (0.5%)
49	DX	0.42	0/474	0.92	2/635 (0.3%)
50	B4	0.43	0/545	1.08	5/733 (0.7%)
50	D4	0.47	0/527	1.12	4/709 (0.6%)
51	B5	0.57	0/473	1.11	1/639 (0.2%)
51	D5	0.43	0/468	0.97	1/632 (0.2%)
52	B6	0.50	0/396	1.13	3/529 (0.6%)
52	D6	0.47	0/396	1.00	2/529 (0.4%)
53	B7	0.59	0/438	1.00	1/575 (0.2%)
53	D7	0.52	0/438	0.96	2/575 (0.3%)
54	B8	0.64	0/494	1.05	1/649 (0.2%)
54	D8	0.50	0/494	1.02	2/649 (0.3%)
All	All	0.36	4/324027 (0.0%)	0.63	400/485226 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	AE	0	3
2	CE	0	5
3	CF	0	1
4	AG	0	1
8	AK	0	1
10	AM	0	1
12	AO	0	2
14	AQ	0	1
14	CQ	0	2
15	AR	0	1
19	CV	0	1
20	CW	0	1
27	BD	0	6
27	DD	0	3
28	BE	0	1
28	DE	0	6
29	DF	0	2
30	BG	0	1
30	DG	0	1
31	BH	0	2
31	DH	0	2
32	BK	0	3
32	DK	0	4
33	BM	0	1
35	BO	0	4
35	DO	0	3
36	BP	0	3
37	D0	0	2
38	BQ	0	1
38	DQ	0	2
39	BR	0	2
40	B1	0	1
40	D1	0	1
41	B2	0	1
43	BT	0	1
44	DU	0	2
45	BV	0	3
45	DV	0	2
46	B3	0	2
48	BW	0	2
48	DW	0	1
50	B4	0	4
50	D4	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
51	B5	0	1
51	D5	0	1
52	B6	0	1
52	D6	0	1
53	B7	0	1
54	B8	0	2
54	D8	0	1
All	All	0	99

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	DO	70	GLN	C-N	6.24	1.40	1.33
4	AG	12	CYS	CB-SG	5.90	2.00	1.81
27	BD	43	ARG	N-CA	5.15	1.52	1.46
36	BP	82	ARG	CA-C	5.05	1.58	1.53

All (400) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	BX	11	SER	CA-C-N	11.86	132.20	119.87
49	BX	11	SER	C-N-CA	11.86	132.20	119.87
28	BE	188	VAL	N-CA-C	11.62	118.62	108.63
45	DV	157	LEU	CA-C-N	11.49	132.22	120.38
45	DV	157	LEU	C-N-CA	11.49	132.22	120.38
28	DE	67	PHE	N-CA-C	-10.92	99.62	113.16
31	DH	125	VAL	CA-C-N	10.81	133.35	119.84
31	DH	125	VAL	C-N-CA	10.81	133.35	119.84
35	BO	47	ASP	CA-C-N	10.80	130.58	119.56
35	BO	47	ASP	C-N-CA	10.80	130.58	119.56
28	DE	72	VAL	N-CA-C	-10.49	97.98	111.09
4	AG	31	CYS	N-CA-C	-10.45	100.06	112.92
31	DH	167	GLU	CA-C-N	10.27	132.68	119.84
31	DH	167	GLU	C-N-CA	10.27	132.68	119.84
35	BO	25	SER	N-CA-C	-10.17	100.55	113.16
36	DP	125	LEU	CA-C-N	10.10	129.72	119.82
36	DP	125	LEU	C-N-CA	10.10	129.72	119.82
20	CW	12	ALA	N-CA-C	-10.00	100.57	113.17
28	DE	63	LEU	N-CA-C	-9.96	101.29	113.15
31	BH	11	VAL	N-CA-C	9.37	119.60	109.01
54	D8	31	HIS	N-CA-C	-9.34	101.83	113.23
36	BP	82	ARG	N-CA-C	9.34	123.07	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	B2	49	THR	CA-C-N	-9.26	109.34	118.97
41	B2	49	THR	C-N-CA	-9.26	109.34	118.97
28	DE	4	ILE	CB-CA-C	-8.98	103.30	111.74
4	AG	12	CYS	N-CA-C	-8.84	100.24	111.02
11	CN	120	ARG	CA-C-N	8.72	128.58	120.21
11	CN	120	ARG	C-N-CA	8.72	128.58	120.21
28	BE	119	ARG	N-CA-C	-8.69	97.57	111.04
4	CG	12	CYS	N-CA-C	-8.64	100.70	111.75
45	BV	63	ASP	N-CA-C	-8.59	101.62	113.56
52	B6	28	ARG	N-CA-C	8.57	122.92	109.81
8	CK	100	ILE	CA-C-N	8.54	129.06	119.92
8	CK	100	ILE	C-N-CA	8.54	129.06	119.92
29	BF	9	ILE	CA-C-N	8.53	130.50	119.84
29	BF	9	ILE	C-N-CA	8.53	130.50	119.84
31	BH	11	VAL	CA-C-N	8.44	130.39	119.84
31	BH	11	VAL	C-N-CA	8.44	130.39	119.84
35	BO	36	LYS	CB-CA-C	-8.43	104.53	116.34
48	DW	47	ASN	N-CA-C	8.40	121.50	111.33
27	BD	13	ARG	N-CA-C	-8.32	103.11	113.18
44	DU	30	VAL	N-CA-C	8.30	119.11	110.72
31	DH	89	ILE	N-CA-C	8.19	118.22	110.53
12	AO	88	GLY	N-CA-C	-8.11	98.99	111.00
28	BE	85	ASN	CA-C-N	8.09	129.96	119.84
28	BE	85	ASN	C-N-CA	8.09	129.96	119.84
31	BH	153	LYS	CA-C-N	8.07	129.93	119.84
31	BH	153	LYS	C-N-CA	8.07	129.93	119.84
48	BW	5	GLU	N-CA-C	-8.04	102.92	112.89
46	D3	82	ARG	CA-C-N	8.01	127.67	119.82
46	D3	82	ARG	C-N-CA	8.01	127.67	119.82
36	BP	26	TYR	N-CA-C	7.95	123.96	113.30
32	BK	135	GLU	N-CA-C	7.90	118.69	108.34
53	B7	47	ARG	N-CA-C	7.81	119.01	108.23
4	AG	28	SER	CA-C-N	-7.78	113.79	121.65
4	AG	28	SER	C-N-CA	-7.78	113.79	121.65
48	DW	5	GLU	N-CA-C	-7.77	103.25	112.89
47	DZ	29	GLY	N-CA-C	7.67	120.99	110.56
27	BD	238	GLY	N-CA-C	-7.67	104.14	115.72
28	BE	186	GLY	N-CA-C	7.57	125.04	115.42
28	BE	132	HIS	N-CA-C	7.54	126.85	110.80
40	D1	74	LEU	N-CA-C	7.52	118.53	108.38
35	BO	116	GLY	N-CA-C	7.50	124.99	111.34
29	BF	199	TRP	N-CA-C	-7.49	102.79	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BP	125	LEU	CA-C-N	7.42	127.06	119.56
36	BP	125	LEU	C-N-CA	7.42	127.06	119.56
28	BE	188	VAL	CA-C-N	7.36	127.79	119.92
28	BE	188	VAL	C-N-CA	7.36	127.79	119.92
10	AM	86	MET	N-CA-C	-7.35	95.14	110.80
37	B0	9	LYS	N-CA-C	-7.35	98.07	109.76
20	CW	9	ASN	N-CA-C	7.35	119.37	111.36
27	DD	13	ARG	N-CA-C	-7.33	104.14	113.23
39	BR	80	SER	CA-C-N	7.32	126.95	119.56
39	BR	80	SER	C-N-CA	7.32	126.95	119.56
28	DE	73	GLU	CA-C-N	7.30	127.47	120.31
28	DE	73	GLU	C-N-CA	7.30	127.47	120.31
36	BP	106	VAL	CB-CA-C	-7.26	103.31	111.45
28	DE	125	GLY	CA-C-N	7.25	127.02	119.76
28	DE	125	GLY	C-N-CA	7.25	127.02	119.76
5	AH	67	VAL	N-CA-C	7.15	117.75	107.88
25	DA	933	A	C4-N9-C1'	7.15	147.74	126.30
19	CV	29	ARG	N-CA-C	7.14	120.23	109.95
41	B2	35	LEU	CA-C-N	7.10	126.78	119.82
41	B2	35	LEU	C-N-CA	7.10	126.78	119.82
30	DG	121	ASN	CA-C-N	7.09	126.72	119.56
30	DG	121	ASN	C-N-CA	7.09	126.72	119.56
42	BS	24	ILE	N-CA-C	7.06	119.82	112.83
50	B4	45	GLY	N-CA-C	-7.05	96.47	113.18
13	AP	108	ARG	N-CA-C	7.03	119.55	111.11
28	DE	137	HIS	CA-C-N	7.03	127.18	119.87
28	DE	137	HIS	C-N-CA	7.03	127.18	119.87
27	DD	272	ALA	N-CA-C	7.01	122.21	109.32
53	D7	6	GLN	CA-C-N	6.98	127.40	119.93
53	D7	6	GLN	C-N-CA	6.98	127.40	119.93
3	CF	146	ALA	N-CA-C	6.95	119.28	110.24
2	AE	6	THR	N-CA-C	6.95	118.80	110.19
30	DG	31	VAL	CA-C-N	6.95	127.36	119.93
30	DG	31	VAL	C-N-CA	6.95	127.36	119.93
20	CW	73	HIS	CB-CA-C	-6.94	107.53	115.79
28	BE	134	ILE	N-CA-C	6.93	118.76	112.17
18	AU	19	LYS	N-CA-C	6.90	118.21	108.00
28	BE	137	HIS	CA-C-N	6.89	126.52	119.56
28	BE	137	HIS	C-N-CA	6.89	126.52	119.56
35	DO	116	GLY	N-CA-C	6.88	123.64	111.73
45	DV	176	PRO	N-CA-C	6.85	119.06	110.70
37	D0	3	HIS	N-CA-C	6.83	120.28	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	BH	117	PRO	CA-C-N	6.82	126.99	120.31
31	BH	117	PRO	C-N-CA	6.82	126.99	120.31
30	DG	118	ARG	N-CA-C	-6.80	101.75	110.19
25	DA	933	A	C8-N9-C1'	-6.77	107.38	127.70
45	DV	115	GLY	N-CA-C	-6.75	106.69	115.59
19	CV	78	ARG	N-CA-C	6.73	118.41	111.14
13	AP	101	GLN	CB-CA-C	-6.71	107.03	115.89
4	CG	23	GLY	N-CA-C	6.70	122.66	114.69
36	BP	106	VAL	N-CA-C	6.69	117.77	110.21
31	BH	116	GLU	CA-C-N	6.68	127.26	120.38
31	BH	116	GLU	C-N-CA	6.68	127.26	120.38
28	BE	65	GLY	N-CA-C	-6.68	104.18	115.80
12	AO	115	LYS	CA-C-N	-6.67	112.75	123.23
12	AO	115	LYS	C-N-CA	-6.67	112.75	123.23
48	DW	42	GLY	N-CA-C	-6.66	100.72	112.77
27	BD	229	VAL	CB-CA-C	-6.64	103.33	112.04
31	BH	81	GLU	N-CA-C	6.64	119.32	111.02
27	BD	235	GLY	N-CA-C	6.64	121.46	112.17
15	CR	47	LYS	N-CA-C	-6.62	104.83	113.17
29	DF	130	ALA	N-CA-C	-6.62	105.08	113.02
44	DU	102	CYS	N-CA-C	6.56	117.71	108.00
39	BR	100	TYR	N-CA-C	-6.55	105.33	113.38
41	B2	14	VAL	N-CA-C	6.53	117.04	107.37
29	DF	134	GLY	N-CA-C	-6.53	105.74	114.95
27	DD	271	ILE	N-CA-C	6.52	118.46	107.18
50	B4	52	THR	N-CA-C	6.51	116.87	108.34
29	DF	85	GLY	N-CA-C	-6.50	106.47	114.92
50	D4	32	TYR	N-CA-C	6.50	118.54	109.31
4	AG	38	TYR	CA-C-N	6.48	124.39	119.66
4	AG	38	TYR	C-N-CA	6.48	124.39	119.66
29	DF	24	LEU	CA-C-N	-6.47	111.75	119.84
29	DF	24	LEU	C-N-CA	-6.47	111.75	119.84
34	DN	29	ASN	N-CA-C	6.46	120.87	112.92
2	CE	19	HIS	N-CA-C	6.46	116.76	108.24
32	DK	113	ARG	N-CA-C	-6.44	105.00	112.92
32	BK	122	GLU	CB-CA-C	-6.42	108.14	115.79
31	BH	4	ILE	N-CA-C	6.42	118.62	108.87
2	CE	23	ARG	N-CA-C	-6.39	105.11	113.17
35	DO	118	GLY	N-CA-C	-6.36	104.79	112.48
2	CE	8	LYS	N-CA-C	6.35	117.40	108.00
32	DK	120	ILE	N-CA-C	6.32	116.49	110.74
31	BH	139	GLN	N-CA-C	-6.29	103.95	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AM	58	ASP	N-CA-C	-6.28	102.40	110.19
3	CF	194	GLY	N-CA-C	6.28	118.44	112.04
13	CP	112	GLY	CA-C-N	6.28	126.25	119.78
13	CP	112	GLY	C-N-CA	6.28	126.25	119.78
14	AQ	24	CYS	N-CA-C	-6.28	101.02	110.24
33	BM	114	ARG	N-CA-C	-6.27	100.01	109.79
36	BP	24	GLY	N-CA-C	-6.26	101.19	111.78
27	DD	85	ASP	CA-C-N	6.25	125.88	119.56
27	DD	85	ASP	C-N-CA	6.25	125.88	119.56
27	BD	28	GLU	N-CA-C	-6.24	96.03	109.81
45	DV	7	ALA	N-CA-C	6.22	118.19	110.91
32	DK	102	SER	N-CA-C	-6.21	97.57	110.80
44	DU	92	ASN	N-CA-C	6.16	118.76	108.96
29	BF	75	HIS	N-CA-C	6.12	119.01	109.52
14	CQ	13	THR	CA-C-N	6.11	127.48	119.84
14	CQ	13	THR	C-N-CA	6.11	127.48	119.84
7	AJ	111	ARG	CA-C-N	6.11	125.73	119.56
7	AJ	111	ARG	C-N-CA	6.11	125.73	119.56
40	B1	9	VAL	N-CA-C	6.09	116.27	110.42
50	D4	55	ARG	N-CA-C	6.09	116.47	108.07
44	BU	60	PHE	N-CA-C	6.08	117.43	108.86
49	DX	11	SER	CA-C-N	6.08	125.70	119.56
49	DX	11	SER	C-N-CA	6.08	125.70	119.56
39	DR	2	ASN	N-CA-C	-6.06	104.59	111.07
31	DH	126	PRO	N-CA-C	6.04	124.91	112.47
40	B1	70	ARG	N-CA-C	-6.03	105.88	113.18
41	B2	43	GLU	N-CA-C	-6.03	105.79	113.02
50	B4	17	GLY	N-CA-C	-6.02	106.28	113.99
50	B4	6	HIS	N-CA-C	6.01	119.29	110.10
4	CG	135	LEU	CA-C-N	6.01	126.44	119.47
4	CG	135	LEU	C-N-CA	6.01	126.44	119.47
27	DD	49	ILE	N-CA-CB	5.99	117.47	110.82
40	D1	96	ALA	N-CA-C	-5.99	105.83	113.02
28	BE	70	ALA	N-CA-C	-5.99	106.02	113.38
28	BE	31	CYS	CA-C-N	5.98	127.32	119.84
28	BE	31	CYS	C-N-CA	5.98	127.32	119.84
46	D3	14	ARG	N-CA-C	5.98	119.20	110.17
29	BF	197	ASP	N-CA-C	-5.96	101.60	110.23
5	AH	154	GLY	N-CA-C	-5.93	103.95	111.72
13	CP	63	THR	CB-CA-C	-5.92	109.18	117.23
19	CV	41	VAL	N-CA-C	5.92	114.41	107.84
34	BN	5	GLN	N-CA-CB	-5.91	108.19	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	DK	142	VAL	N-CA-C	5.91	116.68	107.28
10	AM	33	GLN	N-CA-C	5.90	117.51	110.19
29	BF	130	ALA	N-CA-C	-5.90	105.38	112.58
35	DO	99	LEU	N-CA-C	-5.90	106.12	113.38
27	BD	48	ARG	N-CA-C	5.90	119.13	108.69
10	CM	79	ARG	N-CA-C	-5.89	106.07	113.20
33	DM	134	ARG	CA-C-N	5.88	127.19	119.84
33	DM	134	ARG	C-N-CA	5.88	127.19	119.84
45	DV	129	SER	CA-C-N	5.88	125.55	119.56
45	DV	129	SER	C-N-CA	5.88	125.55	119.56
31	BH	89	ILE	N-CA-C	5.87	116.26	107.51
33	BM	69	GLN	N-CA-C	5.87	117.35	111.07
32	DK	75	LEU	N-CA-C	5.87	117.78	108.79
44	DU	93	GLY	N-CA-C	-5.87	105.02	112.54
28	BE	141	ILE	N-CA-C	5.84	117.78	112.29
30	BG	116	ASP	CB-CA-C	-5.83	109.31	117.23
10	CM	40	LEU	CA-C-N	5.82	125.83	119.90
10	CM	40	LEU	C-N-CA	5.82	125.83	119.90
2	AE	171	ALA	N-CA-C	-5.80	104.56	111.69
32	BK	84	GLY	N-CA-C	-5.79	101.71	111.73
35	DO	111	ARG	N-CA-C	5.79	119.52	110.32
50	B4	40	HIS	N-CA-C	5.78	122.58	109.81
51	B5	59	GLU	N-CA-C	-5.78	106.08	113.02
35	BO	38	GLN	N-CA-C	5.77	118.03	111.11
52	B6	23	THR	N-CA-C	5.77	118.34	110.55
4	AG	188	LEU	CA-C-N	5.76	127.03	119.84
4	AG	188	LEU	C-N-CA	5.76	127.03	119.84
32	DK	131	LYS	CA-C-N	5.75	140.81	127.00
32	DK	131	LYS	C-N-CA	5.75	140.81	127.00
41	B2	44	LYS	CB-CA-C	-5.75	108.29	115.89
20	CW	75	ASN	N-CA-C	-5.75	105.92	113.17
2	AE	25	ASN	CA-C-N	5.75	127.02	119.84
2	AE	25	ASN	C-N-CA	5.75	127.02	119.84
39	BR	123	GLN	N-CA-C	-5.75	98.56	110.80
31	BH	54	ARG	CA-C-N	5.74	125.11	118.85
31	BH	54	ARG	C-N-CA	5.74	125.11	118.85
38	DQ	56	LEU	N-CA-C	-5.73	106.62	113.21
4	AG	12	CYS	CA-CB-SG	5.72	127.56	114.40
12	AO	124	LYS	CA-C-N	5.72	125.92	120.31
12	AO	124	LYS	C-N-CA	5.72	125.92	120.31
39	DR	9	LEU	N-CA-C	-5.72	105.56	112.54
30	BG	119	GLY	N-CA-C	5.70	117.85	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	BW	18	PRO	N-CA-C	5.70	122.24	113.75
28	DE	2	LYS	N-CA-C	5.69	117.64	110.24
28	DE	168	MET	N-CA-C	5.69	118.90	110.48
2	CE	25	ASN	CA-C-N	5.69	125.30	119.56
2	CE	25	ASN	C-N-CA	5.69	125.30	119.56
28	DE	64	LYS	CB-CA-C	-5.69	108.38	115.89
41	B2	39	LEU	N-CA-C	5.68	120.37	113.38
29	DF	2	LYS	N-CA-C	5.68	118.43	109.96
4	CG	50	ARG	CA-C-N	5.68	125.44	119.76
4	CG	50	ARG	C-N-CA	5.68	125.44	119.76
3	CF	62	ASP	N-CA-C	5.67	119.40	111.74
28	DE	23	VAL	N-CA-C	5.66	121.12	109.34
20	CW	27	LYS	N-CA-C	-5.64	105.05	111.14
32	BK	14	ASP	N-CA-C	5.63	118.05	108.02
17	CT	12	SER	N-CA-C	5.63	117.61	108.26
44	BU	81	LYS	CA-C-N	-5.62	112.81	119.84
44	BU	81	LYS	C-N-CA	-5.62	112.81	119.84
20	AW	86	ARG	N-CA-C	-5.62	105.92	112.89
33	DM	127	ASP	CB-CA-C	-5.60	108.50	115.89
47	BZ	2	SER	CA-C-N	-5.60	114.49	122.77
47	BZ	2	SER	C-N-CA	-5.60	114.49	122.77
29	BF	80	ALA	CA-C-N	5.59	125.26	119.56
29	BF	80	ALA	C-N-CA	5.59	125.26	119.56
34	BN	98	VAL	N-CA-C	5.59	117.95	109.12
7	AJ	21	VAL	N-CA-C	5.58	116.04	110.23
44	DU	102	CYS	CB-CA-C	-5.58	108.53	116.34
32	DK	131	LYS	C-N-CD	-5.58	108.33	120.60
46	B3	82	ARG	CA-C-N	5.57	126.81	119.84
46	B3	82	ARG	C-N-CA	5.57	126.81	119.84
52	D6	40	CYS	CA-C-N	5.57	125.47	119.85
52	D6	40	CYS	C-N-CA	5.57	125.47	119.85
25	BA	1899	G	C8-N9-C1'	5.56	143.69	127.00
31	BH	151	ILE	N-CA-C	-5.56	100.67	108.12
50	D4	26	SER	CB-CA-C	-5.56	110.14	116.54
40	D1	99	ALA	N-CA-C	-5.56	102.17	113.29
35	BO	94	GLU	N-CA-C	5.54	119.55	112.12
2	AE	127	ILE	N-CA-C	5.52	120.83	109.34
4	CG	33	MET	N-CA-C	-5.51	101.50	110.20
27	BD	53	PHE	N-CA-C	5.51	119.30	112.58
41	B2	40	LEU	N-CA-C	5.51	117.47	108.55
30	BG	15	VAL	CB-CA-C	-5.49	104.88	112.24
31	BH	35	VAL	N-CA-C	5.49	113.47	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	DD	196	VAL	N-CA-C	5.48	116.98	111.00
43	BT	25	LYS	N-CA-C	5.48	117.23	108.41
17	AT	23	VAL	N-CA-C	5.48	115.48	107.37
28	BE	132	HIS	N-CA-CB	-5.48	101.23	110.49
41	D2	35	LEU	CA-C-N	5.46	126.67	119.84
41	D2	35	LEU	C-N-CA	5.46	126.67	119.84
37	B0	9	LYS	CA-C-N	-5.46	114.66	123.23
37	B0	9	LYS	C-N-CA	-5.46	114.66	123.23
45	BV	61	LEU	CA-C-N	5.46	126.66	119.84
45	BV	61	LEU	C-N-CA	5.46	126.66	119.84
14	AQ	13	THR	CA-C-N	5.45	126.65	119.84
14	AQ	13	THR	C-N-CA	5.45	126.65	119.84
35	DO	143	GLY	N-CA-C	5.45	121.63	112.85
29	DF	20	LEU	N-CA-C	5.45	117.30	108.26
29	BF	93	LYS	CA-C-N	-5.44	113.95	119.83
29	BF	93	LYS	C-N-CA	-5.44	113.95	119.83
43	BT	5	TYR	N-CA-C	-5.43	106.32	113.17
31	BH	117	PRO	N-CA-C	5.42	117.31	110.70
44	BU	101	LYS	N-CA-C	5.42	117.59	107.99
43	DT	25	LYS	N-CA-C	5.42	117.14	108.41
29	DF	8	GLN	N-CA-C	5.42	117.92	108.76
35	BO	27	HIS	N-CA-C	5.41	122.32	110.80
38	DQ	106	ARG	N-CA-C	5.40	118.15	110.10
2	CE	171	ALA	N-CA-C	-5.40	106.36	113.17
9	CL	115	GLY	N-CA-C	-5.40	108.46	115.59
28	DE	85	ASN	CA-C-N	5.39	126.58	119.84
28	DE	85	ASN	C-N-CA	5.39	126.58	119.84
40	D1	94	ASN	N-CA-C	-5.37	104.85	111.40
5	CH	48	ALA	CA-C-N	5.36	125.17	119.28
5	CH	48	ALA	C-N-CA	5.36	125.17	119.28
8	AK	100	ILE	CA-C-N	5.35	125.65	119.92
8	AK	100	ILE	C-N-CA	5.35	125.65	119.92
20	AW	74	LYS	CB-CA-C	-5.34	108.87	116.34
27	BD	43	ARG	N-CA-C	5.34	119.78	113.16
2	CE	130	ARG	CA-C-N	5.33	126.50	119.84
2	CE	130	ARG	C-N-CA	5.33	126.50	119.84
12	AO	49	ASN	N-CA-C	5.33	117.29	109.24
41	D2	39	LEU	N-CA-C	-5.33	106.62	113.01
41	B2	44	LYS	N-CA-C	5.32	117.95	109.02
31	DH	84	SER	N-CA-C	5.31	115.86	108.00
28	BE	185	LYS	N-CA-C	5.30	118.07	107.62
18	AU	23	LYS	N-CA-C	-5.30	106.32	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	DH	3	ARG	CB-CA-C	-5.30	110.45	116.54
31	DH	56	SER	N-CA-C	5.29	115.22	108.24
11	CN	128	ALA	N-CA-C	5.29	115.82	108.00
4	CG	171	GLY	CA-C-N	5.28	126.44	119.84
4	CG	171	GLY	C-N-CA	5.28	126.44	119.84
28	BE	120	TRP	N-CA-C	5.28	119.83	113.17
36	BP	6	ARG	N-CA-C	5.28	117.08	110.91
45	DV	14	LYS	CA-C-N	5.28	124.89	119.56
45	DV	14	LYS	C-N-CA	5.28	124.89	119.56
14	CQ	15	LYS	N-CA-C	5.27	117.73	110.35
12	CO	64	TYR	N-CA-C	5.26	116.87	111.03
17	AT	78	GLU	N-CA-C	5.26	119.39	112.92
31	BH	136	ILE	CB-CA-C	-5.26	105.19	112.24
33	DM	39	ARG	CA-C-N	-5.26	113.27	119.84
33	DM	39	ARG	C-N-CA	-5.26	113.27	119.84
35	DO	146	VAL	N-CA-C	5.25	116.04	108.48
6	AI	67	MET	CA-C-N	5.24	126.39	119.84
6	AI	67	MET	C-N-CA	5.24	126.39	119.84
50	D4	58	ARG	N-CA-C	5.24	117.40	111.11
19	CV	11	VAL	N-CA-C	5.24	117.18	109.63
34	BN	100	GLY	CA-C-N	-5.24	115.38	120.98
34	BN	100	GLY	C-N-CA	-5.24	115.38	120.98
29	BF	58	ALA	N-CA-C	5.24	119.29	113.01
36	BP	10	ARG	N-CA-C	-5.23	103.49	110.55
40	D1	9	VAL	N-CA-C	5.22	115.44	110.53
45	BV	14	LYS	CA-C-N	5.22	125.52	119.47
45	BV	14	LYS	C-N-CA	5.22	125.52	119.47
36	BP	65	PHE	N-CA-C	5.21	119.39	112.72
51	D5	38	ALA	N-CA-C	5.20	116.64	110.19
4	CG	36	ARG	CA-C-N	-5.20	114.89	121.91
4	CG	36	ARG	C-N-CA	-5.20	114.89	121.91
3	CF	195	VAL	N-CA-C	5.19	116.71	109.55
13	AP	37	THR	N-CA-C	-5.18	106.64	113.17
54	B8	50	LEU	N-CA-C	5.18	116.84	108.34
45	BV	98	MET	N-CA-C	5.18	115.38	108.38
28	DE	77	ILE	N-CA-C	5.18	115.23	107.51
19	CV	45	VAL	N-CA-C	5.18	115.77	109.30
52	B6	18	ARG	N-CA-C	-5.18	105.85	113.72
18	AU	19	LYS	CB-CA-C	-5.17	109.10	116.34
37	B0	38	VAL	CB-CA-C	-5.16	108.80	113.70
35	BO	71	VAL	N-CA-C	5.16	120.03	108.88
19	AV	62	ILE	N-CA-C	5.16	115.33	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	CV	30	LEU	N-CA-C	5.15	118.80	109.32
47	DZ	39	LYS	N-CA-C	5.15	118.21	109.76
2	AE	200	ILE	N-CA-C	5.15	115.72	108.36
47	BZ	54	ALA	CB-CA-C	-5.14	110.63	116.54
7	CJ	75	VAL	N-CA-C	5.14	114.97	107.37
10	CM	49	VAL	N-CA-C	5.14	116.76	108.85
29	BF	65	TRP	CA-C-N	5.13	126.26	119.84
29	BF	65	TRP	C-N-CA	5.13	126.26	119.84
33	DM	127	ASP	N-CA-C	5.12	117.63	109.02
12	AO	105	TYR	CB-CA-C	-5.11	109.18	116.34
38	BQ	110	LEU	N-CA-C	5.11	121.69	110.80
29	DF	95	ARG	N-CA-C	5.11	116.84	109.07
47	DZ	36	GLY	N-CA-C	5.10	125.27	113.18
35	DO	107	LYS	N-CA-C	5.09	118.63	111.90
37	B0	109	ALA	N-CA-C	5.09	116.96	109.42
2	CE	186	ALA	N-CA-C	5.09	114.96	108.24
41	D2	49	THR	CA-C-N	-5.09	113.48	119.84
41	D2	49	THR	C-N-CA	-5.09	113.48	119.84
28	DE	55	ASN	CA-C-N	-5.07	113.50	119.84
28	DE	55	ASN	C-N-CA	-5.07	113.50	119.84
35	DO	105	LEU	N-CA-C	5.07	114.84	108.45
21	AX	8	THR	N-CA-C	5.07	116.01	108.86
32	DK	124	GLY	N-CA-C	5.07	117.45	110.56
39	DR	19	LEU	CA-C-N	5.06	125.34	119.92
39	DR	19	LEU	C-N-CA	5.06	125.34	119.92
49	BX	56	VAL	N-CA-C	5.06	116.25	108.71
28	BE	129	HIS	CB-CA-C	-5.06	110.35	117.23
36	BP	83	MET	N-CA-C	5.05	116.55	107.80
4	AG	8	VAL	N-CA-C	5.05	116.93	111.58
2	CE	129	GLU	CB-CA-C	-5.05	110.77	116.63
31	DH	159	GLU	CB-CA-C	-5.05	110.73	116.54
9	CL	17	VAL	N-CA-C	5.05	115.24	108.17
30	DG	181	ARG	N-CA-C	-5.04	107.10	113.20
35	BO	26	GLY	N-CA-C	-5.04	103.46	112.22
27	BD	27	THR	N-CA-C	-5.03	100.09	110.80
41	B2	34	GLU	N-CA-C	-5.03	101.11	109.46
16	AS	5	ARG	N-CA-C	5.02	115.15	108.38
13	AP	82	MET	N-CA-C	-5.01	100.12	110.80
47	DZ	31	GLY	N-CA-C	5.01	120.15	111.98
54	D8	39	LYS	N-CA-C	-5.01	103.33	110.59
33	BM	57	ALA	N-CA-C	-5.01	101.71	109.72
37	D0	38	VAL	N-CA-CB	5.01	113.87	110.52

There are no chirality outliers.

All (99) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	AE	14	GLY	Peptide
2	AE	194	PRO	Peptide
2	AE	71	VAL	Peptide
4	AG	29	PRO	Peptide
8	AK	102	ARG	Peptide
10	AM	55	LYS	Peptide
12	AO	17	LYS	Peptide
12	AO	47	LYS	Peptide
14	AQ	13	THR	Peptide
15	AR	87	ILE	Peptide
40	B1	90	VAL	Peptide
41	B2	48	GLY	Peptide
46	B3	83	PRO	Peptide
46	B3	84	LEU	Peptide
50	B4	38	LYS	Peptide
50	B4	40	HIS	Peptide
50	B4	44	THR	Peptide
50	B4	51	ASP	Peptide
51	B5	47	PRO	Peptide
52	B6	27	LYS	Peptide
53	B7	48	LYS	Peptide
54	B8	51	ALA	Peptide
54	B8	52	LYS	Peptide
27	BD	122	ASP	Peptide
27	BD	236	GLY	Peptide
27	BD	237	GLU	Peptide
27	BD	27	THR	Peptide
27	BD	28	GLU	Peptide
27	BD	47	GLY	Peptide
28	BE	131	ALA	Peptide
30	BG	13	GLU	Peptide
31	BH	153	LYS	Peptide
31	BH	7	LEU	Peptide
32	BK	10	GLU	Peptide
32	BK	116	LEU	Peptide
32	BK	134	PRO	Peptide
33	BM	96	GLU	Peptide
35	BO	115	LEU	Peptide
35	BO	26	GLY	Peptide
35	BO	36	LYS	Peptide

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Mol	Chain	Res	Type	Group
35	BO	5	ASP	Peptide
36	BP	21	THR	Peptide
36	BP	58	PHE	Peptide
36	BP	87	LYS	Peptide
38	BQ	110	LEU	Peptide
39	BR	115	ARG	Peptide
39	BR	3	ARG	Peptide
43	BT	67	GLY	Peptide
45	BV	160	GLY	Peptide
45	BV	5	LEU	Peptide
45	BV	63	ASP	Peptide
48	BW	15	LYS	Peptide
48	BW	17	SER	Peptide
2	CE	231	GLU	Peptide
2	CE	237	ALA	Peptide
2	CE	71	VAL	Peptide
2	CE	73	THR	Peptide
2	CE	74	LYS	Peptide
3	CF	47	LEU	Peptide
14	CQ	14	PRO	Peptide
14	CQ	27	CYS	Peptide
19	CV	66	MET	Peptide
20	CW	11	SER	Peptide
37	D0	106	GLY	Peptide
37	D0	81	ASP	Peptide
40	D1	90	VAL	Peptide
50	D4	40	HIS	Peptide
50	D4	56	VAL	Peptide
51	D5	56	LYS	Peptide
52	D6	18	ARG	Peptide
54	D8	31	HIS	Peptide
27	DD	236	GLY	Peptide
27	DD	237	GLU	Peptide
27	DD	29	PRO	Peptide
28	DE	186	GLY	Peptide
28	DE	201	THR	Peptide
28	DE	203	LYS	Peptide
28	DE	61	ARG	Peptide
28	DE	65	GLY	Peptide
28	DE	88	GLY	Peptide
29	DF	123	LEU	Peptide
29	DF	2	LYS	Peptide

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Mol	Chain	Res	Type	Group
30	DG	13	GLU	Peptide
31	DH	124	GLU	Peptide
31	DH	125	VAL	Peptide
32	DK	112	LYS	Peptide
32	DK	142	VAL	Peptide
32	DK	143	SER	Peptide
32	DK	82	ARG	Peptide
35	DO	110	TYR	Peptide
35	DO	115	LEU	Peptide
35	DO	139	LYS	Peptide
38	DQ	108	GLY	Peptide
38	DQ	56	LEU	Peptide
44	DU	46	LYS	Peptide
44	DU	76	CYS	Peptide
45	DV	175	VAL	Peptide
45	DV	60	GLU	Peptide
48	DW	43	GLN	Peptide

5.2 Too-close contacts (i)

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	32369	0	16339	1212	1
1	CA	32372	0	16338	1296	1
2	AE	1924	0	1975	161	0
2	CE	1924	0	1975	188	0
3	AF	1605	0	1668	113	0
3	CF	1612	0	1677	151	0
4	AG	1703	0	1764	152	0
4	CG	1703	0	1763	147	1
5	AH	1155	0	1213	81	0
5	CH	1155	0	1213	94	0
6	AI	843	0	857	40	1
6	CI	843	0	857	46	0
7	AJ	1257	0	1296	69	0
7	CJ	1257	0	1296	77	0
8	AK	1116	0	1177	77	0
8	CK	1116	0	1177	69	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	AL	1010	0	1037	101	0
9	CL	1010	0	1037	125	0
10	AM	801	0	849	81	0
10	CM	801	0	849	114	0
11	AN	885	0	904	67	0
11	CN	885	0	904	45	0
12	AO	975	0	1062	63	0
12	CO	975	0	1062	78	0
13	AP	928	0	987	72	0
13	CP	933	0	992	111	0
14	AQ	492	0	529	49	0
14	CQ	492	0	531	73	0
15	AR	734	0	771	44	0
15	CR	734	0	771	36	0
16	AS	705	0	725	81	0
16	CS	705	0	725	47	0
17	AT	834	0	904	55	0
17	CT	834	0	904	43	0
18	AU	591	0	662	29	0
18	CU	591	0	662	47	0
19	AV	624	0	636	74	0
19	CV	624	0	636	90	0
20	AW	763	0	859	74	0
20	CW	763	0	861	58	0
21	AX	217	0	234	17	0
21	CX	217	0	234	24	0
22	AB	1861	0	938	87	0
22	CB	1861	0	938	100	0
23	AC	1643	0	837	74	0
23	AD	1643	0	837	97	0
23	CC	1643	0	837	91	0
23	CD	1643	0	837	108	0
24	A1	205	0	103	12	0
24	C1	205	0	103	10	0
25	BA	62707	0	31613	2108	0
25	DA	62607	0	31565	2107	1
26	BB	2617	0	1328	95	0
26	DB	2617	0	1328	135	0
27	BD	2115	0	2195	246	0
27	DD	2115	0	2195	213	0
28	BE	1568	0	1634	343	0
28	DE	1568	0	1634	261	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	BF	1585	0	1632	122	0
29	DF	1627	0	1680	190	0
30	BG	1474	0	1535	177	0
30	DG	1474	0	1535	150	0
31	BH	1307	0	1382	138	0
31	DH	1307	0	1382	156	1
32	BK	1136	0	1223	100	0
32	DK	1136	0	1223	86	0
33	BM	1104	0	1180	148	0
33	DM	1104	0	1180	89	0
34	BN	933	0	996	65	0
34	DN	933	0	996	52	0
35	BO	1145	0	1228	203	0
35	DO	1145	0	1227	244	0
36	BP	1122	0	1179	101	0
36	DP	1122	0	1179	212	0
37	B0	968	0	1033	79	0
37	D0	960	0	1021	60	0
38	BQ	882	0	943	110	0
38	DQ	882	0	943	120	0
39	BR	1141	0	1202	123	0
39	DR	1141	0	1202	131	0
40	B1	964	0	1022	102	0
40	D1	964	0	1022	94	0
41	B2	779	0	852	82	0
41	D2	779	0	852	127	0
42	BS	900	0	964	72	0
42	DS	900	0	964	43	0
43	BT	725	0	778	55	0
43	DT	725	0	778	76	0
44	BU	785	0	878	78	0
44	DU	785	0	878	103	0
45	BV	1397	0	1430	125	0
45	DV	1428	0	1454	164	0
46	B3	607	0	628	51	0
46	D3	613	0	633	55	0
47	BZ	763	0	848	52	0
47	DZ	763	0	848	47	0
48	BW	558	0	610	46	0
48	DW	581	0	629	49	0
49	BX	469	0	518	35	0
49	DX	469	0	518	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	B4	533	0	522	86	0
50	D4	515	0	510	86	0
51	B5	459	0	480	53	0
51	D5	454	0	475	44	0
52	B6	389	0	404	83	0
52	D6	389	0	404	86	0
53	B7	430	0	480	30	0
53	D7	430	0	480	36	0
54	B8	488	0	558	114	0
54	D8	488	0	558	117	0
55	A1	2	0	0	0	0
55	AA	242	0	0	0	0
55	AB	5	0	0	0	0
55	AC	9	0	0	0	0
55	AD	1	0	0	0	0
55	AG	1	0	0	0	0
55	AH	1	0	0	0	0
55	AN	2	0	0	0	0
55	AQ	1	0	0	0	0
55	B0	1	0	0	0	0
55	B1	1	0	0	0	0
55	B2	1	0	0	0	0
55	B3	1	0	0	0	0
55	B5	1	0	0	0	0
55	B7	1	0	0	0	0
55	B8	1	0	0	0	0
55	BA	623	0	0	0	0
55	BB	17	0	0	0	0
55	BD	1	0	0	0	0
55	BE	5	0	0	0	0
55	BF	3	0	0	0	0
55	BO	2	0	0	0	0
55	BU	2	0	0	0	0
55	CA	207	0	0	0	0
55	CB	3	0	0	0	0
55	CC	8	0	0	0	0
55	CG	2	0	0	0	0
55	CN	1	0	0	0	0
55	CS	1	0	0	0	0
55	D1	2	0	0	0	0
55	D3	1	0	0	0	0
55	D5	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	DA	526	0	0	0	0
55	DB	14	0	0	0	0
55	DE	3	0	0	0	0
55	DP	1	0	0	0	0
55	DR	1	0	0	0	0
55	DU	1	0	0	0	0
56	AG	1	0	0	0	0
56	AQ	1	0	0	0	0
56	CG	1	0	0	0	0
56	CQ	1	0	0	0	0
All	All	299552	0	200910	15102	3

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 30.

All (15102) 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)
1:AA:625:G:H4'	16:AS:16:HIS:CD2	1.33	1.61
28:DE:46:ALA:CB	28:DE:82:ARG:HA	1.37	1.55
30:BG:83:ARG:H	30:BG:86:MET:CE	1.24	1.47
47:BZ:85:LEU:C	47:BZ:87:PRO:HD2	1.38	1.45
36:DP:26:TYR:CE1	36:DP:139:GLU:HB2	1.48	1.45
25:BA:1056:G:N2	25:BA:1103:A:H62	1.13	1.44
28:DE:46:ALA:HB2	28:DE:82:ARG:CA	1.50	1.41
1:AA:625:G:C4'	16:AS:16:HIS:HD2	1.32	1.40
25:BA:2467:C:C2'	25:BA:2468:G:H5'	1.53	1.39
25:DA:226:G:N2	25:DA:228:A:H61	1.21	1.39
25:BA:49:A:N7	25:BA:120:U:H5	1.20	1.38
36:DP:24:GLY:HA3	36:DP:25:ASP:CB	1.42	1.35
35:BO:61:ARG:HB2	35:BO:61:ARG:NH2	1.39	1.35
25:DA:226:G:H21	25:DA:228:A:N6	0.88	1.35
51:D5:4:HIS:HB3	51:D5:5:PRO:CD	1.39	1.35
35:DO:61:ARG:NH2	35:DO:61:ARG:HB2	1.39	1.35
25:DA:226:G:N2	25:DA:228:A:N6	1.73	1.34
25:DA:847:U:C5	25:DA:933:A:N6	1.95	1.34
25:BA:631:A:OP2	54:B8:46:ARG:NH2	1.60	1.33
54:D8:49:VAL:C	54:D8:50:LEU:HD12	1.53	1.32
28:BE:79:ARG:CD	28:BE:197:ILE:HG21	1.59	1.31
27:BD:272:ALA:HB1	27:BD:273:ARG:CA	1.62	1.30
1:AA:1160:G:H1	1:AA:1177:G:N2	1.29	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:46:ALA:CB	28:DE:82:ARG:CA	2.08	1.29
38:BQ:23:ARG:HD3	38:BQ:85:VAL:O	1.28	1.28
20:AW:10:LEU:CD2	20:AW:12:ALA:HB3	1.62	1.28
35:DO:19:VAL:CG2	35:DO:27:HIS:HB3	1.62	1.27
27:BD:272:ALA:CB	27:BD:273:ARG:HA	1.53	1.27
38:BQ:83:LYS:O	38:BQ:109:GLY:HA2	1.24	1.27
25:DA:9:U:H3	25:DA:2629:A:N6	1.31	1.27
27:DD:35:LYS:HD2	27:DD:104:TYR:CD1	1.70	1.27
36:DP:29:PHE:CD2	36:DP:65:PHE:CE1	2.22	1.26
28:BE:23:VAL:HG12	28:BE:185:LYS:CB	1.66	1.25
38:DQ:87:PHE:CE1	38:DQ:102:ALA:HB2	1.71	1.25
25:BA:49:A:N7	25:BA:120:U:C5	2.03	1.25
25:BA:2310:A:N3	30:BG:77:ILE:HD11	1.50	1.24
25:DA:847:U:C4	25:DA:933:A:N6	2.03	1.24
30:BG:83:ARG:HG3	30:BG:86:MET:CE	1.65	1.24
27:DD:43:ARG:HH11	27:DD:44:ASN:ND2	1.33	1.24
41:D2:81:TYR:O	41:D2:82:ARG:HG3	1.37	1.23
28:BE:23:VAL:HB	28:BE:184:VAL:O	1.10	1.23
27:BD:43:ARG:NH1	27:BD:44:ASN:OD1	1.70	1.22
16:AS:20:VAL:HG21	16:AS:32:TYR:CD1	1.74	1.22
27:BD:35:LYS:HD2	27:BD:104:TYR:CD1	1.74	1.22
25:DA:2681:C:C5	25:DA:2725:A:N6	2.06	1.21
36:DP:26:TYR:CD1	36:DP:139:GLU:CG	2.24	1.21
28:BE:19:ARG:NH1	34:BN:72:PRO:HB3	1.55	1.21
35:DO:19:VAL:HG23	35:DO:27:HIS:CB	1.69	1.20
36:DP:26:TYR:HD1	36:DP:139:GLU:CG	1.55	1.20
54:D8:34:TRP:O	54:D8:36:LYS:HG3	1.37	1.20
36:DP:66:ILE:HD12	36:DP:67:ARG:N	1.55	1.19
25:DA:2371:G:O4'	52:D6:45:LYS:HE2	1.39	1.19
36:DP:29:PHE:CD2	36:DP:65:PHE:HE1	1.56	1.19
30:BG:83:ARG:H	30:BG:86:MET:HE1	1.08	1.18
16:AS:19:ILE:CG2	16:AS:36:ILE:CG1	2.21	1.18
16:AS:20:VAL:HG21	16:AS:32:TYR:CG	1.77	1.18
33:DM:47:ALA:HB2	33:DM:112:LEU:HD11	1.23	1.18
36:DP:66:ILE:CD1	36:DP:67:ARG:H	1.55	1.18
28:BE:35:GLN:CB	28:BE:48:GLN:HG3	1.74	1.18
38:BQ:83:LYS:O	38:BQ:109:GLY:CA	1.92	1.18
23:AC:17:C:H3'	23:AC:18:C:H5"	1.25	1.17
25:BA:2309:A:H2'	25:BA:2310:A:C5'	1.74	1.17
28:BE:81:ILE:HG21	28:BE:84:PHE:CD1	1.78	1.17
1:CA:1004:A:H1'	1:CA:1036:G:N1	1.59	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:625:G:C4'	16:AS:16:HIS:CD2	2.14	1.17
25:BA:1899:G:H22	25:BA:1902:C:N4	1.41	1.17
39:DR:74:ARG:HH11	39:DR:74:ARG:HG2	1.10	1.17
28:BE:14:ILE:HG22	28:BE:15:PHE:N	1.54	1.16
30:BG:83:ARG:N	30:BG:86:MET:CE	2.08	1.16
25:DA:1257:C:O2'	29:DF:84:VAL:CG1	1.93	1.16
35:BO:15:ARG:HH11	35:BO:15:ARG:HG2	1.10	1.16
25:BA:2317:C:H2'	25:BA:2318:G:H5'	1.28	1.16
35:BO:65:ARG:HG3	35:BO:65:ARG:HH11	1.07	1.16
25:BA:2309:A:C2'	25:BA:2310:A:H5'	1.76	1.15
25:DA:672:C:H2'	25:DA:673:C:H5"	1.22	1.15
25:BA:1056:G:N2	25:BA:1103:A:N6	1.93	1.15
1:AA:1053:G:H5'	1:AA:1054:C:H5'	1.24	1.14
33:BM:47:ALA:HB2	33:BM:112:LEU:HD11	1.27	1.14
23:CC:30:G:C2'	23:CC:31:G:H5'	1.77	1.14
27:BD:35:LYS:HD3	27:BD:63:ARG:HB3	1.30	1.14
33:BM:42:TRP:HA	33:BM:48:MET:HE1	1.27	1.14
16:AS:19:ILE:HG23	16:AS:36:ILE:CG1	1.76	1.14
16:AS:19:ILE:HG23	16:AS:36:ILE:HG12	1.15	1.14
28:BE:52:LEU:HB2	28:BE:75:VAL:CG2	1.77	1.14
38:DQ:14:VAL:HG21	38:DQ:89:ARG:CD	1.77	1.14
4:AG:9:CYS:O	4:AG:13:ARG:HG2	1.46	1.13
51:D5:4:HIS:CB	51:D5:5:PRO:HD3	1.78	1.13
28:BE:52:LEU:HD23	28:BE:52:LEU:H	1.13	1.13
38:DQ:87:PHE:HE1	38:DQ:102:ALA:HB2	0.97	1.13
25:DA:2306:C:H3'	25:DA:2307:G:H5"	1.29	1.13
28:BE:23:VAL:HG12	28:BE:185:LYS:CA	1.79	1.12
16:AS:19:ILE:HG21	16:AS:36:ILE:HG13	1.30	1.12
1:CA:975:A:H4'	1:CA:976:G:H5"	1.25	1.12
1:AA:1139:G:N2	1:AA:1143:G:O6	1.81	1.11
28:BE:19:ARG:NH1	34:BN:72:PRO:CB	2.12	1.11
28:DE:46:ALA:HB1	28:DE:82:ARG:N	1.65	1.11
25:DA:2060:A:OP1	29:DF:68:LYS:O	1.67	1.11
25:DA:2393:A:H5'	35:DO:62:LEU:HB3	1.16	1.11
25:DA:2636:U:OP1	28:DE:79:ARG:O	1.69	1.11
41:D2:85:LYS:HG3	41:D2:87:HIS:H	1.10	1.11
29:DF:89:VAL:HG12	29:DF:90:PHE:N	1.54	1.11
23:CC:60:A:H2'	23:CC:61:U:H5'	1.17	1.11
31:DH:125:VAL:HG22	31:DH:126:PRO:HD3	1.12	1.11
26:BB:15:A:H5'	26:BB:16:G:C8	1.86	1.10
27:BD:181:GLU:HA	27:BD:272:ALA:CB	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:54:ARG:HH11	39:DR:54:ARG:HG2	1.07	1.10
6:AI:89:MET:HE3	18:AU:76:LEU:HD23	1.25	1.10
28:BE:51:PHE:CD1	28:BE:52:LEU:HD23	1.87	1.10
28:BE:78:LEU:HD12	28:BE:79:ARG:N	1.67	1.10
30:BG:67:LYS:HE2	50:B4:6:HIS:CE1	1.86	1.10
31:DH:151:ILE:O	31:DH:152:ARG:HG3	1.49	1.10
33:DM:45:ASN:O	33:DM:46:VAL:HG23	1.52	1.10
41:D2:76:LYS:O	41:D2:79:VAL:HG23	1.51	1.10
23:CC:17:C:H3'	23:CC:18:C:H5"	1.32	1.10
23:AD:5:G:N2	23:AD:70:C:N3	2.00	1.09
28:BE:4:ILE:HD13	28:BE:28:ALA:HB1	1.14	1.09
44:BU:79:CYS:SG	44:BU:80:GLY:N	2.25	1.09
38:DQ:14:VAL:CG2	38:DQ:89:ARG:HD3	1.81	1.09
53:D7:8:ASN:ND2	53:D7:11:LYS:H	1.50	1.09
27:DD:27:THR:HG21	27:DD:83:GLU:HG2	1.30	1.09
25:BA:2404:C:H1'	35:BO:67:MET:HE1	1.11	1.09
1:CA:1223:C:H5"	1:CA:1224:G:H5"	1.11	1.09
36:DP:26:TYR:CE1	36:DP:139:GLU:CB	2.33	1.09
45:DV:146:ILE:HG13	45:DV:147:GLY:H	1.11	1.09
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.15	1.09
5:AH:126:ARG:HH11	5:AH:126:ARG:HG3	1.14	1.09
25:BA:2310:A:C2	30:BG:77:ILE:CG1	2.36	1.09
26:DB:74:U:H2'	26:DB:75:G:H5"	1.19	1.09
28:BE:27:LEU:HD23	28:BE:27:LEU:C	1.78	1.08
3:CF:111:LEU:HD11	3:CF:145:GLY:HA3	1.34	1.08
20:AW:10:LEU:HD21	20:AW:12:ALA:CB	1.83	1.08
25:BA:2310:A:N3	30:BG:77:ILE:CD1	2.17	1.08
35:DO:64:LYS:CB	54:D8:25:MET:HG3	1.82	1.08
36:DP:63:LYS:HD3	36:DP:63:LYS:C	1.75	1.08
16:AS:19:ILE:CG2	16:AS:36:ILE:HG12	1.82	1.08
20:AW:10:LEU:HD21	20:AW:12:ALA:HB3	1.22	1.08
25:BA:1026:U:H1'	25:BA:1027:A:O5'	1.50	1.08
28:BE:35:GLN:HB3	28:BE:48:GLN:HG3	1.30	1.08
28:BE:79:ARG:HD2	28:BE:197:ILE:CG2	1.84	1.08
30:BG:83:ARG:N	30:BG:86:MET:HE1	1.67	1.08
31:BH:171:LEU:C	31:BH:171:LEU:HD12	1.77	1.08
25:DA:2415:G:H4'	35:DO:67:MET:H	1.10	1.08
36:DP:27:VAL:HG13	36:DP:105:GLU:OE2	1.53	1.08
28:BE:81:ILE:CG2	28:BE:84:PHE:HB2	1.83	1.08
28:BE:81:ILE:HG22	28:BE:84:PHE:HB2	1.27	1.08
52:B6:47:THR:HG22	52:B6:48:VAL:H	0.93	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:963:G:H21	10:CM:55:LYS:HD3	1.13	1.08
27:DD:35:LYS:HE2	27:DD:104:TYR:HB2	1.13	1.08
35:DO:15:ARG:CG	35:DO:15:ARG:HH11	1.67	1.08
52:D6:48:VAL:CG1	52:D6:49:HIS:H	1.62	1.08
25:BA:1899:G:N2	25:BA:1902:C:H41	1.52	1.08
25:DA:2371:G:C4'	52:D6:45:LYS:HE2	1.83	1.08
28:BE:23:VAL:CB	28:BE:184:VAL:O	2.01	1.07
23:CC:30:G:H2'	23:CC:31:G:H5'	1.29	1.07
35:DO:65:ARG:HH11	35:DO:65:ARG:HG3	1.07	1.07
52:D6:48:VAL:O	52:D6:49:HIS:HB2	1.51	1.07
25:BA:2310:A:C2	30:BG:77:ILE:HG12	1.88	1.07
29:DF:83:PHE:O	29:DF:84:VAL:HG13	1.53	1.07
1:CA:448:A:OP2	1:CA:485:G:N2	1.86	1.07
25:DA:9:U:N3	25:DA:2629:A:N6	2.01	1.07
28:BE:19:ARG:HH11	34:BN:72:PRO:HB3	0.92	1.07
28:BE:23:VAL:CG1	28:BE:185:LYS:HB3	1.84	1.07
28:BE:36:ARG:HH22	28:BE:88:GLY:HA2	1.19	1.07
48:BW:4:SER:HB2	48:BW:5:GLU:OE2	1.54	1.07
4:CG:13:ARG:HG2	4:CG:14:ARG:H	1.18	1.07
15:CR:17:ARG:HH11	15:CR:17:ARG:HG3	1.17	1.07
25:DA:2404:C:H1'	35:DO:67:MET:HE1	1.37	1.07
36:DP:24:GLY:CA	36:DP:25:ASP:CB	2.30	1.07
38:DQ:14:VAL:HG21	38:DQ:89:ARG:HD3	1.07	1.07
28:BE:23:VAL:HG12	28:BE:185:LYS:HB3	1.14	1.07
28:BE:38:THR:HB	28:BE:39:PRO:HD2	1.36	1.07
36:DP:29:PHE:HD2	36:DP:65:PHE:CE1	1.63	1.07
25:BA:2394:C:OP1	35:BO:63:PRO:HD2	1.55	1.06
31:DH:127:GLU:HG2	31:DH:128:PRO:HD2	1.32	1.06
41:D2:83:ARG:N	41:D2:83:ARG:HD2	1.67	1.06
36:BP:76:LYS:H	36:BP:88:GLY:HA3	1.00	1.06
52:D6:25:LYS:HB3	54:D8:34:TRP:HZ3	1.14	1.06
54:D8:34:TRP:CG	54:D8:35:GLN:H	1.70	1.06
25:BA:1884:A:H2'	25:BA:1885:A:H5"	1.32	1.06
22:CB:59:U:O2'	22:CB:70:G:H4'	1.55	1.06
25:DA:2420:C:OP1	54:D8:34:TRP:HB3	1.55	1.06
28:DE:47:VAL:O	28:DE:80:GLU:HA	1.53	1.06
35:DO:64:LYS:HB3	54:D8:25:MET:CG	1.83	1.06
27:BD:35:LYS:HB3	27:BD:63:ARG:HA	1.38	1.06
28:BE:14:ILE:CG2	28:BE:15:PHE:H	1.60	1.06
29:BF:178:PRO:HB2	29:BF:201:VAL:HG11	1.38	1.05
35:BO:15:ARG:HH11	35:BO:15:ARG:CG	1.67	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DH:152:ARG:O	31:DH:153:LYS:HB2	1.46	1.05
38:DQ:87:PHE:HE1	38:DQ:102:ALA:CB	1.69	1.05
47:DZ:91:LYS:HB2	47:DZ:91:LYS:NZ	1.66	1.05
52:D6:48:VAL:HG13	52:D6:49:HIS:N	1.57	1.05
25:BA:2371:G:O4'	52:B6:45:LYS:HG3	1.55	1.05
30:BG:83:ARG:HG3	30:BG:86:MET:HE2	1.06	1.05
39:BR:74:ARG:HH11	39:BR:74:ARG:HG2	1.16	1.05
27:BD:35:LYS:NZ	27:BD:104:TYR:HB2	1.72	1.05
28:BE:56:PRO:O	28:BE:57:LYS:HB2	1.48	1.05
28:DE:48:GLN:C	28:DE:49:LEU:HG	1.76	1.05
25:BA:2393:A:H5'	35:BO:62:LEU:HB3	1.37	1.05
30:BG:83:ARG:CG	30:BG:86:MET:HE2	1.87	1.04
41:D2:82:ARG:HH11	41:D2:82:ARG:HG2	0.91	1.04
25:BA:2469:A:N6	25:BA:2481:G:N3	2.03	1.04
31:BH:171:LEU:HD12	31:BH:171:LEU:O	1.55	1.04
1:AA:1004:A:H1'	1:AA:1036:G:C6	1.91	1.04
25:BA:620:G:H4'	25:BA:621:A:H5"	1.35	1.04
28:BE:81:ILE:CG2	28:BE:84:PHE:CB	2.34	1.04
25:DA:9:U:N3	25:DA:2629:A:C6	2.25	1.04
25:DA:2748:A:N7	25:DA:2754:U:O4	1.88	1.04
25:BA:860:U:H5	25:BA:917:A:C2	1.74	1.04
28:BE:27:LEU:HD13	39:BR:1:MET:HE1	1.37	1.04
35:DO:15:ARG:HH11	35:DO:15:ARG:HG2	1.10	1.04
39:DR:52:ILE:HG22	39:DR:52:ILE:O	1.58	1.04
35:BO:9:ASN:HB3	35:BO:10:PRO:HD2	1.36	1.03
28:DE:52:LEU:O	28:DE:74:PRO:HA	1.58	1.03
21:AX:15:ARG:HH11	21:AX:15:ARG:HG2	1.18	1.03
23:AC:17:C:H3'	23:AC:18:C:C5'	1.87	1.03
28:BE:19:ARG:HH11	34:BN:72:PRO:CB	1.71	1.03
28:BE:52:LEU:HB2	28:BE:75:VAL:HG22	1.38	1.03
50:B4:62:ARG:O	50:B4:66:SER:HA	1.58	1.03
22:CB:37:G:N2	24:C1:19:U:O2	1.89	1.03
25:DA:74:A:H4'	25:DA:75:G:O5'	1.55	1.03
25:DA:1342:A:N1	25:DA:1602:U:N3	2.06	1.03
16:AS:19:ILE:CG2	16:AS:36:ILE:HG13	1.82	1.03
36:DP:24:GLY:HA3	36:DP:25:ASP:HB2	1.04	1.03
11:AN:79:SER:O	11:AN:80:VAL:HG13	1.59	1.03
29:BF:198:ALA:HA	29:BF:201:VAL:HG12	1.40	1.03
31:DH:151:ILE:C	31:DH:152:ARG:HG3	1.77	1.03
25:BA:71:A:C2	43:BT:31:HIS:HE1	1.77	1.03
36:BP:66:ILE:HG13	36:BP:67:ARG:H	1.19	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:44:ASN:HB3	27:DD:49:ILE:HA	1.40	1.03
51:D5:16:ARG:HH11	51:D5:16:ARG:HG2	1.19	1.03
28:BE:48:GLN:O	28:BE:49:LEU:HB2	1.57	1.02
25:DA:1070:A:H5'	25:DA:1071:G:H5"	1.39	1.02
25:BA:2309:A:H2'	25:BA:2310:A:H5'	1.03	1.02
28:BE:51:PHE:CD1	28:BE:52:LEU:CD2	2.43	1.02
28:BE:81:ILE:HG21	28:BE:84:PHE:CG	1.93	1.02
35:BO:61:ARG:HH21	35:BO:61:ARG:CB	1.73	1.02
29:DF:89:VAL:CG1	29:DF:90:PHE:H	1.65	1.02
2:CE:16:HIS:HD2	2:CE:209:ARG:HB3	1.21	1.02
25:DA:2580:U:H4'	28:DE:130:GLY:HA3	1.38	1.02
35:DO:61:ARG:HH21	35:DO:61:ARG:CB	1.73	1.02
1:AA:1004:A:H1'	1:AA:1036:G:N1	1.75	1.02
2:AE:32:ILE:HD11	2:AE:40:HIS:HB3	1.39	1.02
23:AC:76:C:H5"	23:AC:77:A:OP2	1.60	1.02
25:BA:2309:A:C2'	25:BA:2310:A:C5'	2.35	1.02
39:BR:36:GLU:HG3	39:BR:41:ARG:HD2	1.42	1.02
25:DA:882:G:H1	25:DA:894:C:N4	1.57	1.02
41:D2:76:LYS:HB3	41:D2:79:VAL:HG21	1.38	1.02
52:D6:41:PRO:HD2	52:D6:45:LYS:O	1.59	1.02
51:D5:4:HIS:CB	51:D5:5:PRO:CD	2.30	1.01
1:AA:1182:G:H4'	1:AA:1183:A:H5'	1.39	1.01
27:DD:35:LYS:HE3	27:DD:64:ILE:C	1.85	1.01
1:AA:1446:A:H4'	1:AA:1446:A:OP1	1.58	1.01
2:CE:74:LYS:NZ	2:CE:205:ASP:O	1.92	1.01
25:DA:672:C:C2'	25:DA:673:C:H5"	1.89	1.01
28:DE:46:ALA:HB1	28:DE:82:ARG:H	1.18	1.01
36:DP:24:GLY:HA3	36:DP:25:ASP:HB3	1.37	1.01
39:DR:55:ASN:H	39:DR:59:THR:HG22	1.23	1.01
40:D1:91:ASP:OD2	40:D1:96:ALA:HB2	1.58	1.01
52:D6:25:LYS:HB3	54:D8:34:TRP:CZ3	1.95	1.01
4:AG:65:ARG:NH1	4:AG:70:ILE:O	1.94	1.01
25:BA:993:G:OP1	40:B1:50:ARG:NH2	1.94	1.01
28:BE:4:ILE:CD1	28:BE:28:ALA:HB1	1.90	1.01
28:DE:134:ILE:HD12	28:DE:134:ILE:O	1.58	1.01
36:DP:26:TYR:CD1	36:DP:139:GLU:HG2	1.90	1.01
43:DT:8:ILE:HD11	43:DT:43:VAL:HG12	1.42	1.01
25:BA:2467:C:H2'	25:BA:2468:G:H5'	1.07	1.01
47:BZ:86:SER:N	47:BZ:87:PRO:HD2	1.69	1.01
1:AA:56:U:H4'	32:DK:82:ARG:HH21	1.23	1.00
25:BA:607:U:H3	25:BA:621:A:H2	1.07	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:46:ARG:HH11	29:BF:46:ARG:HG2	1.26	1.00
36:DP:75:THR:HB	36:DP:88:GLY:HA3	1.41	1.00
25:BA:2404:C:H1'	35:BO:67:MET:CE	1.92	1.00
25:BA:2415:G:H4'	35:BO:67:MET:H	1.19	1.00
35:BO:64:LYS:CB	54:B8:25:MET:HG3	1.90	1.00
25:DA:1012:U:N3	25:DA:1143:A:N1	2.09	1.00
28:BE:27:LEU:HD13	39:BR:1:MET:CE	1.90	1.00
28:BE:50:GLY:HA2	28:BE:77:ILE:HA	1.42	1.00
48:BW:50:ILE:HD12	48:BW:51:ARG:H	1.23	1.00
1:CA:328:C:H2'	1:CA:328:C:O2	1.61	1.00
27:DD:35:LYS:CE	27:DD:104:TYR:HB2	1.90	1.00
39:DR:26:ASP:HB2	39:DR:91:ARG:HA	1.43	1.00
47:BZ:85:LEU:C	47:BZ:87:PRO:CD	2.33	1.00
41:D2:85:LYS:HG3	41:D2:87:HIS:N	1.75	1.00
25:BA:882:G:H2'	25:BA:883:G:C8	1.97	1.00
51:D5:36:CYS:SG	51:D5:49:CYS:HB3	2.00	1.00
25:BA:1105:U:H2'	25:BA:1106:G:H8	1.25	1.00
25:BA:1728:G:H3'	25:BA:1729:A:C5'	1.91	1.00
28:BE:81:ILE:HG22	28:BE:84:PHE:CB	1.92	1.00
1:CA:1160:G:H1	1:CA:1177:G:N2	1.60	1.00
35:DO:64:LYS:CD	54:D8:25:MET:SD	2.50	1.00
1:AA:820:U:H4'	1:AA:821:G:OP2	1.60	1.00
25:BA:2317:C:C2'	25:BA:2318:G:H5'	1.92	1.00
25:BA:1689:A:H62	25:BA:1698:A:H2	1.05	0.99
1:AA:1124:G:H3'	1:AA:1145:C:H41	1.25	0.99
25:DA:1332:G:N2	25:DA:1609:A:O2'	1.95	0.99
22:AB:7:G:H3'	22:AB:8:U:H5'	1.43	0.99
25:DA:2394:C:OP1	35:DO:62:LEU:HB2	1.62	0.99
41:D2:83:ARG:CD	41:D2:83:ARG:H	1.74	0.99
13:AP:65:LYS:HB3	50:B4:50:VAL:HG11	1.41	0.99
25:BA:885:C:C2	25:BA:890:A:N6	2.30	0.99
51:B5:4:HIS:HB3	51:B5:5:PRO:HD3	1.44	0.99
1:AA:1160:G:N1	1:AA:1177:G:N2	2.08	0.99
16:AS:20:VAL:CG2	16:AS:32:TYR:CG	2.44	0.99
29:DF:24:LEU:HD12	29:DF:25:PRO:HD3	1.43	0.99
33:DM:97:ARG:HH11	33:DM:97:ARG:HG2	1.24	0.99
36:DP:66:ILE:HD12	36:DP:67:ARG:H	0.86	0.99
36:DP:64:ILE:HA	36:DP:106:VAL:HG12	1.42	0.99
38:DQ:78:LEU:HD11	38:DQ:107:GLU:HB3	1.44	0.99
27:BD:35:LYS:HD3	27:BD:63:ARG:CB	1.92	0.99
28:BE:201:THR:HG22	28:BE:203:LYS:H	1.25	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:35:LYS:HB3	27:DD:63:ARG:HA	1.41	0.99
25:BA:2577:A:H5"	25:BA:2578:G:H5'	1.45	0.98
28:BE:79:ARG:CD	28:BE:197:ILE:CG2	2.41	0.98
41:B2:47:VAL:CG2	41:B2:48:GLY:H	1.75	0.98
25:DA:273(C):C:H42	25:DA:363(C):G:H1	1.10	0.98
25:DA:1826:G:H4'	27:DD:242:ARG:HH21	1.26	0.98
45:BV:6:LYS:HA	45:BV:60:GLU:HB2	1.43	0.98
22:CB:87:A:H8	25:DA:2583:G:H21	1.00	0.98
4:CG:108:LEU:HD21	4:CG:183:GLY:HA3	1.44	0.98
25:DA:2422:A:H4'	25:DA:2423:U:OP1	1.62	0.98
48:DW:14:ARG:HG3	48:DW:15:LYS:HE3	1.42	0.98
12:AO:18:VAL:HG23	12:AO:19:ARG:H	1.28	0.98
25:BA:1379:A:H1'	25:BA:1380:G:OP1	1.64	0.98
46:B3:40:GLN:NE2	46:B3:44:ARG:H	1.60	0.98
52:B6:47:THR:HG22	52:B6:48:VAL:N	1.75	0.98
1:AA:791:G:H2'	1:AA:792:A:H5'	1.43	0.98
11:AN:40:ILE:HG22	11:AN:75:TYR:HD2	1.27	0.98
25:DA:2275:C:O2'	36:DP:84:GLY:HA3	1.61	0.98
35:BO:65:ARG:HH21	54:B8:15:LYS:HB2	1.29	0.98
25:DA:2470:G:OP1	36:DP:56:ARG:NH2	1.96	0.98
45:DV:144:LEU:HD12	45:DV:144:LEU:O	1.64	0.98
2:AE:96:ARG:H	2:AE:96:ARG:HD2	1.29	0.98
29:BF:29:ASN:H	29:BF:112:MET:CE	1.77	0.98
1:AA:975:A:H4'	1:AA:976:G:H5"	1.43	0.98
20:AW:26:ASN:ND2	20:AW:26:ASN:H	1.52	0.98
1:CA:992:U:H3	1:CA:1044:A:H62	1.08	0.98
1:AA:838:G:H1	1:AA:848:C:H42	1.09	0.97
25:BA:883:G:H1	25:BA:893:C:N4	1.61	0.97
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.46	0.97
35:DO:64:LYS:HB2	54:D8:25:MET:HG3	1.44	0.97
20:AW:10:LEU:CD2	20:AW:12:ALA:CB	2.41	0.97
23:AC:17:C:C3'	23:AC:18:C:H5"	1.94	0.97
31:BH:30:LYS:HD2	31:BH:81:GLU:H	1.27	0.97
25:DA:1012:U:C2	25:DA:1143:A:C2	2.52	0.97
44:DU:96:ILE:HG12	44:DU:101:LYS:HG3	1.41	0.97
41:D2:35:LEU:HG	41:D2:37:VAL:HG11	1.46	0.97
41:D2:81:TYR:C	41:D2:82:ARG:HG3	1.88	0.97
52:D6:43:CYS:O	52:D6:44:ARG:HB2	1.63	0.97
47:DZ:87:PRO:HA	47:DZ:90:ILE:HG23	1.47	0.97
35:DO:19:VAL:HG23	35:DO:27:HIS:HB3	0.97	0.97
33:BM:42:TRP:HA	33:BM:48:MET:CE	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:73:ALA:HB2	30:BG:82:LEU:HD21	1.44	0.97
36:DP:66:ILE:O	36:DP:67:ARG:HG3	1.65	0.97
54:D8:49:VAL:C	54:D8:50:LEU:CD1	2.38	0.97
25:BA:67:U:H3	25:BA:74:A:H2	0.99	0.97
25:BA:654(M):C:H2'	25:BA:654(N):G:C8	2.00	0.97
29:DF:67:GLN:HG3	29:DF:67:GLN:O	1.62	0.97
36:BP:76:LYS:N	36:BP:88:GLY:HA3	1.79	0.96
25:DA:2638:G:P	28:DE:82:ARG:HH22	1.86	0.96
3:CF:119:ARG:HH22	3:CF:140:ARG:HG2	1.28	0.96
1:AA:748:C:H4'	1:AA:749:C:O5'	1.62	0.96
1:CA:1330:U:H4'	13:CP:23:TYR:CE2	2.00	0.96
30:DG:161:THR:HG22	30:DG:163:ALA:H	1.30	0.96
52:D6:41:PRO:CG	52:D6:45:LYS:O	2.14	0.96
35:BO:64:LYS:HD2	54:B8:25:MET:HE2	1.47	0.96
27:DD:35:LYS:HD2	27:DD:104:TYR:HD1	1.27	0.96
41:B2:47:VAL:HG22	41:B2:48:GLY:H	1.29	0.96
26:DB:74:U:C2'	26:DB:75:G:H5"	1.95	0.96
34:DN:63:VAL:HG12	34:DN:106:LEU:HD11	1.47	0.96
52:B6:47:THR:CG2	52:B6:48:VAL:H	1.78	0.96
4:AG:22:LYS:HB2	4:AG:26:CYS:HB2	1.48	0.96
36:BP:68:ILE:HD13	36:BP:103:MET:HG2	1.46	0.96
52:D6:45:LYS:HE3	52:D6:45:LYS:HA	1.48	0.96
25:BA:1138:G:H21	33:BM:106:MET:HE3	1.29	0.96
25:DA:747:U:C5	51:D5:3:LYS:HB2	2.00	0.96
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.48	0.96
39:BR:52:ILE:HD13	39:BR:61:PHE:HB3	1.44	0.96
28:DE:48:GLN:O	28:DE:49:LEU:HG	1.65	0.95
44:DU:13:VAL:HG21	44:DU:72:VAL:HB	1.48	0.95
25:DA:2712(A):A:H5"	25:DA:2713:A:OP2	1.64	0.95
35:DO:64:LYS:CB	54:D8:25:MET:CG	2.40	0.95
54:B8:36:LYS:HB2	54:B8:40:GLU:HG2	1.48	0.95
23:CD:59:A:H1'	23:CD:61:U:C5	2.02	0.95
25:DA:2681:C:H5	25:DA:2725:A:N6	1.61	0.95
25:DA:1012:U:O4	33:DM:25:ARG:HA	1.67	0.95
30:BG:121:ASN:HD22	30:BG:123:ASN:H	1.07	0.95
35:BO:64:LYS:HD2	54:B8:25:MET:CE	1.95	0.95
35:BO:64:LYS:HB3	54:B8:25:MET:HG3	1.43	0.95
25:DA:1729:A:O2'	25:DA:1731:G:N2	2.00	0.95
25:DA:2777:G:H5"	25:DA:2778:A:H5'	1.46	0.95
26:DB:3:C:H42	26:DB:117:G:H1	1.09	0.95
30:DG:104:GLU:HG2	50:D4:23:GLU:HG2	1.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DH:7:LEU:HD12	31:DH:8:PRO:HD3	1.45	0.95
52:B6:41:PRO:HD2	52:B6:46:HIS:N	1.81	0.95
1:CA:141:A:H1'	1:CA:182:U:O2	1.66	0.95
27:DD:43:ARG:NH1	27:DD:44:ASN:ND2	2.15	0.95
52:D6:41:PRO:CD	52:D6:45:LYS:O	2.15	0.95
1:AA:1160:G:H1	1:AA:1177:G:H22	1.05	0.95
25:BA:71:A:H2	43:BT:31:HIS:HE1	0.99	0.95
25:DA:226:G:H21	25:DA:228:A:H62	1.15	0.95
41:D2:69:LYS:HG3	41:D2:86:GLY:HA3	1.44	0.95
27:BD:35:LYS:HD2	27:BD:104:TYR:CE1	2.01	0.95
1:CA:804:U:H5"	1:CA:805:C:OP2	1.67	0.94
25:DA:1022:G:O2'	25:DA:1023:U:OP2	1.85	0.94
25:DA:1537:C:H2'	25:DA:1538:G:C8	2.02	0.94
27:DD:242:ARG:H	27:DD:242:ARG:HD2	1.32	0.94
25:BA:1798:U:H5"	27:BD:259:THR:HG22	1.46	0.94
22:CB:49:C:H2'	22:CB:50:A:O4'	1.66	0.94
25:DA:586:A:H5'	29:DF:89:VAL:HG21	1.46	0.94
25:BA:330:A:HO2'	25:BA:331:A:H8	1.02	0.94
28:BE:3:GLY:HA3	28:BE:81:ILE:HG13	1.47	0.94
31:BH:159:GLU:CG	31:BH:170:ARG:NH1	2.30	0.94
32:BK:92:VAL:HG13	32:BK:120:ILE:HG23	1.47	0.94
25:DA:1062:G:H1	25:DA:1076:C:H42	1.05	0.94
25:DA:2392:A:H8	35:DO:60:MET:HB2	1.32	0.94
38:DQ:24:LEU:H	38:DQ:24:LEU:HD22	1.31	0.94
25:BA:2287:A:H62	25:BA:2344:U:H3	0.95	0.94
35:BO:64:LYS:HB3	54:B8:25:MET:CG	1.97	0.94
47:BZ:82:LEU:H	47:BZ:82:LEU:CD2	1.79	0.94
1:CA:632:A:H1'	1:CA:633:G:OP2	1.65	0.94
27:BD:35:LYS:HG2	27:BD:64:ILE:H	1.31	0.94
31:BH:59:ARG:HH11	31:BH:59:ARG:HG3	1.29	0.94
1:CA:1176:A:N6	1:CA:1177:G:C6	2.35	0.94
31:DH:153:LYS:N	31:DH:154:PRO:CD	2.30	0.94
35:DO:61:ARG:NH2	35:DO:61:ARG:CB	2.30	0.94
25:BA:676:A:H8	25:BA:2069:G:H21	1.16	0.94
25:BA:1021:A:H3'	25:BA:1022:G:H5"	1.48	0.94
25:BA:2210:G:H3'	25:BA:2211:G:C8	2.02	0.94
28:BE:4:ILE:HD13	28:BE:28:ALA:CB	1.97	0.94
25:DA:528:A:C2	25:DA:2043:C:H5'	2.03	0.94
16:AS:16:HIS:O	16:AS:39:TYR:O	1.85	0.94
23:AD:6:G:N2	23:AD:69:C:N3	2.15	0.94
47:BZ:86:SER:N	47:BZ:87:PRO:CD	2.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1139:G:H22	1:CA:1143:G:H1	1.03	0.94
25:DA:1689:A:H62	25:DA:1698:A:H2	1.09	0.94
29:DF:89:VAL:HG12	29:DF:90:PHE:H	0.79	0.94
41:D2:82:ARG:HH11	41:D2:82:ARG:CG	1.79	0.94
46:B3:40:GLN:HE22	46:B3:44:ARG:H	1.00	0.94
25:DA:528:A:H2	25:DA:2043:C:H5'	1.33	0.94
35:DO:64:LYS:HD2	54:D8:25:MET:SD	2.08	0.94
41:D2:83:ARG:N	41:D2:83:ARG:CD	2.30	0.94
1:AA:235:C:H5'	17:AT:70:ARG:HG2	1.48	0.94
13:AP:15:VAL:O	13:AP:19:LEU:HD23	1.66	0.94
25:DA:545:G:H21	25:DA:548:A:H62	1.11	0.94
25:DA:2420:C:H41	54:D8:31:HIS:HB3	1.31	0.94
22:AB:37:G:H1	24:A1:19:U:H3	1.01	0.93
25:DA:1257:C:O2'	29:DF:84:VAL:HG13	1.64	0.93
38:DQ:88:ASP:O	38:DQ:89:ARG:HB3	1.64	0.93
31:BH:83:TYR:HB3	31:BH:135:GLY:H	1.31	0.93
25:DA:1434:A:H61	25:DA:1558:A:H62	1.14	0.93
27:BD:182:LEU:H	27:BD:272:ALA:HB2	1.32	0.93
34:DN:47:ILE:HG13	34:DN:48:PRO:HD2	1.50	0.93
3:AF:40:ARG:O	3:AF:44:GLU:HG2	1.68	0.93
35:BO:61:ARG:O	35:BO:62:LEU:HD23	1.68	0.93
11:CN:29:ILE:HG22	11:CN:44:SER:HB2	1.50	0.93
36:DP:79:LEU:O	36:DP:79:LEU:HD12	1.69	0.93
42:BS:95:ILE:O	42:BS:95:ILE:HG13	1.68	0.93
43:BT:49:VAL:HG11	43:BT:83:VAL:HG22	1.50	0.93
25:DA:2303:G:C2'	25:DA:2304:G:H5'	1.98	0.93
25:DA:2415:G:H4'	35:DO:67:MET:N	1.84	0.93
27:DD:166:GLN:HA	27:DD:166:GLN:HE21	1.30	0.93
22:AB:7:G:H3'	22:AB:8:U:C5'	1.99	0.93
25:BA:2439:A:C8	25:BA:2439:A:H5'	2.04	0.93
10:CM:79:ARG:O	10:CM:83:GLU:HB2	1.67	0.93
25:DA:2275:C:O2'	36:DP:84:GLY:CA	2.16	0.93
20:AW:71:THR:HG22	20:AW:72:LEU:H	1.28	0.93
25:BA:2373:G:H1	25:BA:2380:C:H42	1.16	0.93
30:BG:96:ARG:HH11	30:BG:96:ARG:HG2	1.30	0.93
33:BM:46:VAL:HG11	33:BM:48:MET:HG3	1.50	0.93
25:DA:90:U:HO2'	25:DA:91:A:H8	1.16	0.93
28:BE:27:LEU:HD23	28:BE:27:LEU:O	1.68	0.92
28:BE:78:LEU:HD12	28:BE:79:ARG:H	1.32	0.92
27:DD:43:ARG:HH11	27:DD:44:ASN:HD21	1.13	0.92
54:D8:35:GLN:O	54:D8:36:LYS:HG2	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:88:ASP:O	38:BQ:89:ARG:HB2	1.68	0.92
45:DV:146:ILE:HG13	45:DV:147:GLY:N	1.84	0.92
25:BA:71:A:H2	43:BT:31:HIS:CE1	1.87	0.92
27:DD:49:ILE:HD11	27:DD:52:ARG:HA	1.48	0.92
53:B7:8:ASN:C	53:B7:8:ASN:HD22	1.78	0.92
32:DK:144:VAL:HG13	32:DK:145:VAL:HG23	1.50	0.92
36:DP:26:TYR:HD1	36:DP:139:GLU:HG3	1.30	0.92
1:AA:201:C:H42	1:AA:216:G:H1	1.10	0.92
1:CA:235:C:H5'	17:CT:70:ARG:HG2	1.49	0.92
1:CA:1004:A:H8	1:CA:1036:G:H22	1.15	0.92
25:DA:1300:U:H4'	25:DA:1301:A:C5'	2.00	0.92
28:DE:47:VAL:HG12	28:DE:48:GLN:N	1.85	0.92
25:DA:2392:A:H2	25:DA:2424:C:H42	1.08	0.92
28:BE:23:VAL:HG11	28:BE:173:VAL:HG21	1.50	0.92
33:BM:46:VAL:CG1	33:BM:47:ALA:N	2.33	0.92
35:BO:15:ARG:HG2	35:BO:15:ARG:NH1	1.76	0.92
22:AB:87:A:H8	25:BA:2583:G:H21	0.99	0.92
31:DH:153:LYS:N	31:DH:154:PRO:HD2	1.85	0.92
35:DO:19:VAL:HG23	35:DO:27:HIS:CG	2.04	0.92
25:BA:2467:C:H2'	25:BA:2468:G:C5'	1.98	0.92
1:CA:1160:G:O6	1:CA:1181:G:O6	1.87	0.92
25:DA:1678:G:H22	25:DA:1989:G:H22	1.16	0.92
28:DE:46:ALA:HB2	28:DE:82:ARG:CB	1.99	0.92
38:DQ:24:LEU:O	38:DQ:85:VAL:HG13	1.68	0.92
41:D2:71:LEU:N	41:D2:86:GLY:HA2	1.85	0.92
28:BE:23:VAL:HG12	28:BE:185:LYS:HA	1.50	0.91
35:DO:61:ARG:O	35:DO:62:LEU:HD23	1.68	0.91
25:BA:1434:A:H61	25:BA:1558:A:N6	1.66	0.91
26:DB:39:A:N6	50:D4:1:MET:HB3	1.85	0.91
41:D2:82:ARG:HG2	41:D2:82:ARG:NH1	1.63	0.91
35:DO:15:ARG:HG2	35:DO:15:ARG:NH1	1.76	0.91
19:AV:41:VAL:HB	19:AV:42:PRO:HA	1.53	0.91
1:CA:1443:G:H3'	1:CA:1446:A:H5"	1.50	0.91
25:DA:330:A:H2	25:DA:1210:A:HO2'	1.09	0.91
4:AG:122:ARG:HH11	4:AG:122:ARG:HG2	1.35	0.91
30:BG:161:THR:HG22	30:BG:163:ALA:H	1.35	0.91
1:CA:345:C:H1'	1:CA:346:G:C2	2.05	0.91
27:DD:35:LYS:CD	27:DD:104:TYR:CD1	2.54	0.91
25:BA:1077:A:H3'	25:BA:1078:U:C5'	1.98	0.91
28:BE:81:ILE:HG21	28:BE:84:PHE:CB	1.99	0.91
25:DA:259:G:H21	25:DA:621:A:H8	1.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:7:LYS:HG3	49:DX:34:GLU:HG3	1.53	0.91
1:AA:827:U:H5"	1:AA:828:A:OP2	1.70	0.91
35:BO:50:ARG:HD3	54:B8:7:HIS:HE2	1.35	0.91
5:CH:83:GLU:HB3	5:CH:88:LYS:HG3	1.52	0.91
28:DE:45:THR:HG22	28:DE:45:THR:O	1.70	0.91
33:BM:67:LEU:O	33:BM:88:GLU:HG2	1.71	0.91
44:BU:96:ILE:HG23	44:BU:101:LYS:HG2	1.52	0.91
25:DA:1005:C:C1'	25:DA:1143:A:C2	2.54	0.91
25:BA:483:A:H4'	44:BU:49:VAL:HA	1.51	0.90
25:BA:905:U:H2'	25:BA:906:G:H5"	1.53	0.90
28:BE:79:ARG:HD2	28:BE:197:ILE:HG21	0.92	0.90
32:BK:106:GLY:O	32:BK:107:VAL:HG22	1.69	0.90
42:BS:94:ASP:O	42:BS:95:ILE:HG22	1.71	0.90
2:CE:42:ILE:HD11	2:CE:202:PRO:HB2	1.52	0.90
23:CD:15:G:H2'	23:CD:60:A:H2	1.35	0.90
25:DA:2393:A:H5'	35:DO:62:LEU:CB	1.99	0.90
36:DP:26:TYR:HE1	36:DP:139:GLU:HB2	1.24	0.90
1:AA:992:U:H4'	1:AA:993:G:O5'	1.69	0.90
25:BA:2467:C:C2'	25:BA:2468:G:C5'	2.46	0.90
35:BO:61:ARG:NH2	35:BO:61:ARG:CB	2.30	0.90
40:B1:92:ARG:O	40:B1:94:ASN:N	2.03	0.90
2:CE:111:ARG:HH11	2:CE:111:ARG:HG2	1.36	0.90
45:DV:175:VAL:HG22	45:DV:176:PRO:HD3	1.51	0.90
29:BF:9:ILE:HD11	29:BF:125:LEU:HG	1.53	0.90
2:CE:137:ARG:HH12	2:CE:140:HIS:HB2	1.37	0.90
25:BA:1496:A:H8	25:BA:1577:C:HO2'	0.92	0.90
28:BE:35:GLN:HG3	28:BE:36:ARG:H	1.33	0.90
1:CA:1321:C:H41	1:CA:1322:C:H41	1.09	0.90
2:CE:153:ARG:HG3	2:CE:154:LEU:H	1.35	0.90
9:CL:4:TYR:HB2	9:CL:19:LEU:HB2	1.50	0.90
30:DG:47:LYS:HG2	30:DG:48:GLU:N	1.86	0.90
25:DA:885:C:C4	25:DA:890:A:N6	2.40	0.90
25:DA:1024:G:H3'	25:DA:1025:G:H5"	1.51	0.90
39:DR:54:ARG:HH11	39:DR:54:ARG:CG	1.83	0.90
25:BA:1525:G:H2'	25:BA:1526:G:H8	1.37	0.90
4:CG:30:LYS:HB2	4:CG:35:ARG:HD2	1.53	0.90
25:DA:1652:A:H62	37:D0:11:ASN:HD21	1.11	0.90
30:DG:64:THR:HG23	30:DG:66:GLN:H	1.35	0.90
36:DP:11:LYS:HD3	36:DP:87:LYS:HG2	1.51	0.90
37:D0:87:TYR:HE1	37:D0:117:VAL:HG12	1.37	0.90
1:AA:1239:A:H62	1:AA:1299:A:H62	1.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2402:C:O2'	25:BA:2403:C:OP1	1.88	0.90
42:BS:13:SER:HB3	42:BS:16:LYS:HD3	1.53	0.90
23:CC:17:C:H3'	23:CC:18:C:C5'	2.02	0.90
36:DP:79:LEU:HD12	36:DP:79:LEU:C	1.97	0.90
4:AG:108:LEU:HB3	4:AG:110:PHE:HE1	1.37	0.90
1:CA:1004:A:H5"	1:CA:1025:U:O4	1.72	0.90
23:CC:21:U:H2'	23:CC:21:U:O2	1.70	0.90
25:DA:1141:U:OP2	33:DM:63:THR:OG1	1.89	0.90
42:DS:9:TYR:H	42:DS:102:HIS:HD2	1.20	0.90
52:D6:11:LEU:HD23	52:D6:26:ASN:HB3	1.54	0.90
2:AE:8:LYS:HE3	2:AE:11:LEU:HB2	1.52	0.90
4:AG:19:LEU:H	4:AG:19:LEU:HD22	1.37	0.90
25:BA:2394:C:P	35:BO:62:LEU:HB2	2.11	0.90
1:AA:686:U:H1'	11:AN:42:TRP:HE1	1.34	0.90
28:BE:75:VAL:HG23	28:BE:76:ARG:H	1.36	0.90
31:BH:4:ILE:HG21	31:BH:6:ARG:NH1	1.85	0.90
1:CA:560:U:O2'	1:CA:561:U:OP2	1.89	0.90
25:DA:2795:G:H3'	25:DA:2797:U:H5"	1.54	0.90
11:AN:17:GLY:HA3	11:AN:77:MET:HE1	1.52	0.89
20:AW:24:LEU:O	20:AW:24:LEU:HD12	1.70	0.89
1:CA:1129:C:H4'	1:CA:1130:A:H5'	1.54	0.89
9:CL:63:ILE:HD11	9:CL:81:ILE:HD11	1.50	0.89
26:DB:15:A:H5'	26:DB:16:G:C8	2.07	0.89
28:BE:79:ARG:NE	28:BE:197:ILE:CG2	2.35	0.89
23:CD:57:C:H42	25:DA:2112:G:H22	1.19	0.89
25:DA:71:A:H2	43:DT:31:HIS:CE1	1.89	0.89
25:DA:1496:A:H8	25:DA:1577:C:HO2'	0.91	0.89
25:DA:2394:C:P	35:DO:62:LEU:HB2	2.12	0.89
45:DV:175:VAL:O	45:DV:177:PRO:HD3	1.70	0.89
1:CA:1305:G:HO2'	1:CA:1306:A:H8	0.90	0.89
44:BU:97:ARG:HE	44:BU:98:VAL:HG23	1.38	0.89
1:CA:64:G:H4'	1:CA:65:U:O5'	1.72	0.89
38:DQ:24:LEU:O	38:DQ:85:VAL:CG1	2.20	0.89
1:AA:1004:A:H8	1:AA:1036:G:H1	1.20	0.89
4:AG:33:MET:HE2	4:AG:37:PRO:HA	1.55	0.89
13:AP:108:ARG:HH11	13:AP:108:ARG:HG3	1.37	0.89
38:BQ:34:HIS:HB2	38:BQ:36:TYR:HE1	1.37	0.89
25:DA:1689:A:N6	25:DA:1698:A:H2	1.71	0.89
25:DA:1899:G:N2	25:DA:1902:C:H5	1.70	0.89
35:DO:65:ARG:HG3	35:DO:65:ARG:NH1	1.79	0.89
30:BG:67:LYS:HE2	50:B4:6:HIS:HE1	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:83:ARG:H	30:BG:86:MET:HE2	1.35	0.89
33:BM:46:VAL:HG12	33:BM:47:ALA:H	1.35	0.89
50:B4:16:CYS:SG	50:B4:18:CYS:N	2.45	0.89
1:CA:1004:A:H1'	1:CA:1036:G:H1	1.32	0.89
23:CD:27:G:O6	23:CD:45:A:N6	2.06	0.89
35:DO:64:LYS:HB3	54:D8:25:MET:HG2	1.55	0.89
45:BV:29:TYR:HE2	45:BV:87:ASP:HB2	1.38	0.89
13:CP:49:THR:HG22	13:CP:51:ALA:H	1.36	0.89
39:DR:50:ILE:HD11	39:DR:102:ILE:HD11	1.53	0.89
1:AA:1004:A:H1'	1:AA:1036:G:O6	1.71	0.89
27:BD:270:ILE:O	27:BD:271:ILE:HG12	1.71	0.89
44:BU:76:CYS:SG	44:BU:77:PRO:HD3	2.12	0.89
12:CO:46:LYS:HZ3	12:CO:47:LYS:HD3	1.38	0.89
27:BD:35:LYS:HG2	27:BD:64:ILE:N	1.88	0.89
52:D6:44:ARG:HG3	52:D6:44:ARG:HH11	1.35	0.89
1:AA:1145:C:H5"	1:AA:1146:A:OP1	1.72	0.88
2:AE:204:ASN:ND2	2:AE:206:ASP:H	1.70	0.88
28:BE:35:GLN:HB3	28:BE:48:GLN:CG	2.02	0.88
7:CJ:16:LEU:HD12	9:CL:42:ARG:HA	1.54	0.88
25:DA:1899:G:N2	25:DA:1902:C:C5	2.40	0.88
28:DE:47:VAL:CG1	28:DE:48:GLN:N	2.35	0.88
36:DP:29:PHE:HB3	36:DP:65:PHE:CE1	2.08	0.88
25:BA:780:G:H21	25:BA:783:A:H62	0.97	0.88
25:BA:1250:G:N7	35:BO:18:ARG:NH2	2.21	0.88
31:BH:4:ILE:H	31:BH:4:ILE:HD13	1.37	0.88
43:BT:84:ALA:HB1	43:BT:85:PRO:HD2	1.55	0.88
25:DA:1140:C:H1'	25:DA:1143:A:H8	1.37	0.88
27:DD:35:LYS:CD	27:DD:104:TYR:HD1	1.86	0.88
28:DE:197:ILE:HD11	28:DE:199:ARG:HH21	1.38	0.88
1:AA:1321:C:H3'	1:AA:1322:C:H5"	1.54	0.88
23:AD:19:G:H1'	23:AD:59:A:C2	2.08	0.88
33:BM:96:GLU:O	33:BM:97:ARG:HB2	1.71	0.88
54:B8:22:VAL:HB	54:B8:53:PRO:HB3	1.55	0.88
1:CA:963:G:H21	10:CM:55:LYS:CD	1.85	0.88
1:CA:1298:C:H41	7:CJ:114:ARG:HB3	1.34	0.88
25:DA:1464:C:O2'	25:DA:1528:A:H8	1.55	0.88
25:DA:2255:G:N2	36:DP:85:LYS:HE2	1.87	0.88
28:DE:82:ARG:O	28:DE:83:ASP:HB2	1.73	0.88
25:BA:860:U:C5	25:BA:917:A:C2	2.60	0.88
25:BA:1884:A:C2'	25:BA:1885:A:H5"	2.01	0.88
47:BZ:82:LEU:CD2	47:BZ:82:LEU:N	2.34	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1330:U:H4'	13:CP:23:TYR:HE2	1.38	0.88
25:DA:2191:G:O2'	25:DA:2192:G:OP1	1.92	0.88
42:BS:9:TYR:H	42:BS:102:HIS:HD2	1.21	0.88
53:B7:8:ASN:HD21	53:B7:11:LYS:H	0.95	0.88
25:DA:67:U:H3	25:DA:74:A:H2	1.21	0.88
26:DB:15:A:H5'	26:DB:16:G:H8	1.38	0.88
16:AS:22:THR:OG1	16:AS:32:TYR:HA	1.74	0.88
25:BA:1056:G:H21	25:BA:1103:A:H62	1.16	0.88
29:BF:29:ASN:H	29:BF:112:MET:HE3	1.36	0.88
5:CH:91:LEU:HD12	5:CH:120:THR:HG22	1.52	0.88
25:DA:780:G:H21	25:DA:783:A:H62	1.16	0.88
36:DP:26:TYR:CD1	36:DP:139:GLU:HB2	2.09	0.88
41:D2:85:LYS:HG3	41:D2:86:GLY:H	1.36	0.88
16:AS:19:ILE:HG22	16:AS:19:ILE:O	1.73	0.88
20:AW:100:ILE:HG13	20:AW:102:GLY:H	1.39	0.88
27:BD:181:GLU:HA	27:BD:272:ALA:HB1	1.54	0.88
41:B2:59:ALA:HB2	41:B2:96:ILE:HD13	1.53	0.88
47:BZ:82:LEU:N	47:BZ:82:LEU:HD22	1.87	0.88
1:CA:973:G:H1'	10:CM:55:LYS:HE2	1.56	0.88
1:CA:1139:G:N2	1:CA:1143:G:H1	1.72	0.88
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.09	0.88
7:CJ:113:GLU:HB2	7:CJ:119:ARG:HG2	1.56	0.88
23:CC:60:A:H2'	23:CC:61:U:C5'	2.04	0.88
38:DQ:88:ASP:OD2	38:DQ:90:GLY:N	2.07	0.88
54:D8:34:TRP:CG	54:D8:35:GLN:N	2.40	0.88
27:BD:186:HIS:HD2	27:BD:188:GLU:H	1.20	0.88
22:CB:39:U:H2'	22:CB:40:G:H8	1.39	0.88
25:DA:882:G:H1	25:DA:894:C:H42	0.93	0.88
25:DA:2470:G:P	36:DP:56:ARG:NH2	2.47	0.88
31:DH:102:ALA:HB1	31:DH:115:VAL:O	1.74	0.88
25:BA:443:A:N7	29:BF:45:ARG:HD2	1.89	0.88
1:CA:1321:C:N4	1:CA:1322:C:H41	1.71	0.88
5:CH:80:ILE:HD11	5:CH:138:ALA:HB1	1.54	0.88
23:CD:15:G:N2	23:CD:49:C:O2	2.07	0.88
15:AR:39:LEU:HD13	15:AR:56:LEU:HB2	1.57	0.87
27:BD:35:LYS:CD	27:BD:104:TYR:CD1	2.57	0.87
38:BQ:23:ARG:CD	38:BQ:85:VAL:O	2.20	0.87
49:BX:7:LYS:HG3	49:BX:34:GLU:HG2	1.55	0.87
4:CG:13:ARG:C	4:CG:15:GLU:H	1.82	0.87
25:DA:1138:G:H21	33:DM:106:MET:HE3	1.38	0.87
25:DA:1952:A:C5	34:DN:22:ILE:HD11	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1952:A:C6	34:DN:22:ILE:HD11	2.08	0.87
25:BA:2394:C:OP1	35:BO:62:LEU:HB2	1.74	0.87
28:BE:14:ILE:HG22	28:BE:15:PHE:H	0.73	0.87
31:BH:4:ILE:HG13	31:BH:6:ARG:NE	1.90	0.87
35:BO:65:ARG:HG3	35:BO:65:ARG:NH1	1.79	0.87
25:DA:2571:C:H5'	25:DA:2572:A:H5"	1.56	0.87
45:DV:108:PRO:CB	45:DV:143:GLY:HA2	2.05	0.87
1:AA:1128:C:HO2'	1:AA:1130:A:H8	1.17	0.87
10:AM:61:GLU:OE1	14:AQ:58:LYS:HE2	1.74	0.87
25:DA:676:A:H8	25:DA:2069:G:H21	1.18	0.87
27:DD:35:LYS:HE2	27:DD:104:TYR:CB	2.04	0.87
41:D2:28:GLU:O	41:D2:61:VAL:HG11	1.74	0.87
41:D2:70:ILE:HB	41:D2:86:GLY:O	1.74	0.87
16:AS:21:VAL:CG2	16:AS:34:GLU:O	2.22	0.87
25:BA:1024:G:H3'	25:BA:1025:G:H5"	1.56	0.87
25:BA:1689:A:N6	25:BA:1698:A:H2	1.71	0.87
25:BA:2309:A:O2'	25:BA:2310:A:H5"	1.73	0.87
25:BA:2845:G:H5"	39:BR:54:ARG:O	1.75	0.87
25:DA:1359:A:H62	25:DA:1372:U:H3	1.22	0.87
26:DB:3:C:N4	26:DB:117:G:H1	1.71	0.87
27:DD:69:ARG:NH2	27:DD:128:GLY:O	2.07	0.87
2:CE:236:TYR:HA	2:CE:239:VAL:HB	1.57	0.87
27:DD:35:LYS:NZ	27:DD:104:TYR:H	1.72	0.87
46:D3:23:VAL:HG13	46:D3:38:VAL:HG22	1.55	0.87
25:BA:2444:G:OP2	29:BF:68:LYS:HE3	1.75	0.87
28:BE:41:LYS:NZ	28:BE:41:LYS:CB	2.37	0.87
42:DS:65:LEU:HD13	42:DS:68:ARG:HD2	1.54	0.87
28:BE:51:PHE:O	28:BE:74:PRO:HB2	1.75	0.87
30:BG:83:ARG:CG	30:BG:86:MET:CE	2.48	0.87
25:BA:620:G:H4'	25:BA:621:A:C5'	2.03	0.87
48:BW:18:PRO:HA	48:BW:21:LEU:HB2	1.57	0.87
28:DE:38:THR:HG23	28:DE:40:GLU:H	1.36	0.87
52:D6:48:VAL:HG13	52:D6:49:HIS:H	0.75	0.87
25:BA:1803:A:O2'	27:BD:259:THR:HG21	1.74	0.87
35:BO:75:ILE:H	35:BO:75:ILE:HD13	1.38	0.87
53:B7:8:ASN:ND2	53:B7:11:LYS:H	1.72	0.87
4:CG:22:LYS:HB2	4:CG:26:CYS:HB2	1.57	0.87
16:CS:8:ARG:CG	16:CS:8:ARG:HH11	1.88	0.87
26:DB:40:U:O2	26:DB:45:A:N6	2.07	0.87
45:BV:19:ARG:NH1	45:BV:84:GLU:O	2.08	0.86
3:CF:84:ILE:HD11	3:CF:88:ARG:HH21	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CH:18:ARG:HD3	5:CH:25:ARG:HB3	1.57	0.86
23:CC:18:C:H2'	23:CC:18:C:O2	1.73	0.86
25:DA:2032:G:H21	28:DE:146:THR:HG23	1.37	0.86
28:DE:47:VAL:CG1	28:DE:48:GLN:H	1.87	0.86
1:AA:1028(B):C:H42	1:AA:1032(A):G:H1	1.24	0.86
28:BE:52:LEU:HB2	28:BE:75:VAL:HG21	1.55	0.86
43:BT:67:GLY:O	43:BT:69:TYR:N	2.07	0.86
25:DA:958:U:OP2	36:DP:14:ARG:NH1	2.08	0.86
28:DE:38:THR:OG1	28:DE:39:PRO:HD2	1.74	0.86
28:DE:47:VAL:O	28:DE:80:GLU:CA	2.22	0.86
52:D6:44:ARG:O	52:D6:45:LYS:HD2	1.74	0.86
25:DA:574:C:N3	28:DE:145:LYS:NZ	2.22	0.86
25:DA:1057:A:H2	25:DA:1081:U:H3	1.23	0.86
36:DP:59:ARG:O	36:DP:60:ARG:HB2	1.75	0.86
45:DV:108:PRO:HB2	45:DV:143:GLY:HA2	1.54	0.86
28:BE:38:THR:HG22	28:BE:45:THR:HG23	1.57	0.86
31:BH:171:LEU:C	31:BH:171:LEU:CD1	2.46	0.86
25:BA:855:G:O2'	46:B3:27:GLU:OE2	1.93	0.86
25:BA:1022:G:N2	25:BA:1023:U:O4	2.08	0.86
27:BD:30:GLU:HG3	27:BD:63:ARG:NH2	1.90	0.86
23:CC:60:A:C2'	23:CC:61:U:H5'	2.02	0.86
25:BA:2392:A:H8	35:BO:60:MET:HB2	1.38	0.86
1:CA:1277:C:HO2'	1:CA:1279:A:H8	1.23	0.86
7:CJ:16:LEU:HD11	9:CL:45:ALA:HB2	1.55	0.86
1:AA:547:A:OP1	4:AG:73:ARG:NH2	2.08	0.86
25:BA:593:G:H1'	54:B8:4:MET:HE1	1.58	0.86
47:BZ:82:LEU:H	47:BZ:82:LEU:HD23	1.40	0.86
2:CE:54:THR:HG23	2:CE:199:TYR:HB3	1.58	0.86
25:DA:2467:C:H4'	36:DP:123:HIS:CD2	2.10	0.86
35:DO:85:LEU:HA	35:DO:88:LEU:HB3	1.56	0.86
54:D8:49:VAL:O	54:D8:50:LEU:HG	1.74	0.86
31:BH:92:ILE:HD12	31:BH:92:ILE:H	1.40	0.86
19:CV:67:VAL:HG12	19:CV:68:GLY:H	1.38	0.86
25:DA:152:G:H1	25:DA:174:C:H42	1.15	0.86
25:DA:1459:G:H2'	25:DA:1460:A:H5'	1.56	0.86
41:D2:85:LYS:CG	41:D2:87:HIS:H	1.88	0.86
44:DU:97:ARG:HH21	44:DU:98:VAL:HB	1.39	0.86
25:BA:2790:A:H1'	25:BA:2893:G:O2'	1.76	0.86
43:DT:60:ARG:HH11	43:DT:60:ARG:HG2	1.40	0.86
16:AS:21:VAL:HG23	16:AS:34:GLU:O	1.75	0.86
25:DA:141:A:H8	25:DA:1595:G:H21	1.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:D6:45:LYS:HA	52:D6:45:LYS:CE	2.00	0.86
31:BH:59:ARG:HH11	31:BH:59:ARG:CG	1.88	0.85
33:BM:137:LYS:HG3	33:BM:138:LEU:H	1.40	0.85
25:DA:2720:U:N3	25:DA:2873:A:C2	2.44	0.85
22:AB:22:G:N2	22:AB:59:U:O4'	2.09	0.85
19:CV:22:LEU:O	19:CV:27:GLU:HA	1.77	0.85
24:C1:13:U:O2	24:C1:13:U:H2'	1.74	0.85
25:DA:1005:C:H1'	25:DA:1143:A:C2	2.11	0.85
25:BA:2137:C:H42	25:BA:2154:G:H1	1.22	0.85
45:BV:72:ARG:NH2	45:BV:97:GLU:O	2.10	0.85
4:CG:3:ARG:HH21	4:CG:5:ILE:HG12	1.41	0.85
25:DA:2875:C:H4'	39:DR:5:ALA:HB2	1.58	0.85
36:DP:24:GLY:CA	36:DP:25:ASP:HB2	1.97	0.85
1:AA:1453:G:O2'	20:AW:39:LYS:HD2	1.76	0.85
25:DA:1899:G:H22	25:DA:1902:C:N4	1.74	0.85
36:DP:26:TYR:HD1	36:DP:139:GLU:HG2	1.28	0.85
16:AS:18:ARG:HD3	16:AS:35:LYS:HE3	1.55	0.85
25:BA:49:A:C8	25:BA:120:U:H5	1.94	0.85
25:BA:2438:U:O3'	25:BA:2439:A:H3'	1.76	0.85
28:BE:181:LEU:HD21	39:BR:7:ILE:HG23	1.58	0.85
1:CA:1223:C:H5"	1:CA:1224:G:C5'	2.04	0.85
25:DA:2303:G:H2'	25:DA:2304:G:H5'	1.58	0.85
28:DE:76:ARG:HG2	28:DE:195:LEU:HD22	1.58	0.85
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.91	0.85
25:BA:2032:G:H21	28:BE:146:THR:HG23	1.40	0.85
2:CE:233:SER:HB3	2:CE:234:PRO:HD2	1.58	0.85
25:DA:1420:U:O2'	25:DA:1421:G:OP1	1.94	0.85
54:B8:34:TRP:CE2	54:B8:35:GLN:OE1	2.30	0.85
25:DA:90:U:O2'	25:DA:91:A:H8	1.57	0.85
54:D8:33:ASN:O	54:D8:34:TRP:CD1	2.30	0.85
27:BD:35:LYS:HZ1	27:BD:104:TYR:HB2	1.40	0.85
25:DA:1048:A:H2	25:DA:1112:G:H21	1.23	0.85
25:DA:2689:U:H4'	25:DA:2690:C:OP2	1.76	0.85
27:DD:35:LYS:HA	27:DD:64:ILE:HG23	1.58	0.85
28:DE:25:VAL:HG12	28:DE:26:ILE:H	1.41	0.85
28:DE:44:TYR:N	28:DE:44:TYR:CD1	2.39	0.85
35:DO:9:ASN:HB3	35:DO:10:PRO:HD2	1.57	0.85
25:BA:2062:A:H2'	25:BA:2062:A:N3	1.89	0.85
39:BR:56:GLY:O	39:BR:59:THR:HG22	1.77	0.85
1:CA:812:C:H1'	1:CA:813:U:OP2	1.76	0.85
45:DV:128:VAL:HG22	45:DV:129:SER:H	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:128:G:O2'	17:AT:3:LYS:NZ	2.09	0.85
1:AA:1004:A:N1	1:AA:1024:G:H2'	1.91	0.85
4:AG:9:CYS:O	4:AG:13:ARG:CG	2.24	0.85
17:AT:76:LEU:HD11	17:AT:79:SER:HB3	1.57	0.85
27:BD:27:THR:O	27:BD:28:GLU:HB2	1.75	0.85
34:BN:68:GLU:OE2	34:BN:78:ARG:NH1	2.09	0.85
25:DA:138:G:N2	43:DT:44:GLU:OE2	2.10	0.85
35:DO:36:LYS:CB	35:DO:36:LYS:NZ	2.39	0.85
35:DO:49:ARG:HG2	35:DO:49:ARG:O	1.75	0.85
36:DP:28:ALA:O	36:DP:29:PHE:CD1	2.30	0.85
2:AE:212:GLN:O	2:AE:216:SER:HB2	1.75	0.84
25:BA:780:G:H21	25:BA:783:A:N6	1.73	0.84
25:BA:1332:G:N2	25:BA:1609:A:O2'	2.10	0.84
3:CF:111:LEU:HD21	3:CF:146:ALA:H	1.42	0.84
25:DA:2298:A:H1'	25:DA:2321:G:N2	1.92	0.84
31:DH:125:VAL:CG2	31:DH:126:PRO:HD3	2.03	0.84
36:DP:75:THR:HG21	36:DP:87:LYS:HE2	1.59	0.84
41:D2:85:LYS:HG3	41:D2:86:GLY:N	1.91	0.84
11:AN:121:PRO:HG2	11:AN:126:ARG:HG3	1.58	0.84
15:AR:87:ILE:HG22	15:AR:88:ARG:H	1.41	0.84
23:CD:59:A:H1'	23:CD:61:U:H5	1.37	0.84
25:DA:2632:A:HO2'	25:DA:2811:G:HO2'	1.17	0.84
27:DD:35:LYS:HZ1	27:DD:104:TYR:H	1.22	0.84
28:DE:48:GLN:NE2	28:DE:78:LEU:HD13	1.91	0.84
25:BA:229:A:H1'	25:BA:230:U:OP2	1.77	0.84
25:BA:1535:U:H3'	25:BA:1536:A:H5"	1.60	0.84
25:BA:2310:A:O2'	25:BA:2311:A:H5"	1.76	0.84
45:BV:1:MET:HE3	45:BV:135:GLU:HB3	1.56	0.84
25:DA:2394:C:OP1	35:DO:63:PRO:HD2	1.76	0.84
25:BA:780:G:N2	25:BA:783:A:H62	1.74	0.84
25:BA:2712:U:O2	25:BA:2712:U:H5'	1.78	0.84
52:B6:40:CYS:HA	52:B6:46:HIS:HA	1.56	0.84
4:CG:15:GLU:HB3	4:CG:63:LYS:HE2	1.59	0.84
25:DA:2318:G:H1	38:DQ:2:ALA:HA	1.40	0.84
50:D4:21:VAL:HG22	50:D4:22:ILE:HG12	1.57	0.84
28:BE:16:ARG:O	28:BE:16:ARG:HG3	1.75	0.84
1:CA:209:U:H4'	1:CA:210:U:OP2	1.76	0.84
1:CA:376:G:H5"	16:CS:5:ARG:HD3	1.57	0.84
1:CA:686:U:H1'	11:CN:42:TRP:HE1	1.42	0.84
2:CE:164:VAL:HG23	2:CE:186:ALA:HB2	1.58	0.84
25:DA:805:G:O4'	35:DO:38:GLN:NE2	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DW:41:ILE:HD11	48:DW:44:LEU:HG	1.59	0.84
1:AA:1160:G:O6	1:AA:1181:G:O6	1.95	0.84
25:BA:2404:C:C1'	35:BO:67:MET:HE1	2.03	0.84
25:BA:2415:G:H4'	35:BO:67:MET:N	1.91	0.84
28:BE:41:LYS:HZ2	28:BE:41:LYS:HB2	1.42	0.84
32:BK:104:GLN:O	32:BK:105:HIS:CG	2.31	0.84
54:B8:34:TRP:O	54:B8:34:TRP:CG	2.30	0.84
4:CG:122:ARG:HH21	4:CG:134:ASP:HB3	1.42	0.84
29:DF:25:PRO:HB3	29:DF:28:ILE:HG13	1.59	0.84
46:D3:36:ILE:HD13	46:D3:36:ILE:O	1.77	0.84
25:DA:2287:A:H62	25:DA:2344:U:H3	1.22	0.84
29:DF:134:GLY:HA2	29:DF:166:ALA:HB2	1.60	0.84
1:AA:560:U:O2'	1:AA:561:U:OP2	1.95	0.84
5:AH:15:ARG:HD2	5:AH:26:PHE:CD2	2.13	0.84
31:BH:153:LYS:HG3	31:BH:162:ILE:H	1.43	0.84
2:CE:16:HIS:CD2	2:CE:209:ARG:HB3	2.12	0.84
28:BE:78:LEU:CD1	28:BE:79:ARG:HG2	2.08	0.84
45:BV:7:ALA:HB2	45:BV:59:LEU:HD13	1.59	0.84
23:CC:20:G:C2	23:CC:58:A:N3	2.46	0.84
27:DD:242:ARG:HD2	27:DD:242:ARG:N	1.90	0.84
33:DM:128:HIS:CE1	33:DM:134:ARG:HD2	2.13	0.84
35:DO:21:ARG:HA	35:DO:21:ARG:HE	1.40	0.84
10:AM:50:ILE:HD11	10:AM:57:LYS:HD2	1.60	0.84
1:CA:1002:G:H2'	1:CA:1003:G:C8	2.13	0.84
28:DE:37:ARG:HD3	28:DE:44:TYR:CE2	2.13	0.84
1:AA:1285:A:H4'	1:AA:1286:A:O5'	1.78	0.83
25:BA:34:C:O2'	25:BA:35:G:OP2	1.96	0.83
25:BA:654(G):C:N3	25:BA:654(N):G:O6	2.11	0.83
28:BE:111:ARG:HD2	28:BE:160:TYR:CE1	2.13	0.83
30:BG:121:ASN:ND2	30:BG:123:ASN:H	1.76	0.83
46:D3:18:ALA:HB3	46:D3:20:ARG:HE	1.42	0.83
7:AJ:62:PHE:HD1	7:AJ:124:LEU:HD21	1.41	0.83
10:AM:49:VAL:CG2	14:AQ:41:ARG:HB2	2.09	0.83
28:BE:35:GLN:HB2	28:BE:48:GLN:HG3	1.57	0.83
28:BE:36:ARG:NH2	28:BE:88:GLY:HA2	1.93	0.83
28:BE:79:ARG:NE	28:BE:197:ILE:HG21	1.93	0.83
25:DA:660:G:N2	35:DO:12:ALA:HA	1.93	0.83
25:BA:652:C:H5'	25:BA:653:A:OP2	1.77	0.83
25:BA:774:A:H2	25:BA:787:U:HO2'	1.26	0.83
54:B8:36:LYS:CB	54:B8:40:GLU:HG2	2.08	0.83
25:DA:2404:C:H1'	35:DO:67:MET:CE	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:13:LYS:O	13:AP:44:ARG:HD2	1.77	0.83
35:BO:64:LYS:CD	54:B8:25:MET:SD	2.66	0.83
39:BR:50:ILE:HD11	39:BR:102:ILE:CD1	2.08	0.83
38:DQ:35:ILE:HD11	38:DQ:101:LEU:HD23	1.61	0.83
53:D7:8:ASN:HD22	53:D7:11:LYS:H	1.20	0.83
33:BM:130:HIS:HB3	33:BM:134:ARG:HH11	1.39	0.83
36:DP:29:PHE:HB3	36:DP:65:PHE:CD1	2.12	0.83
22:AB:87:A:H8	25:BA:2583:G:N2	1.77	0.83
25:BA:2287:A:N6	25:BA:2344:U:H3	1.77	0.83
28:BE:3:GLY:CA	28:BE:81:ILE:HG13	2.07	0.83
36:BP:86:GLY:C	36:BP:88:GLY:H	1.83	0.83
51:B5:49:CYS:SG	51:B5:60:VAL:HG23	2.18	0.83
1:CA:502:G:OP1	12:CO:118:SER:HB2	1.79	0.83
25:DA:2522:U:H2'	25:DA:2523:G:H5"	1.60	0.83
30:DG:117:PHE:HD1	30:DG:118:ARG:O	1.61	0.83
1:AA:1176:A:N6	1:AA:1177:G:C6	2.47	0.83
8:AK:87:SER:HB2	8:AK:93:VAL:H	1.41	0.83
22:AB:87:A:C8	25:BA:2583:G:N2	2.44	0.83
25:BA:1141:U:H6	33:BM:63:THR:HG1	1.24	0.83
25:BA:1728:G:H3'	25:BA:1729:A:H5'	1.60	0.83
25:BA:2392:A:H8	35:BO:60:MET:CB	1.91	0.83
28:BE:93:VAL:HG21	28:BE:180:ASN:HA	1.61	0.83
13:CP:33:ALA:O	13:CP:37:THR:OG1	1.97	0.83
27:DD:24:ILE:HD11	27:DD:91:ARG:HD3	1.59	0.83
39:DR:26:ASP:CB	39:DR:91:ARG:HA	2.08	0.83
38:BQ:89:ARG:HG2	38:BQ:92:TYR:O	1.79	0.83
2:CE:47:THR:HA	2:CE:202:PRO:HG2	1.61	0.83
17:CT:59:ILE:HG22	17:CT:71:PHE:HD1	1.42	0.83
25:BA:889:C:H3'	25:BA:890:A:H4'	1.61	0.83
52:B6:15:GLU:HB2	52:B6:49:HIS:CE1	2.14	0.83
54:B8:34:TRP:CZ2	54:B8:35:GLN:OE1	2.32	0.83
9:CL:95:LYS:HD3	9:CL:96:LEU:N	1.94	0.83
13:AP:14:ARG:HB2	13:AP:17:VAL:HG23	1.61	0.83
25:BA:1105:U:H2'	25:BA:1106:G:C8	2.12	0.83
25:BA:2113:U:H5'	25:BA:2114:A:H8	1.43	0.83
27:BD:35:LYS:NZ	27:BD:64:ILE:O	2.12	0.83
36:BP:65:PHE:O	36:BP:66:ILE:HG12	1.79	0.83
37:B0:100:LEU:HD11	37:B0:113:LEU:HD13	1.60	0.83
38:BQ:85:VAL:HG23	38:BQ:112:PHE:HE1	1.44	0.83
39:BR:74:ARG:HG2	39:BR:74:ARG:NH1	1.94	0.83
25:DA:1689:A:N6	25:DA:1698:A:C2	2.46	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2068:U:H3	25:DA:2430:A:H2	1.20	0.83
25:DA:2275:C:HO2'	36:DP:84:GLY:HA3	1.42	0.83
35:DO:38:GLN:HG2	35:DO:45:LEU:HD13	1.61	0.83
25:BA:442:G:N3	29:BF:48:THR:HG21	1.93	0.82
33:BM:46:VAL:CG1	33:BM:48:MET:HG3	2.08	0.82
40:B1:112:ARG:HH11	40:B1:112:ARG:CG	1.91	0.82
47:BZ:58:ILE:HD11	47:BZ:86:SER:HB2	1.59	0.82
25:DA:660:G:H21	35:DO:12:ALA:HA	1.43	0.82
25:DA:1864:U:H2'	25:DA:1869:G:H5"	1.60	0.82
25:DA:2415:G:C4'	35:DO:67:MET:H	1.92	0.82
36:DP:26:TYR:CD1	36:DP:139:GLU:CB	2.58	0.82
41:D2:44:LYS:O	41:D2:46:VAL:N	2.12	0.82
25:BA:2656:U:H3	25:BA:2665:A:H2	1.24	0.82
29:DF:31:HIS:CG	35:DO:9:ASN:OD1	2.32	0.82
6:AI:4:TYR:HD1	6:AI:92:LYS:HA	1.44	0.82
25:BA:1778:U:H2'	25:BA:1784:A:N6	1.93	0.82
16:CS:11:SER:HB2	16:CS:14:ASN:HB3	1.61	0.82
31:DH:152:ARG:NH2	31:DH:153:LYS:HG2	1.93	0.82
35:DO:112:LEU:H	35:DO:128:HIS:HD2	1.24	0.82
46:D3:38:VAL:HG12	46:D3:40:GLN:HG2	1.62	0.82
25:BA:1287:A:N7	37:B0:107:ASP:HB3	1.93	0.82
52:B6:44:ARG:O	52:B6:45:LYS:HB2	1.78	0.82
6:CI:61:LEU:HD23	6:CI:63:TYR:OH	1.80	0.82
20:CW:82:SER:O	20:CW:86:ARG:HB2	1.77	0.82
23:CC:16:C:O2'	23:CC:62:C:OP1	1.97	0.82
25:DA:2392:A:C8	35:DO:60:MET:HB2	2.14	0.82
28:DE:116:VAL:O	28:DE:117:MET:HB3	1.78	0.82
52:D6:41:PRO:HG2	52:D6:45:LYS:O	1.77	0.82
25:BA:1864:U:H2'	25:BA:1869:G:H5"	1.60	0.82
28:BE:47:VAL:CG2	28:BE:84:PHE:O	2.28	0.82
2:CE:71:VAL:HG11	2:CE:97:TRP:CD1	2.13	0.82
25:DA:654(C):G:H2'	25:DA:654(D):G:O4'	1.80	0.82
25:DA:1057:A:N1	25:DA:1081:U:O4	2.11	0.82
25:DA:1062:G:H1	25:DA:1076:C:N4	1.77	0.82
26:DB:15:A:H1'	26:DB:109:G:C8	2.14	0.82
25:BA:919:G:N2	25:BA:2269:A:OP2	2.12	0.82
27:BD:35:LYS:CG	27:BD:64:ILE:H	1.92	0.82
23:CC:48:U:O2'	23:CC:49:C:OP2	1.97	0.82
25:DA:2185:C:H2'	25:DA:2186:G:H8	1.42	0.82
2:AE:164:VAL:HG23	2:AE:186:ALA:HB2	1.60	0.82
25:BA:674:G:H1'	29:BF:74:ARG:HD3	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:111:ARG:HD2	28:BE:160:TYR:HE1	1.45	0.82
25:DA:1111:A:H4'	31:DH:3:ARG:HD3	1.60	0.82
25:DA:2795:G:H3'	25:DA:2797:U:C5'	2.08	0.82
49:DX:59:VAL:HG12	49:DX:60:GLU:H	1.44	0.82
16:AS:22:THR:HG23	16:AS:23:ASP:N	1.95	0.82
51:B5:4:HIS:HB3	51:B5:5:PRO:CD	2.09	0.82
23:CD:5:G:N2	23:CD:70:C:N3	2.27	0.82
25:DA:885:C:N4	25:DA:890:A:N6	2.26	0.82
25:DA:990:A:H5'	25:DA:990:A:H8	1.44	0.82
25:BA:885:C:O2	25:BA:890:A:N6	2.13	0.82
51:B5:40:LYS:HG2	51:B5:47:PRO:HD2	1.59	0.82
52:B6:20:ASN:OD1	52:B6:22:ALA:N	2.13	0.82
3:CF:117:ALA:HB2	3:CF:200:ALA:HB2	1.60	0.82
15:CR:17:ARG:HH11	15:CR:17:ARG:CG	1.93	0.82
25:DA:71:A:H2	43:DT:31:HIS:HE1	1.24	0.82
28:DE:80:GLU:O	28:DE:81:ILE:HG13	1.79	0.82
54:D8:32:LEU:HB2	54:D8:36:LYS:HE3	1.62	0.82
1:AA:1080:A:H5"	1:AA:1081:G:OP2	1.80	0.82
5:AH:63:ARG:HA	5:AH:66:MET:HE2	1.62	0.82
25:BA:336:C:H5"	44:BU:6:HIS:CD2	2.15	0.82
19:CV:20:LEU:O	19:CV:23:ASN:HB3	1.79	0.82
25:DA:2137:C:H42	25:DA:2154:G:H1	1.27	0.82
28:DE:46:ALA:HB2	28:DE:82:ARG:HA	0.82	0.82
31:DH:137:ASP:HB2	31:DH:140:LYS:HE2	1.62	0.82
25:BA:2610:C:H4'	25:BA:2611:U:OP2	1.80	0.81
1:CA:957:U:O2'	1:CA:959:A:N7	2.13	0.81
25:DA:2327:A:H2'	25:DA:2328:A:C8	2.15	0.81
29:DF:46:ARG:HH11	29:DF:46:ARG:HG2	1.45	0.81
51:D5:4:HIS:HB3	51:D5:5:PRO:HD3	0.83	0.81
1:AA:1028(B):C:N4	1:AA:1032(A):G:H1	1.78	0.81
5:AH:74:GLY:O	5:AH:115:VAL:HA	1.79	0.81
27:BD:181:GLU:HG3	27:BD:272:ALA:HB3	1.61	0.81
31:BH:151:ILE:O	31:BH:153:LYS:CD	2.28	0.81
33:BM:132:ALA:HB1	33:BM:133:GLN:HE21	1.44	0.81
28:DE:46:ALA:CA	28:DE:82:ARG:HA	2.10	0.81
2:AE:12:GLU:HA	2:AE:16:HIS:CD2	2.16	0.81
22:AB:87:A:O3'	25:BA:2506:U:H1'	1.80	0.81
28:BE:26:ILE:CD1	28:BE:198:VAL:HG21	2.09	0.81
28:BE:27:LEU:C	28:BE:27:LEU:CD2	2.53	0.81
35:BO:50:ARG:HD3	54:B8:7:HIS:NE2	1.95	0.81
45:BV:164:ALA:O	45:BV:165:VAL:HG22	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1004:A:H2	1:CA:1024:G:C8	1.98	0.81
25:DA:1405:U:H2'	25:DA:1406:U:C6	2.15	0.81
25:DA:2276:G:OP1	36:DP:84:GLY:HA2	1.80	0.81
41:D2:85:LYS:CG	41:D2:86:GLY:H	1.92	0.81
49:DX:29:ARG:H	49:DX:33:GLN:HE22	1.25	0.81
50:D4:21:VAL:HG22	50:D4:22:ILE:H	1.44	0.81
4:AG:13:ARG:O	4:AG:16:GLY:N	2.13	0.81
25:BA:297:C:H5"	44:BU:85:VAL:HG21	1.61	0.81
28:BE:14:ILE:HB	28:BE:21:VAL:CG2	2.10	0.81
39:BR:26:ASP:HB2	39:BR:91:ARG:HA	1.62	0.81
25:DA:9:U:C4	25:DA:2629:A:N1	2.49	0.81
29:DF:9:ILE:HG12	29:DF:14:PRO:HA	1.61	0.81
34:DN:49:ARG:HD3	34:DN:49:ARG:H	1.42	0.81
41:D2:44:LYS:C	41:D2:46:VAL:H	1.89	0.81
11:AN:57:THR:HG22	11:AN:59:TYR:H	1.44	0.81
26:BB:52:A:H62	38:BQ:33:LYS:HG3	1.44	0.81
7:CJ:20:ASP:HB3	7:CJ:23:VAL:HG23	1.62	0.81
10:CM:49:VAL:HG23	10:CM:61:GLU:O	1.80	0.81
25:DA:1434:A:H61	25:DA:1558:A:N6	1.77	0.81
36:DP:24:GLY:CA	36:DP:25:ASP:HB3	2.05	0.81
20:AW:10:LEU:HD23	20:AW:12:ALA:H	1.46	0.81
25:BA:1803:A:H4'	27:BD:259:THR:CG2	2.10	0.81
48:BW:50:ILE:HD12	48:BW:51:ARG:N	1.95	0.81
1:CA:1191:A:P	3:CF:3:ASN:HD21	2.03	0.81
4:CG:13:ARG:O	4:CG:15:GLU:HG2	1.79	0.81
23:CD:15:G:H2'	23:CD:60:A:C2	2.16	0.81
1:AA:823:G:H21	8:AK:1:MET:HE1	1.46	0.81
3:AF:130:VAL:O	3:AF:134:ILE:HG12	1.79	0.81
25:BA:2310:A:N3	30:BG:77:ILE:CG1	2.43	0.81
28:BE:59:VAL:HG11	28:BE:63:LEU:HD13	1.63	0.81
32:BK:9:LEU:HB2	32:BK:11:ASN:O	1.81	0.81
41:B2:44:LYS:CG	41:B2:45:THR:H	1.91	0.81
45:BV:113:ALA:N	45:BV:114:GLY:HA2	1.95	0.81
13:CP:57:ARG:NH1	50:D4:34:GLU:O	2.14	0.81
2:AE:18:GLY:H	2:AE:42:ILE:HG22	1.45	0.81
27:BD:6:PHE:HE1	27:BD:18:VAL:HG23	1.44	0.81
39:BR:16:ARG:HD3	39:BR:19:LEU:HD11	1.62	0.81
46:B3:53:MET:HB2	46:B3:59:LEU:HD23	1.61	0.81
1:CA:537:G:H5"	12:CO:113:ARG:NH1	1.95	0.81
23:CD:14:A:OP1	23:CD:14:A:H8	1.64	0.81
25:DA:882:G:N2	25:DA:894:C:N3	2.26	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:79:LEU:C	36:DP:79:LEU:CD1	2.54	0.81
5:AH:67:VAL:HG21	5:AH:140:ARG:HA	1.62	0.81
25:BA:1937:A:O2'	25:BA:1938:A:OP1	1.99	0.81
34:BN:85:VAL:HG11	34:BN:114:ILE:HD13	1.63	0.81
44:BU:78:ALA:HB3	44:BU:81:LYS:HZ1	1.45	0.81
1:CA:452:A:O2'	1:CA:453:A:O4'	1.99	0.81
25:DA:1252:G:N3	40:D1:33:ARG:HD2	1.96	0.81
1:AA:538:G:H5"	12:AO:114:LYS:HB2	1.63	0.81
25:BA:2723:C:OP1	37:B0:3:HIS:HD2	1.63	0.81
29:BF:184:TYR:O	29:BF:188:ARG:HG3	1.79	0.81
38:BQ:106:ARG:NH2	38:BQ:107:GLU:HB2	1.96	0.81
45:BV:164:ALA:C	45:BV:165:VAL:HG13	2.05	0.81
37:D0:118:GLU:HA	37:D0:118:GLU:OE1	1.81	0.81
1:AA:1306:A:N6	1:AA:1331:G:H1'	1.96	0.80
4:AG:108:LEU:HB3	4:AG:110:PHE:CE1	2.15	0.80
25:BA:762:U:H4'	25:BA:763:G:O5'	1.80	0.80
25:BA:2310:A:H2'	25:BA:2311:A:C5'	2.11	0.80
27:DD:43:ARG:HH11	27:DD:44:ASN:HD22	1.24	0.80
54:D8:29:LYS:HA	54:D8:32:LEU:HD23	1.62	0.80
5:AH:126:ARG:HH11	5:AH:126:ARG:CG	1.94	0.80
25:BA:883:G:H1	25:BA:893:C:H42	0.85	0.80
36:BP:35:VAL:HG13	36:BP:130:LYS:HB3	1.62	0.80
1:CA:1003:G:H2'	1:CA:1004:A:H5'	1.62	0.80
25:DA:2392:A:H8	35:DO:60:MET:CB	1.94	0.80
28:DE:36:ARG:HH21	28:DE:88:GLY:HA3	1.42	0.80
36:DP:30:GLY:CA	36:DP:107:ALA:HB2	2.11	0.80
2:AE:213:LEU:O	2:AE:217:ARG:NH1	2.15	0.80
6:AI:101:ALA:HB2	18:AU:28:GLU:HG2	1.63	0.80
25:BA:1597:A:H5"	25:BA:1598:C:OP1	1.82	0.80
25:BA:2392:A:C8	35:BO:60:MET:HB2	2.16	0.80
25:BA:2473:U:H2'	25:BA:2474:C:H5"	1.61	0.80
26:BB:15:A:H5'	26:BB:16:G:H8	1.40	0.80
29:BF:32:LEU:HD13	29:BF:105:VAL:HG13	1.63	0.80
27:DD:186:HIS:HD2	27:DD:188:GLU:H	1.28	0.80
28:DE:8:LYS:O	28:DE:9:VAL:HG22	1.80	0.80
31:BH:159:GLU:HG3	31:BH:170:ARG:NH1	1.95	0.80
1:CA:1256:A:OP2	3:CF:26:LYS:NZ	2.15	0.80
12:CO:62:SER:HB2	12:CO:64:TYR:HD1	1.45	0.80
25:BA:1019:U:HO2'	25:BA:1021:A:H2	1.28	0.80
25:BA:2371:G:C4'	52:B6:45:LYS:HG3	2.11	0.80
31:BH:86:GLU:CD	31:BH:86:GLU:H	1.88	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BT:49:VAL:HG12	43:BT:50:LYS:N	1.97	0.80
49:BX:4:LEU:HG	49:BX:39:ASP:HB2	1.64	0.80
25:DA:2371:G:H4'	52:D6:45:LYS:HG3	1.62	0.80
28:DE:44:TYR:O	28:DE:45:THR:HB	1.81	0.80
36:DP:59:ARG:HG2	36:DP:59:ARG:HH21	1.46	0.80
50:D4:20:ASN:CG	50:D4:21:VAL:H	1.89	0.80
8:AK:87:SER:HB2	8:AK:93:VAL:N	1.96	0.80
33:BM:56:ASN:N	33:BM:125:GLY:O	2.14	0.80
1:CA:1095:U:H5"	1:CA:1109:C:O2	1.79	0.80
25:DA:2557:G:H2'	25:DA:2558:C:H6	1.45	0.80
27:DD:206:LEU:HD22	27:DD:211:ARG:HG2	1.64	0.80
38:DQ:87:PHE:CE1	38:DQ:102:ALA:CB	2.53	0.80
44:DU:40:GLU:OE2	44:DU:40:GLU:HA	1.82	0.80
19:AV:65:ASN:H	19:AV:65:ASN:HD22	1.28	0.80
25:BA:879:G:H1	25:BA:898:C:H42	1.26	0.80
25:BA:1470:G:H5"	25:BA:1471:A:OP1	1.82	0.80
1:CA:975:A:C4'	1:CA:976:G:H5"	2.09	0.80
5:CH:148:VAL:HG21	8:CK:107:LEU:HD23	1.64	0.80
21:CX:8:THR:HG22	21:CX:11:GLY:H	1.43	0.80
25:DA:1899:G:H22	25:DA:1902:C:H41	1.27	0.80
25:DA:2872:G:C5	25:DA:2873:A:N1	2.49	0.80
2:AE:18:GLY:N	2:AE:42:ILE:HG22	1.96	0.80
4:AG:5:ILE:HG22	4:AG:6:GLY:H	1.45	0.80
25:BA:1179:C:H2'	25:BA:1180:C:H5"	1.61	0.80
54:B8:34:TRP:O	54:B8:35:GLN:CG	2.30	0.80
54:B8:34:TRP:CH2	54:B8:35:GLN:OE1	2.35	0.80
25:DA:468:G:N7	53:D7:39:ARG:NH2	2.29	0.80
43:DT:80:ILE:O	43:DT:80:ILE:HG13	1.79	0.80
44:DU:17:SER:HB2	44:DU:71:LYS:HD2	1.61	0.80
2:AE:7:VAL:HB	2:AE:217:ARG:HH21	1.46	0.80
33:BM:22:THR:HG22	33:BM:23:LEU:N	1.96	0.80
41:B2:38:LEU:HD12	41:B2:57:VAL:HG12	1.62	0.80
29:DF:83:PHE:O	29:DF:84:VAL:CG1	2.30	0.80
36:DP:63:LYS:O	36:DP:63:LYS:CD	2.30	0.80
20:AW:26:ASN:ND2	20:AW:26:ASN:N	2.30	0.80
23:AD:19:G:H1'	23:AD:59:A:H2	1.46	0.80
28:BE:52:LEU:HD23	28:BE:52:LEU:N	1.93	0.80
31:BH:171:LEU:O	31:BH:171:LEU:CD1	2.30	0.80
2:CE:231:GLU:HB3	2:CE:232:PRO:CD	2.11	0.80
3:CF:134:ILE:HG22	3:CF:168:ALA:HB3	1.63	0.80
15:CR:26:GLU:OE2	15:CR:77:ARG:NH1	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:486:C:H4'	42:DS:60:ASN:HD21	1.47	0.80
54:D8:49:VAL:O	54:D8:50:LEU:CG	2.30	0.80
1:AA:977:A:H8	1:AA:1223:C:C4	1.98	0.79
25:BA:74:A:H4'	25:BA:75:G:O5'	1.82	0.79
28:BE:52:LEU:H	28:BE:52:LEU:CD2	1.93	0.79
34:BN:71:ARG:HG3	34:BN:71:ARG:HH11	1.48	0.79
42:BS:9:TYR:H	42:BS:102:HIS:CD2	1.99	0.79
42:BS:95:ILE:O	42:BS:95:ILE:CG1	2.30	0.79
1:CA:1160:G:H1	1:CA:1177:G:H22	0.82	0.79
1:CA:1183:A:O2'	1:CA:1184:G:OP1	1.98	0.79
25:DA:864:G:N7	36:DP:22:LYS:NZ	2.26	0.79
25:DA:2154:G:H2'	25:DA:2155:G:H8	1.47	0.79
27:DD:30:GLU:HG3	27:DD:63:ARG:NH2	1.97	0.79
28:DE:55:ASN:O	28:DE:57:LYS:N	2.15	0.79
28:DE:134:ILE:O	28:DE:134:ILE:CD1	2.30	0.79
33:DM:97:ARG:HH11	33:DM:97:ARG:CG	1.93	0.79
45:DV:76:LEU:H	45:DV:76:LEU:HD23	1.45	0.79
1:AA:1386:G:O2'	1:AA:1387:G:H5'	1.82	0.79
9:AL:53:VAL:HG23	9:AL:95:LYS:HD2	1.64	0.79
20:AW:89:ARG:HH21	20:AW:104:LEU:HD11	1.47	0.79
25:BA:1533:C:H2'	25:BA:1534:G:C8	2.18	0.79
25:BA:2261:C:C2'	25:BA:2262:U:H5'	2.12	0.79
47:BZ:78:LYS:O	47:BZ:78:LYS:HD2	1.82	0.79
54:B8:52:LYS:N	54:B8:53:PRO:HD2	1.97	0.79
6:CI:87:ARG:CG	6:CI:87:ARG:HH11	1.96	0.79
12:CO:41:ARG:HH11	12:CO:41:ARG:HB3	1.47	0.79
25:DA:2307:G:O2'	25:DA:2308:G:N7	2.15	0.79
25:DA:2557:G:H2'	25:DA:2558:C:C6	2.16	0.79
35:DO:36:LYS:HB3	35:DO:36:LYS:HZ3	1.45	0.79
36:DP:90:VAL:CG1	36:DP:90:VAL:O	2.30	0.79
16:AS:19:ILE:CG2	16:AS:19:ILE:O	2.30	0.79
25:BA:2257:U:O2'	25:BA:2258:C:H5'	1.83	0.79
40:B1:92:ARG:NH1	41:B2:11:GLN:O	2.15	0.79
41:B2:1:MET:HG3	41:B2:43:GLU:HG2	1.63	0.79
1:CA:976:G:P	14:CQ:32:SER:H	2.04	0.79
13:CP:3:ARG:HG3	13:CP:9:ILE:HG12	1.62	0.79
16:CS:1:MET:HE1	16:CS:65:GLN:HG2	1.64	0.79
19:CV:31:ILE:HG21	19:CV:49:ILE:HG23	1.64	0.79
25:DA:1678:G:N2	25:DA:1989:G:H22	1.79	0.79
27:DD:27:THR:HG21	27:DD:83:GLU:CG	2.10	0.79
35:DO:61:ARG:HB2	35:DO:61:ARG:HH21	0.77	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:D1:100:VAL:O	40:D1:101:ARG:HG2	1.82	0.79
1:AA:542:G:OP1	4:AG:10:ARG:NH2	2.16	0.79
1:AA:1182:G:H4'	1:AA:1183:A:C5'	2.12	0.79
2:AE:204:ASN:HD22	2:AE:206:ASP:H	1.31	0.79
4:AG:114:ARG:HH11	4:AG:114:ARG:CG	1.95	0.79
11:AN:40:ILE:HG22	11:AN:75:TYR:CD2	2.16	0.79
14:AQ:43:CYS:HA	14:AQ:46:GLU:HG3	1.65	0.79
22:AB:74:C:H5'	22:AB:75:G:OP2	1.83	0.79
25:BA:524:U:H4'	25:BA:554:U:H4'	1.64	0.79
25:BA:594:U:H5'	54:B8:61:LEU:HD13	1.65	0.79
27:BD:30:GLU:HG3	27:BD:63:ARG:CZ	2.12	0.79
33:BM:115:ARG:O	33:BM:118:LYS:N	2.15	0.79
41:B2:15:GLU:HG3	41:B2:16:PRO:HD2	1.62	0.79
25:DA:90:U:C2'	25:DA:91:A:H5"	2.12	0.79
27:DD:43:ARG:NH1	27:DD:44:ASN:HD21	1.77	0.79
36:DP:78:PRO:O	36:DP:79:LEU:HD12	1.82	0.79
50:D4:56:VAL:HA	50:D4:60:GLN:HE21	1.47	0.79
52:D6:52:VAL:HG22	52:D6:53:LYS:H	1.46	0.79
1:AA:1004:A:H1'	1:AA:1036:G:H1	1.44	0.79
3:AF:126:ARG:CG	3:AF:126:ARG:HH11	1.96	0.79
15:AR:87:ILE:HG22	15:AR:88:ARG:N	1.97	0.79
25:BA:2327:A:H2'	25:BA:2328:A:C8	2.16	0.79
30:BG:77:ILE:CG2	30:BG:77:ILE:O	2.31	0.79
39:BR:136:GLN:HG3	39:BR:137:LYS:H	1.45	0.79
7:CJ:26:PHE:O	7:CJ:30:ILE:HG13	1.82	0.79
25:DA:2331:G:O3'	46:D3:43:THR:HG22	1.82	0.79
54:D8:49:VAL:O	54:D8:50:LEU:CD1	2.30	0.79
3:CF:150:LYS:HG3	3:CF:169:ALA:HB2	1.62	0.79
35:DO:19:VAL:HG22	35:DO:20:GLY:H	1.47	0.79
3:AF:50:ALA:HB1	3:AF:70:VAL:HG11	1.64	0.79
17:AT:81:ARG:NH2	17:AT:83:ASP:OD2	2.16	0.79
25:BA:140:A:C8	25:BA:1408:C:O2'	2.35	0.79
25:BA:330:A:O2'	25:BA:331:A:H8	1.65	0.79
25:BA:2210:G:H3'	25:BA:2211:G:N7	1.98	0.79
35:BO:9:ASN:HB3	35:BO:10:PRO:CD	2.11	0.79
12:CO:47:LYS:HB3	12:CO:48:PRO:HD2	1.63	0.79
28:DE:48:GLN:O	28:DE:49:LEU:CG	2.30	0.79
48:DW:70:GLN:HG2	48:DW:71:ASN:H	1.47	0.79
4:AG:13:ARG:NH1	4:AG:38:TYR:O	2.15	0.79
11:AN:79:SER:O	11:AN:80:VAL:CG1	2.30	0.79
25:BA:1864:U:C2'	25:BA:1869:G:H5"	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:166:GLN:HE21	27:BD:166:GLN:HA	1.45	0.79
28:BE:27:LEU:O	28:BE:27:LEU:CD2	2.30	0.79
38:BQ:34:HIS:HB2	38:BQ:36:TYR:CE1	2.18	0.79
47:BZ:92:LYS:HA	47:BZ:95:LEU:HB2	1.64	0.79
39:DR:47:GLY:HA3	39:DR:63:VAL:HG12	1.64	0.79
25:BA:654(G):C:O2	25:BA:654(N):G:N1	2.15	0.79
28:BE:66:HIS:C	28:BE:66:HIS:HD1	1.91	0.79
42:BS:94:ASP:O	42:BS:95:ILE:CG2	2.30	0.79
25:DA:2404:C:C1'	35:DO:67:MET:HE1	2.13	0.79
25:DA:2747:G:H2'	25:DA:2748:A:H8	1.46	0.79
26:DB:15:A:H3'	26:DB:16:G:H5'	1.65	0.79
28:DE:80:GLU:O	28:DE:81:ILE:CG1	2.30	0.79
40:D1:90:VAL:HG22	41:D2:39:LEU:HB3	1.64	0.79
54:D8:60:LEU:C	54:D8:61:LEU:HG	2.08	0.79
1:AA:1128:C:O2'	1:AA:1130:A:H8	1.65	0.78
28:BE:51:PHE:HD1	28:BE:52:LEU:CD2	1.92	0.78
54:B8:34:TRP:O	54:B8:34:TRP:CD2	2.36	0.78
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.48	0.78
25:DA:848:G:H2'	25:DA:849:A:C8	2.17	0.78
25:DA:1270:C:H5"	25:DA:1271:G:O5'	1.83	0.78
25:DA:1342:A:C2	25:DA:1397:U:C2	2.71	0.78
36:DP:63:LYS:C	36:DP:63:LYS:CD	2.52	0.78
36:DP:66:ILE:O	36:DP:67:ARG:CB	2.31	0.78
1:AA:201:C:N4	1:AA:216:G:H1	1.81	0.78
11:AN:17:GLY:HA3	11:AN:77:MET:CE	2.12	0.78
31:BH:11:VAL:HB	31:BH:12:PRO:HD2	1.64	0.78
38:BQ:88:ASP:O	38:BQ:89:ARG:CB	2.31	0.78
51:B5:56:LYS:H	51:B5:56:LYS:HD2	1.47	0.78
1:CA:503:C:OP2	12:CO:116:SER:HB3	1.83	0.78
4:CG:13:ARG:HG2	4:CG:14:ARG:N	1.98	0.78
36:DP:26:TYR:CD1	36:DP:139:GLU:HG3	2.08	0.78
47:DZ:91:LYS:HB2	47:DZ:91:LYS:HZ3	1.45	0.78
1:AA:119:A:H4'	1:AA:120:A:O5'	1.83	0.78
1:AA:630:G:H2'	1:AA:631:G:O4'	1.84	0.78
1:AA:827:U:H5	1:AA:872:A:N1	1.81	0.78
25:BA:1404:C:O2'	25:BA:1405:U:H5'	1.84	0.78
27:BD:71:ASP:OD2	27:BD:103:ARG:NH2	2.16	0.78
30:BG:83:ARG:H	30:BG:86:MET:HE3	1.45	0.78
36:BP:14:ARG:HG2	36:BP:41:TRP:HH2	1.46	0.78
25:DA:84:A:N6	25:DA:102:G:O2'	2.10	0.78
25:DA:531:C:OP1	25:DA:561:G:N2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:654(D):G:H1	25:DA:654(Q):C:H42	1.32	0.78
25:DA:1012:U:N3	25:DA:1143:A:C2	2.51	0.78
25:DA:1496:A:H8	25:DA:1577:C:O2'	1.67	0.78
41:D2:71:LEU:H	41:D2:86:GLY:HA2	1.43	0.78
54:D8:35:GLN:O	54:D8:36:LYS:CG	2.30	0.78
7:AJ:78:ARG:HD2	7:AJ:80:VAL:HG22	1.65	0.78
25:BA:1021:A:H61	25:BA:1142(A):A:H61	1.32	0.78
27:BD:35:LYS:CD	27:BD:63:ARG:HB3	2.12	0.78
27:BD:273:ARG:O	27:BD:273:ARG:CG	2.32	0.78
30:BG:96:ARG:HH11	30:BG:96:ARG:CG	1.96	0.78
52:B6:25:LYS:HZ1	52:B6:27:LYS:HD3	1.48	0.78
1:CA:168:G:H2'	1:CA:169:C:H5"	1.64	0.78
1:CA:1131:G:H2'	1:CA:1132:C:H6	1.49	0.78
25:DA:329:G:O6	44:DU:19:LYS:HG2	1.83	0.78
27:DD:35:LYS:HE3	27:DD:64:ILE:O	1.82	0.78
29:DF:83:PHE:C	29:DF:84:VAL:CG1	2.57	0.78
36:DP:66:ILE:O	36:DP:67:ARG:CG	2.30	0.78
39:DR:52:ILE:O	39:DR:52:ILE:CG2	2.30	0.78
1:AA:804:U:H5"	1:AA:805:C:OP2	1.84	0.78
25:BA:2292:C:P	38:BQ:17:ARG:HH22	2.05	0.78
28:BE:47:VAL:O	28:BE:48:GLN:O	2.01	0.78
35:BO:50:ARG:HH21	35:BO:50:ARG:HG3	1.47	0.78
29:DF:82:ILE:C	29:DF:82:ILE:HD12	2.09	0.78
35:DO:37:GLY:O	35:DO:40:SER:N	2.16	0.78
35:DO:101:VAL:HA	35:DO:105:LEU:O	1.84	0.78
39:DR:26:ASP:O	39:DR:49:VAL:HG12	1.83	0.78
51:D5:16:ARG:HH11	51:D5:16:ARG:CG	1.95	0.78
1:AA:501:C:H2'	1:AA:502:G:H8	1.48	0.78
1:AA:838:G:H1	1:AA:848:C:N4	1.81	0.78
25:BA:67:U:N3	25:BA:74:A:H2	1.79	0.78
25:BA:671:C:OP1	35:BO:42:SER:O	2.02	0.78
25:BA:2113:U:H5'	25:BA:2114:A:C8	2.17	0.78
28:DE:1:MET:HB2	28:DE:200:GLU:OE2	1.84	0.78
51:D5:16:ARG:HG2	51:D5:16:ARG:NH1	1.94	0.78
1:AA:791:G:C2'	1:AA:792:A:H5'	2.13	0.78
8:AK:87:SER:HB2	8:AK:93:VAL:HB	1.66	0.78
28:BE:3:GLY:HA3	28:BE:81:ILE:CG1	2.12	0.78
25:DA:2854:G:N2	25:DA:2864:G:C4	2.52	0.78
41:D2:76:LYS:O	41:D2:79:VAL:CG2	2.30	0.78
45:DV:27:VAL:HG12	45:DV:87:ASP:HB3	1.64	0.78
52:D6:48:VAL:O	52:D6:49:HIS:CB	2.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:76:GLN:HB3	2:AE:211:ILE:HD11	1.65	0.78
25:BA:2701:C:H3'	25:BA:2702:U:H5"	1.66	0.78
26:DB:75:G:H5'	26:DB:75:G:H8	1.47	0.78
2:AE:77:ALA:HB1	2:AE:165:VAL:HG11	1.65	0.78
3:AF:126:ARG:HH11	3:AF:126:ARG:HG3	1.49	0.78
5:AH:100:VAL:HG22	5:AH:118:ILE:HG22	1.66	0.78
23:AD:6:G:C2	23:AD:7:G:N7	2.52	0.78
25:BA:1496:A:H5'	25:BA:1497:U:OP1	1.84	0.78
25:DA:459:U:H5"	53:D7:40:TRP:CD2	2.18	0.78
30:DG:36:LYS:HE3	30:DG:38:VAL:HG21	1.66	0.78
1:CA:1003:G:C2'	1:CA:1004:A:H5'	2.13	0.78
25:DA:1257:C:O2'	29:DF:84:VAL:HG12	1.83	0.78
41:D2:35:LEU:O	41:D2:37:VAL:HG22	1.84	0.78
2:CE:82:ARG:HD2	2:CE:92:TYR:OH	1.84	0.77
25:DA:2438:U:O3'	25:DA:2439:A:H3'	1.85	0.77
25:DA:2638:G:OP1	28:DE:82:ARG:NH2	2.13	0.77
25:DA:2689:U:H5"	25:DA:2690:C:H5'	1.66	0.77
27:DD:166:GLN:HE21	27:DD:166:GLN:CA	1.96	0.77
47:DZ:91:LYS:HB2	47:DZ:91:LYS:HZ2	1.49	0.77
52:D6:43:CYS:O	52:D6:44:ARG:CB	2.32	0.77
5:AH:110:LEU:HD13	5:AH:118:ILE:HD13	1.64	0.77
6:AI:36:ARG:NH2	6:AI:38:GLU:HG2	1.97	0.77
25:BA:882:G:H3'	25:BA:883:G:H5"	1.66	0.77
25:BA:1525:G:H2'	25:BA:1526:G:C8	2.18	0.77
25:BA:2346:A:H4'	25:BA:2347:C:OP2	1.81	0.77
31:BH:10:PRO:HD2	31:BH:50:VAL:O	1.83	0.77
40:B1:79:PHE:O	40:B1:79:PHE:HD2	1.68	0.77
41:B2:44:LYS:O	41:B2:46:VAL:HG12	1.83	0.77
44:BU:76:CYS:O	44:BU:78:ALA:N	2.16	0.77
15:CR:87:ILE:HG22	15:CR:88:ARG:N	1.99	0.77
27:DD:35:LYS:HE3	27:DD:65:ILE:HA	1.66	0.77
50:D4:58:ARG:O	50:D4:61:ARG:HB3	1.84	0.77
28:BE:41:LYS:HZ3	28:BE:41:LYS:HB3	1.49	0.77
10:CM:15:THR:HG21	10:CM:92:THR:HG21	1.65	0.77
25:DA:2415:G:O3'	35:DO:66:GLY:HA3	1.85	0.77
28:DE:48:GLN:HA	28:DE:80:GLU:HA	1.65	0.77
29:DF:67:GLN:O	29:DF:67:GLN:CG	2.30	0.77
36:DP:59:ARG:O	36:DP:60:ARG:CB	2.33	0.77
22:AB:18:G:H1'	22:AB:19:G:OP1	1.85	0.77
25:BA:1614:A:N6	42:BS:92:ARG:O	2.16	0.77
1:CA:673:G:H2'	1:CA:674:G:C8	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2439:A:H5'	25:DA:2439:A:C8	2.18	0.77
54:D8:52:LYS:HB2	54:D8:53:PRO:HD3	1.67	0.77
1:AA:819:A:H4'	1:AA:820:U:OP2	1.84	0.77
36:BP:66:ILE:HG13	36:BP:67:ARG:N	1.98	0.77
1:CA:1004:A:C2	1:CA:1024:G:C8	2.73	0.77
20:CW:25:ARG:HG3	20:CW:25:ARG:HH11	1.50	0.77
25:DA:885:C:N4	25:DA:890:A:H62	1.83	0.77
27:DD:35:LYS:CA	27:DD:64:ILE:HG23	2.14	0.77
28:DE:182:LEU:HD12	28:DE:183:LEU:H	1.49	0.77
42:DS:9:TYR:H	42:DS:102:HIS:CD2	2.03	0.77
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.19	0.77
12:AO:6:THR:H	12:AO:9:GLN:HE21	1.30	0.77
25:BA:534:U:H5'	40:B1:42:ALA:HB1	1.66	0.77
25:BA:847:U:C4	25:BA:933:A:N1	2.53	0.77
25:BA:1434:A:H61	25:BA:1558:A:H62	1.29	0.77
25:BA:2162:G:H2'	25:BA:2163:C:C6	2.19	0.77
41:B2:4:ILE:HG22	41:B2:39:LEU:HD23	1.66	0.77
44:BU:40:GLU:HA	44:BU:40:GLU:OE1	1.83	0.77
1:CA:1002:G:H2'	1:CA:1003:G:H8	1.47	0.77
1:CA:1061:G:H2'	1:CA:1062:U:H5'	1.66	0.77
1:CA:1443:G:H3'	1:CA:1446:A:C5'	2.14	0.77
6:CI:87:ARG:HH11	6:CI:87:ARG:HG2	1.49	0.77
31:DH:117:PRO:HB3	31:DH:123:PHE:CE1	2.20	0.77
2:AE:67:THR:HG21	2:AE:155:LEU:HG	1.65	0.77
20:AW:10:LEU:HD23	20:AW:12:ALA:N	1.98	0.77
25:BA:860:U:C5	25:BA:917:A:H2	2.01	0.77
35:BO:61:ARG:HB2	35:BO:61:ARG:HH21	0.77	0.77
2:CE:50:GLU:O	2:CE:54:THR:OG1	2.01	0.77
22:CB:21:A:H1'	22:CB:22:G:O5'	1.85	0.77
29:DF:118:ALA:HB2	29:DF:123:LEU:HD23	1.65	0.77
35:DO:16:ARG:HH11	35:DO:16:ARG:HG3	1.49	0.77
40:D1:65:ILE:HD11	40:D1:96:ALA:HB3	1.67	0.77
48:DW:9:GLN:HE22	48:DW:56:GLN:HG2	1.49	0.77
2:AE:80:ILE:HG21	2:AE:212:GLN:HA	1.67	0.77
8:AK:87:SER:CB	8:AK:93:VAL:H	1.98	0.77
25:BA:900:A:H5'	25:BA:901:A:OP2	1.85	0.77
25:BA:2334:G:H5'	38:BQ:9:ARG:HG2	1.67	0.77
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.14	0.77
33:DM:103:VAL:HG11	33:DM:120:LEU:HD13	1.67	0.77
35:DO:112:LEU:H	35:DO:128:HIS:CD2	2.02	0.77
45:DV:70:LEU:HD11	45:DV:98:MET:HE3	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:5:U:H2'	1:AA:5:U:O2	1.84	0.77
4:AG:110:PHE:H	4:AG:110:PHE:HD1	1.33	0.77
5:AH:31:LEU:HD23	5:AH:45:PHE:HD1	1.50	0.77
26:BB:30:C:H2'	26:BB:31:C:O5'	1.85	0.77
46:B3:38:VAL:CG1	46:B3:40:GLN:HG2	2.13	0.77
51:B5:33:CYS:HB2	51:B5:40:LYS:HD3	1.66	0.77
9:CL:78:LYS:HB2	9:CL:78:LYS:NZ	2.00	0.77
12:CO:27:LEU:HD23	12:CO:33:ARG:HG2	1.67	0.77
16:CS:36:ILE:O	16:CS:36:ILE:HG13	1.84	0.77
23:CC:20:G:C2	23:CC:58:A:C2	2.72	0.77
25:DA:2355:C:H5'	46:D3:36:ILE:HD11	1.67	0.77
27:DD:65:ILE:HD11	27:DD:67:PHE:CE2	2.20	0.77
2:AE:97:TRP:CH2	2:AE:176:GLU:HG3	2.19	0.77
25:BA:2415:G:O3'	35:BO:66:GLY:HA3	1.84	0.77
28:BE:27:LEU:CD1	39:BR:1:MET:HE1	2.15	0.77
30:BG:104:GLU:CD	50:B4:23:GLU:HG3	2.10	0.77
33:BM:22:THR:HG22	33:BM:23:LEU:H	1.49	0.77
38:BQ:37:ALA:HB2	38:BQ:101:LEU:HD21	1.67	0.77
25:DA:259:G:O2'	25:DA:621:A:O2'	2.03	0.77
25:DA:654(B):C:H2'	25:DA:654(C):G:C8	2.20	0.77
25:DA:2306:C:H3'	25:DA:2307:G:C5'	2.13	0.77
25:DA:2394:C:OP1	35:DO:62:LEU:CB	2.33	0.77
25:DA:2872:G:C4	25:DA:2873:A:N1	2.54	0.77
54:D8:29:LYS:HG2	54:D8:29:LYS:O	1.85	0.77
1:AA:953:G:H5'	1:AA:965:A:H61	1.50	0.76
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.19	0.76
28:BE:14:ILE:O	28:BE:15:PHE:CG	2.39	0.76
41:B2:44:LYS:HD2	41:B2:45:THR:H	1.48	0.76
46:B3:40:GLN:HE22	46:B3:44:ARG:N	1.80	0.76
52:B6:30:THR:HA	52:B6:31:PRO:C	2.10	0.76
53:B7:8:ASN:C	53:B7:8:ASN:ND2	2.38	0.76
1:CA:382:A:H2'	1:CA:383:A:C8	2.20	0.76
27:DD:35:LYS:CG	27:DD:64:ILE:H	1.96	0.76
25:BA:1359:A:C2	25:BA:1372:U:O4	2.38	0.76
25:BA:2346:A:H5"	25:BA:2383:G:O4'	1.85	0.76
26:BB:40:U:H1'	26:BB:45:A:H61	1.47	0.76
29:BF:66:PRO:O	29:BF:67:GLN:HB3	1.83	0.76
30:BG:77:ILE:O	30:BG:77:ILE:HG23	1.85	0.76
32:BK:78:THR:HG23	32:BK:141:LYS:NZ	2.00	0.76
54:B8:38:GLY:H	54:B8:41:ILE:HG23	1.51	0.76
1:CA:345:C:O2'	1:CA:346:G:O5'	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CO:79:GLU:HG3	12:CO:80:HIS:CD2	2.19	0.76
25:DA:140:A:C8	25:DA:1408:C:O2'	2.37	0.76
25:DA:2392:A:H2	25:DA:2424:C:N4	1.82	0.76
37:D0:37:THR:CG2	37:D0:39:PRO:HD2	2.15	0.76
1:AA:1502:A:H2	1:AA:1505:G:H22	1.27	0.76
2:AE:120:ALA:O	2:AE:121:LEU:HB2	1.84	0.76
19:AV:40:ILE:HG12	19:AV:41:VAL:HG13	1.68	0.76
22:AB:18:G:H4'	22:AB:19:G:OP2	1.84	0.76
25:BA:1188:U:H4'	41:B2:79:VAL:HG22	1.67	0.76
25:BA:2310:A:C2'	25:BA:2311:A:H5"	2.15	0.76
37:B0:79:LEU:HA	37:B0:83:ILE:HG13	1.66	0.76
50:B4:37:SER:HB3	50:B4:42:PHE:HB3	1.67	0.76
54:B8:34:TRP:CD2	54:B8:35:GLN:OE1	2.38	0.76
28:DE:50:GLY:O	28:DE:51:PHE:CB	2.33	0.76
39:DR:54:ARG:HG2	39:DR:54:ARG:NH1	1.89	0.76
2:AE:22:LYS:HA	2:AE:22:LYS:NZ	2.01	0.76
6:AI:67:MET:HB2	6:AI:68:PRO:HD2	1.66	0.76
23:AC:1:C:C2'	23:AC:2:G:OP2	2.34	0.76
25:BA:607:U:OP1	29:BF:102:PRO:HA	1.85	0.76
25:BA:1899:G:N2	25:BA:1902:C:C5	2.54	0.76
25:BA:2317:C:H2'	25:BA:2318:G:C5'	2.13	0.76
35:BO:83:VAL:HG12	35:BO:112:LEU:HD21	1.67	0.76
39:BR:3:ARG:HB3	39:BR:7:ILE:HG13	1.68	0.76
39:BR:64:ARG:HB2	39:BR:73:GLU:HG2	1.65	0.76
1:CA:1322:C:O2'	1:CA:1323:G:H5'	1.85	0.76
25:DA:1019:U:H3	25:DA:1142(A):A:H62	1.30	0.76
26:DB:103:U:O2'	45:DV:72:ARG:HG2	1.86	0.76
36:DP:7:MET:HB3	36:DP:10:ARG:NH2	2.00	0.76
39:DR:55:ASN:N	39:DR:59:THR:HG22	1.98	0.76
13:AP:39:ILE:HD13	13:AP:52:GLU:HB3	1.68	0.76
25:DA:1864:U:OP1	25:DA:2410:G:O2'	2.04	0.76
37:D0:37:THR:HG23	37:D0:39:PRO:HD2	1.67	0.76
22:AB:16:U:OP1	22:AB:17:U:N3	2.19	0.76
23:AC:62:C:H2'	23:AC:63:C:H6	1.51	0.76
1:CA:1320:C:H2'	1:CA:1321:C:C6	2.21	0.76
6:CI:33:TYR:CE1	6:CI:78:GLU:HG3	2.20	0.76
23:CC:24:C:H2'	23:CC:25:U:C6	2.19	0.76
23:CC:24:C:H2'	23:CC:25:U:H6	1.50	0.76
25:DA:861:A:C2	25:DA:917:A:C4	2.74	0.76
25:DA:2872:G:C5	25:DA:2873:A:C2	2.74	0.76
25:DA:2880:C:H1'	37:D0:92:GLY:HA3	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2893:G:H4'	25:DA:2894:G:O5'	1.85	0.76
37:D0:24:GLN:NE2	37:D0:36:THR:HG21	2.01	0.76
1:AA:1329:A:H5'	13:AP:29:ARG:HD2	1.68	0.76
3:AF:150:LYS:HG3	3:AF:169:ALA:HB2	1.66	0.76
25:BA:528:A:O2'	25:BA:529:A:H5"	1.85	0.76
25:BA:2432:A:C4	47:BZ:33:LYS:HG2	2.20	0.76
25:BA:2467:C:C3'	25:BA:2468:G:H5'	2.14	0.76
27:BD:181:GLU:CA	27:BD:272:ALA:CB	2.62	0.76
28:BE:26:ILE:HD11	28:BE:198:VAL:HG21	1.67	0.76
28:BE:34:VAL:CG1	28:BE:49:LEU:O	2.34	0.76
35:BO:63:PRO:HB3	54:B8:12:LYS:O	1.86	0.76
1:CA:802:A:H5'	1:CA:803:G:OP2	1.85	0.76
1:CA:1319:A:H5'	1:CA:1320:C:OP1	1.85	0.76
25:DA:330:A:H2	25:DA:1210:A:O2'	1.68	0.76
25:DA:1005:C:H1'	25:DA:1143:A:N1	1.99	0.76
25:DA:2420:C:N4	54:D8:31:HIS:HB3	2.00	0.76
25:DA:2553:G:H5"	25:DA:2554:U:OP2	1.85	0.76
25:DA:2638:G:P	28:DE:82:ARG:NH2	2.58	0.76
29:DF:178:PRO:HB2	29:DF:201:VAL:HG11	1.66	0.76
1:AA:1053:G:C5'	1:AA:1054:C:H5'	2.12	0.76
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.21	0.76
2:AE:178:ARG:HH22	2:AE:196:LEU:HA	1.51	0.76
25:BA:2466:C:C2'	25:BA:2467:C:H5'	2.16	0.76
27:BD:35:LYS:HE3	27:BD:64:ILE:C	2.11	0.76
28:BE:46:ALA:O	28:BE:47:VAL:HG22	1.85	0.76
29:BF:178:PRO:HB2	29:BF:201:VAL:CG1	2.16	0.76
36:BP:68:ILE:HD13	36:BP:103:MET:CG	2.15	0.76
40:B1:66:ASN:HB2	40:B1:76:TYR:HB2	1.68	0.76
4:CG:175:SER:HB3	4:CG:186:LEU:HD11	1.68	0.76
25:DA:1140:C:H1'	25:DA:1143:A:C8	2.20	0.76
27:DD:148:GLU:HB2	27:DD:151:LYS:HD2	1.68	0.76
35:DO:47:ASP:OD2	35:DO:49:ARG:HD3	1.86	0.76
1:AA:365:U:H5"	1:AA:366:C:OP1	1.86	0.76
1:AA:1023:G:H3'	1:AA:1024:G:H5"	1.68	0.76
1:AA:1286:A:H5"	21:AX:26:LYS:HD2	1.68	0.76
20:AW:53:LEU:HB3	20:AW:102:GLY:HA3	1.67	0.76
25:BA:2134:A:N6	25:BA:2157:G:H1'	2.01	0.76
1:CA:1025:U:O2'	1:CA:1026:G:O4'	2.04	0.76
2:CE:16:HIS:CE1	2:CE:213:LEU:HD13	2.20	0.76
25:DA:2688:U:H5	25:DA:2720:U:OP2	1.68	0.76
26:DB:38:C:H42	26:DB:44:G:H1	1.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DH:151:ILE:O	31:DH:152:ARG:CG	2.30	0.76
39:DR:90:GLN:HA	39:DR:90:GLN:HE21	1.49	0.76
1:AA:474:G:H2'	1:AA:475:G:H8	1.51	0.76
25:BA:138:G:N2	43:BT:44:GLU:OE2	2.16	0.76
25:BA:1728:G:H8	25:BA:1732:A:H62	1.32	0.76
25:BA:2309:A:C2'	25:BA:2310:A:H5"	2.14	0.76
35:BO:64:LYS:HB2	54:B8:25:MET:HG3	1.66	0.76
37:B0:33:ARG:HG3	37:B0:115:GLU:HB3	1.67	0.76
1:CA:1187:G:OP1	9:CL:113:LYS:NZ	2.18	0.76
2:CE:178:ARG:HH11	2:CE:178:ARG:HB2	1.50	0.76
25:DA:774:A:H2	25:DA:787:U:HO2'	1.33	0.76
25:DA:1427:A:H4'	25:DA:1428:C:O5'	1.85	0.76
32:DK:72:LEU:HD21	32:DK:107:VAL:HG11	1.67	0.76
45:DV:115:GLY:HA3	45:DV:174:VAL:HG12	1.68	0.76
1:AA:1126:U:H5	1:AA:1127:G:C4	2.04	0.75
3:AF:70:VAL:HG12	3:AF:72:LYS:H	1.52	0.75
8:AK:86:ILE:HG22	8:AK:87:SER:H	1.50	0.75
28:BE:16:ARG:O	28:BE:17:ASP:HB2	1.85	0.75
48:BW:17:SER:HB3	48:BW:67:LYS:HD3	1.67	0.75
24:C1:14:U:OP1	24:C1:14:U:H4'	1.78	0.75
25:DA:273(C):C:N4	25:DA:363(C):G:H1	1.82	0.75
28:DE:48:GLN:HG2	28:DE:78:LEU:CB	2.15	0.75
35:DO:36:LYS:HZ2	35:DO:36:LYS:HB2	1.50	0.75
45:DV:146:ILE:CG1	45:DV:147:GLY:H	1.89	0.75
52:D6:29:ASN:ND2	52:D6:29:ASN:H	1.85	0.75
1:AA:1422:G:H5'	34:BN:48:PRO:HB3	1.68	0.75
2:AE:14:GLY:HA3	2:AE:209:ARG:HH21	1.51	0.75
25:BA:881:G:H3'	25:BA:882:G:O4'	1.86	0.75
25:BA:1509:C:H3'	25:BA:1510:A:H5"	1.67	0.75
25:BA:1885:A:H8	25:BA:1885:A:H5'	1.51	0.75
25:BA:2780:G:OP2	33:BM:118:LYS:HD3	1.86	0.75
44:BU:81:LYS:NZ	44:BU:96:ILE:HD12	2.01	0.75
1:CA:365:U:H5"	1:CA:366:C:OP1	1.86	0.75
10:CM:49:VAL:HG12	14:CQ:41:ARG:HB2	1.66	0.75
15:CR:39:LEU:HD12	15:CR:56:LEU:HB2	1.68	0.75
25:DA:1188:U:C2'	25:DA:1189:A:H5'	2.16	0.75
25:DA:1460:A:H4'	25:DA:1461:G:OP2	1.86	0.75
28:DE:80:GLU:O	28:DE:81:ILE:CB	2.34	0.75
29:DF:89:VAL:CG1	29:DF:90:PHE:N	2.30	0.75
54:D8:39:LYS:HG2	54:D8:40:GLU:N	1.99	0.75
5:AH:45:PHE:CE2	5:AH:47:LYS:HD2	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:63:ILE:HD11	9:AL:81:ILE:HD11	1.67	0.75
17:AT:22:LEU:HD11	17:AT:39:SER:HB3	1.68	0.75
23:AD:64:G:H2'	23:AD:65:G:C8	2.21	0.75
30:BG:67:LYS:O	30:BG:67:LYS:HD2	1.85	0.75
31:BH:153:LYS:CG	31:BH:162:ILE:H	1.99	0.75
8:CK:20:TYR:HE2	8:CK:75:ARG:HD2	1.49	0.75
25:DA:1485:G:O2'	25:DA:1486:A:H5'	1.86	0.75
25:DA:2128:C:H2'	25:DA:2129:C:C6	2.21	0.75
36:DP:90:VAL:O	36:DP:90:VAL:HG12	1.84	0.75
38:DQ:86:ALA:O	38:DQ:87:PHE:CB	2.34	0.75
48:DW:17:SER:HB2	48:DW:18:PRO:C	2.11	0.75
25:BA:1053:C:H42	25:BA:1106:G:H1	1.31	0.75
28:BE:59:VAL:HG11	28:BE:63:LEU:CD1	2.15	0.75
28:BE:59:VAL:HG21	28:BE:73:GLU:HB3	1.69	0.75
35:BO:16:ARG:HG3	35:BO:16:ARG:HH11	1.49	0.75
35:BO:112:LEU:H	35:BO:128:HIS:CD2	2.05	0.75
9:CL:47:LEU:HD23	9:CL:50:LEU:HD12	1.69	0.75
25:DA:602:G:HO2'	25:DA:604:G:HO2'	1.32	0.75
50:D4:32:TYR:O	50:D4:33:VAL:HG22	1.86	0.75
1:AA:686:U:O2'	1:AA:687:A:O5'	2.04	0.75
1:AA:1025:U:O2'	1:AA:1026:G:O5'	2.04	0.75
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.50	0.75
1:AA:1132:C:H2'	1:AA:1133:G:C8	2.22	0.75
1:AA:1450:U:O2'	1:AA:1451:A:H8	1.69	0.75
25:BA:2373:G:H1	25:BA:2380:C:N4	1.84	0.75
28:BE:23:VAL:CG1	28:BE:185:LYS:HA	2.17	0.75
28:BE:35:GLN:O	28:BE:36:ARG:HG2	1.85	0.75
31:BH:4:ILE:HG13	31:BH:6:ARG:CZ	2.16	0.75
1:CA:164:U:H2'	1:CA:165:C:H6	1.50	0.75
3:CF:43:LEU:O	3:CF:47:LEU:HB2	1.87	0.75
25:DA:587:C:O2	35:DO:33:ARG:NH1	2.20	0.75
25:DA:851:U:OP1	49:DX:49:LYS:HE2	1.87	0.75
10:AM:8:LEU:HD12	10:AM:20:ALA:HB2	1.68	0.75
25:BA:1728:G:H3'	25:BA:1729:A:H5"	1.67	0.75
25:BA:2306:C:H3'	25:BA:2307:G:C5'	2.17	0.75
26:BB:37:C:H2'	26:BB:38:C:H5'	1.69	0.75
29:BF:127:GLU:OE2	29:BF:127:GLU:HA	1.84	0.75
38:BQ:85:VAL:HG23	38:BQ:112:PHE:CE1	2.22	0.75
22:CB:17:U:H5"	22:CB:18:G:C8	2.21	0.75
25:DA:2015:A:C2	51:D5:6:VAL:HG23	2.22	0.75
25:DA:2602:A:H4'	25:DA:2603:G:O5'	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:D1:92:ARG:HD2	40:D1:95:LEU:HD12	1.68	0.75
43:DT:23:GLU:HG3	43:DT:24:GLY:H	1.52	0.75
1:AA:1318:A:H1'	19:AV:37:ARG:HH21	1.49	0.75
15:AR:74:ASP:CG	15:AR:77:ARG:HG2	2.10	0.75
25:BA:273(F):C:H3'	25:BA:274:G:H5"	1.68	0.75
25:BA:654(M):C:H2'	25:BA:654(N):G:N7	2.01	0.75
25:BA:2116:G:P	25:BA:2165:G:H22	2.09	0.75
25:BA:2422:A:H4'	25:BA:2423:U:OP1	1.87	0.75
36:BP:20:ALA:HB2	36:BP:99:PRO:HD2	1.67	0.75
1:CA:1036:G:H2'	1:CA:1037:C:C2	2.21	0.75
1:CA:1274:G:O2'	1:CA:1275:A:H5'	1.86	0.75
36:DP:29:PHE:CG	36:DP:65:PHE:CE1	2.75	0.75
52:D6:15:GLU:HG2	52:D6:16:CYS:H	1.52	0.75
1:AA:437:U:H5"	4:AG:155:LEU:HD22	1.68	0.75
1:AA:624:C:O3'	16:AS:10:GLY:HA2	1.87	0.75
1:AA:977:A:H8	1:AA:1223:C:N3	1.85	0.75
25:BA:1427:A:H4'	25:BA:1428:C:O5'	1.84	0.75
35:BO:39:LYS:HG3	35:BO:45:LEU:HD22	1.69	0.75
36:BP:66:ILE:O	36:BP:67:ARG:HB2	1.86	0.75
38:BQ:106:ARG:HA	38:BQ:110:LEU:HD11	1.68	0.75
42:BS:29:LEU:HD21	42:BS:33:ARG:CZ	2.17	0.75
25:DA:90:U:O2'	25:DA:91:A:C8	2.37	0.75
25:DA:2340:G:O2'	25:DA:2341:G:H5'	1.86	0.75
41:D2:76:LYS:CB	41:D2:79:VAL:HG21	2.17	0.75
25:BA:879:G:H1	25:BA:898:C:N4	1.85	0.75
25:BA:1060:U:H1'	25:BA:1061:U:OP2	1.87	0.75
33:BM:46:VAL:CG1	33:BM:47:ALA:H	1.98	0.75
1:CA:983:A:N1	1:CA:1222:G:N2	2.33	0.75
1:CA:1129:C:C4	1:CA:1139:G:C2	2.75	0.75
1:CA:1286:A:C8	1:CA:1287:A:H4'	2.21	0.75
1:CA:1298:C:OP2	7:CJ:114:ARG:NH2	2.18	0.75
7:CJ:78:ARG:CZ	7:CJ:80:VAL:HB	2.17	0.75
14:CQ:45:ARG:HG3	14:CQ:45:ARG:HH11	1.52	0.75
29:DF:132:VAL:HG22	29:DF:133:ASN:H	1.50	0.75
30:DG:111:LEU:HB2	30:DG:112:PRO:HD3	1.69	0.75
35:DO:135:LEU:O	35:DO:139:LYS:HB2	1.86	0.75
25:BA:330:A:O2'	25:BA:331:A:C8	2.40	0.74
25:BA:1403:C:H5"	25:BA:1471:A:H1'	1.66	0.74
25:BA:1607:C:H4'	25:BA:1608:A:O5'	1.86	0.74
38:BQ:85:VAL:HG21	38:BQ:112:PHE:HZ	1.52	0.74
1:CA:179:A:H2'	1:CA:180:U:H6	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DH:150:ALA:C	31:DH:152:ARG:H	1.95	0.74
33:DM:29:LYS:HE2	33:DM:29:LYS:HA	1.68	0.74
34:DN:115:VAL:HG13	34:DN:121:VAL:HG21	1.68	0.74
36:DP:66:ILE:CG1	36:DP:67:ARG:N	2.49	0.74
41:D2:83:ARG:H	41:D2:83:ARG:HD3	1.49	0.74
45:DV:28:MET:HG3	45:DV:37:VAL:HG11	1.69	0.74
1:AA:1348:U:H4'	9:AL:120:ARG:HD2	1.68	0.74
13:AP:3:ARG:HG2	13:AP:9:ILE:CG1	2.17	0.74
25:BA:654(A):A:C2	25:BA:654(T):A:N1	2.54	0.74
25:BA:1026:U:H4'	25:BA:1027:A:OP1	1.85	0.74
28:BE:51:PHE:CD1	28:BE:52:LEU:HD21	2.22	0.74
37:B0:74:LYS:C	37:B0:76:VAL:H	1.95	0.74
1:CA:1305:G:O2'	1:CA:1306:A:H8	1.68	0.74
25:DA:1012:U:C4	25:DA:1143:A:N1	2.55	0.74
25:DA:1142:U:O2	25:DA:1142:U:H2'	1.87	0.74
33:DM:128:HIS:NE2	33:DM:134:ARG:HD2	2.02	0.74
1:AA:975:A:C4'	1:AA:976:G:H5"	2.17	0.74
3:AF:166:GLU:HG3	3:AF:167:TRP:H	1.51	0.74
25:BA:2298:A:H62	25:BA:2318:G:H8	1.31	0.74
35:BO:64:LYS:CB	54:B8:25:MET:CG	2.60	0.74
38:BQ:83:LYS:C	38:BQ:109:GLY:HA2	2.12	0.74
1:CA:1325:C:H4'	21:CX:17:THR:HG21	1.68	0.74
27:DD:35:LYS:HD3	27:DD:63:ARG:C	2.13	0.74
27:DD:246:PRO:HD2	27:DD:255:LYS:HE2	1.68	0.74
54:D8:49:VAL:O	54:D8:50:LEU:HD12	1.86	0.74
28:BE:23:VAL:HA	28:BE:185:LYS:HA	1.70	0.74
28:BE:116:VAL:O	28:BE:117:MET:HB3	1.88	0.74
47:BZ:8:SER:OG	47:BZ:10:LYS:HG3	1.88	0.74
54:B8:34:TRP:O	54:B8:35:GLN:HG3	1.88	0.74
54:B8:34:TRP:CZ3	54:B8:35:GLN:OE1	2.41	0.74
25:DA:2580:U:H4'	28:DE:130:GLY:CA	2.17	0.74
29:DF:181:LEU:HD21	29:DF:186:ILE:HD11	1.69	0.74
38:DQ:19:LYS:O	38:DQ:20:ARG:HD3	1.86	0.74
45:DV:175:VAL:HG22	45:DV:176:PRO:CD	2.17	0.74
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.03	0.74
25:BA:314:A:C2'	25:BA:315:G:H5'	2.18	0.74
25:BA:2467:C:H4'	36:BP:123:HIS:ND1	2.02	0.74
25:BA:2690:C:H5"	25:BA:2872:G:H21	1.51	0.74
1:CA:913:A:H4'	1:CA:914:A:O5'	1.87	0.74
4:CG:15:GLU:OE1	4:CG:66:ARG:NH1	2.21	0.74
35:DO:64:LYS:HB3	54:D8:25:MET:HG3	1.49	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AH:10:MET:HB3	5:AH:32:VAL:HG22	1.69	0.74
10:AM:48:THR:HG23	10:AM:62:HIS:HB3	1.69	0.74
25:BA:1264:G:H5'	51:B5:11:THR:CG2	2.18	0.74
4:CG:24:GLU:N	4:CG:24:GLU:OE2	2.21	0.74
25:DA:2531:A:H4'	31:DH:157:TYR:CD2	2.22	0.74
1:AA:27:G:H4'	4:AG:209:ARG:HG3	1.69	0.74
25:BA:1049:C:H2'	25:BA:1050:A:H5'	1.68	0.74
27:BD:182:LEU:N	27:BD:272:ALA:HB2	2.02	0.74
45:BV:54:HIS:NE2	45:BV:123:ASP:OD2	2.20	0.74
25:DA:674:G:H1'	29:DF:74:ARG:HD3	1.68	0.74
35:DO:15:ARG:HH11	35:DO:15:ARG:CB	2.01	0.74
35:DO:38:GLN:HG2	35:DO:45:LEU:CD1	2.18	0.74
49:DX:19:GLN:HE22	49:DX:52:HIS:HE1	1.35	0.74
54:D8:50:LEU:O	54:D8:51:ALA:HB3	1.87	0.74
1:AA:1004:A:H8	1:AA:1036:G:N1	1.85	0.74
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.53	0.74
10:AM:48:THR:HA	10:AM:62:HIS:HB3	1.70	0.74
39:BR:39:ARG:HG2	39:BR:40:THR:H	1.53	0.74
1:CA:407:G:H1	1:CA:435:C:H42	1.34	0.74
1:CA:1435:G:H2'	1:CA:1436:U:H6	1.52	0.74
2:CE:91:PRO:HG3	2:CE:154:LEU:HB3	1.69	0.74
35:DO:122:PRO:HB3	35:DO:141:ALA:HB1	1.68	0.74
45:DV:60:GLU:HA	45:DV:66:SER:HA	1.69	0.74
2:AE:60:ASP:HB3	2:AE:64:ARG:HH12	1.52	0.74
41:B2:35:LEU:HD22	41:B2:35:LEU:H	1.53	0.74
1:CA:972:C:O3'	10:CM:57:LYS:HG3	1.87	0.74
2:CE:7:VAL:HG22	2:CE:8:LYS:H	1.52	0.74
2:CE:19:HIS:NE2	2:CE:206:ASP:HB2	2.03	0.74
4:CG:3:ARG:NH2	4:CG:5:ILE:HG12	2.01	0.74
22:CB:44:G:C2'	22:CB:45:U:H5'	2.18	0.74
25:DA:2057:A:O2'	25:DA:2058:A:H5'	1.88	0.74
25:DA:2210:G:H3'	25:DA:2211:G:C5	2.21	0.74
26:DB:42:C:O2	30:DG:93:THR:N	2.18	0.74
27:DD:68:LYS:HD3	27:DD:70:TRP:CZ2	2.23	0.74
28:DE:44:TYR:O	28:DE:45:THR:CB	2.36	0.74
36:DP:66:ILE:CG1	36:DP:67:ARG:H	1.99	0.74
43:DT:63:LYS:O	43:DT:63:LYS:HD2	1.88	0.74
1:AA:438:G:H4'	4:AG:123:HIS:CG	2.23	0.74
1:AA:687:A:H4'	1:AA:688:G:O5'	1.86	0.74
3:AF:19:GLU:HA	3:AF:54:ARG:HH12	1.52	0.74
7:AJ:26:PHE:CE2	7:AJ:30:ILE:HD11	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AX:15:ARG:HH11	21:AX:15:ARG:CG	1.98	0.74
25:BA:102:G:OP1	48:BW:7:ARG:NH2	2.20	0.74
25:BA:336:C:H5"	44:BU:6:HIS:HD2	1.53	0.74
25:BA:1139:G:O2'	25:BA:1143:A:N1	2.20	0.74
30:BG:70:VAL:HG21	30:BG:87:PRO:HB3	1.69	0.74
30:BG:112:PRO:HB3	50:B4:37:SER:CB	2.17	0.74
47:BZ:58:ILE:CD1	47:BZ:86:SER:HB2	2.18	0.74
5:CH:101:ILE:HD11	5:CH:119:LEU:HD23	1.70	0.74
12:CO:70:ILE:HD13	12:CO:77:LEU:HD12	1.67	0.74
25:DA:2656:U:H3	25:DA:2665:A:H2	1.35	0.74
33:DM:47:ALA:HB2	33:DM:112:LEU:CD1	2.13	0.74
52:D6:23:THR:O	52:D6:24:GLU:HB2	1.88	0.74
1:AA:244:U:H4'	1:AA:245:C:O5'	1.86	0.73
1:AA:254:G:OP1	17:AT:67:LYS:O	2.06	0.73
1:AA:382:A:H2'	1:AA:383:A:C8	2.22	0.73
2:AE:141:GLU:O	2:AE:145:LEU:HB2	1.88	0.73
14:AQ:23:ARG:HH11	14:AQ:23:ARG:HG3	1.53	0.73
15:AR:56:LEU:O	15:AR:60:VAL:HG23	1.88	0.73
15:AR:70:LEU:HD11	15:AR:77:ARG:HG3	1.70	0.73
24:A1:13:U:H2'	24:A1:13:U:O2	1.87	0.73
25:BA:566:U:OP1	35:BO:29:LYS:HE3	1.88	0.73
25:BA:2733:A:H2'	25:BA:2734:A:H5"	1.70	0.73
30:BG:96:ARG:HG2	30:BG:96:ARG:NH1	1.97	0.73
30:BG:110:ALA:HA	30:BG:140:ILE:O	1.87	0.73
38:BQ:36:TYR:N	38:BQ:36:TYR:HD1	1.85	0.73
4:CG:3:ARG:HH11	4:CG:115:ARG:HB3	1.53	0.73
23:CC:32:G:C5	23:CC:33:C:C5	2.76	0.73
30:DG:111:LEU:HB3	30:DG:117:PHE:HE2	1.51	0.73
44:DU:76:CYS:O	44:DU:78:ALA:N	2.21	0.73
17:AT:45:HIS:O	17:AT:73:VAL:HG23	1.87	0.73
25:BA:1165:U:H2'	25:BA:1166:C:H6	1.53	0.73
25:BA:2310:A:C2	30:BG:77:ILE:HG13	2.21	0.73
28:BE:38:THR:CB	28:BE:39:PRO:HD2	2.18	0.73
28:BE:78:LEU:CD1	28:BE:79:ARG:H	2.00	0.73
29:BF:67:GLN:O	29:BF:67:GLN:HG3	1.86	0.73
35:BO:50:ARG:HH21	35:BO:50:ARG:CG	2.01	0.73
38:BQ:85:VAL:HG21	38:BQ:112:PHE:CZ	2.23	0.73
25:DA:287:C:H2'	25:DA:288:C:H6	1.51	0.73
25:DA:1300:U:H4'	25:DA:1301:A:H5"	1.70	0.73
25:DA:1597:A:H5"	25:DA:1598:C:OP1	1.88	0.73
25:DA:1952:A:C6	34:DN:22:ILE:CD1	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2420:C:H41	54:D8:31:HIS:CB	2.01	0.73
31:DH:125:VAL:HG22	31:DH:126:PRO:CD	2.06	0.73
32:DK:101:LEU:HD23	32:DK:101:LEU:H	1.53	0.73
36:DP:66:ILE:HD12	36:DP:67:ARG:CA	2.17	0.73
41:D2:71:LEU:CA	41:D2:86:GLY:HA2	2.17	0.73
52:D6:35:GLU:O	52:D6:36:LEU:HB2	1.89	0.73
1:AA:250:A:H4'	1:AA:251:G:C5'	2.18	0.73
25:BA:2690:C:H5"	25:BA:2872:G:N2	2.03	0.73
26:BB:37:C:C2'	26:BB:38:C:H5'	2.18	0.73
28:BE:41:LYS:NZ	28:BE:41:LYS:HB2	2.03	0.73
28:BE:59:VAL:O	28:BE:60:ASN:CG	2.30	0.73
45:BV:152:ALA:HB3	45:BV:167:PRO:O	1.88	0.73
9:CL:79:LEU:HD13	9:CL:83:ARG:HD2	1.68	0.73
25:DA:1126:A:H4'	25:DA:1127:A:O5'	1.88	0.73
36:DP:75:THR:CB	36:DP:88:GLY:HA3	2.16	0.73
25:BA:654(A):A:H2	25:BA:654(T):A:N1	1.87	0.73
25:BA:1298:C:H5"	25:BA:1299:G:OP2	1.88	0.73
25:BA:2310:A:H2'	25:BA:2311:A:H5"	1.70	0.73
29:BF:32:LEU:O	29:BF:32:LEU:HD12	1.88	0.73
35:BO:15:ARG:HH11	35:BO:15:ARG:CB	2.01	0.73
41:B2:44:LYS:CD	41:B2:45:THR:H	1.99	0.73
1:CA:1028:C:H42	1:CA:1033:G:H1	1.35	0.73
2:CE:132:LYS:HA	2:CE:135:GLN:HB2	1.69	0.73
16:CS:5:ARG:NH1	16:CS:22:THR:HG21	2.03	0.73
26:DB:39:A:C6	50:D4:1:MET:HB3	2.22	0.73
27:DD:30:GLU:CD	27:DD:63:ARG:HH21	1.95	0.73
52:D6:31:PRO:HB2	52:D6:33:LYS:HB2	1.70	0.73
1:AA:280:C:H3'	1:AA:281:G:H5'	1.70	0.73
1:AA:1251:A:H4'	9:AL:12:GLU:OE1	1.88	0.73
10:AM:55:LYS:HB3	10:AM:55:LYS:NZ	2.03	0.73
25:BA:1210:A:H5'	25:BA:1210:A:H8	1.52	0.73
33:BM:58:ASP:H	33:BM:60:ILE:HD11	1.54	0.73
50:B4:52:THR:OG1	50:B4:53:GLU:N	2.21	0.73
1:CA:1346:A:H1'	1:CA:1347:G:OP2	1.88	0.73
25:DA:205:G:H1'	25:DA:206:U:OP2	1.88	0.73
25:DA:598:G:H1'	35:DO:12:ALA:HB2	1.70	0.73
30:DG:112:PRO:HB2	50:D4:37:SER:HA	1.71	0.73
42:DS:65:LEU:HD13	42:DS:68:ARG:CD	2.17	0.73
25:BA:2402:C:HO2'	25:BA:2403:C:P	2.11	0.73
26:BB:15:A:H4'	26:BB:15:A:OP1	1.88	0.73
41:B2:47:VAL:CG2	41:B2:48:GLY:N	2.39	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1070:A:H5'	25:DA:1071:G:C5'	2.18	0.73
28:DE:47:VAL:HG11	28:DE:49:LEU:HD23	1.71	0.73
33:DM:97:ARG:HG2	33:DM:97:ARG:NH1	1.95	0.73
36:DP:3:MET:HB2	36:DP:93:TYR:CD1	2.24	0.73
40:D1:65:ILE:HD11	40:D1:96:ALA:CB	2.18	0.73
47:DZ:78:LYS:O	47:DZ:78:LYS:HD2	1.89	0.73
1:AA:530:G:H4'	1:AA:531:U:OP2	1.87	0.73
1:AA:606:G:H22	1:AA:631:G:H8	1.36	0.73
9:AL:5:TYR:HE2	9:AL:16:ARG:HG2	1.54	0.73
25:BA:1063:G:H1	25:BA:1075:C:H42	1.36	0.73
25:BA:2562:U:H1'	34:BN:23:ARG:HH11	1.51	0.73
1:CA:972:C:H4'	10:CM:57:LYS:HG3	1.71	0.73
25:DA:2343:C:O2'	25:DA:2373:G:O2'	2.05	0.73
33:DM:47:ALA:CB	33:DM:112:LEU:HD11	2.12	0.73
52:D6:52:VAL:HG22	52:D6:53:LYS:HG3	1.71	0.73
4:AG:5:ILE:HG22	4:AG:6:GLY:N	2.01	0.73
25:BA:2393:A:H5'	35:BO:62:LEU:CB	2.19	0.73
36:BP:30:GLY:CA	36:BP:107:ALA:HB2	2.18	0.73
40:B1:69:CYS:HG	40:B1:79:PHE:HD1	1.36	0.73
41:B2:66:ARG:NH1	41:B2:88:ARG:HD3	2.04	0.73
1:CA:353:A:H8	1:CA:353:A:H5'	1.52	0.73
25:DA:1826:G:H4'	27:DD:242:ARG:NH2	2.01	0.73
25:DA:2127:G:H21	25:DA:2173:A:H8	1.37	0.73
25:DA:2531:A:H5'	31:DH:157:TYR:HE2	1.52	0.73
35:DO:88:LEU:HD11	35:DO:95:VAL:HG21	1.71	0.73
43:DT:60:ARG:HH11	43:DT:60:ARG:CG	2.01	0.73
1:AA:200:G:N2	1:AA:218:C:O2	2.22	0.73
5:AH:10:MET:SD	5:AH:13:ILE:HD13	2.29	0.73
27:BD:35:LYS:HA	27:BD:64:ILE:HG22	1.71	0.73
29:BF:29:ASN:H	29:BF:112:MET:HE1	1.53	0.73
33:BM:133:GLN:H	33:BM:133:GLN:NE2	1.87	0.73
43:BT:15:GLU:CD	43:BT:15:GLU:H	1.96	0.73
1:CA:1199:U:H4'	10:CM:54:PHE:CE1	2.23	0.73
1:CA:1392:G:H21	1:CA:1502:A:H8	1.36	0.73
3:CF:35:GLU:HG3	3:CF:38:ARG:HH21	1.54	0.73
10:CM:54:PHE:CD2	10:CM:55:LYS:HD2	2.24	0.73
25:DA:228:A:H3'	25:DA:228:A:H8	1.53	0.73
28:DE:47:VAL:HG13	28:DE:48:GLN:H	1.53	0.73
1:AA:156:G:H1	1:AA:165:C:H42	1.37	0.73
2:AE:60:ASP:HB3	2:AE:64:ARG:NH1	2.03	0.73
23:AD:21:U:H3'	23:AD:22:A:C5'	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:49:A:C8	25:BA:120:U:C5	2.74	0.73
27:BD:69:ARG:NH2	27:BD:128:GLY:O	2.22	0.73
32:BK:125:GLU:OE1	32:BK:141:LYS:HB3	1.89	0.73
39:BR:74:ARG:HD3	39:BR:76:PHE:CZ	2.24	0.73
46:B3:83:PRO:O	46:B3:84:LEU:HB2	1.87	0.73
1:CA:498:A:H4'	1:CA:500:G:OP1	1.87	0.73
5:CH:143:ARG:NH1	8:CK:77:GLU:OE1	2.22	0.73
16:CS:8:ARG:HH11	16:CS:8:ARG:HG2	1.53	0.73
22:CB:55:G:H2'	22:CB:56:G:H8	1.53	0.73
25:DA:527:C:OP2	25:DA:2779:U:H5	1.71	0.73
25:DA:864:G:C6	25:DA:865:C:N4	2.56	0.73
28:DE:5:LEU:HD21	28:DE:79:ARG:HB2	1.70	0.73
36:DP:33:GLY:HA2	36:DP:105:GLU:HB2	1.70	0.73
41:D2:70:ILE:O	41:D2:71:LEU:HB2	1.88	0.73
50:D4:1:MET:C	50:D4:2:LYS:HD3	2.14	0.73
20:AW:100:ILE:HG13	20:AW:101:GLY:N	2.03	0.72
25:BA:559:G:H22	40:B1:49:HIS:CD2	2.06	0.72
25:BA:1204:A:C2	25:BA:1241:A:N1	2.57	0.72
25:BA:2068:U:N3	25:BA:2430:A:C2	2.53	0.72
1:CA:250:A:H4'	1:CA:251:G:O5'	1.88	0.72
12:CO:8:ASN:HD22	17:CT:34:LYS:HE2	1.54	0.72
23:CD:7:G:H3'	23:CD:8:U:H5'	1.71	0.72
36:DP:64:ILE:HD13	36:DP:64:ILE:N	2.01	0.72
1:AA:523:A:H61	12:AO:92:ASP:HB2	1.54	0.72
1:AA:1036:G:H3'	1:AA:1037:C:C6	2.24	0.72
25:BA:1062:G:H2'	25:BA:1063:G:C8	2.23	0.72
25:BA:1903:G:OP1	27:BD:241:PRO:HB2	1.89	0.72
27:BD:64:ILE:O	27:BD:64:ILE:HG12	1.87	0.72
25:DA:1012:U:C5	33:DM:28:THR:HG21	2.23	0.72
25:DA:1839:G:C8	25:DA:1927:A:H1'	2.24	0.72
25:DA:2128:C:H4'	25:DA:2173:A:N6	2.04	0.72
25:DA:2681:C:H2'	25:DA:2681:C:O2	1.88	0.72
27:DD:35:LYS:CE	27:DD:64:ILE:O	2.37	0.72
28:DE:52:LEU:O	28:DE:74:PRO:CA	2.36	0.72
1:CA:1321:C:H3'	1:CA:1322:C:H5"	1.71	0.72
25:DA:1188:U:O2'	25:DA:1189:A:H5'	1.88	0.72
25:DA:1278:A:O2'	37:D0:34:ILE:HD11	1.89	0.72
25:DA:2219:G:H2'	25:DA:2224:G:H5'	1.71	0.72
29:DF:31:HIS:CB	35:DO:9:ASN:OD1	2.37	0.72
38:DQ:58:LEU:HD12	38:DQ:65:VAL:HG22	1.72	0.72
41:D2:70:ILE:O	41:D2:71:LEU:CB	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DT:50:LYS:H	43:DT:87:GLN:HE22	1.35	0.72
1:AA:57:G:H2'	1:AA:58:C:C6	2.23	0.72
16:AS:14:ASN:CG	16:AS:14:ASN:O	2.32	0.72
31:BH:86:GLU:HG3	31:BH:165:ALA:HB2	1.72	0.72
33:BM:133:GLN:HE21	33:BM:133:GLN:H	1.37	0.72
45:BV:76:LEU:HD23	45:BV:76:LEU:H	1.54	0.72
1:CA:235:C:C5'	17:CT:70:ARG:HG2	2.18	0.72
1:CA:1005:A:C2	1:CA:1006:C:H1'	2.24	0.72
22:CB:87:A:H8	25:DA:2583:G:N2	1.83	0.72
25:DA:195:A:OP1	35:DO:46:LYS:CE	2.36	0.72
25:DA:545:G:H21	25:DA:548:A:N6	1.86	0.72
25:DA:832:G:H5'	35:DO:45:LEU:HD11	1.71	0.72
25:DA:1156:A:OP1	40:D1:55:ARG:NH1	2.22	0.72
25:DA:1864:U:C2'	25:DA:1869:G:H5"	2.20	0.72
31:DH:154:PRO:O	31:DH:155:SER:HB3	1.89	0.72
35:DO:11:GLY:C	35:DO:13:ASN:H	1.97	0.72
35:DO:36:LYS:NZ	35:DO:36:LYS:HB2	2.02	0.72
36:DP:75:THR:HG21	36:DP:87:LYS:CE	2.18	0.72
45:DV:105:VAL:HG22	45:DV:106:GLY:H	1.52	0.72
19:AV:50:ALA:HB1	19:AV:57:HIS:HB3	1.70	0.72
23:AD:57:C:N3	25:BA:2112:G:N2	2.36	0.72
25:BA:518:G:H4'	42:BS:18:ARG:HH11	1.53	0.72
27:BD:34:VAL:HG22	27:BD:35:LYS:HG3	1.72	0.72
30:BG:72:ARG:HH21	30:BG:87:PRO:HD3	1.54	0.72
40:B1:92:ARG:HD3	40:B1:94:ASN:HB3	1.72	0.72
1:CA:748:C:H4'	1:CA:749:C:O5'	1.87	0.72
1:CA:1502:A:H2	1:CA:1505:G:H1	1.38	0.72
25:DA:71:A:OP2	25:DA:71:A:H3'	1.89	0.72
25:DA:511:U:H3'	25:DA:512:G:H5"	1.72	0.72
25:DA:1342:A:C2	25:DA:1602:U:N3	2.57	0.72
25:DA:2131:G:OP1	25:DA:2132:U:H3'	1.89	0.72
1:AA:625:G:C5'	16:AS:16:HIS:HD2	2.03	0.72
1:AA:731:G:OP1	1:AA:766:A:H1'	1.90	0.72
33:BM:46:VAL:O	33:BM:47:ALA:HB3	1.89	0.72
34:BN:67:LYS:HE3	34:BN:68:GLU:OE1	1.88	0.72
52:B6:15:GLU:HG2	52:B6:16:CYS:N	2.05	0.72
4:CG:13:ARG:CG	4:CG:14:ARG:H	1.93	0.72
25:DA:888:C:H4'	25:DA:889:C:C5'	2.20	0.72
25:DA:2287:A:N1	25:DA:2346:A:C2	2.58	0.72
1:AA:143:A:H2	1:AA:220:G:H1	1.37	0.72
4:AG:81:GLU:OE1	4:AG:139:ARG:NH2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AI:89:MET:CE	18:AU:76:LEU:HD23	2.14	0.72
11:AN:77:MET:HE3	11:AN:80:VAL:HG12	1.71	0.72
33:BM:46:VAL:HG13	33:BM:47:ALA:N	2.05	0.72
36:BP:30:GLY:HA2	36:BP:107:ALA:HB2	1.72	0.72
38:BQ:35:ILE:C	38:BQ:36:TYR:HD1	1.97	0.72
44:BU:78:ALA:HB3	44:BU:81:LYS:NZ	2.03	0.72
25:DA:1416:G:O2'	25:DA:1417:C:O5'	2.06	0.72
25:DA:2185:C:H2'	25:DA:2186:G:C8	2.24	0.72
49:DX:19:GLN:HE22	49:DX:52:HIS:CE1	2.07	0.72
1:AA:977:A:C8	1:AA:1223:C:C4	2.78	0.72
1:AA:1423:G:OP1	34:BN:49:ARG:NH2	2.21	0.72
25:BA:847:U:C5	25:BA:933:A:N1	2.57	0.72
25:BA:1991:U:H2'	25:BA:1992:G:H5"	1.71	0.72
19:CV:78:ARG:HD3	19:CV:79:THR:H	1.53	0.72
40:D1:91:ASP:C	40:D1:93:LYS:H	1.98	0.72
1:AA:503:C:OP1	12:AO:119:LYS:HE2	1.90	0.72
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.20	0.72
25:BA:1141:U:H6	33:BM:63:THR:OG1	1.71	0.72
25:BA:2157:G:O2'	25:BA:2158:A:O5'	2.07	0.72
30:BG:109:VAL:HG13	50:B4:33:VAL:HG21	1.71	0.72
30:BG:112:PRO:HB3	50:B4:37:SER:HB2	1.72	0.72
31:BH:159:GLU:HG2	31:BH:170:ARG:NH1	2.05	0.72
54:B8:37:SER:HA	54:B8:41:ILE:HG21	1.72	0.72
1:CA:421:U:H5"	1:CA:422:C:OP2	1.89	0.72
1:CA:973:G:OP1	10:CM:57:LYS:NZ	2.23	0.72
3:CF:130:VAL:O	3:CF:134:ILE:HG12	1.89	0.72
25:DA:239:U:H5"	25:DA:239:U:H6	1.55	0.72
29:DF:28:ILE:HA	29:DF:112:MET:HE3	1.72	0.72
40:D1:92:ARG:HD3	40:D1:94:ASN:HB3	1.71	0.72
1:AA:376:G:H5"	16:AS:5:ARG:HD2	1.69	0.72
1:AA:501:C:H2'	1:AA:502:G:C8	2.25	0.72
6:AI:14:LEU:HD22	6:AI:18:GLN:NE2	2.05	0.72
25:BA:1473:G:C2'	25:BA:1474:C:H5'	2.20	0.72
30:BG:73:ALA:CB	30:BG:82:LEU:HD21	2.18	0.72
35:BO:64:LYS:HD2	54:B8:25:MET:SD	2.27	0.72
41:B2:44:LYS:C	41:B2:46:VAL:H	1.98	0.72
44:BU:81:LYS:HZ3	44:BU:96:ILE:HD12	1.55	0.72
1:CA:191:G:O2'	20:CW:103:GLY:HA2	1.90	0.72
7:CJ:97:GLN:HE21	7:CJ:101:LEU:HD11	1.55	0.72
23:CD:54:G:H2'	23:CD:55:U:C6	2.24	0.72
25:DA:148:C:H6	25:DA:148:C:C5'	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1342:A:N1	25:DA:1602:U:C2	2.57	0.72
28:DE:79:ARG:O	28:DE:80:GLU:CB	2.37	0.72
30:DG:37:VAL:O	30:DG:94:LEU:HD23	1.90	0.72
35:DO:57:THR:C	35:DO:59:LEU:H	1.97	0.72
45:DV:138:GLU:O	45:DV:156:LYS:HG3	1.89	0.72
4:AG:29:PRO:C	4:AG:30:LYS:HD3	2.14	0.71
25:BA:2119:A:H61	25:BA:2170:A:N6	1.88	0.71
25:BA:2439:A:C8	25:BA:2439:A:C5'	2.73	0.71
28:BE:19:ARG:NH1	34:BN:72:PRO:CG	2.53	0.71
33:BM:131:GLN:NE2	33:BM:132:ALA:H	1.88	0.71
35:BO:11:GLY:C	35:BO:13:ASN:H	1.94	0.71
1:CA:560:U:HO2'	1:CA:561:U:P	2.11	0.71
8:CK:20:TYR:CE2	8:CK:75:ARG:HD2	2.24	0.71
9:CL:125:TYR:HD2	9:CL:126:SER:N	1.87	0.71
12:CO:32:PHE:HB3	12:CO:84:LEU:CD2	2.20	0.71
18:CU:22:VAL:HG13	18:CU:56:THR:HA	1.71	0.71
23:CD:64:G:H2'	23:CD:65:G:C8	2.25	0.71
25:BA:314:A:H2'	25:BA:315:G:H5'	1.72	0.71
25:BA:654:A:H2'	25:BA:654:A:N3	2.04	0.71
25:BA:2467:C:O2'	25:BA:2468:G:H5'	1.90	0.71
27:BD:35:LYS:HZ1	27:BD:65:ILE:HA	1.55	0.71
1:CA:973:G:N3	10:CM:55:LYS:HE2	2.05	0.71
36:DP:83:MET:SD	36:DP:83:MET:N	2.63	0.71
39:DR:93:ARG:HG2	39:DR:117:ASP:CB	2.19	0.71
44:DU:61:ILE:HG22	44:DU:62:GLU:H	1.55	0.71
54:D8:34:TRP:O	54:D8:35:GLN:C	2.33	0.71
4:AG:122:ARG:HG2	4:AG:122:ARG:NH1	1.98	0.71
8:AK:25:ASP:OD2	8:AK:60:ARG:HG2	1.91	0.71
23:AC:1:C:H2'	23:AC:2:G:OP2	1.90	0.71
25:BA:2689:U:H4'	25:BA:2690:C:H5'	1.71	0.71
49:BX:31:LEU:O	49:BX:32:GLN:HB2	1.88	0.71
50:B4:37:SER:HB3	50:B4:42:PHE:CD1	2.25	0.71
2:CE:71:VAL:HG11	2:CE:97:TRP:HD1	1.54	0.71
23:CC:43:G:H2'	23:CC:44:A:H8	1.56	0.71
25:DA:598:G:C1'	35:DO:12:ALA:HB2	2.21	0.71
25:DA:2611:U:H5'	25:DA:2611:U:H6	1.55	0.71
25:DA:2748:A:C8	25:DA:2754:U:O4	2.42	0.71
25:DA:2839:G:H5'	37:D0:46:GLY:HA2	1.72	0.71
45:DV:87:ASP:N	45:DV:87:ASP:OD2	2.22	0.71
1:AA:353:A:H5'	1:AA:353:A:H8	1.55	0.71
3:AF:58:GLU:HB2	3:AF:65:ALA:CB	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AB:56:G:H2'	22:AB:57:C:H6	1.55	0.71
25:BA:905:U:C2'	25:BA:906:G:H5"	2.21	0.71
25:BA:2682:U:O2'	39:BR:58:ASN:OD1	2.07	0.71
31:BH:115:VAL:HG12	31:BH:115:VAL:O	1.90	0.71
33:BM:1:MET:HE1	40:B1:95:LEU:HD21	1.73	0.71
1:CA:1300:G:O2'	1:CA:1301:U:O5'	2.07	0.71
13:CP:110:ARG:HH11	13:CP:110:ARG:CG	2.04	0.71
15:CR:87:ILE:CG2	15:CR:88:ARG:H	2.03	0.71
25:DA:12:U:O2	25:DA:12:U:H2'	1.90	0.71
29:DF:34:TRP:CZ3	35:DO:8:PRO:HB3	2.24	0.71
47:DZ:4:VAL:HG12	47:DZ:11:ARG:HB3	1.72	0.71
1:AA:1346:A:H5"	9:AL:120:ARG:NH1	2.04	0.71
2:AE:84:GLU:HB3	2:AE:219:VAL:HG21	1.72	0.71
9:AL:112:LYS:HA	9:AL:119:ALA:HB2	1.71	0.71
13:AP:15:VAL:HG23	13:AP:43:THR:O	1.90	0.71
23:AD:57:C:N4	25:BA:2112:G:H1	1.88	0.71
25:BA:873:G:H1	25:BA:904:C:H42	1.38	0.71
35:BO:57:THR:C	35:BO:59:LEU:H	1.97	0.71
1:CA:1285:A:H4'	1:CA:1286:A:O5'	1.91	0.71
3:CF:180:ALA:HB1	3:CF:203:PHE:HE1	1.55	0.71
17:CT:67:LYS:HA	17:CT:70:ARG:HH12	1.55	0.71
25:DA:531:C:H4'	25:DA:532:A:H5"	1.71	0.71
25:DA:654(R):C:N4	25:DA:654(S):G:O6	2.24	0.71
25:DA:2321:G:H2'	25:DA:2321:G:N3	2.04	0.71
28:DE:79:ARG:O	28:DE:80:GLU:HB2	1.89	0.71
41:D2:49:THR:O	41:D2:50:PRO:C	2.34	0.71
45:DV:108:PRO:HA	45:DV:143:GLY:N	2.04	0.71
47:DZ:92:LYS:HE2	47:DZ:93:GLU:H	1.54	0.71
13:AP:108:ARG:HG3	13:AP:108:ARG:NH1	2.01	0.71
26:BB:28:C:OP1	38:BQ:36:TYR:OH	2.06	0.71
1:CA:509:A:O2'	1:CA:510:A:OP1	2.09	0.71
3:CF:63:ASN:HB3	3:CF:98:ASN:HB3	1.73	0.71
10:CM:54:PHE:CE2	10:CM:55:LYS:HD2	2.26	0.71
26:DB:83:G:H1	26:DB:93:C:H42	1.36	0.71
26:DB:111:U:H2'	26:DB:112:G:C8	2.26	0.71
27:DD:25:THR:O	27:DD:27:THR:N	2.23	0.71
30:DG:60:LEU:O	30:DG:64:THR:HG22	1.91	0.71
30:DG:117:PHE:CD1	30:DG:118:ARG:O	2.43	0.71
38:DQ:11:LYS:O	38:DQ:15:ARG:HB2	1.90	0.71
38:DQ:14:VAL:HG21	38:DQ:89:ARG:CG	2.21	0.71
41:D2:76:LYS:HB3	41:D2:79:VAL:CG2	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1004:A:H5"	1:AA:1025:U:C4	2.26	0.71
25:BA:2032:G:H21	28:BE:146:THR:CG2	2.04	0.71
25:BA:2211:G:H4'	25:BA:2212:A:OP2	1.90	0.71
26:BB:3:C:H2'	26:BB:4:C:H6	1.54	0.71
28:BE:51:PHE:O	28:BE:74:PRO:CB	2.39	0.71
28:BE:119:ARG:HD3	28:BE:160:TYR:HB2	1.73	0.71
47:BZ:65:SER:OG	47:BZ:66:HIS:HD2	1.73	0.71
1:CA:827:U:H3	1:CA:872:A:H62	1.36	0.71
1:CA:828:A:H5"	1:CA:859:A:C2	2.26	0.71
1:CA:1372:U:OP1	9:CL:72:GLY:N	2.24	0.71
1:CA:1451:A:OP2	1:CA:1452:C:N4	2.23	0.71
25:DA:152:G:H1	25:DA:174:C:N4	1.88	0.71
25:DA:2446:G:H2'	25:DA:2447:G:H5"	1.72	0.71
10:AM:24:VAL:HG21	10:AM:37:PRO:HD3	1.73	0.71
16:AS:23:ASP:OD1	16:AS:25:ARG:HG2	1.91	0.71
28:BE:2:LYS:HD3	28:BE:95:ILE:HG22	1.72	0.71
28:BE:35:GLN:CG	28:BE:36:ARG:H	2.02	0.71
31:BH:151:ILE:O	31:BH:153:LYS:HD2	1.88	0.71
36:BP:88:GLY:C	36:BP:90:VAL:N	2.43	0.71
45:BV:6:LYS:CA	45:BV:60:GLU:HB2	2.20	0.71
8:CK:82:HIS:C	8:CK:82:HIS:CD2	2.68	0.71
9:CL:78:LYS:HB2	9:CL:78:LYS:HZ3	1.56	0.71
19:CV:28:LYS:HE3	19:CV:29:ARG:H	1.55	0.71
23:CD:42:C:H2'	23:CD:43:G:H8	1.55	0.71
25:DA:528:A:H8	25:DA:528:A:H3'	1.56	0.71
25:DA:2068:U:N3	25:DA:2430:A:H2	1.87	0.71
27:DD:43:ARG:HD2	27:DD:44:ASN:ND2	2.06	0.71
31:DH:4:ILE:HB	31:DH:6:ARG:NH1	2.06	0.71
45:DV:148:ASP:CG	45:DV:149:SER:N	2.48	0.71
1:AA:686:U:O4	1:AA:703:G:H1'	1.91	0.71
4:AG:170:VAL:HG22	4:AG:171:GLY:H	1.56	0.71
23:AD:15:G:N2	23:AD:49:C:O2	2.21	0.71
25:BA:270(L):U:H2'	25:BA:270(L):U:O2	1.90	0.71
28:BE:35:GLN:NE2	28:BE:37:ARG:NH1	2.38	0.71
31:BH:83:TYR:HB3	31:BH:135:GLY:N	2.03	0.71
31:BH:138:LYS:HA	31:BH:141:VAL:HB	1.73	0.71
2:CE:92:TYR:CE2	2:CE:151:GLY:HA3	2.26	0.71
10:CM:22:LYS:HD2	10:CM:26:ALA:HB2	1.73	0.71
25:DA:887:A:H3'	25:DA:888:C:H5'	1.73	0.71
30:DG:67:LYS:HD2	50:D4:6:HIS:HE2	1.55	0.71
33:DM:45:ASN:O	33:DM:46:VAL:CG2	2.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:21:THR:CG2	36:DP:21:THR:O	2.38	0.71
36:DP:23:GLY:HA2	36:DP:25:ASP:HB2	1.73	0.71
1:AA:484:G:O2'	1:AA:485:G:OP2	2.05	0.71
8:AK:87:SER:HB2	8:AK:93:VAL:CB	2.20	0.71
23:AD:8:U:H3	23:AD:14:A:H62	1.38	0.71
25:BA:1359:A:H2	25:BA:1372:U:O4	1.73	0.71
44:BU:87:LYS:HD2	44:BU:92:ASN:HB3	1.73	0.71
45:BV:45:ASP:O	45:BV:49:ARG:HG2	1.89	0.71
13:CP:39:ILE:HD13	13:CP:52:GLU:HB3	1.73	0.71
13:CP:55:ARG:HH11	13:CP:55:ARG:HG3	1.56	0.71
23:CC:1:C:C2'	23:CC:2:G:OP2	2.39	0.71
23:CD:21:U:H2'	23:CD:22:A:H5"	1.73	0.71
25:DA:71:A:C2	43:DT:31:HIS:HE1	2.09	0.71
25:DA:517:C:OP1	51:D5:16:ARG:NH2	2.22	0.71
25:DA:885:C:C4	25:DA:890:A:C6	2.79	0.71
25:DA:1899:G:N2	25:DA:1902:C:H41	1.88	0.71
25:DA:2119:A:N6	25:DA:2170:A:N7	2.38	0.71
25:DA:2337:G:H5"	25:DA:2338:G:OP2	1.89	0.71
36:DP:27:VAL:CG1	36:DP:105:GLU:OE2	2.35	0.71
43:DT:63:LYS:H	43:DT:63:LYS:HE3	1.55	0.71
1:AA:217:C:O2'	1:AA:466:C:N4	2.23	0.70
1:AA:1239:A:H62	1:AA:1299:A:N6	1.89	0.70
3:AF:19:GLU:HA	3:AF:54:ARG:NH1	2.06	0.70
25:BA:76:C:O2'	48:BW:62:THR:HG21	1.91	0.70
25:BA:2402:C:H2'	25:BA:2403:C:H5'	1.73	0.70
28:BE:14:ILE:HB	28:BE:21:VAL:HG23	1.71	0.70
28:BE:48:GLN:O	28:BE:49:LEU:CB	2.34	0.70
29:BF:103:LYS:HA	29:BF:106:ARG:HG3	1.71	0.70
32:BK:106:GLY:C	32:BK:107:VAL:CG2	2.63	0.70
36:BP:104:PHE:HE1	36:BP:125:LEU:HD11	1.54	0.70
9:CL:20:ARG:O	9:CL:60:ASP:HB2	1.91	0.70
25:DA:2371:G:O4'	52:D6:45:LYS:CE	2.31	0.70
26:DB:5:C:H42	26:DB:115:G:H1	1.37	0.70
27:DD:255:LYS:O	27:DD:255:LYS:HD2	1.90	0.70
29:DF:123:LEU:HA	29:DF:192:LEU:O	1.91	0.70
32:DK:7:GLU:HA	32:DK:15:VAL:HG22	1.73	0.70
32:DK:82:ARG:HB3	32:DK:89:TYR:HD2	1.55	0.70
33:DM:15:LEU:HB2	33:DM:134:ARG:HG2	1.71	0.70
35:DO:19:VAL:HG22	35:DO:27:HIS:HB3	1.68	0.70
44:DU:39:VAL:HG23	44:DU:40:GLU:H	1.55	0.70
45:DV:175:VAL:CG2	45:DV:176:PRO:HD3	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1175:G:H2'	1:AA:1176:A:C8	2.26	0.70
14:AQ:44:LEU:O	14:AQ:44:LEU:HD12	1.91	0.70
25:BA:32:C:C2'	25:BA:33:U:H5'	2.21	0.70
25:BA:1329:U:H5"	25:BA:1330:C:H5	1.56	0.70
25:BA:1799:G:H5'	25:BA:1819:A:H61	1.56	0.70
27:BD:25:THR:HB	27:BD:82:ILE:H	1.55	0.70
45:BV:121:HIS:HB3	45:BV:123:ASP:O	1.91	0.70
54:B8:34:TRP:CE3	54:B8:35:GLN:OE1	2.44	0.70
1:CA:328:C:O2	1:CA:328:C:C2'	2.39	0.70
23:CC:62:C:H2'	23:CC:63:C:H6	1.56	0.70
25:DA:2154:G:H2'	25:DA:2155:G:C8	2.26	0.70
28:DE:27:LEU:HD23	39:DR:1:MET:HE3	1.72	0.70
43:DT:5:TYR:CZ	48:DW:30:ARG:HG3	2.25	0.70
25:BA:1678:G:N2	25:BA:1989:G:H22	1.88	0.70
25:BA:2392:A:H2	25:BA:2424:C:H42	1.37	0.70
27:BD:34:VAL:O	27:BD:34:VAL:HG13	1.89	0.70
47:BZ:85:LEU:CA	47:BZ:87:PRO:HD2	2.19	0.70
1:CA:1004:A:H1'	1:CA:1036:G:C2	2.26	0.70
1:CA:1004:A:C5'	1:CA:1025:U:O4	2.39	0.70
7:CJ:113:GLU:O	7:CJ:119:ARG:HD3	1.91	0.70
23:CC:18:C:O2	23:CC:18:C:C2'	2.39	0.70
25:DA:1430:C:H2'	25:DA:1431:U:H6	1.56	0.70
25:DA:2531:A:H4'	31:DH:157:TYR:HD2	1.54	0.70
1:AA:1004:A:C4	1:AA:1025:U:C2	2.79	0.70
2:AE:111:ARG:HH11	2:AE:111:ARG:HG2	1.55	0.70
25:BA:1047:G:H2'	25:BA:1110:G:N1	2.07	0.70
25:BA:2419:U:H4'	52:B6:23:THR:HG21	1.73	0.70
29:BF:34:TRP:NE1	35:BO:8:PRO:HD3	2.06	0.70
38:BQ:110:LEU:HA	38:BQ:112:PHE:CE1	2.26	0.70
3:CF:131:ARG:NH1	5:CH:50:GLU:HG3	2.06	0.70
7:CJ:79:ARG:HG2	7:CJ:84:ASN:HD21	1.56	0.70
28:DE:44:TYR:N	28:DE:44:TYR:HD1	1.84	0.70
35:DO:15:ARG:CG	35:DO:15:ARG:NH1	2.39	0.70
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.53	0.70
4:AG:111:ALA:HB2	4:AG:120:LEU:HD12	1.73	0.70
5:AH:126:ARG:HG3	5:AH:126:ARG:NH1	1.96	0.70
26:BB:43:C:OP1	30:BG:67:LYS:NZ	2.24	0.70
31:BH:159:GLU:CG	31:BH:170:ARG:HH12	2.02	0.70
32:BK:2:LYS:HB2	32:BK:39:ALA:HB2	1.72	0.70
32:BK:130:TYR:C	32:BK:131:LYS:HD2	2.16	0.70
35:BO:63:PRO:CB	54:B8:12:LYS:O	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:B2:29:PRO:HA	41:B2:61:VAL:CG2	2.22	0.70
1:CA:1298:C:C5	7:CJ:114:ARG:HD2	2.25	0.70
13:CP:81:LEU:HD13	13:CP:88:ARG:HH11	1.56	0.70
25:DA:270(I):G:H1	25:DA:270(Q):C:H42	1.37	0.70
29:DF:53:THR:HG23	29:DF:55:GLY:H	1.55	0.70
31:DH:148:ILE:O	31:DH:151:ILE:HG12	1.91	0.70
1:AA:1004:A:C2	1:AA:1024:G:C8	2.79	0.70
1:AA:1053:G:O3'	1:AA:1054:C:H4'	1.91	0.70
18:AU:66:LEU:O	18:AU:70:ILE:HG13	1.91	0.70
23:AC:20:G:C2	23:AC:58:A:N3	2.60	0.70
28:BE:120:TRP:CE3	28:BE:155:LYS:HD3	2.26	0.70
38:BQ:28:VAL:HG11	38:BQ:98:VAL:HG13	1.74	0.70
39:BR:124:ASP:O	39:BR:128:GLU:N	2.25	0.70
42:BS:94:ASP:C	42:BS:95:ILE:CG2	2.64	0.70
45:BV:150:LEU:HD23	45:BV:154:ASP:HB2	1.74	0.70
1:CA:1392:G:N2	1:CA:1502:A:H8	1.89	0.70
2:CE:111:ARG:HG2	2:CE:111:ARG:NH1	2.00	0.70
13:CP:86:CYS:O	13:CP:89:GLY:N	2.22	0.70
25:DA:71:A:C2	43:DT:31:HIS:CE1	2.75	0.70
25:DA:1771:C:H1'	25:DA:1786:A:C8	2.27	0.70
35:DO:111:ARG:HG3	35:DO:128:HIS:CG	2.26	0.70
36:DP:68:ILE:HD13	36:DP:103:MET:HB3	1.72	0.70
3:AF:64:VAL:HG23	3:AF:99:VAL:HA	1.72	0.70
26:BB:3:C:H2'	26:BB:4:C:C6	2.26	0.70
35:BO:58:THR:HG22	35:BO:58:THR:O	1.92	0.70
35:BO:112:LEU:H	35:BO:128:HIS:HD2	1.37	0.70
36:BP:63:LYS:HD3	36:BP:65:PHE:CZ	2.27	0.70
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.26	0.70
1:AA:105:G:H2'	1:AA:106:C:C6	2.25	0.70
1:AA:1008:C:H42	1:AA:1021:G:H1	1.38	0.70
1:AA:1125:U:OP2	1:AA:1145:C:N4	2.25	0.70
5:AH:148:VAL:HG21	8:AK:107:LEU:HD22	1.73	0.70
25:BA:10:G:N2	25:BA:2802:G:OP1	2.25	0.70
25:BA:1771:C:H1'	25:BA:1786:A:C8	2.26	0.70
25:BA:1925:C:C2'	25:BA:1926:U:H5'	2.22	0.70
25:BA:2164:C:H2'	25:BA:2165:G:H8	1.57	0.70
28:BE:23:VAL:HG11	28:BE:173:VAL:CG2	2.22	0.70
1:CA:1502:A:H4'	1:CA:1503:A:OP2	1.90	0.70
25:DA:310:A:OP1	44:DU:18:GLY:HA2	1.91	0.70
31:DH:81:GLU:HG2	31:DH:83:TYR:HB2	1.74	0.70
39:DR:8:LYS:NZ	39:DR:8:LYS:HB3	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:442:G:N3	29:BF:48:THR:CG2	2.54	0.70
25:BA:524:U:H2'	25:BA:525:U:C6	2.27	0.70
32:BK:78:THR:HG23	32:BK:141:LYS:HZ2	1.54	0.70
36:BP:78:PRO:O	36:BP:79:LEU:HD12	1.90	0.70
10:CM:27:ALA:HB2	10:CM:85:LEU:HD11	1.73	0.70
25:DA:528:A:H2	25:DA:2043:C:C5'	2.05	0.70
25:DA:997:G:C2'	25:DA:998:C:H5'	2.22	0.70
27:DD:164:GLN:HG2	27:DD:166:GLN:HE22	1.55	0.70
41:D2:81:TYR:O	41:D2:82:ARG:CG	2.30	0.70
25:BA:259:G:O2'	25:BA:621:A:O2'	2.06	0.70
25:BA:2415:G:C4'	35:BO:67:MET:H	2.01	0.70
27:BD:270:ILE:C	27:BD:271:ILE:CG1	2.64	0.70
28:BE:51:PHE:HD1	28:BE:52:LEU:HD23	1.46	0.70
28:BE:52:LEU:O	28:BE:75:VAL:HG22	1.92	0.70
35:BO:17:LYS:HE2	35:BO:27:HIS:CE1	2.27	0.70
38:BQ:36:TYR:N	38:BQ:36:TYR:CD1	2.57	0.70
1:CA:250:A:H1'	1:CA:251:G:OP2	1.91	0.70
13:CP:54:VAL:O	13:CP:58:GLU:HG2	1.91	0.70
25:DA:2371:G:H4'	52:D6:45:LYS:HE2	1.72	0.70
25:DA:2378:A:H4'	38:DQ:23:ARG:HH11	1.57	0.70
25:DA:2849:U:O4	39:DR:23:ARG:NH2	2.25	0.70
44:DU:97:ARG:HD3	44:DU:97:ARG:H	1.57	0.70
54:D8:34:TRP:O	54:D8:36:LYS:CG	2.30	0.70
1:AA:792:A:H1'	1:AA:794:A:N7	2.07	0.69
1:AA:933:G:OP2	7:AJ:3:ARG:HB2	1.92	0.69
25:BA:607:U:N3	25:BA:621:A:C2	2.59	0.69
25:BA:1113:U:OP1	31:BH:2:SER:N	2.24	0.69
26:BB:12:C:O2	46:B3:74:ARG:NH1	2.24	0.69
27:BD:35:LYS:HD3	27:BD:63:ARG:CA	2.21	0.69
35:BO:38:GLN:HG2	35:BO:45:LEU:HD13	1.74	0.69
39:BR:105:LEU:O	39:BR:107:ASP:OD1	2.10	0.69
44:BU:42:VAL:O	44:BU:42:VAL:HG12	1.92	0.69
9:CL:28:VAL:HG22	9:CL:63:ILE:HB	1.73	0.69
23:CC:17:C:C3'	23:CC:18:C:H5"	2.18	0.69
27:DD:5:LYS:HB2	27:DD:5:LYS:NZ	2.06	0.69
28:DE:53:PRO:O	28:DE:54:GLN:C	2.35	0.69
36:DP:43:THR:OG1	36:DP:46:GLN:HG3	1.92	0.69
39:DR:74:ARG:HG2	39:DR:74:ARG:NH1	1.89	0.69
41:D2:83:ARG:O	41:D2:84:LYS:CB	2.40	0.69
41:D2:83:ARG:O	41:D2:84:LYS:HB2	1.92	0.69
42:DS:75:TYR:CZ	42:DS:104:THR:HG21	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D4:18:CYS:SG	50:D4:19:GLY:HA2	2.32	0.69
1:AA:39:G:N7	1:AA:547:A:H8	1.90	0.69
8:AK:64:LYS:HB3	8:AK:79:VAL:HG21	1.74	0.69
14:AQ:41:ARG:HH11	14:AQ:41:ARG:HG2	1.58	0.69
50:B4:61:ARG:HA	50:B4:61:ARG:NE	2.07	0.69
51:B5:42:PRO:HB2	51:B5:43:HIS:HD2	1.57	0.69
52:B6:15:GLU:CG	52:B6:16:CYS:H	2.05	0.69
25:DA:171:G:H2'	25:DA:172:C:C6	2.28	0.69
25:DA:1964:G:H4'	25:DA:1965:C:OP2	1.91	0.69
27:DD:166:GLN:HA	27:DD:166:GLN:NE2	2.06	0.69
35:DO:64:LYS:HD3	54:D8:25:MET:SD	2.32	0.69
36:DP:66:ILE:CD1	36:DP:67:ARG:N	2.30	0.69
52:D6:27:LYS:HZ1	52:D6:28:ARG:HH12	1.40	0.69
54:D8:40:GLU:H	54:D8:43:GLN:HG3	1.56	0.69
1:AA:625:G:C5'	16:AS:16:HIS:CD2	2.75	0.69
4:AG:173:TRP:CD1	4:AG:174:LEU:HG	2.27	0.69
6:AI:89:MET:HE3	18:AU:76:LEU:CD2	2.14	0.69
25:BA:847:U:O4	25:BA:933:A:N1	2.24	0.69
25:BA:1900:A:H8	25:BA:1900:A:H5'	1.57	0.69
28:BE:59:VAL:C	28:BE:60:ASN:CG	2.61	0.69
28:BE:78:LEU:CD1	28:BE:79:ARG:N	2.50	0.69
37:B0:103:ARG:HH11	42:BS:40:ASN:HD22	1.37	0.69
4:CG:122:ARG:NH2	4:CG:134:ASP:HB3	2.06	0.69
25:DA:674:G:O2'	29:DF:74:ARG:HG3	1.93	0.69
51:D5:4:HIS:HB3	51:D5:5:PRO:HD2	1.65	0.69
54:D8:39:LYS:HG2	54:D8:40:GLU:H	1.57	0.69
1:AA:658:G:C5	1:AA:659:U:C5	2.79	0.69
4:AG:122:ARG:HH11	4:AG:122:ARG:CG	2.03	0.69
25:BA:1021:A:C3'	25:BA:1022:G:H5"	2.23	0.69
25:BA:1240:U:O2'	25:BA:1241:A:H5'	1.92	0.69
26:BB:78:A:C2	26:BB:99:A:C4	2.80	0.69
27:BD:6:PHE:CE1	27:BD:18:VAL:HG23	2.24	0.69
27:BD:130:ALA:C	27:BD:131:LEU:HD12	2.17	0.69
31:BH:12:PRO:HD3	31:BH:48:GLY:O	1.92	0.69
38:BQ:11:LYS:HD2	38:BQ:15:ARG:HH21	1.56	0.69
40:B1:92:ARG:CZ	41:B2:11:GLN:H	2.05	0.69
45:BV:111:VAL:HG11	45:BV:146:ILE:HB	1.72	0.69
47:BZ:23:LYS:HB3	47:BZ:29:GLY:HA3	1.74	0.69
1:CA:197:A:OP2	1:CA:197:A:H3'	1.93	0.69
1:CA:537:G:H5"	12:CO:113:ARG:HH12	1.55	0.69
1:CA:1306:A:N6	1:CA:1331:G:H1'	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:85:LEU:HD13	9:CL:92:TYR:HD2	1.57	0.69
25:DA:273(D):C:H42	25:DA:363(B):G:H1	1.40	0.69
25:DA:2849:U:O2'	25:DA:2866:U:O2	2.09	0.69
29:DF:82:ILE:CD1	29:DF:82:ILE:O	2.41	0.69
32:DK:78:THR:HB	32:DK:104:GLN:HE22	1.58	0.69
39:DR:56:GLY:O	39:DR:58:ASN:N	2.25	0.69
44:DU:81:LYS:HD3	44:DU:97:ARG:CZ	2.23	0.69
47:DZ:87:PRO:O	47:DZ:91:LYS:N	2.21	0.69
1:AA:1193:G:C2'	1:AA:1194:U:H5'	2.23	0.69
1:AA:1254:C:H41	10:AM:43:ARG:HH12	1.41	0.69
4:AG:201:GLN:HA	4:AG:201:GLN:HE21	1.57	0.69
25:BA:1014:U:H2'	25:BA:1015:G:H5"	1.72	0.69
31:BH:83:TYR:HB2	31:BH:134:SER:HA	1.73	0.69
31:BH:159:GLU:CG	31:BH:170:ARG:HH11	2.03	0.69
45:BV:62:PRO:O	45:BV:63:ASP:HB3	1.90	0.69
48:BW:46:GLN:HA	48:BW:46:GLN:OE1	1.93	0.69
1:CA:994:A:C5	1:CA:1216:G:H4'	2.27	0.69
1:CA:1297:C:H1'	1:CA:1298:C:OP2	1.92	0.69
1:CA:1442:G:H2'	1:CA:1443:G:O5'	1.93	0.69
3:CF:18:TRP:NE1	14:CQ:55:GLY:H	1.90	0.69
5:CH:51:VAL:HB	5:CH:52:PRO:HD3	1.74	0.69
10:CM:49:VAL:O	10:CM:60:ARG:HB2	1.93	0.69
25:DA:148:C:H6	25:DA:148:C:H5'	1.57	0.69
25:DA:885:C:N3	25:DA:890:A:C6	2.60	0.69
25:DA:2211:G:H3'	25:DA:2212:A:N3	2.07	0.69
27:DD:85:ASP:OD2	27:DD:88:ARG:HD2	1.91	0.69
29:DF:181:LEU:CD2	29:DF:186:ILE:HD11	2.22	0.69
31:DH:168:PRO:O	31:DH:169:VAL:HG12	1.92	0.69
43:DT:12:VAL:HG13	43:DT:27:THR:O	1.92	0.69
1:AA:1004:A:H2	1:AA:1024:G:C8	2.11	0.69
1:AA:1106:G:C4	1:AA:1107:C:C5	2.81	0.69
25:BA:881:G:H3'	25:BA:882:G:C4'	2.22	0.69
25:BA:1178:C:H4'	25:BA:1179:C:OP1	1.91	0.69
25:BA:2263:C:H5"	25:BA:2264:C:OP2	1.92	0.69
25:BA:2310:A:H2	30:BG:77:ILE:HG13	1.54	0.69
28:BE:19:ARG:HH12	34:BN:72:PRO:CG	2.06	0.69
29:BF:176:LEU:HD21	29:BF:180:GLY:O	1.93	0.69
32:BK:106:GLY:C	32:BK:107:VAL:HG22	2.17	0.69
33:BM:132:ALA:HB1	33:BM:133:GLN:NE2	2.06	0.69
40:B1:79:PHE:HD2	40:B1:79:PHE:C	2.00	0.69
42:BS:79:GLY:CA	42:BS:100:THR:HG22	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CH:51:VAL:O	5:CH:55:VAL:HG23	1.93	0.69
25:DA:2872:G:C8	25:DA:2873:A:C2	2.80	0.69
27:DD:70:TRP:O	27:DD:73:VAL:HG23	1.92	0.69
3:AF:81:GLY:O	3:AF:85:ARG:HB2	1.92	0.69
3:AF:95:THR:HG22	3:AF:97:LYS:H	1.58	0.69
19:AV:36:ARG:NH1	19:AV:52:TYR:O	2.25	0.69
25:BA:71:A:C2	43:BT:31:HIS:CE1	2.70	0.69
25:BA:270(F):U:H2'	25:BA:270(G):C:C6	2.27	0.69
25:BA:1113:U:H5'	31:BH:2:SER:HB2	1.75	0.69
33:BM:40:PRO:HB3	40:B1:68:ALA:HB2	1.74	0.69
45:BV:61:LEU:O	45:BV:64:GLY:HA2	1.92	0.69
22:CB:18:G:O6	22:CB:71:U:O2	2.11	0.69
23:CC:28:U:O2	23:CC:45:A:C2	2.45	0.69
25:DA:1826:G:C4'	27:DD:242:ARG:HH21	2.03	0.69
25:DA:2872:G:C4	25:DA:2873:A:C2	2.80	0.69
28:DE:48:GLN:HG2	28:DE:78:LEU:HB3	1.74	0.69
28:DE:82:ARG:O	28:DE:82:ARG:HG3	1.90	0.69
29:DF:68:LYS:HZ3	29:DF:68:LYS:HA	1.57	0.69
35:DO:36:LYS:CB	35:DO:36:LYS:HZ3	2.03	0.69
1:AA:524:G:H2'	1:AA:525:C:C6	2.27	0.69
1:AA:1346:A:H5"	9:AL:120:ARG:HH12	1.58	0.69
22:AB:37:G:N2	24:A1:19:U:O2	2.19	0.69
25:BA:1084:A:N6	25:BA:1085:A:H62	1.90	0.69
25:BA:1899:G:N2	25:BA:1902:C:H5	1.90	0.69
25:BA:2115:G:H2'	25:BA:2116:G:H8	1.56	0.69
25:BA:2233:U:H2'	25:BA:2234:G:C8	2.27	0.69
25:BA:2261:C:H2'	25:BA:2262:U:H5'	1.75	0.69
25:BA:2344:U:O2'	52:B6:37:ARG:HG2	1.92	0.69
25:BA:2688:U:H5	25:BA:2720:U:OP2	1.76	0.69
25:BA:2799:A:H5"	25:BA:2801:A:OP2	1.92	0.69
27:BD:166:GLN:HE21	27:BD:166:GLN:CA	2.05	0.69
28:BE:53:PRO:HA	28:BE:74:PRO:HA	1.75	0.69
30:BG:78:SER:O	30:BG:79:ASN:C	2.36	0.69
30:BG:107:LEU:HD21	30:BG:178:PHE:CD1	2.27	0.69
30:BG:135:LEU:HD23	30:BG:140:ILE:HD11	1.74	0.69
40:B1:110:VAL:O	40:B1:113:ALA:HB3	1.93	0.69
51:B5:3:LYS:HA	51:B5:3:LYS:HE3	1.75	0.69
51:B5:33:CYS:SG	51:B5:40:LYS:NZ	2.61	0.69
1:CA:554:C:H2'	1:CA:555:C:H6	1.57	0.69
1:CA:976:G:OP1	14:CQ:32:SER:N	2.24	0.69
3:CF:35:GLU:HA	3:CF:38:ARG:HE	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:115:ARG:HB2	7:CJ:118:VAL:HG12	1.75	0.69
9:CL:24:GLY:HA2	9:CL:59:PHE:O	1.93	0.69
25:DA:125:G:H5"	53:D7:19:ARG:HD3	1.74	0.69
25:DA:753:C:H2'	25:DA:754:C:H6	1.58	0.69
25:DA:2150:U:H2'	25:DA:2151:G:H8	1.56	0.69
25:DA:2378:A:H8	25:DA:2378:A:O5'	1.75	0.69
28:DE:39:PRO:HD3	28:DE:45:THR:OG1	1.91	0.69
36:DP:65:PHE:O	36:DP:66:ILE:C	2.35	0.69
36:DP:137:TYR:CE1	45:DV:83:PRO:HG3	2.27	0.69
40:D1:92:ARG:HG3	40:D1:94:ASN:H	1.56	0.69
44:DU:13:VAL:CG2	44:DU:72:VAL:HB	2.22	0.69
1:AA:1003:G:C2'	1:AA:1004:A:H5'	2.22	0.69
1:AA:1159:U:C2	1:AA:1182:G:C2	2.81	0.69
1:AA:1170:A:H2'	1:AA:1171:G:O4'	1.93	0.69
6:AI:44:GLY:HA2	6:AI:59:TYR:CZ	2.28	0.69
15:AR:17:ARG:HG3	15:AR:17:ARG:HH11	1.57	0.69
19:AV:10:PHE:CD1	19:AV:10:PHE:N	2.60	0.69
25:BA:747:U:O2	25:BA:2014:A:H1'	1.92	0.69
25:BA:1165:U:H2'	25:BA:1166:C:C6	2.28	0.69
25:BA:1869:G:H5'	25:BA:1869:G:H8	1.55	0.69
25:BA:1899:G:H22	25:BA:1902:C:H41	0.73	0.69
25:BA:2162:G:H2'	25:BA:2163:C:H6	1.57	0.69
25:BA:2310:A:C2'	25:BA:2311:A:C5'	2.70	0.69
25:BA:2315:G:OP1	30:BG:36:LYS:NZ	2.26	0.69
50:B4:10:VAL:HG22	50:B4:11:PRO:HD2	1.75	0.69
2:CE:12:GLU:HB2	2:CE:16:HIS:CE1	2.28	0.69
5:CH:57:LYS:HG2	5:CH:61:TYR:HE2	1.57	0.69
19:CV:18:LYS:O	19:CV:22:LEU:HB2	1.93	0.69
25:DA:943:U:OP2	35:DO:36:LYS:HG3	1.92	0.69
26:DB:50:G:OP1	38:DQ:63:THR:HG23	1.93	0.69
28:DE:62:PRO:C	28:DE:64:LYS:H	2.00	0.69
34:DN:4:PRO:O	34:DN:5:GLN:HB2	1.93	0.69
52:D6:15:GLU:HG3	52:D6:47:THR:HG21	1.75	0.69
1:AA:310:G:P	16:AS:27:LYS:HZ1	2.16	0.69
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.93	0.69
7:AJ:22:LEU:HD23	7:AJ:62:PHE:HE2	1.58	0.69
10:AM:49:VAL:HG22	14:AQ:41:ARG:HB2	1.74	0.69
25:BA:61:G:H5'	48:BW:50:ILE:HG12	1.74	0.69
25:BA:259:G:H21	25:BA:621:A:H8	1.37	0.69
25:BA:479:A:C2	25:BA:481:G:H5'	2.28	0.69
25:BA:2577:A:H5"	25:BA:2578:G:C5'	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2680:C:O2'	25:BA:2681:C:H5'	1.93	0.69
26:BB:13:A:N1	26:BB:69:G:O2'	2.19	0.69
31:BH:4:ILE:HD11	31:BH:7:LEU:HD11	1.75	0.69
1:CA:243:A:H4'	1:CA:244:U:O5'	1.93	0.69
1:CA:279:A:H4'	1:CA:280:C:O5'	1.92	0.69
1:CA:1226:C:C4	13:CP:104:ARG:HB2	2.28	0.69
3:CF:18:TRP:CD1	14:CQ:54:PRO:HA	2.28	0.69
4:CG:108:LEU:CD2	4:CG:183:GLY:HA3	2.21	0.69
25:DA:1310:G:OP2	53:D7:9:ARG:NH1	2.26	0.69
27:DD:64:ILE:O	27:DD:64:ILE:CG1	2.41	0.69
30:DG:15:VAL:HG13	30:DG:175:LEU:HB2	1.73	0.69
31:DH:20:ALA:HB3	31:DH:23:ARG:HB2	1.74	0.69
45:DV:93:ASP:HA	45:DV:130:PRO:HG2	1.74	0.69
50:D4:20:ASN:CG	50:D4:21:VAL:N	2.47	0.69
5:AH:98:THR:HG22	5:AH:99:GLY:N	2.06	0.68
6:AI:69:GLU:O	6:AI:72:VAL:HG12	1.93	0.68
25:BA:1796:U:H2'	25:BA:1797:C:C6	2.28	0.68
29:BF:28:ILE:HG22	29:BF:112:MET:HB3	1.74	0.68
42:BS:70:TYR:H	42:BS:70:TYR:HD2	1.40	0.68
50:B4:42:PHE:CD1	50:B4:42:PHE:O	2.46	0.68
1:CA:426:G:P	4:CG:36:ARG:HH21	2.16	0.68
1:CA:1286:A:H5'	21:CX:25:LYS:HD2	1.75	0.68
13:CP:15:VAL:HG12	13:CP:45:VAL:HG22	1.75	0.68
25:DA:1606:G:H5"	25:DA:1607:C:OP1	1.93	0.68
27:DD:186:HIS:CD2	27:DD:188:GLU:H	2.10	0.68
28:DE:11:MET:HA	28:DE:24:THR:HA	1.75	0.68
39:DR:22:PHE:CE1	39:DR:52:ILE:HD11	2.29	0.68
41:D2:2:PHE:H	41:D2:42:GLY:HA3	1.58	0.68
50:D4:16:CYS:HA	50:D4:33:VAL:HG23	1.75	0.68
1:AA:883:C:C2'	1:AA:884:U:H5'	2.22	0.68
2:AE:29:ALA:O	2:AE:32:ILE:HG22	1.93	0.68
25:BA:85:G:OP2	44:BU:9:LYS:HB2	1.93	0.68
25:BA:588:U:H2'	25:BA:589:C:C6	2.29	0.68
25:BA:2336:A:H61	46:B3:43:THR:HG22	1.58	0.68
28:BE:51:PHE:O	28:BE:52:LEU:C	2.34	0.68
28:BE:59:VAL:C	28:BE:60:ASN:ND2	2.51	0.68
31:BH:153:LYS:HB3	31:BH:154:PRO:CD	2.23	0.68
34:BN:104:ARG:HH22	39:BR:43:GLN:HE22	1.40	0.68
40:B1:108:GLU:OE1	40:B1:112:ARG:NH1	2.27	0.68
17:CT:59:ILE:HG22	17:CT:71:PHE:CD1	2.27	0.68
20:CW:89:ARG:NH1	20:CW:105:SER:OG	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:204:A:O2'	25:DA:205:G:OP2	2.09	0.68
25:DA:1332:G:H21	25:DA:1610:A:H8	1.41	0.68
26:DB:44:G:H1'	26:DB:47:C:H42	1.57	0.68
28:DE:151:TYR:HD2	28:DE:154:LYS:HZ2	1.40	0.68
45:DV:118:GLN:HB2	45:DV:173:ALA:O	1.93	0.68
45:DV:144:LEU:C	45:DV:146:ILE:H	1.99	0.68
1:AA:1336:C:H4'	1:AA:1336:C:OP1	1.93	0.68
25:BA:1053:C:N4	25:BA:1106:G:H1	1.90	0.68
25:BA:1077:A:H3'	25:BA:1078:U:H5'	1.76	0.68
25:BA:1729:A:H2'	25:BA:1731:G:N7	2.09	0.68
28:BE:80:GLU:O	28:BE:82:ARG:N	2.26	0.68
28:BE:82:ARG:O	28:BE:84:PHE:N	2.26	0.68
45:BV:27:VAL:HG12	45:BV:87:ASP:HB3	1.73	0.68
46:B3:70:GLN:OE1	46:B3:72:ARG:HD3	1.93	0.68
1:CA:413:G:O2'	1:CA:414:A:OP2	2.08	0.68
1:CA:685:G:H5"	1:CA:686:U:OP2	1.92	0.68
25:DA:259:G:N2	25:DA:621:A:H8	1.90	0.68
25:DA:2148:G:H2'	25:DA:2149:G:H8	1.58	0.68
36:DP:98:LYS:HB3	36:DP:99:PRO:HD2	1.75	0.68
41:D2:71:LEU:HA	41:D2:86:GLY:HA2	1.74	0.68
44:DU:96:ILE:HD12	44:DU:98:VAL:HG12	1.75	0.68
45:DV:15:PRO:HB2	45:DV:19:ARG:NH2	2.08	0.68
47:DZ:65:SER:OG	47:DZ:66:HIS:HD2	1.77	0.68
1:AA:186(E):C:N4	1:AA:191(B):G:H1	1.92	0.68
4:AG:79:PHE:HE1	4:AG:204:ILE:HG12	1.58	0.68
22:AB:52:U:H2'	22:AB:53:A:H5'	1.74	0.68
25:BA:405:U:H2'	25:BA:405:U:O2	1.92	0.68
25:BA:1056:G:H21	25:BA:1103:A:N6	1.76	0.68
25:BA:1130:U:O2	28:BE:149:ARG:NH2	2.26	0.68
45:BV:7:ALA:HB3	45:BV:61:LEU:CB	2.24	0.68
1:CA:273:A:H2'	1:CA:274:A:H5'	1.76	0.68
1:CA:1004:A:C1'	1:CA:1036:G:N1	2.49	0.68
1:CA:1285:A:H1'	1:CA:1286:A:OP2	1.93	0.68
3:CF:94:LEU:HD12	3:CF:95:THR:H	1.56	0.68
4:CG:8:VAL:HG12	4:CG:21:LEU:HD22	1.73	0.68
4:CG:62:GLN:NE2	4:CG:65:ARG:HE	1.91	0.68
5:CH:9:LYS:HB2	5:CH:112:LEU:HD11	1.74	0.68
7:CJ:76:ARG:HH11	7:CJ:76:ARG:HG2	1.57	0.68
13:CP:57:ARG:NH2	50:D4:34:GLU:HB2	2.07	0.68
22:CB:41:G:H2'	22:CB:42:U:C6	2.28	0.68
1:AA:412:A:H1'	1:AA:413:G:OP2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:498:A:H4'	1:AA:500:G:OP1	1.93	0.68
25:BA:1085:A:C2	25:BA:1086:A:N7	2.61	0.68
25:BA:1533:C:H2'	25:BA:1534:G:H8	1.55	0.68
25:BA:2563:U:H1'	25:BA:2566:A:N6	2.09	0.68
25:BA:2864:G:O2'	25:BA:2865:U:H5'	1.94	0.68
28:BE:35:GLN:CB	28:BE:48:GLN:CG	2.61	0.68
38:BQ:106:ARG:CA	38:BQ:110:LEU:HD21	2.24	0.68
44:BU:76:CYS:HB3	44:BU:96:ILE:HD13	1.75	0.68
1:CA:942:G:H21	9:CL:124:GLN:NE2	1.91	0.68
1:CA:1127:G:H2'	1:CA:1128:C:C6	2.29	0.68
2:CE:95:GLN:HB3	2:CE:148:TYR:HD1	1.59	0.68
3:CF:63:ASN:O	3:CF:64:VAL:HB	1.94	0.68
25:DA:776:G:H4'	25:DA:777:A:O5'	1.92	0.68
25:DA:1651:G:OP1	37:D0:37:THR:HG21	1.94	0.68
25:DA:1728:G:N1	25:DA:1730:U:OP2	2.26	0.68
36:DP:79:LEU:HD13	36:DP:80:GLU:HB2	1.75	0.68
39:DR:64:ARG:HB2	39:DR:73:GLU:HG3	1.76	0.68
40:D1:59:ARG:O	40:D1:63:VAL:HG23	1.93	0.68
41:D2:99:ILE:HG22	41:D2:99:ILE:O	1.93	0.68
54:D8:52:LYS:CB	54:D8:53:PRO:HD3	2.23	0.68
1:AA:872:A:C4	1:AA:874:G:N7	2.61	0.68
2:AE:22:LYS:HA	2:AE:22:LYS:HZ3	1.58	0.68
2:AE:187:LEU:HD23	2:AE:201:ILE:O	1.94	0.68
5:AH:76:ILE:HB	5:AH:77:PRO:HD2	1.76	0.68
13:AP:3:ARG:HD3	13:AP:7:VAL:HG13	1.73	0.68
22:AB:52:U:C5	22:AB:53:A:C8	2.82	0.68
25:BA:1519:G:C2'	25:BA:1520:U:H5'	2.23	0.68
52:B6:28:ARG:HH11	52:B6:28:ARG:HB3	1.58	0.68
10:CM:33:GLN:HB2	10:CM:75:ILE:HG12	1.74	0.68
14:CQ:26:ARG:NH1	14:CQ:47:LEU:HD21	2.09	0.68
25:DA:2162:G:H2'	25:DA:2163:C:H6	1.57	0.68
28:DE:64:LYS:HB3	28:DE:66:HIS:CD2	2.28	0.68
38:DQ:15:ARG:HD2	38:DQ:88:ASP:OD1	1.93	0.68
1:AA:1025:U:O2'	1:AA:1026:G:C5'	2.42	0.68
1:AA:1124:G:H3'	1:AA:1145:C:N4	2.05	0.68
1:AA:1399:C:C2	1:AA:1502:A:N6	2.61	0.68
5:AH:82:VAL:HB	5:AH:138:ALA:HB2	1.76	0.68
28:BE:41:LYS:NZ	28:BE:41:LYS:HB3	2.04	0.68
28:BE:81:ILE:CG2	28:BE:84:PHE:CD1	2.70	0.68
32:BK:114:LEU:O	32:BK:115:ALA:HB3	1.93	0.68
38:BQ:83:LYS:O	38:BQ:109:GLY:HA3	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BV:7:ALA:HB3	45:BV:61:LEU:HB3	1.75	0.68
1:CA:164:U:H2'	1:CA:165:C:C6	2.27	0.68
4:CG:149:ALA:O	4:CG:153:ARG:HG2	1.93	0.68
12:CO:32:PHE:HB3	12:CO:84:LEU:HD21	1.76	0.68
22:CB:87:A:C8	25:DA:2583:G:N2	2.52	0.68
25:DA:607:U:H3	25:DA:621:A:H2	1.41	0.68
25:DA:1011:G:H2'	25:DA:1013:C:O4'	1.92	0.68
25:DA:1678:G:H22	25:DA:1989:G:N2	1.92	0.68
25:DA:2500:U:H5"	25:DA:2501:C:OP2	1.94	0.68
27:DD:35:LYS:HE3	27:DD:65:ILE:CA	2.23	0.68
28:DE:82:ARG:O	28:DE:83:ASP:CB	2.42	0.68
29:DF:24:LEU:CD1	29:DF:25:PRO:HD3	2.20	0.68
29:DF:192:LEU:HD22	29:DF:194:MET:HE2	1.74	0.68
36:DP:134:ARG:HH22	45:DV:122:ARG:HD2	1.58	0.68
39:DR:8:LYS:NZ	39:DR:8:LYS:CB	2.57	0.68
1:AA:129(A):G:C2	1:AA:188:U:O2'	2.47	0.68
1:AA:464:G:O6	1:AA:466:C:H5'	1.94	0.68
2:AE:97:TRP:HH2	2:AE:176:GLU:HG3	1.58	0.68
11:AN:66:LEU:HD21	11:AN:97:ALA:HB1	1.75	0.68
23:AC:18:C:O2	23:AC:18:C:O2'	2.09	0.68
23:AC:18:C:O2'	23:AC:19:G:OP1	2.11	0.68
28:BE:21:VAL:HG23	28:BE:21:VAL:O	1.93	0.68
28:BE:79:ARG:HH22	28:BE:164:ARG:NH1	1.91	0.68
45:BV:29:TYR:CE2	45:BV:87:ASP:HB2	2.26	0.68
48:BW:47:ASN:O	48:BW:50:ILE:HG13	1.94	0.68
1:CA:266:G:H5"	1:CA:268:C:H41	1.59	0.68
1:CA:534:U:H5'	1:CA:535:A:OP2	1.94	0.68
1:CA:1162:C:H42	1:CA:1174:G:H1	1.42	0.68
1:CA:1255:G:OP1	10:CM:45:ARG:NH1	2.20	0.68
25:DA:1022:G:H22	25:DA:1142(A):A:H2	1.40	0.68
27:DD:35:LYS:HD3	27:DD:64:ILE:N	2.08	0.68
28:DE:46:ALA:HB2	28:DE:82:ARG:HB2	1.75	0.68
29:DF:110:LEU:HD22	29:DF:202:PHE:HE1	1.58	0.68
39:DR:91:ARG:HD2	39:DR:124:ASP:OD1	1.93	0.68
44:DU:17:SER:HB2	44:DU:71:LYS:CD	2.23	0.68
1:AA:1367:C:O2'	10:AM:48:THR:HG21	1.94	0.68
7:AJ:74:GLU:HG2	7:AJ:91:VAL:HG22	1.75	0.68
10:AM:40:LEU:HB2	10:AM:69:ASN:CB	2.24	0.68
25:BA:297:C:H5"	44:BU:85:VAL:CG2	2.24	0.68
25:BA:2470:G:O6	25:BA:2476:A:H1'	1.93	0.68
26:BB:50:G:OP1	38:BQ:63:THR:HG23	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:235:GLY:O	27:BD:237:GLU:OE1	2.12	0.68
31:BH:20:ALA:HB1	31:BH:21:PRO:HD2	1.74	0.68
33:BM:13:TRP:O	33:BM:135:PRO:HD2	1.93	0.68
33:BM:43:THR:H	33:BM:48:MET:HE3	1.59	0.68
1:CA:179:A:H2'	1:CA:180:U:C6	2.29	0.68
1:CA:991:U:O2	1:CA:993:G:H8	1.77	0.68
1:CA:1004:A:C1'	1:CA:1036:G:H1	2.05	0.68
28:DE:80:GLU:O	28:DE:81:ILE:HB	1.94	0.68
35:DO:58:THR:HG22	35:DO:58:THR:O	1.92	0.68
1:AA:1004:A:C5'	1:AA:1025:U:H3	2.07	0.68
1:AA:1374:A:H2'	1:AA:1375:A:H5'	1.74	0.68
6:AI:78:GLU:O	6:AI:81:ILE:HG13	1.93	0.68
25:BA:1379:A:C1'	25:BA:1380:G:OP1	2.39	0.68
25:BA:2443:C:O2'	25:BA:2444:G:H5'	1.94	0.68
25:BA:2785:C:H2'	25:BA:2786:U:O4'	1.94	0.68
28:BE:79:ARG:HH22	28:BE:164:ARG:HH11	1.42	0.68
1:CA:1072:G:C5	1:CA:1073:U:C4	2.82	0.68
1:CA:1298:C:H4'	1:CA:1299:A:C8	2.28	0.68
3:CF:84:ILE:HD11	3:CF:88:ARG:NH2	2.08	0.68
25:DA:1060:U:H5"	25:DA:1061:U:C5	2.29	0.68
52:D6:44:ARG:HG3	52:D6:44:ARG:NH1	1.99	0.68
2:AE:185:ILE:HB	2:AE:199:TYR:HB2	1.76	0.67
20:AW:71:THR:HG22	20:AW:72:LEU:N	2.07	0.67
25:BA:1983:C:C2'	25:BA:1984:G:H5'	2.24	0.67
25:BA:2376:A:N1	38:BQ:87:PHE:CD2	2.61	0.67
45:BV:164:ALA:O	45:BV:165:VAL:HG13	1.94	0.67
49:BX:19:GLN:HE22	49:BX:52:HIS:HE1	1.42	0.67
1:CA:182:U:H5	1:CA:183:G:C4	2.11	0.67
15:CR:21:ASP:OD1	15:CR:24:SER:HB2	1.93	0.67
25:DA:138:G:H22	43:DT:44:GLU:CD	2.02	0.67
26:DB:55:U:O2'	26:DB:56:G:H5'	1.94	0.67
30:DG:111:LEU:HB3	30:DG:117:PHE:CE2	2.29	0.67
32:DK:4:ILE:HG12	32:DK:18:VAL:HG22	1.76	0.67
45:DV:128:VAL:HG23	45:DV:160:GLY:HA3	1.76	0.67
50:D4:61:ARG:HG3	50:D4:62:ARG:HH21	1.60	0.67
51:D5:40:LYS:HE3	51:D5:46:CYS:HB2	1.75	0.67
54:D8:49:VAL:CA	54:D8:50:LEU:HD12	2.23	0.67
2:AE:7:VAL:HB	2:AE:217:ARG:NH2	2.10	0.67
7:AJ:62:PHE:CD1	7:AJ:124:LEU:HD21	2.26	0.67
25:BA:1294:U:O2'	37:B0:23:ASN:ND2	2.27	0.67
25:BA:1827:C:C2'	25:BA:1828:G:H5'	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:270:ILE:HG22	27:BD:271:ILE:N	2.09	0.67
38:BQ:85:VAL:CG2	38:BQ:112:PHE:CE1	2.77	0.67
40:B1:92:ARG:HD2	40:B1:95:LEU:HD12	1.77	0.67
1:CA:8:A:N6	4:CG:209:ARG:HB2	2.09	0.67
1:CA:1023:G:H3'	1:CA:1024:G:H5"	1.76	0.67
2:CE:77:ALA:HB2	2:CE:211:ILE:HD13	1.75	0.67
2:CE:84:GLU:O	2:CE:219:VAL:HG21	1.94	0.67
3:CF:58:GLU:O	3:CF:59:ARG:HG3	1.95	0.67
25:DA:1266:G:O5'	42:DS:15:ARG:NH2	2.27	0.67
25:DA:1287:A:N7	37:D0:107:ASP:HB3	2.10	0.67
25:DA:2776:A:OP1	25:DA:2776:A:H3'	1.94	0.67
32:DK:82:ARG:HH11	32:DK:146:ALA:HA	1.59	0.67
39:DR:88:ILE:O	39:DR:88:ILE:HG13	1.94	0.67
54:D8:50:LEU:HD12	54:D8:50:LEU:N	2.08	0.67
4:AG:119:GLN:HE21	4:AG:123:HIS:CD2	2.11	0.67
22:AB:56:G:H2'	22:AB:57:C:C6	2.28	0.67
25:BA:1266:G:O4'	42:BS:15:ARG:NH2	2.28	0.67
25:BA:2035:G:H4'	25:BA:2036:C:OP2	1.94	0.67
27:BD:35:LYS:CG	27:BD:64:ILE:N	2.53	0.67
31:BH:131:VAL:HG12	31:BH:132:ARG:N	2.10	0.67
1:CA:1443:G:O2'	39:DR:122:ASP:OD2	2.12	0.67
25:DA:1056:G:H5"	25:DA:1057:A:H5'	1.76	0.67
28:DE:130:GLY:O	28:DE:131:ALA:C	2.38	0.67
39:DR:22:PHE:CE2	39:DR:86:ILE:HD11	2.29	0.67
43:DT:53:LYS:HB3	43:DT:82:GLN:HB3	1.74	0.67
1:AA:618:C:H5"	1:AA:619:U:H5"	1.77	0.67
1:AA:1004:A:C1'	1:AA:1036:G:O6	2.43	0.67
1:AA:1221:G:O3'	19:AV:77:THR:HG21	1.94	0.67
12:AO:24:VAL:HG13	12:AO:98:TYR:CE2	2.30	0.67
20:AW:75:ASN:OD1	20:AW:75:ASN:N	2.27	0.67
25:BA:1056:G:O6	25:BA:1104:C:N4	2.28	0.67
30:BG:40:ASN:HD22	30:BG:91:ARG:HB2	1.59	0.67
10:CM:48:THR:HA	10:CM:62:HIS:HB3	1.77	0.67
25:DA:1204:A:O2'	25:DA:1205:U:OP2	2.10	0.67
25:DA:1332:G:N2	25:DA:1609:A:HO2'	1.91	0.67
25:DA:1991:U:H2'	25:DA:1992:G:H5"	1.75	0.67
25:DA:2286:A:H4'	25:DA:2287:A:O4'	1.95	0.67
28:DE:37:ARG:HA	28:DE:42:ASP:OD2	1.94	0.67
36:DP:87:LYS:O	36:DP:88:GLY:C	2.37	0.67
45:DV:69:THR:HG22	45:DV:90:VAL:HA	1.76	0.67
1:AA:1277:C:HO2'	1:AA:1279:A:H8	1.40	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AN:79:SER:HB2	11:AN:106:LYS:HD2	1.75	0.67
20:AW:73:HIS:HB3	20:AW:74:LYS:HG2	1.77	0.67
25:BA:860:U:H5	25:BA:917:A:N1	1.91	0.67
25:BA:1178:C:H2'	25:BA:1179:C:C6	2.30	0.67
31:BH:4:ILE:C	31:BH:6:ARG:H	2.01	0.67
32:BK:8:PRO:O	32:BK:9:LEU:HD13	1.95	0.67
40:B1:69:CYS:SG	40:B1:79:PHE:HD1	2.17	0.67
46:B3:27:GLU:HG3	46:B3:68:GLU:HA	1.75	0.67
1:CA:1378:C:H5	1:CA:1379:G:N9	1.92	0.67
2:CE:132:LYS:HA	2:CE:135:GLN:HE21	1.59	0.67
13:CP:3:ARG:HG3	13:CP:9:ILE:CG1	2.24	0.67
23:CD:59:A:O2'	23:CD:60:A:C8	2.47	0.67
36:DP:34:LEU:HB2	36:DP:118:LEU:HD22	1.77	0.67
37:D0:38:VAL:HB	37:D0:39:PRO:HD3	1.74	0.67
38:DQ:24:LEU:H	38:DQ:24:LEU:CD2	2.07	0.67
1:AA:403:C:OP1	4:AG:137:SER:OG	2.11	0.67
12:AO:18:VAL:HG23	12:AO:19:ARG:N	2.07	0.67
29:BF:46:ARG:HH11	29:BF:46:ARG:CG	2.03	0.67
36:BP:86:GLY:C	36:BP:88:GLY:N	2.52	0.67
44:BU:47:LYS:HG3	44:BU:60:PHE:CE1	2.29	0.67
53:B7:8:ASN:ND2	53:B7:8:ASN:O	2.22	0.67
1:CA:1004:A:H5"	1:CA:1025:U:C4	2.29	0.67
1:CA:1014:A:H2'	1:CA:1015:A:C8	2.29	0.67
1:CA:1129:C:N4	1:CA:1141:C:H41	1.93	0.67
25:DA:974:G:O2'	25:DA:975:G:N7	2.27	0.67
25:DA:1298:C:H5"	25:DA:1299:G:OP2	1.95	0.67
36:DP:78:PRO:O	36:DP:79:LEU:CD1	2.43	0.67
1:AA:1266:G:N2	1:AA:1270:C:C2	2.63	0.67
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.30	0.67
6:AI:24:GLU:HG2	6:AI:28:ARG:NH2	2.09	0.67
8:AK:39:LEU:HB3	8:AK:45:ILE:HG12	1.75	0.67
25:BA:1019:U:O2'	25:BA:1021:A:H2	1.78	0.67
25:BA:1568:G:H5'	27:BD:60:ARG:HA	1.75	0.67
1:CA:1321:C:H41	1:CA:1322:C:N4	1.90	0.67
9:CL:95:LYS:HD3	9:CL:96:LEU:H	1.58	0.67
15:CR:17:ARG:HG3	15:CR:17:ARG:NH1	1.97	0.67
15:CR:87:ILE:HG22	15:CR:88:ARG:H	1.60	0.67
25:DA:1070:A:H8	25:DA:1096:A:HO2'	1.43	0.67
25:DA:2531:A:C5'	31:DH:157:TYR:HE2	2.08	0.67
25:DA:2748:A:N6	25:DA:2754:U:H3	1.92	0.67
31:DH:10:PRO:O	31:DH:49:VAL:HG12	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AC:21:U:O2'	23:AC:22:A:H5'	1.95	0.67
25:BA:2250:G:OP1	36:BP:83:MET:HE3	1.94	0.67
27:BD:181:GLU:HA	27:BD:272:ALA:HB2	1.70	0.67
28:BE:14:ILE:CG2	28:BE:15:PHE:N	2.30	0.67
32:BK:29:TYR:O	32:BK:32:PRO:HD2	1.94	0.67
33:BM:21:LYS:HE2	33:BM:138:LEU:HD12	1.76	0.67
36:BP:81:VAL:C	36:BP:82:ARG:HG2	2.19	0.67
1:CA:254:G:OP1	17:CT:67:LYS:O	2.11	0.67
31:DH:118:PRO:HD2	31:DH:121:ILE:HG13	1.75	0.67
39:DR:3:ARG:HG2	39:DR:6:LEU:H	1.60	0.67
45:DV:164:ALA:O	45:DV:165:VAL:HG13	1.95	0.67
1:AA:250:A:H4'	1:AA:251:G:H5"	1.77	0.67
2:AE:233:SER:HB2	2:AE:234:PRO:HD2	1.76	0.67
13:AP:84:ILE:HD11	19:AV:66:MET:HE2	1.77	0.67
25:BA:1899:G:H21	25:BA:1902:C:H5	1.43	0.67
25:BA:1932:A:H2'	25:BA:1933:G:O4'	1.95	0.67
25:BA:2308:G:H4'	25:BA:2309:A:OP2	1.94	0.67
25:BA:2466:C:O2'	25:BA:2467:C:H5'	1.95	0.67
30:BG:166:ASP:HA	30:BG:169:ALA:HB3	1.76	0.67
1:CA:345:C:HO2'	1:CA:346:G:P	2.17	0.67
1:CA:1126:U:O4	1:CA:1281:U:C6	2.47	0.67
2:CE:185:ILE:CG2	2:CE:199:TYR:HB2	2.24	0.67
4:CG:30:LYS:HG2	4:CG:30:LYS:O	1.93	0.67
25:DA:195:A:OP1	35:DO:46:LYS:HE2	1.95	0.67
25:DA:2854:G:C2	25:DA:2864:G:C2	2.83	0.67
41:D2:49:THR:O	41:D2:51:VAL:N	2.28	0.67
41:D2:71:LEU:H	41:D2:86:GLY:CA	2.08	0.67
52:D6:26:ASN:O	52:D6:28:ARG:HG2	1.95	0.67
1:AA:502:G:OP1	12:AO:118:SER:HB3	1.95	0.67
2:AE:32:ILE:HD11	2:AE:40:HIS:CB	2.21	0.67
25:BA:234:C:H2'	25:BA:235:U:H6	1.60	0.67
25:BA:242:G:H5'	54:B8:62:LEU:HD22	1.77	0.67
25:BA:792:G:H5"	25:BA:793:A:H5'	1.76	0.67
25:BA:1348:G:H2'	25:BA:1349:A:H5"	1.77	0.67
25:BA:2125:G:N1	25:BA:2172:U:OP1	2.28	0.67
25:BA:2335:A:N7	25:BA:2337:G:C5	2.63	0.67
28:BE:48:GLN:HE22	28:BE:77:ILE:HD12	1.60	0.67
28:BE:66:HIS:C	28:BE:66:HIS:ND1	2.48	0.67
28:BE:78:LEU:HD12	28:BE:79:ARG:HG2	1.75	0.67
35:BO:126:VAL:HG12	35:BO:147:LEU:HD22	1.76	0.67
1:CA:946:A:H2'	1:CA:947:G:C8	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CO:82:VAL:HG23	12:CO:106:ASP:OD1	1.95	0.67
25:DA:796:C:H2'	25:DA:797:C:C6	2.30	0.67
25:DA:1021:A:H61	25:DA:1142(A):A:H61	1.41	0.67
25:DA:1283:G:H22	25:DA:1286:A:H5'	1.60	0.67
26:DB:42:C:H4'	30:DG:67:LYS:HD3	1.76	0.67
35:DO:128:HIS:HA	35:DO:147:LEU:HA	1.76	0.67
36:DP:29:PHE:CB	36:DP:65:PHE:CE1	2.78	0.67
1:AA:112:G:OP1	16:AS:27:LYS:HD2	1.94	0.66
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.30	0.66
1:AA:1277:C:O2'	1:AA:1279:A:C8	2.47	0.66
24:A1:14:U:H4'	24:A1:14:U:OP1	1.93	0.66
25:BA:32:C:O2'	25:BA:33:U:H5'	1.95	0.66
25:BA:1537:C:H2'	25:BA:1538:G:C8	2.30	0.66
25:BA:2154:G:H2'	25:BA:2155:G:H8	1.60	0.66
28:BE:13:ARG:HG3	39:BR:58:ASN:OD1	1.95	0.66
45:BV:76:LEU:H	45:BV:76:LEU:CD2	2.08	0.66
22:CB:55:G:H2'	22:CB:56:G:C8	2.29	0.66
23:CD:18:C:H2'	23:CD:18:C:O2	1.93	0.66
25:DA:2275:C:H5'	25:DA:2275:C:H6	1.59	0.66
25:DA:2393:A:OP1	54:D8:30:ARG:HB2	1.95	0.66
30:DG:117:PHE:CD1	30:DG:117:PHE:C	2.72	0.66
31:DH:68:THR:O	31:DH:72:ILE:HG13	1.96	0.66
31:DH:102:ALA:O	31:DH:103:LEU:HB3	1.94	0.66
41:D2:35:LEU:C	41:D2:37:VAL:HG13	2.21	0.66
43:DT:11:PRO:HD3	48:DW:37:PHE:CD2	2.30	0.66
48:DW:70:GLN:HG2	48:DW:71:ASN:N	2.10	0.66
1:AA:890:G:O2'	1:AA:906:G:O6	2.11	0.66
1:AA:1181:G:C2	1:AA:1182:G:N2	2.63	0.66
6:AI:86:ARG:O	6:AI:87:ARG:HG2	1.94	0.66
10:AM:30:SER:OG	10:AM:84:GLN:NE2	2.25	0.66
11:AN:48:ILE:HG13	11:AN:63:LEU:HB3	1.75	0.66
16:AS:22:THR:CG2	16:AS:23:ASP:N	2.57	0.66
23:AD:19:G:H2'	23:AD:58:A:N6	2.10	0.66
25:BA:631:A:P	54:B8:46:ARG:NH2	2.68	0.66
25:BA:885:C:H2'	25:BA:890:A:H61	1.59	0.66
25:BA:1568:G:H5"	27:BD:61:LEU:HD22	1.76	0.66
25:BA:1689:A:N6	25:BA:1698:A:C2	2.51	0.66
39:BR:50:ILE:HD11	39:BR:102:ILE:HD11	1.75	0.66
40:B1:8:VAL:HG23	40:B1:11:ARG:HH21	1.60	0.66
45:BV:51:ALA:HB1	45:BV:57:ILE:HD11	1.77	0.66
1:CA:581:G:OP1	15:CR:61:GLY:HA3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:13:ARG:HD3	4:CG:13:ARG:H	1.60	0.66
7:CJ:16:LEU:CD1	9:CL:42:ARG:HA	2.24	0.66
23:CC:59:A:H4'	23:CC:60:A:OP1	1.93	0.66
25:DA:1819:A:H4'	25:DA:1820:U:O5'	1.95	0.66
25:DA:2473:U:H2'	25:DA:2473:U:O2	1.95	0.66
25:DA:2523:G:H5'	25:DA:2523:G:H8	1.60	0.66
28:DE:119:ARG:HG2	28:DE:160:TYR:HB2	1.77	0.66
33:DM:45:ASN:O	33:DM:45:ASN:CG	2.38	0.66
35:DO:37:GLY:O	35:DO:38:GLN:C	2.38	0.66
47:DZ:92:LYS:HE3	47:DZ:97:LEU:HG	1.77	0.66
52:D6:27:LYS:HB3	52:D6:27:LYS:HZ3	1.60	0.66
6:AI:3:ARG:O	6:AI:93:SER:HB2	1.95	0.66
11:AN:40:ILE:CG2	11:AN:75:TYR:HD2	2.06	0.66
19:AV:9:VAL:HG12	19:AV:9:VAL:O	1.95	0.66
25:BA:1464:C:HO2'	25:BA:1528:A:H8	1.43	0.66
27:BD:65:ILE:HD11	27:BD:67:PHE:CE2	2.30	0.66
31:BH:169:VAL:C	31:BH:170:ARG:HG3	2.19	0.66
37:B0:117:VAL:HG22	37:B0:118:GLU:H	1.60	0.66
48:BW:65:ASN:HD22	48:BW:69:ARG:HE	1.40	0.66
1:CA:1202:G:N2	14:CQ:43:CYS:SG	2.68	0.66
23:CD:8:U:H1'	23:CD:49:C:O4'	1.94	0.66
23:CD:14:A:OP1	23:CD:14:A:C8	2.49	0.66
25:DA:242:G:H5"	54:D8:62:LEU:HD13	1.76	0.66
38:DQ:86:ALA:O	38:DQ:87:PHE:HB3	1.94	0.66
54:D8:47:LYS:O	54:D8:48:PHE:HB3	1.96	0.66
2:AE:76:GLN:HB3	2:AE:211:ILE:CD1	2.25	0.66
14:AQ:46:GLU:O	14:AQ:50:LYS:HG3	1.96	0.66
25:BA:34:C:O2'	25:BA:35:G:P	2.53	0.66
25:BA:1065:U:C5	25:BA:1066:U:H6	2.12	0.66
25:BA:1359:A:H2'	25:BA:1360:A:H5'	1.77	0.66
31:BH:4:ILE:HB	31:BH:6:ARG:HG3	1.78	0.66
39:BR:112:ARG:HA	39:BR:115:ARG:HD2	1.77	0.66
40:B1:92:ARG:NH1	40:B1:94:ASN:HD22	1.94	0.66
45:BV:19:ARG:NH1	45:BV:84:GLU:HB2	2.10	0.66
46:B3:42:GLY:O	46:B3:57:PHE:HD1	1.79	0.66
52:B6:25:LYS:NZ	52:B6:27:LYS:HD3	2.11	0.66
23:CC:1:C:H2'	23:CC:2:G:OP2	1.95	0.66
40:D1:90:VAL:HG22	41:D2:39:LEU:CB	2.26	0.66
44:DU:97:ARG:NH2	44:DU:98:VAL:HB	2.08	0.66
44:DU:98:VAL:HG13	44:DU:99:CYS:H	1.59	0.66
1:AA:1027:C:C4'	1:AA:1028:C:OP1	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:40:ARG:HH11	3:AF:40:ARG:HG3	1.59	0.66
4:AG:138:TYR:CD2	4:AG:139:ARG:N	2.64	0.66
13:AP:78:ILE:HG22	13:AP:82:MET:HE2	1.76	0.66
13:AP:107:ALA:HB3	13:AP:111:LYS:HD2	1.77	0.66
17:AT:88:TYR:HD2	17:AT:89:LEU:HD23	1.61	0.66
25:BA:784:A:H5'	25:BA:785:G:OP1	1.95	0.66
25:BA:1652:A:OP1	37:B0:8:ARG:NH1	2.28	0.66
25:BA:2439:A:C5'	25:BA:2439:A:H8	2.09	0.66
42:BS:1:MET:HG3	42:BS:64:MET:HE2	1.77	0.66
25:DA:1430:C:H2'	25:DA:1431:U:C6	2.30	0.66
27:DD:43:ARG:HB3	27:DD:54:ARG:HB2	1.78	0.66
27:DD:218:ARG:HB3	27:DD:219:PRO:HD2	1.78	0.66
28:DE:112:GLY:O	28:DE:159:HIS:HA	1.95	0.66
29:DF:82:ILE:HD12	29:DF:82:ILE:O	1.94	0.66
29:DF:124:LEU:O	29:DF:126:VAL:HG13	1.94	0.66
13:AP:49:THR:HG22	13:AP:51:ALA:H	1.61	0.66
31:BH:159:GLU:HG3	31:BH:170:ARG:HH11	1.58	0.66
45:BV:11:GLU:O	45:BV:36:LYS:NZ	2.22	0.66
50:B4:15:ILE:HD12	50:B4:32:TYR:HD1	1.60	0.66
1:CA:973:G:N3	10:CM:55:LYS:NZ	2.44	0.66
1:CA:1352:C:OP1	21:CX:3:LYS:NZ	2.27	0.66
7:CJ:22:LEU:HD23	7:CJ:62:PHE:CE2	2.30	0.66
25:DA:2:G:H1	25:DA:2901:C:H42	1.41	0.66
28:DE:11:MET:SD	28:DE:24:THR:HG22	2.34	0.66
42:DS:12:ILE:HD13	42:DS:17:VAL:HG13	1.78	0.66
52:D6:45:LYS:HE3	52:D6:45:LYS:CA	2.23	0.66
6:AI:4:TYR:CD1	6:AI:92:LYS:HA	2.28	0.66
10:AM:57:LYS:HE3	10:AM:60:ARG:NH2	2.10	0.66
25:BA:309:G:N3	25:BA:329:G:O2'	2.28	0.66
25:BA:1297:C:OP1	25:BA:2710:C:H4'	1.94	0.66
25:BA:1388:G:O2'	25:BA:1389:G:H5'	1.96	0.66
25:BA:2061:G:OP1	29:BF:68:LYS:NZ	2.29	0.66
28:BE:53:PRO:HA	28:BE:74:PRO:HB3	1.77	0.66
36:BP:68:ILE:CD1	36:BP:103:MET:HG2	2.22	0.66
38:BQ:26:LEU:HD12	38:BQ:39:ILE:HD11	1.76	0.66
43:BT:60:ARG:HH22	53:B7:47:ARG:HH12	1.43	0.66
46:B3:60:PHE:N	46:B3:60:PHE:CD2	2.64	0.66
54:B8:8:LYS:O	54:B8:12:LYS:HG3	1.96	0.66
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.95	0.66
2:CE:42:ILE:HD11	2:CE:202:PRO:CB	2.26	0.66
5:CH:70:PRO:HB3	5:CH:144:THR:HG22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CB:47:C:N3	22:CB:56:G:N2	2.40	0.66
25:DA:2531:A:H5'	31:DH:157:TYR:CE2	2.31	0.66
25:DA:2786:U:H4'	28:DE:64:LYS:C	2.20	0.66
36:DP:7:MET:HB3	36:DP:10:ARG:HH22	1.60	0.66
37:D0:100:LEU:HD21	37:D0:113:LEU:HD13	1.77	0.66
1:AA:1003:G:H2'	1:AA:1004:A:H5'	1.77	0.66
1:AA:1171:G:O2'	1:AA:1172:C:H5'	1.95	0.66
12:AO:91:LYS:O	12:AO:91:LYS:HG3	1.96	0.66
23:AC:20:G:HO2'	23:AC:21:U:H5	1.44	0.66
25:BA:654(V):A:H2	25:BA:655:A:C2	2.14	0.66
25:BA:1786:A:H2	25:BA:2606:C:H1'	1.60	0.66
45:BV:98:MET:HE2	45:BV:100:VAL:HG22	1.78	0.66
47:BZ:49:VAL:HG11	47:BZ:70:VAL:HG11	1.75	0.66
1:CA:1226:C:N4	13:CP:104:ARG:HB2	2.11	0.66
2:CE:158:LEU:HD23	2:CE:182:ILE:HD11	1.78	0.66
3:CF:14:ILE:HG12	3:CF:15:THR:N	2.10	0.66
14:CQ:22:THR:OG1	14:CQ:33:VAL:HG11	1.95	0.66
25:DA:528:A:H3'	25:DA:528:A:C8	2.31	0.66
25:DA:1058:U:H3	25:DA:1080:A:H61	1.43	0.66
29:DF:101:LEU:O	29:DF:106:ARG:NH1	2.29	0.66
36:DP:66:ILE:O	36:DP:67:ARG:HB2	1.95	0.66
1:AA:192:U:H4'	20:AW:102:GLY:O	1.96	0.66
1:AA:814:A:N7	1:AA:816:A:C4	2.64	0.66
9:AL:8:GLY:HA3	9:AL:79:LEU:HB3	1.76	0.66
17:AT:86:GLU:O	17:AT:90:ILE:HG13	1.96	0.66
23:AD:45:A:H5"	23:AD:46:G:OP2	1.96	0.66
25:BA:414:C:H2'	25:BA:415:A:C8	2.31	0.66
25:BA:1478:G:H2'	25:BA:1479:G:H8	1.60	0.66
25:BA:1929:G:H4'	25:BA:1930:G:OP1	1.95	0.66
29:BF:177:ALA:HB1	29:BF:178:PRO:HD2	1.78	0.66
42:BS:94:ASP:C	42:BS:95:ILE:HG23	2.21	0.66
50:B4:12:ALA:CB	50:B4:29:PRO:HA	2.26	0.66
19:CV:42:PRO:HA	19:CV:45:VAL:HG13	1.77	0.66
25:DA:289:A:H5'	25:DA:290:G:OP2	1.96	0.66
26:DB:39:A:H61	50:D4:1:MET:HB3	1.58	0.66
34:DN:35:VAL:HG21	34:DN:69:ILE:HD13	1.78	0.66
39:DR:92:GLY:HA2	39:DR:116:ALA:HA	1.78	0.66
50:D4:11:PRO:HA	50:D4:25:TYR:H	1.58	0.66
1:AA:843:U:H5'	1:AA:848:C:C5	2.31	0.66
5:AH:84:PHE:HB3	5:AH:134:ALA:HB2	1.78	0.66
11:AN:77:MET:HE3	11:AN:80:VAL:CG1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:17:VAL:O	13:AP:20:THR:OG1	2.08	0.66
23:AD:20:G:C5'	23:AD:60:A:H61	2.09	0.66
25:BA:67:U:N3	25:BA:74:A:C2	2.54	0.66
25:BA:1931:U:H5	25:BA:1969:A:N7	1.94	0.66
25:BA:2756:U:H4'	25:BA:2757:A:OP1	1.96	0.66
29:BF:197:ASP:O	29:BF:198:ALA:HB3	1.96	0.66
30:BG:67:LYS:CE	50:B4:6:HIS:CE1	2.74	0.66
30:BG:130:ASN:HB3	30:BG:160:VAL:HA	1.76	0.66
31:BH:94:TYR:CE1	31:BH:107:VAL:O	2.48	0.66
33:BM:96:GLU:O	33:BM:96:GLU:HG2	1.93	0.66
38:BQ:11:LYS:HD3	38:BQ:91:PRO:HD3	1.78	0.66
53:B7:8:ASN:HD21	53:B7:11:LYS:N	1.81	0.66
1:CA:1378:C:H5	1:CA:1379:G:C4	2.14	0.66
2:CE:96:ARG:O	2:CE:98:LEU:HD23	1.96	0.66
9:CL:28:VAL:CG2	9:CL:63:ILE:HB	2.25	0.66
25:DA:147:U:H2'	25:DA:148:C:H5"	1.77	0.66
25:DA:287:C:H2'	25:DA:288:C:C6	2.31	0.66
25:DA:959:A:N6	25:DA:960:A:N1	2.44	0.66
25:DA:1024:G:C3'	25:DA:1025:G:H5"	2.25	0.66
25:DA:1599:C:H5"	43:DT:35:THR:HG22	1.78	0.66
35:DO:9:ASN:HB3	35:DO:10:PRO:CD	2.26	0.66
41:D2:85:LYS:CG	41:D2:86:GLY:N	2.54	0.66
1:AA:188:U:H2'	1:AA:189:U:H5"	1.77	0.65
4:AG:19:LEU:H	4:AG:19:LEU:CD2	2.08	0.65
19:AV:32:LYS:HD2	19:AV:57:HIS:CD2	2.31	0.65
25:BA:443:A:H1'	25:BA:1201:C:O4'	1.96	0.65
25:BA:654(M):C:C2'	25:BA:654(N):G:C8	2.79	0.65
27:BD:35:LYS:NZ	27:BD:65:ILE:HA	2.11	0.65
31:BH:159:GLU:CD	31:BH:170:ARG:HH12	2.04	0.65
33:BM:58:ASP:H	33:BM:60:ILE:CD1	2.09	0.65
1:CA:1206:G:O2'	3:CF:193:TYR:HA	1.96	0.65
1:CA:1347:G:O2'	1:CA:1373:G:O6	2.12	0.65
15:CR:87:ILE:CG2	15:CR:88:ARG:N	2.57	0.65
23:CD:13:C:O2'	23:CD:14:A:P	2.53	0.65
25:DA:2129:C:H2'	25:DA:2130:U:H5'	1.78	0.65
25:DA:2357:U:OP1	46:D3:20:ARG:NH1	2.28	0.65
28:DE:11:MET:HE3	28:DE:186:GLY:HA2	1.76	0.65
28:DE:42:ASP:HB3	28:DE:44:TYR:CE1	2.31	0.65
29:DF:25:PRO:CB	29:DF:28:ILE:HG13	2.26	0.65
32:DK:117:GLU:CD	32:DK:117:GLU:H	2.04	0.65
35:DO:47:ASP:OD1	35:DO:50:ARG:NH1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:135:ASP:OD1	36:DP:137:TYR:HD2	1.80	0.65
40:D1:91:ASP:O	40:D1:93:LYS:N	2.28	0.65
44:DU:20:TYR:N	44:DU:20:TYR:CD1	2.63	0.65
45:DV:108:PRO:CB	45:DV:143:GLY:CA	2.74	0.65
1:AA:160:A:H2'	1:AA:161:A:O4'	1.95	0.65
1:AA:652:U:O4	1:AA:752:G:O2'	2.10	0.65
4:AG:13:ARG:O	4:AG:14:ARG:C	2.38	0.65
6:AI:44:GLY:HA2	6:AI:59:TYR:CE1	2.32	0.65
11:AN:22:HIS:HB3	11:AN:29:ILE:HG23	1.77	0.65
25:BA:1264:G:H5'	51:B5:11:THR:HG21	1.77	0.65
25:BA:2467:C:O2'	25:BA:2468:G:C5'	2.44	0.65
27:BD:272:ALA:CB	27:BD:273:ARG:CA	2.37	0.65
30:BG:120:LEU:HD22	30:BG:133:LEU:HD12	1.78	0.65
36:BP:14:ARG:HG2	36:BP:41:TRP:CH2	2.31	0.65
1:CA:736:C:H2'	1:CA:737:A:C8	2.31	0.65
1:CA:1305:G:H22	1:CA:1331:G:H2'	1.60	0.65
3:CF:58:GLU:HB2	3:CF:65:ALA:HB3	1.78	0.65
7:CJ:20:ASP:HB3	7:CJ:23:VAL:CG2	2.26	0.65
25:DA:2012:G:OP1	42:DS:11:ARG:NH2	2.29	0.65
25:DA:2470:G:P	36:DP:56:ARG:CZ	2.84	0.65
31:DH:57:ASP:O	31:DH:62:LYS:HE2	1.97	0.65
36:DP:29:PHE:HD2	36:DP:65:PHE:CZ	2.12	0.65
43:DT:57:LEU:N	43:DT:57:LEU:HD23	2.11	0.65
48:DW:15:LYS:HE2	48:DW:67:LYS:HE2	1.79	0.65
49:DX:59:VAL:HG12	49:DX:60:GLU:N	2.10	0.65
1:AA:1132:C:H2'	1:AA:1133:G:H8	1.59	0.65
13:AP:115:LYS:O	13:AP:117:VAL:HG13	1.95	0.65
16:AS:21:VAL:HG22	16:AS:34:GLU:O	1.95	0.65
16:AS:54:GLU:O	16:AS:57:ARG:HB2	1.96	0.65
25:BA:811:U:O5'	35:BO:21:ARG:O	2.14	0.65
25:BA:1138:G:N2	33:BM:106:MET:HE3	2.06	0.65
28:BE:41:LYS:C	28:BE:42:ASP:OD2	2.39	0.65
28:BE:183:LEU:HD12	28:BE:183:LEU:N	2.11	0.65
32:BK:104:GLN:O	32:BK:105:HIS:CB	2.45	0.65
50:B4:14:ILE:HA	50:B4:31:ILE:O	1.97	0.65
1:CA:652:U:O2'	1:CA:653:A:N3	2.29	0.65
1:CA:1226:C:C5	13:CP:104:ARG:HB2	2.31	0.65
1:CA:1226:C:H4'	19:CV:80:TYR:OH	1.96	0.65
2:CE:132:LYS:O	2:CE:136:VAL:HG23	1.95	0.65
23:CC:30:G:O2'	23:CC:31:G:H5'	1.96	0.65
25:DA:142:G:H2'	25:DA:143:C:H6	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2311:A:H5"	25:DA:2312:U:OP2	1.96	0.65
25:DA:2633:G:H1'	28:DE:62:PRO:HG2	1.78	0.65
43:DT:15:GLU:CD	43:DT:15:GLU:H	2.04	0.65
5:AH:11:ILE:HD11	5:AH:31:LEU:HB3	1.78	0.65
10:AM:37:PRO:HA	10:AM:72:VAL:HG22	1.79	0.65
19:AV:41:VAL:HB	19:AV:42:PRO:CA	2.25	0.65
20:AW:9:ASN:HD22	20:AW:9:ASN:C	2.05	0.65
25:BA:953:A:OP2	36:BP:16:ARG:HD3	1.95	0.65
25:BA:1080:A:H2'	25:BA:1081:U:C6	2.31	0.65
25:BA:1557:C:OP2	25:BA:1558:A:O2'	2.13	0.65
25:BA:1799:G:O2'	25:BA:1800:C:OP2	2.09	0.65
25:BA:2394:C:OP1	35:BO:62:LEU:CB	2.43	0.65
25:BA:2467:C:H4'	36:BP:123:HIS:CE1	2.31	0.65
26:BB:48:A:H4'	38:BQ:95:HIS:HD2	1.61	0.65
42:BS:3:ALA:HB2	42:BS:64:MET:HE3	1.79	0.65
1:CA:922:G:H4'	5:CH:20:GLN:HA	1.78	0.65
3:CF:119:ARG:HH22	3:CF:140:ARG:CG	2.07	0.65
9:CL:26:VAL:HG22	9:CL:61:ALA:HB3	1.77	0.65
13:CP:102:ARG:HD3	13:CP:105:THR:HG23	1.79	0.65
25:DA:228:A:H3'	25:DA:228:A:C8	2.32	0.65
25:DA:2292:C:OP1	38:DQ:17:ARG:NH2	2.30	0.65
25:DA:2331:G:H4'	46:D3:43:THR:H	1.60	0.65
25:DA:2402:C:N4	25:DA:2416:C:H1'	2.12	0.65
31:DH:102:ALA:CB	31:DH:117:PRO:HD3	2.27	0.65
31:DH:152:ARG:C	31:DH:154:PRO:CD	2.69	0.65
32:DK:114:LEU:O	32:DK:114:LEU:HD23	1.96	0.65
32:DK:125:GLU:HB2	32:DK:141:LYS:HD3	1.78	0.65
45:DV:158:PRO:HB2	45:DV:159:PRO:HD2	1.78	0.65
3:AF:78:GLY:HA3	3:AF:83:ARG:HB3	1.78	0.65
4:AG:8:VAL:HG13	4:AG:21:LEU:HD13	1.79	0.65
25:BA:1734:C:H2'	25:BA:1735:C:H5"	1.77	0.65
25:BA:2310:A:N3	30:BG:77:ILE:HG12	2.10	0.65
26:BB:73:A:H2'	26:BB:74:U:H5'	1.78	0.65
1:CA:728:A:H2'	1:CA:729:A:C8	2.31	0.65
1:CA:973:G:N2	10:CM:55:LYS:HZ1	1.95	0.65
9:CL:32:ASP:HB3	9:CL:35:GLU:HB2	1.78	0.65
25:DA:1862:G:C2'	25:DA:1863:G:H5'	2.26	0.65
25:DA:2128:C:H4'	25:DA:2173:A:C6	2.31	0.65
29:DF:36:VAL:HG11	29:DF:183:VAL:HG11	1.79	0.65
35:DO:11:GLY:O	35:DO:13:ASN:N	2.30	0.65
39:DR:51:ARG:HG3	39:DR:98:LYS:HG3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D4:1:MET:O	50:D4:2:LYS:HD3	1.97	0.65
1:AA:737:A:H2'	1:AA:738:C:C6	2.31	0.65
1:AA:789:U:H5	1:AA:792:A:OP2	1.79	0.65
4:AG:110:PHE:HD1	4:AG:110:PHE:N	1.94	0.65
10:AM:55:LYS:HB3	10:AM:55:LYS:HZ3	1.60	0.65
23:AC:56:U:O2	23:AC:58:A:C8	2.49	0.65
25:BA:654(N):G:H2'	25:BA:654(O):G:C8	2.32	0.65
25:BA:1025:G:C4	25:BA:1135:C:H1'	2.32	0.65
25:BA:1177:A:H4'	25:BA:1178:C:H5"	1.78	0.65
25:BA:2371:G:H1'	52:B6:45:LYS:HD2	1.79	0.65
30:BG:64:THR:HG23	30:BG:66:GLN:H	1.61	0.65
1:CA:1128:C:N4	1:CA:1139:G:C2	2.64	0.65
1:CA:1149:C:O2'	1:CA:1280:A:N1	2.27	0.65
2:CE:144:ARG:HD2	2:CE:148:TYR:HE2	1.61	0.65
4:CG:24:GLU:O	4:CG:27:TYR:HB2	1.97	0.65
10:CM:78:ASN:HB2	10:CM:81:THR:H	1.60	0.65
25:DA:6:A:H4'	33:DM:129:PRO:HB2	1.78	0.65
25:DA:1262:A:N3	51:D5:10:LYS:HE3	2.12	0.65
25:DA:2572:A:C8	28:DE:144:ARG:HD2	2.31	0.65
29:DF:68:LYS:HA	29:DF:68:LYS:NZ	2.11	0.65
30:DG:102:PHE:HE2	30:DG:141:PHE:CE1	2.15	0.65
31:DH:26:VAL:HG21	31:DH:75:ALA:O	1.97	0.65
1:AA:1004:A:H8	1:AA:1036:G:H22	1.43	0.65
4:AG:13:ARG:O	4:AG:15:GLU:N	2.30	0.65
33:BM:57:ALA:O	33:BM:58:ASP:CG	2.39	0.65
35:BO:9:ASN:O	35:BO:10:PRO:C	2.40	0.65
37:B0:44:LEU:HD22	37:B0:48:VAL:CG2	2.26	0.65
42:BS:88:ARG:HB3	42:BS:92:ARG:HB3	1.79	0.65
45:BV:105:VAL:HG22	45:BV:106:GLY:H	1.60	0.65
50:B4:9:LEU:H	50:B4:27:THR:HG23	1.61	0.65
1:CA:422:C:O2'	1:CA:423:G:C2	2.50	0.65
4:CG:43:HIS:HA	4:CG:46:LYS:HG3	1.79	0.65
9:CL:18:PHE:HD1	9:CL:62:TYR:HD2	1.45	0.65
19:CV:31:ILE:HG22	19:CV:50:ALA:H	1.61	0.65
25:DA:90:U:H2'	25:DA:91:A:H5"	1.77	0.65
25:DA:617:G:OP1	29:DF:40:GLN:HG2	1.95	0.65
25:DA:2364:C:C2'	25:DA:2365:G:H5'	2.27	0.65
28:DE:36:ARG:HH11	28:DE:36:ARG:HG2	1.60	0.65
31:DH:48:GLY:O	31:DH:49:VAL:HG13	1.97	0.65
44:DU:17:SER:OG	44:DU:18:GLY:O	2.13	0.65
1:AA:1305:G:H22	1:AA:1331:G:C2'	2.01	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:581:C:H2'	25:BA:582:G:H8	1.62	0.65
25:BA:2150:U:H2'	25:BA:2151:G:C8	2.31	0.65
30:BG:133:LEU:CD2	30:BG:157:ILE:HB	2.27	0.65
36:BP:39:PRO:HA	36:BP:97:VAL:O	1.97	0.65
38:BQ:9:ARG:O	38:BQ:12:PHE:N	2.30	0.65
40:B1:79:PHE:C	40:B1:79:PHE:CD2	2.73	0.65
42:BS:79:GLY:HA3	42:BS:100:THR:HG22	1.77	0.65
1:CA:660:G:H2'	1:CA:661:G:O4'	1.95	0.65
1:CA:1320:C:H2'	1:CA:1321:C:H6	1.59	0.65
3:CF:29:TYR:OH	14:CQ:54:PRO:HD2	1.96	0.65
3:CF:138:VAL:HG23	3:CF:151:VAL:HG23	1.79	0.65
4:CG:178:VAL:HG12	4:CG:179:GLU:H	1.62	0.65
12:CO:110:VAL:CG2	12:CO:120:TYR:HB3	2.26	0.65
25:DA:443:A:H1'	25:DA:1201:C:O4'	1.96	0.65
25:DA:627:A:N7	35:DO:84:ASN:ND2	2.45	0.65
25:DA:2137:C:N4	25:DA:2154:G:H1	1.94	0.65
36:DP:54:MET:CE	36:DP:118:LEU:HD23	2.26	0.65
36:DP:88:GLY:O	36:DP:89:ASN:HB2	1.95	0.65
44:DU:87:LYS:HB3	44:DU:92:ASN:HB3	1.79	0.65
45:DV:115:GLY:HA3	45:DV:174:VAL:CG1	2.27	0.65
1:AA:827:U:C5	1:AA:872:A:N1	2.64	0.65
3:AF:123:GLN:O	3:AF:128:PHE:HB2	1.97	0.65
12:AO:40:VAL:HG21	12:AO:78:GLN:O	1.96	0.65
25:BA:1188:U:C4'	41:B2:79:VAL:HG22	2.27	0.65
35:BO:47:ASP:OD1	35:BO:50:ARG:NH2	2.29	0.65
37:B0:9:LYS:HA	37:B0:17:ARG:NE	2.12	0.65
38:BQ:88:ASP:OD1	38:BQ:90:GLY:N	2.29	0.65
39:BR:60:THR:HG22	39:BR:77:PRO:HA	1.77	0.65
40:B1:79:PHE:HE1	40:B1:106:PHE:CZ	2.15	0.65
41:B2:38:LEU:O	41:B2:51:VAL:HG13	1.97	0.65
48:BW:50:ILE:O	48:BW:54:LYS:HB2	1.96	0.65
1:CA:719:C:C5	1:CA:720:C:C4	2.85	0.65
1:CA:920:U:H2'	1:CA:921:U:C6	2.31	0.65
4:CG:31:CYS:C	4:CG:33:MET:H	2.04	0.65
13:CP:3:ARG:HH11	30:DG:113:ARG:HH21	1.45	0.65
19:CV:39:THR:HG22	19:CV:40:ILE:H	1.61	0.65
25:DA:38:A:H2'	25:DA:39:C:C6	2.32	0.65
25:DA:1332:G:N2	25:DA:1610:A:H8	1.95	0.65
25:DA:2820:A:O2'	25:DA:2821:A:OP1	2.14	0.65
27:DD:35:LYS:HG2	27:DD:64:ILE:H	1.59	0.65
39:DR:65:LYS:HE2	39:DR:67:SER:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DU:87:LYS:O	44:DU:88:LYS:HD3	1.97	0.65
1:AA:723:U:H2'	1:AA:723:U:O2	1.97	0.65
1:AA:1432:G:OP1	39:BR:107:ASP:HB2	1.96	0.65
2:AE:215:LEU:O	2:AE:219:VAL:HG23	1.97	0.65
25:BA:323:G:H5'	29:BF:169:ASN:HD21	1.62	0.65
25:BA:594:U:H5'	54:B8:61:LEU:CD1	2.27	0.65
25:BA:1021:A:H61	25:BA:1142(A):A:N6	1.94	0.65
26:BB:42:C:O2'	30:BG:67:LYS:HE3	1.96	0.65
28:BE:41:LYS:C	28:BE:42:ASP:CG	2.65	0.65
31:BH:9:ILE:H	31:BH:9:ILE:HD12	1.62	0.65
35:BO:66:GLY:O	35:BO:67:MET:C	2.40	0.65
38:BQ:35:ILE:HD11	38:BQ:101:LEU:HD23	1.79	0.65
44:BU:81:LYS:HG2	44:BU:96:ILE:HB	1.79	0.65
51:B5:20:ARG:HG3	51:B5:23:HIS:CD2	2.32	0.65
13:CP:40:ASN:HB3	13:CP:43:THR:HG23	1.77	0.65
16:CS:48:TRP:HH2	16:CS:76:GLN:HE22	1.43	0.65
25:DA:195:A:OP1	35:DO:46:LYS:HE3	1.96	0.65
25:DA:797:C:OP2	29:DF:62:ARG:HG3	1.98	0.65
25:DA:932:G:H4'	25:DA:933:A:O5'	1.96	0.65
25:DA:986:C:C2'	25:DA:987:G:H5'	2.27	0.65
25:DA:1485:G:C2'	25:DA:1486:A:H5'	2.27	0.65
25:DA:1678:G:N2	25:DA:1989:G:N2	2.44	0.65
25:DA:2854:G:N2	25:DA:2864:G:N3	2.45	0.65
28:DE:103:ASP:OD1	28:DE:201:THR:HG23	1.97	0.65
33:DM:42:TRP:O	40:D1:64:ARG:NH2	2.30	0.65
36:DP:26:TYR:HE1	36:DP:139:GLU:CB	1.93	0.65
36:DP:79:LEU:CD1	36:DP:80:GLU:HB2	2.26	0.65
47:DZ:4:VAL:HG11	47:DZ:11:ARG:NH1	2.12	0.65
4:AG:107:ARG:HH22	4:AG:194:LEU:HD11	1.60	0.64
20:AW:9:ASN:O	20:AW:9:ASN:ND2	2.30	0.64
23:AD:57:C:H42	25:BA:2112:G:H1	1.43	0.64
26:BB:15:A:O2'	26:BB:109:G:C8	2.48	0.64
28:BE:35:GLN:HG3	28:BE:36:ARG:N	2.09	0.64
54:B8:26:LYS:HB3	54:B8:44:LYS:HG3	1.79	0.64
1:CA:1119:C:OP2	9:CL:9:ARG:NH2	2.30	0.64
1:CA:1190:G:H3'	3:CF:3:ASN:ND2	2.12	0.64
2:CE:92:TYR:CD2	2:CE:151:GLY:HA3	2.31	0.64
2:CE:231:GLU:HB3	2:CE:232:PRO:HD2	1.77	0.64
20:CW:26:ASN:HB2	20:CW:71:THR:HG23	1.78	0.64
27:DD:28:GLU:HB3	27:DD:29:PRO:HD2	1.77	0.64
28:DE:128:SER:O	28:DE:129:HIS:HB2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:34:TRP:CE3	35:DO:8:PRO:HB3	2.32	0.64
29:DF:123:LEU:O	29:DF:123:LEU:HD12	1.96	0.64
30:DG:109:VAL:HG11	30:DG:142:PRO:HD3	1.79	0.64
31:DH:4:ILE:HG13	31:DH:6:ARG:HG2	1.79	0.64
32:DK:25:TYR:CE2	32:DK:29:TYR:CD2	2.85	0.64
40:D1:98:LEU:C	40:D1:100:VAL:H	2.03	0.64
45:DV:76:LEU:HD23	45:DV:76:LEU:N	2.11	0.64
45:DV:108:PRO:HA	45:DV:143:GLY:H	1.62	0.64
3:AF:152:ILE:HG13	3:AF:167:TRP:HB2	1.79	0.64
7:AJ:22:LEU:HD23	7:AJ:62:PHE:CE2	2.32	0.64
9:AL:83:ARG:HA	9:AL:86:VAL:HG12	1.79	0.64
19:AV:40:ILE:HD11	19:AV:62:ILE:CG2	2.26	0.64
25:BA:370:G:H4'	25:BA:371:A:OP2	1.96	0.64
25:BA:598:G:H1'	35:BO:12:ALA:HB2	1.79	0.64
25:BA:2312:U:O2	30:BG:42:GLY:HA3	1.97	0.64
25:BA:2590:A:OP2	27:BD:237:GLU:HB3	1.97	0.64
28:BE:46:ALA:C	28:BE:47:VAL:CG2	2.70	0.64
33:BM:96:GLU:O	33:BM:96:GLU:CG	2.45	0.64
36:BP:17:LEU:HD13	36:BP:39:PRO:HB2	1.79	0.64
39:BR:93:ARG:HH11	39:BR:93:ARG:HG3	1.63	0.64
1:CA:1090:U:H2'	1:CA:1091:U:C6	2.32	0.64
25:DA:780:G:N2	25:DA:783:A:H62	1.91	0.64
25:DA:1204:A:C2	25:DA:1241:A:N1	2.66	0.64
25:DA:2689:U:C4'	25:DA:2690:C:H5'	2.28	0.64
29:DF:153:SER:OG	29:DF:190:GLU:HG3	1.97	0.64
31:DH:150:ALA:O	31:DH:152:ARG:N	2.30	0.64
31:DH:169:VAL:HG13	31:DH:170:ARG:H	1.62	0.64
1:AA:195:A:C5	1:AA:196:A:N1	2.65	0.64
1:AA:1226:C:OP2	13:AP:103:THR:OG1	2.13	0.64
16:AS:17:TYR:CE1	16:AS:41:PRO:HG3	2.33	0.64
23:AD:15:G:H2'	23:AD:60:A:H2	1.61	0.64
25:BA:1019:U:O2'	25:BA:1021:A:C2	2.49	0.64
40:B1:90:VAL:HG12	40:B1:91:ASP:HA	1.78	0.64
54:B8:36:LYS:CD	54:B8:40:GLU:HG2	2.27	0.64
1:CA:77:C:H42	1:CA:92:G:H1	1.42	0.64
2:CE:121:LEU:HD23	2:CE:127:ILE:HG12	1.80	0.64
12:CO:26:ALA:HA	12:CO:98:TYR:HE2	1.61	0.64
13:CP:91:ARG:NH2	13:CP:96:LEU:HD13	2.12	0.64
25:DA:2314:C:O2'	25:DA:2315:G:H5'	1.97	0.64
25:DA:2689:U:C5'	25:DA:2690:C:H5'	2.28	0.64
27:DD:35:LYS:HD3	27:DD:63:ARG:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:85:VAL:HG12	38:DQ:86:ALA:H	1.61	0.64
41:D2:75:PHE:CD2	41:D2:81:TYR:CD1	2.85	0.64
44:DU:81:LYS:HB3	44:DU:82:PRO:HD2	1.80	0.64
1:AA:105:G:H2'	1:AA:106:C:H6	1.63	0.64
1:AA:114:U:O2'	1:AA:115:G:H5'	1.97	0.64
1:AA:452:A:OP2	16:AS:43:LYS:NZ	2.30	0.64
1:AA:724:G:O2'	1:AA:725:G:H5'	1.97	0.64
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.62	0.64
3:AF:7:PRO:O	3:AF:11:ARG:HG2	1.97	0.64
25:BA:34:C:O4'	25:BA:34:C:OP2	2.15	0.64
25:BA:550:G:O2'	25:BA:1220:A:N3	2.25	0.64
28:BE:81:ILE:HG21	28:BE:84:PHE:HD1	1.55	0.64
32:BK:131:LYS:HB3	32:BK:132:PRO:HA	1.79	0.64
41:B2:47:VAL:HG23	41:B2:48:GLY:N	2.10	0.64
1:CA:973:G:N3	10:CM:55:LYS:CE	2.60	0.64
1:CA:1160:G:O6	1:CA:1181:G:C6	2.51	0.64
5:CH:73:ASN:N	5:CH:73:ASN:OD1	2.31	0.64
9:CL:16:ARG:O	9:CL:63:ILE:HG23	1.98	0.64
31:DH:9:ILE:HD12	31:DH:49:VAL:HG21	1.79	0.64
36:DP:97:VAL:HG11	36:DP:103:MET:HE3	1.80	0.64
1:AA:719:C:O2'	18:AU:49:LYS:HB3	1.96	0.64
1:AA:1032(B):G:H2'	1:AA:1033:G:C8	2.32	0.64
25:BA:1062:G:N3	25:BA:1077:A:N6	2.46	0.64
28:BE:35:GLN:NE2	28:BE:37:ARG:HH12	1.95	0.64
45:BV:151:HIS:HD2	45:BV:168:GLU:HG3	1.62	0.64
1:CA:963:G:N2	10:CM:55:LYS:HD3	1.99	0.64
25:DA:2125:G:N2	25:DA:2172:U:O5'	2.28	0.64
1:AA:474:G:H2'	1:AA:475:G:C8	2.33	0.64
16:AS:49:LEU:HD12	16:AS:50:LYS:N	2.13	0.64
18:AU:36:ASN:HD22	18:AU:36:ASN:H	1.44	0.64
25:BA:1486:A:H2'	25:BA:1487:G:H8	1.61	0.64
25:BA:2580:U:H4'	28:BE:130:GLY:HA3	1.79	0.64
28:BE:26:ILE:CD1	28:BE:198:VAL:CG2	2.74	0.64
28:BE:92:THR:O	28:BE:95:ILE:HG12	1.97	0.64
32:BK:46:ALA:O	32:BK:50:ARG:HD3	1.97	0.64
38:BQ:111:GLU:HA	38:BQ:111:GLU:OE1	1.97	0.64
46:B3:23:VAL:HA	46:B3:38:VAL:HG22	1.79	0.64
50:B4:16:CYS:SG	50:B4:17:GLY:N	2.71	0.64
52:B6:24:GLU:HG3	52:B6:25:LYS:H	1.63	0.64
54:B8:36:LYS:HB2	54:B8:40:GLU:CG	2.23	0.64
1:CA:1374:A:H2'	1:CA:1375:A:H5'	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:70:VAL:HG11	3:CF:76:VAL:HG11	1.79	0.64
3:CF:73:PRO:O	3:CF:76:VAL:HG22	1.98	0.64
10:CM:4:ILE:HD13	10:CM:100:THR:CG2	2.27	0.64
20:CW:49:ALA:HA	20:CW:52:ALA:HB3	1.80	0.64
25:DA:988:A:H3'	49:DX:11:SER:OG	1.98	0.64
25:DA:1012:U:C4	33:DM:25:ARG:HD3	2.32	0.64
25:DA:2191:G:HO2'	25:DA:2192:G:P	2.19	0.64
25:DA:2765:A:H2	25:DA:2766:G:O4'	1.80	0.64
33:DM:62:VAL:HG22	33:DM:66:LYS:HD2	1.80	0.64
36:DP:35:VAL:HG22	36:DP:130:LYS:HB3	1.79	0.64
37:D0:87:TYR:CE1	37:D0:117:VAL:HG12	2.26	0.64
38:DQ:88:ASP:OD2	38:DQ:89:ARG:N	2.30	0.64
39:DR:50:ILE:HD11	39:DR:102:ILE:CD1	2.25	0.64
39:DR:56:GLY:O	39:DR:59:THR:HG23	1.97	0.64
41:D2:72:VAL:O	41:D2:84:LYS:HB3	1.96	0.64
45:DV:116:VAL:HG12	45:DV:117:LEU:H	1.61	0.64
1:AA:411:A:N7	1:AA:413:G:N3	2.45	0.64
1:AA:659:U:C2	1:AA:660:G:C8	2.86	0.64
1:AA:976:G:OP1	14:AQ:32:SER:N	2.29	0.64
1:AA:1027:C:H4'	1:AA:1028:C:OP1	1.97	0.64
2:AE:88:ALA:HB2	2:AE:219:VAL:HG13	1.80	0.64
6:AI:62:TRP:CH2	6:AI:64:GLN:HG3	2.33	0.64
8:AK:88:LYS:HB3	8:AK:89:PRO:HD2	1.77	0.64
25:BA:140:A:H8	25:BA:1408:C:O2'	1.81	0.64
25:BA:1061:U:H1'	25:BA:1070:A:C2	2.33	0.64
25:BA:1118:C:H2'	25:BA:1119:C:C6	2.33	0.64
25:BA:2444:G:OP2	29:BF:68:LYS:CE	2.46	0.64
26:BB:73:A:C2'	26:BB:74:U:H5'	2.28	0.64
28:BE:57:LYS:O	28:BE:59:VAL:N	2.30	0.64
31:BH:153:LYS:HD2	31:BH:153:LYS:N	2.11	0.64
39:BR:31:SER:OG	39:BR:85:LYS:HE2	1.98	0.64
1:CA:273:A:C2'	1:CA:274:A:H5'	2.27	0.64
1:CA:560:U:H5'	1:CA:566:G:N2	2.12	0.64
1:CA:1142:G:H2'	1:CA:1143:G:O4'	1.98	0.64
1:CA:1216:G:H2'	1:CA:1217:C:C6	2.32	0.64
3:CF:27:LYS:NZ	3:CF:27:LYS:HB3	2.13	0.64
22:CB:3:C:H6	22:CB:3:C:O5'	1.80	0.64
22:CB:44:G:H2'	22:CB:45:U:O4'	1.97	0.64
23:CD:15:G:N2	23:CD:49:C:C2	2.64	0.64
25:DA:70:G:H21	25:DA:71:A:H62	1.46	0.64
25:DA:105:C:O2'	44:DU:2:ARG:HD2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:857:C:H4'	46:D3:23:VAL:HG21	1.79	0.64
25:DA:872:A:C5	25:DA:906:G:C2	2.86	0.64
27:DD:72:LYS:HE2	27:DD:101:GLU:OE2	1.98	0.64
28:DE:79:ARG:O	28:DE:80:GLU:HG3	1.98	0.64
28:DE:151:TYR:HD2	28:DE:154:LYS:NZ	1.96	0.64
29:DF:25:PRO:HB3	29:DF:28:ILE:CG1	2.28	0.64
30:DG:109:VAL:HG13	50:D4:33:VAL:CG1	2.27	0.64
46:D3:72:ARG:HB2	46:D3:75:LEU:HB2	1.80	0.64
1:AA:438:G:O2'	1:AA:439:A:H5"	1.98	0.64
1:AA:695:A:OP1	11:AN:52:GLY:HA3	1.97	0.64
1:AA:1502:A:H2	1:AA:1505:G:N2	1.95	0.64
14:AQ:21:TYR:HE2	14:AQ:23:ARG:NE	1.96	0.64
25:BA:70:G:H21	25:BA:71:A:H62	1.43	0.64
25:BA:1021:A:H8	25:BA:1022:G:H5"	1.62	0.64
25:BA:2199:A:H3'	25:BA:2205:C:H6	1.63	0.64
25:BA:2849:U:H4'	25:BA:2868:A:C2	2.33	0.64
29:BF:29:ASN:HB3	29:BF:112:MET:HE1	1.80	0.64
1:CA:1128:C:C4	1:CA:1139:G:C2	2.85	0.64
9:CL:53:VAL:HG13	9:CL:95:LYS:HE3	1.78	0.64
22:CB:27:G:H5'	22:CB:28:C:OP2	1.97	0.64
22:CB:85:C:C6	25:DA:2555:U:O2	2.50	0.64
25:DA:2147:G:H2'	25:DA:2148:G:O4'	1.96	0.64
32:DK:77:LEU:HD12	32:DK:78:THR:H	1.62	0.64
16:AS:15:PRO:O	16:AS:16:HIS:ND1	2.30	0.64
20:AW:13:LEU:C	20:AW:13:LEU:HD12	2.23	0.64
25:BA:1216:G:P	40:B1:12:ARG:HH21	2.20	0.64
25:BA:2171:A:H2'	25:BA:2172:U:H6	1.62	0.64
37:B0:104:ARG:HH11	37:B0:104:ARG:CG	2.11	0.64
40:B1:112:ARG:HH11	40:B1:112:ARG:HG3	1.61	0.64
44:BU:96:ILE:HG12	44:BU:99:CYS:O	1.98	0.64
51:B5:40:LYS:CD	51:B5:46:CYS:HB3	2.27	0.64
1:CA:421:U:H2'	1:CA:421:U:O2	1.98	0.64
1:CA:652:U:H1'	1:CA:653:A:H2	1.62	0.64
1:CA:1121:U:C2'	1:CA:1122:U:H5'	2.28	0.64
10:CM:17:ASP:HB2	10:CM:70:ARG:NH2	2.12	0.64
23:CD:55:U:N3	23:CD:56:U:C5	2.66	0.64
25:DA:140:A:H8	25:DA:1408:C:O2'	1.81	0.64
25:DA:635:C:O2'	25:DA:639:U:OP1	2.15	0.64
32:DK:25:TYR:HE2	32:DK:29:TYR:CD2	2.16	0.64
33:DM:19:GLU:HG3	33:DM:59:LYS:HB3	1.80	0.64
35:DO:39:LYS:HD2	35:DO:45:LEU:CD2	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DO:85:LEU:HA	35:DO:88:LEU:CB	2.28	0.64
36:DP:33:GLY:HA2	36:DP:105:GLU:CB	2.27	0.64
38:DQ:110:LEU:HD23	38:DQ:112:PHE:CE2	2.33	0.64
1:AA:667:G:H4'	15:AR:51:HIS:CE1	2.33	0.64
19:AV:63:THR:O	19:AV:66:MET:HG3	1.98	0.64
20:AW:10:LEU:HD23	20:AW:12:ALA:HB3	1.75	0.64
25:BA:1171:G:C5	25:BA:1174:A:N6	2.66	0.64
25:BA:1192:G:C2'	25:BA:1193:G:H5'	2.28	0.64
25:BA:2562:U:H1'	34:BN:23:ARG:NH1	2.13	0.64
28:BE:23:VAL:CB	28:BE:185:LYS:HA	2.26	0.64
29:BF:134:GLY:HA2	29:BF:166:ALA:HB2	1.79	0.64
35:BO:11:GLY:O	35:BO:13:ASN:N	2.30	0.64
45:BV:157:LEU:HD11	45:BV:163:LEU:HD21	1.79	0.64
16:CS:8:ARG:HD2	16:CS:17:TYR:CE2	2.33	0.64
19:CV:41:VAL:HG22	50:D4:63:TYR:OH	1.98	0.64
25:DA:2446:G:C2'	25:DA:2447:G:H5"	2.28	0.64
28:DE:199:ARG:HG2	28:DE:200:GLU:H	1.61	0.64
54:D8:49:VAL:HG23	54:D8:50:LEU:N	2.13	0.64
1:AA:8:A:N6	4:AG:205:GLU:O	2.31	0.63
1:AA:51:A:OP2	1:AA:52:G:H8	1.80	0.63
1:AA:173:U:H5"	1:AA:197:A:O4'	1.98	0.63
3:AF:78:GLY:O	3:AF:79:ARG:HG2	1.98	0.63
21:AX:5:ASP:O	21:AX:11:GLY:HA3	1.97	0.63
23:AC:48:U:H4'	23:AC:49:C:H5'	1.80	0.63
25:BA:2137:C:N4	25:BA:2154:G:H1	1.95	0.63
28:BE:38:THR:C	28:BE:40:GLU:H	2.04	0.63
47:BZ:83:GLU:HG2	47:BZ:84:GLY:N	2.13	0.63
52:B6:12:GLU:HB3	52:B6:23:THR:HG22	1.81	0.63
1:CA:689:C:C2'	1:CA:690:G:H5'	2.28	0.63
1:CA:1178:G:H5'	9:CL:93:ARG:HH21	1.63	0.63
3:CF:18:TRP:HE1	14:CQ:55:GLY:H	1.45	0.63
23:CC:7:G:H1	23:CC:67:C:H42	1.46	0.63
23:CC:32:G:C4	23:CC:33:C:C5	2.86	0.63
25:DA:1310:G:OP2	53:D7:9:ARG:HD2	1.97	0.63
25:DA:1332:G:N2	25:DA:1610:A:C8	2.66	0.63
25:DA:2187:G:H2'	25:DA:2188:C:O4'	1.98	0.63
27:DD:25:THR:C	27:DD:27:THR:H	2.03	0.63
31:DH:86:GLU:HA	31:DH:132:ARG:HB2	1.78	0.63
36:DP:54:MET:HE1	36:DP:118:LEU:HD23	1.79	0.63
43:DT:50:LYS:N	43:DT:87:GLN:HE22	1.95	0.63
1:AA:7:G:H5'	1:AA:298:A:O4'	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1065:U:H1'	1:AA:1066:C:OP2	1.98	0.63
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.63	0.63
7:AJ:16:LEU:HD12	9:AL:42:ARG:HA	1.80	0.63
8:AK:41:ARG:HH11	8:AK:41:ARG:HG3	1.63	0.63
10:AM:96:ILE:HD13	10:AM:96:ILE:H	1.62	0.63
12:AO:126:LYS:HG3	12:AO:128:ALA:H	1.63	0.63
13:AP:60:VAL:HG12	13:AP:66:LEU:HD11	1.80	0.63
19:AV:24:ALA:O	19:AV:25:LYS:HB3	1.97	0.63
25:BA:1188:U:C2'	25:BA:1189:A:H5'	2.28	0.63
27:BD:35:LYS:HZ3	27:BD:104:TYR:HB2	1.63	0.63
28:BE:35:GLN:HB3	28:BE:48:GLN:CB	2.28	0.63
37:B0:104:ARG:HH12	37:B0:107:ASP:CG	2.06	0.63
39:BR:16:ARG:HE	39:BR:19:LEU:HD21	1.62	0.63
52:B6:15:GLU:CG	52:B6:16:CYS:N	2.61	0.63
4:CG:178:VAL:HG12	4:CG:179:GLU:N	2.13	0.63
9:CL:77:ILE:O	9:CL:81:ILE:HG12	1.97	0.63
23:CD:7:G:H3'	23:CD:8:U:C5'	2.27	0.63
25:DA:907:U:O2'	36:DP:101:ARG:NH2	2.30	0.63
25:DA:1065:U:H3	25:DA:1073:A:H61	1.45	0.63
25:DA:1342:A:C6	25:DA:1397:U:C5	2.86	0.63
25:DA:2401:U:H2'	25:DA:2402:C:H5"	1.81	0.63
28:DE:12:THR:HG22	39:DR:58:ASN:HD21	1.63	0.63
28:DE:48:GLN:HE22	28:DE:78:LEU:HD13	1.60	0.63
1:AA:310:G:P	16:AS:27:LYS:NZ	2.71	0.63
1:AA:677:U:H3	1:AA:713:G:H22	1.47	0.63
1:AA:1004:A:H5"	1:AA:1025:U:O4	1.98	0.63
2:AE:111:ARG:HG2	2:AE:111:ARG:NH1	2.12	0.63
4:AG:153:ARG:NH1	4:AG:181:MET:HG3	2.13	0.63
25:BA:957:A:N1	25:BA:2458:G:H4'	2.13	0.63
1:CA:1252:A:H61	1:CA:1285:A:H61	1.45	0.63
2:CE:237:ALA:O	2:CE:238:LEU:HB3	1.98	0.63
23:CD:15:G:N7	23:CD:16:C:H5	1.96	0.63
25:DA:673:C:H5'	25:DA:673:C:H6	1.63	0.63
25:DA:1062:G:O6	25:DA:1075:C:N4	2.31	0.63
25:DA:1225:C:O3'	41:D2:85:LYS:HA	1.97	0.63
25:DA:1856:G:C2'	25:DA:1857:G:H5'	2.27	0.63
27:DD:49:ILE:CD1	27:DD:52:ARG:HA	2.25	0.63
27:DD:137:PRO:O	27:DD:140:THR:HG23	1.98	0.63
34:DN:68:GLU:HB3	34:DN:78:ARG:HH11	1.62	0.63
35:DO:66:GLY:O	35:DO:67:MET:C	2.40	0.63
12:AO:6:THR:H	12:AO:9:GLN:NE2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AO:126:LYS:HE3	12:AO:128:ALA:HB3	1.81	0.63
25:BA:404:C:H1'	25:BA:405:U:OP2	1.98	0.63
25:BA:1761:C:H42	25:BA:1762:A:H62	1.47	0.63
25:BA:1771:C:HO2'	25:BA:1786:A:H8	1.44	0.63
25:BA:2131:G:H1'	25:BA:2158:A:H62	1.62	0.63
26:BB:108:C:H5'	26:BB:109:G:O5'	1.98	0.63
28:BE:59:VAL:HG13	28:BE:63:LEU:HB3	1.81	0.63
46:B3:42:GLY:C	46:B3:57:PHE:HD1	2.07	0.63
47:BZ:85:LEU:O	47:BZ:87:PRO:HD2	1.92	0.63
2:CE:185:ILE:HG22	2:CE:199:TYR:HB2	1.80	0.63
9:CL:88:TYR:HB3	9:CL:89:ASN:ND2	2.13	0.63
25:DA:67:U:N3	25:DA:74:A:H2	1.94	0.63
25:DA:303:U:H2'	25:DA:304:G:O4'	1.98	0.63
25:DA:1025:G:C4	25:DA:1135:C:H1'	2.34	0.63
25:DA:1856:G:H2'	25:DA:1857:G:H5'	1.81	0.63
25:DA:2745:C:H4'	31:DH:142:GLY:O	1.98	0.63
28:DE:137:HIS:HB3	28:DE:138:PRO:HD2	1.80	0.63
38:DQ:26:LEU:HB3	38:DQ:87:PHE:HA	1.81	0.63
38:DQ:87:PHE:CZ	38:DQ:102:ALA:HB2	2.32	0.63
41:D2:29:PRO:O	41:D2:61:VAL:HG12	1.99	0.63
1:AA:262:A:H2'	1:AA:263:A:C8	2.32	0.63
1:AA:428:G:C8	1:AA:430:A:C4	2.86	0.63
1:AA:1004:A:C8	1:AA:1036:G:N1	2.59	0.63
1:AA:1490:C:O2'	1:AA:1491:G:H5'	1.98	0.63
2:AE:61:LEU:HD23	2:AE:68:ILE:HD12	1.80	0.63
10:AM:32:ALA:HB3	10:AM:76:ASN:HB2	1.79	0.63
16:AS:17:TYR:HE1	16:AS:41:PRO:HG3	1.64	0.63
25:BA:602:G:HO2'	25:BA:604:G:HO2'	1.46	0.63
25:BA:1021:A:H62	25:BA:1141:U:H3	1.47	0.63
25:BA:2552:U:H2'	25:BA:2554:U:OP2	1.99	0.63
26:BB:66:A:H61	26:BB:107:U:H2'	1.63	0.63
27:BD:70:TRP:C	27:BD:70:TRP:CD1	2.76	0.63
28:BE:35:GLN:CD	28:BE:37:ARG:NH1	2.57	0.63
28:BE:81:ILE:CG2	28:BE:84:PHE:HB3	2.26	0.63
31:BH:9:ILE:HD12	31:BH:9:ILE:N	2.14	0.63
33:BM:45:ASN:O	33:BM:45:ASN:CG	2.41	0.63
44:BU:97:ARG:NE	44:BU:98:VAL:HG23	2.12	0.63
54:B8:36:LYS:HD3	54:B8:40:GLU:CD	2.23	0.63
1:CA:1306:A:N6	1:CA:1331:G:O2'	2.32	0.63
1:CA:1386:G:C2	1:CA:1387:G:C8	2.85	0.63
14:CQ:27:CYS:O	14:CQ:27:CYS:SG	2.56	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CR:2:PRO:HB2	15:CR:3:ILE:HD13	1.81	0.63
19:CV:45:VAL:HA	19:CV:62:ILE:HG22	1.80	0.63
25:DA:671:C:OP1	35:DO:42:SER:O	2.15	0.63
25:DA:2470:G:OP2	36:DP:56:ARG:NH2	2.31	0.63
27:DD:267:SER:O	27:DD:268:ARG:HB3	1.98	0.63
28:DE:38:THR:CG2	28:DE:40:GLU:HB2	2.29	0.63
28:DE:202:LYS:HD2	28:DE:202:LYS:N	2.14	0.63
36:DP:34:LEU:HD11	36:DP:129:THR:HB	1.81	0.63
45:DV:53:ILE:HG22	45:DV:71:VAL:O	1.99	0.63
47:DZ:91:LYS:HG3	47:DZ:92:LYS:N	2.13	0.63
54:D8:50:LEU:O	54:D8:51:ALA:CB	2.46	0.63
2:AE:80:ILE:HD13	2:AE:212:GLN:HB2	1.81	0.63
2:AE:174:VAL:HG13	2:AE:184:VAL:HG11	1.81	0.63
10:AM:35:SER:OG	10:AM:73:ASP:HB2	1.99	0.63
25:BA:142:G:H1'	43:BT:37:THR:CG2	2.28	0.63
25:BA:889:C:H3'	25:BA:890:A:C4'	2.29	0.63
25:BA:1049:C:H2'	25:BA:1050:A:C5'	2.28	0.63
25:BA:1777:U:O2'	25:BA:1778:U:H5'	1.98	0.63
25:BA:2065:C:H2'	25:BA:2066:C:C6	2.34	0.63
25:BA:2789:C:H1'	25:BA:2892:A:H2	1.63	0.63
31:BH:109:PHE:CE2	31:BH:152:ARG:NH1	2.67	0.63
1:CA:1084:G:H2'	1:CA:1085:U:C6	2.33	0.63
22:CB:21:A:H1'	22:CB:22:G:C5'	2.27	0.63
23:CD:15:G:H2'	23:CD:15:G:N3	2.11	0.63
25:DA:486:C:H4'	42:DS:60:ASN:ND2	2.14	0.63
25:DA:846:C:C2	25:DA:847:U:C5	2.87	0.63
26:DB:56:G:H4'	26:DB:57:A:C8	2.33	0.63
26:DB:104:A:H2'	26:DB:105:G:O4'	1.99	0.63
28:DE:51:PHE:O	28:DE:74:PRO:CB	2.46	0.63
35:DO:47:ASP:OD2	35:DO:49:ARG:NE	2.32	0.63
35:DO:64:LYS:HD2	54:D8:25:MET:CE	2.28	0.63
38:DQ:11:LYS:HD2	38:DQ:15:ARG:NH2	2.13	0.63
40:D1:98:LEU:O	40:D1:99:ALA:HB3	1.98	0.63
41:D2:49:THR:HB	41:D2:50:PRO:HD3	1.80	0.63
41:D2:71:LEU:N	41:D2:86:GLY:CA	2.62	0.63
1:AA:486:U:H2'	1:AA:487:A:C8	2.34	0.63
3:AF:70:VAL:HG12	3:AF:72:LYS:N	2.13	0.63
3:AF:181:ASN:ND2	3:AF:204:LEU:HB2	2.12	0.63
23:AD:41:C:H2'	23:AD:42:C:H6	1.63	0.63
25:BA:142:G:H1'	43:BT:37:THR:HG21	1.81	0.63
25:BA:1916:A:H5'	25:BA:1917:U:OP2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:91:LYS:O	47:BZ:93:GLU:N	2.32	0.63
1:CA:1028(A):C:H42	1:CA:1032(B):G:H1	1.47	0.63
9:CL:18:PHE:HD1	9:CL:62:TYR:CD2	2.16	0.63
11:CN:99:GLN:HG2	11:CN:105:VAL:HG21	1.81	0.63
23:CD:6:G:H1	23:CD:68:C:H42	1.44	0.63
25:DA:2162:G:H2'	25:DA:2163:C:C6	2.33	0.63
25:DA:2173:A:H2'	25:DA:2173:A:N3	2.14	0.63
25:DA:2724:C:OP1	28:DE:118:LYS:HE3	1.98	0.63
26:DB:89:G:H8	26:DB:89:G:OP2	1.81	0.63
27:DD:267:SER:C	27:DD:269:PHE:H	2.06	0.63
35:DO:85:LEU:HB3	35:DO:114:ILE:CD1	2.28	0.63
36:DP:57:HIS:ND1	36:DP:57:HIS:O	2.32	0.63
36:DP:84:GLY:O	36:DP:85:LYS:HB2	1.98	0.63
39:DR:53:ARG:O	39:DR:53:ARG:HG3	1.97	0.63
1:AA:229:U:O2'	16:AS:23:ASP:OD2	2.17	0.63
1:AA:397:A:N6	1:AA:548:G:C5	2.66	0.63
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.64	0.63
2:AE:47:THR:O	2:AE:51:LEU:HB2	1.97	0.63
25:BA:2473:U:C2'	25:BA:2474:C:H5"	2.28	0.63
26:BB:30:C:OP2	38:BQ:32:LEU:HD11	1.99	0.63
1:CA:994:A:N7	1:CA:1216:G:H4'	2.13	0.63
3:CF:18:TRP:HE1	14:CQ:55:GLY:N	1.96	0.63
3:CF:94:LEU:HD12	3:CF:95:THR:N	2.14	0.63
23:CD:22:A:H2'	23:CD:47:G:O6	1.99	0.63
25:DA:67:U:N3	25:DA:74:A:C2	2.57	0.63
25:DA:479:A:H4'	25:DA:480:A:OP1	1.98	0.63
25:DA:566:U:OP1	35:DO:29:LYS:HE3	1.98	0.63
25:DA:1328:G:H2'	25:DA:1330:C:C5	2.34	0.63
25:DA:2371:G:C4'	52:D6:45:LYS:CE	2.71	0.63
35:DO:47:ASP:OD2	35:DO:49:ARG:CD	2.45	0.63
41:D2:37:VAL:HG21	41:D2:57:VAL:HG13	1.81	0.63
45:DV:146:ILE:HD13	45:DV:175:VAL:HG23	1.79	0.63
1:AA:749:C:O2	1:AA:749:C:H2'	1.98	0.63
1:AA:1112:C:C4	3:AF:178:LEU:HD23	2.33	0.63
13:AP:58:GLU:O	13:AP:62:ASN:HB2	1.98	0.63
25:BA:587:C:N3	35:BO:33:ARG:NH1	2.46	0.63
25:BA:674:G:O2'	29:BF:74:ARG:HD3	1.99	0.63
25:BA:1056:G:O4'	25:BA:1086:A:H8	1.81	0.63
25:BA:1870:C:H2'	25:BA:1870:C:O2	1.98	0.63
25:BA:2734:A:H8	25:BA:2734:A:H5'	1.63	0.63
28:BE:78:LEU:HD12	28:BE:79:ARG:CA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:64:LYS:HD3	54:B8:25:MET:SD	2.38	0.63
52:B6:15:GLU:HG2	52:B6:16:CYS:H	1.62	0.63
1:CA:255:G:O6	1:CA:270:A:N6	2.32	0.63
1:CA:328:C:H4'	1:CA:329:A:H5'	1.80	0.63
3:CF:113:ALA:HB2	3:CF:202:ILE:HG13	1.80	0.63
8:CK:84:ARG:O	8:CK:135:CYS:HB2	1.98	0.63
13:CP:40:ASN:OD1	13:CP:41:PRO:HD2	1.99	0.63
25:DA:1600:C:O2'	53:D7:49:ARG:HD3	1.99	0.63
29:DF:132:VAL:O	29:DF:133:ASN:HB2	1.99	0.63
31:DH:124:GLU:N	31:DH:124:GLU:OE1	2.30	0.63
36:DP:75:THR:CG2	36:DP:87:LYS:HE2	2.29	0.63
38:DQ:87:PHE:CD2	38:DQ:87:PHE:C	2.77	0.63
44:DU:81:LYS:HB3	44:DU:82:PRO:CD	2.29	0.63
45:DV:61:LEU:HD11	45:DV:67:LEU:HD12	1.79	0.63
48:DW:17:SER:OG	48:DW:21:LEU:HD12	1.99	0.63
1:AA:149:A:C2	1:AA:150:C:N3	2.67	0.62
1:AA:1305:G:H5'	21:AX:4:GLY:HA3	1.80	0.62
1:AA:1367:C:H5'	10:AM:60:ARG:NH1	2.14	0.62
4:AG:5:ILE:CG2	4:AG:6:GLY:H	2.12	0.62
25:BA:443:A:C8	29:BF:45:ARG:HD2	2.33	0.62
25:BA:1126:A:H4'	25:BA:1127:A:O5'	1.98	0.62
28:BE:53:PRO:HA	28:BE:74:PRO:CA	2.29	0.62
48:BW:50:ILE:CD1	48:BW:51:ARG:N	2.61	0.62
1:CA:1028(A):C:N4	1:CA:1028(B):C:H41	1.97	0.62
3:CF:119:ARG:NH2	3:CF:140:ARG:HG2	2.09	0.62
13:CP:7:VAL:HG22	30:DG:115:ARG:HB3	1.81	0.62
23:CC:24:C:C2	23:CC:25:U:C5	2.87	0.62
23:CC:41:C:H2'	23:CC:42:C:H6	1.64	0.62
23:CD:20:G:N3	23:CD:20:G:H2'	2.14	0.62
25:DA:900:A:H3'	25:DA:901:A:H8	1.64	0.62
25:DA:1047:G:H2'	25:DA:1110:G:H1	1.64	0.62
28:DE:179:GLU:O	28:DE:180:ASN:HB2	1.97	0.62
29:DF:31:HIS:HB2	35:DO:9:ASN:OD1	1.98	0.62
30:DG:113:ARG:HD2	50:D4:33:VAL:HG12	1.80	0.62
43:DT:72:LYS:NZ	43:DT:75:ASP:OD1	2.32	0.62
45:DV:4:ARG:HD3	45:DV:58:VAL:HG11	1.81	0.62
45:DV:175:VAL:HG13	45:DV:176:PRO:CD	2.29	0.62
46:D3:42:GLY:H	46:D3:57:PHE:HD2	1.47	0.62
51:D5:6:VAL:HG13	51:D5:7:PRO:N	2.13	0.62
1:AA:517:G:N1	1:AA:533:A:OP2	2.31	0.62
1:AA:688:G:H2'	1:AA:689:C:H6	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:960:U:O2	1:AA:960:U:H2'	1.97	0.62
4:AG:110:PHE:N	4:AG:110:PHE:CD1	2.66	0.62
25:BA:1469:A:H2'	25:BA:1470:G:O5'	1.99	0.62
25:BA:1858:G:O2'	25:BA:1883:G:N2	2.31	0.62
25:BA:2335:A:C8	25:BA:2337:G:C5	2.86	0.62
26:BB:40:U:H1'	26:BB:45:A:N6	2.14	0.62
35:BO:61:ARG:O	35:BO:62:LEU:CD2	2.45	0.62
40:B1:112:ARG:HH11	40:B1:112:ARG:HG2	1.64	0.62
1:CA:1446:A:OP1	1:CA:1446:A:H4'	1.97	0.62
2:CE:137:ARG:NH1	2:CE:140:HIS:HB2	2.11	0.62
3:CF:23:TYR:CD2	3:CF:24:ALA:N	2.67	0.62
5:CH:110:LEU:O	5:CH:115:VAL:HG22	1.99	0.62
25:DA:329:G:C6	44:DU:19:LYS:HG2	2.34	0.62
25:DA:1203:G:H3'	25:DA:1204:A:H5"	1.80	0.62
25:DA:2747:G:O6	25:DA:2755:C:H5"	2.00	0.62
27:DD:35:LYS:CE	27:DD:65:ILE:HA	2.29	0.62
31:DH:10:PRO:HG2	31:DH:50:VAL:HG13	1.81	0.62
32:DK:77:LEU:HB2	32:DK:141:LYS:HB3	1.81	0.62
33:DM:45:ASN:O	33:DM:45:ASN:ND2	2.32	0.62
36:DP:102:VAL:HG12	36:DP:102:VAL:O	1.98	0.62
45:DV:149:SER:HB3	45:DV:172:ALA:O	1.99	0.62
54:D8:25:MET:C	54:D8:48:PHE:HE1	2.06	0.62
1:AA:606:G:H5"	1:AA:607:A:H5'	1.81	0.62
1:AA:1186:G:H21	14:AQ:61:TRP:C	2.07	0.62
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.14	0.62
1:AA:1455:G:H5'	20:AW:32:ALA:HB2	1.81	0.62
25:BA:2168:G:H2'	25:BA:2168:G:N3	2.15	0.62
25:BA:2372:G:H1'	52:B6:46:HIS:CE1	2.35	0.62
25:BA:2895:U:H2'	25:BA:2896:C:O4'	1.98	0.62
26:BB:71:C:C2	26:BB:72:G:C8	2.88	0.62
39:BR:123:GLN:O	39:BR:124:ASP:HB2	1.99	0.62
47:BZ:51:VAL:HG21	47:BZ:74:VAL:HG21	1.81	0.62
54:B8:44:LYS:HD2	54:B8:44:LYS:N	2.14	0.62
7:CJ:22:LEU:HD23	7:CJ:62:PHE:HE2	1.64	0.62
25:DA:1899:G:H21	25:DA:1902:C:H5	1.45	0.62
32:DK:128:LEU:O	32:DK:138:ILE:HG22	1.99	0.62
44:DU:17:SER:HB2	44:DU:71:LYS:CE	2.29	0.62
1:AA:1126:U:C5	1:AA:1127:G:C4	2.87	0.62
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.63	0.62
13:AP:108:ARG:NH1	13:AP:113:PRO:O	2.32	0.62
19:AV:40:ILE:HG12	19:AV:41:VAL:HG22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AC:20:G:C4	23:AC:58:A:H2	2.18	0.62
27:BD:121:PRO:HB3	27:BD:135:PHE:CE1	2.34	0.62
30:BG:7:LEU:HD23	30:BG:100:TRP:CZ3	2.34	0.62
35:BO:59:LEU:O	35:BO:59:LEU:HD23	1.99	0.62
35:BO:65:ARG:NH1	35:BO:65:ARG:CG	2.58	0.62
39:BR:128:GLU:HG2	39:BR:128:GLU:O	1.99	0.62
1:CA:612:C:O2	1:CA:629:G:N2	2.32	0.62
1:CA:689:C:H2'	1:CA:690:G:H5'	1.81	0.62
1:CA:1523:G:OP1	11:CN:123:LYS:HD2	1.99	0.62
4:CG:61:LYS:HA	4:CG:203:VAL:HG22	1.80	0.62
5:CH:36:ASP:CG	5:CH:38:GLN:HB2	2.24	0.62
14:CQ:12:ARG:C	14:CQ:14:PRO:HD3	2.24	0.62
20:CW:64:ASP:OD1	20:CW:81:LYS:HD2	1.99	0.62
25:DA:887:A:H3'	25:DA:888:C:C5'	2.30	0.62
25:DA:2127:G:N2	25:DA:2173:A:H8	1.95	0.62
27:DD:35:LYS:CG	27:DD:64:ILE:N	2.62	0.62
51:D5:3:LYS:HA	51:D5:3:LYS:HE3	1.80	0.62
51:D5:20:ARG:HG2	51:D5:23:HIS:CD2	2.33	0.62
54:D8:25:MET:O	54:D8:48:PHE:HE1	1.81	0.62
1:AA:375:U:OP1	16:AS:69:THR:HG21	1.97	0.62
1:AA:953:G:H2'	1:AA:954:G:O4'	1.99	0.62
2:AE:124:SER:HB2	2:AE:125:PRO:HD2	1.81	0.62
14:AQ:22:THR:O	14:AQ:23:ARG:HD2	1.98	0.62
19:AV:66:MET:HB3	19:AV:74:PHE:CZ	2.34	0.62
22:AB:68:A:H2'	22:AB:69:A:H5'	1.81	0.62
23:AD:17:C:N4	23:AD:20:G:OP1	2.33	0.62
25:BA:259:G:N2	25:BA:621:A:H8	1.97	0.62
25:BA:270(O):U:H5"	25:BA:270(P):C:OP2	1.99	0.62
25:BA:271(B):G:H4'	25:BA:271(C):U:O5'	1.98	0.62
25:BA:2303:G:C2'	25:BA:2304:G:H5'	2.30	0.62
25:BA:2712:U:OP1	25:BA:2714:G:H4'	2.00	0.62
28:BE:105:THR:OG1	28:BE:199:ARG:NH2	2.31	0.62
40:B1:60:LEU:HD22	40:B1:60:LEU:O	1.98	0.62
42:BS:29:LEU:HD21	42:BS:33:ARG:NE	2.15	0.62
45:BV:81:ARG:O	45:BV:81:ARG:HG3	1.99	0.62
15:CR:39:LEU:CD1	15:CR:56:LEU:HB2	2.29	0.62
25:DA:7:G:H1	25:DA:2896:C:H42	1.47	0.62
25:DA:296:C:O2'	25:DA:297:C:H5'	1.98	0.62
25:DA:769:G:H5'	25:DA:1379:A:N6	2.15	0.62
25:DA:986:C:H2'	25:DA:987:G:H5'	1.81	0.62
25:DA:1582:C:HO2'	25:DA:1586:A:H8	1.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1784:A:H4'	25:DA:1785:A:C5'	2.30	0.62
25:DA:1827:C:C2'	25:DA:1828:G:H5'	2.30	0.62
29:DF:164:ARG:NH1	29:DF:177:ALA:HB2	2.14	0.62
36:DP:30:GLY:HA3	36:DP:107:ALA:HB2	1.81	0.62
39:DR:93:ARG:HG2	39:DR:117:ASP:HB2	1.80	0.62
40:D1:61:TRP:HB3	40:D1:93:LYS:HB3	1.82	0.62
47:DZ:85:LEU:HB2	47:DZ:87:PRO:HD2	1.80	0.62
48:DW:33:MET:O	48:DW:37:PHE:HD1	1.83	0.62
52:D6:25:LYS:HE3	54:D8:34:TRP:HH2	1.64	0.62
1:AA:973:G:H3'	1:AA:974:A:H5"	1.81	0.62
3:AF:188:LEU:HD13	3:AF:195:VAL:HG13	1.82	0.62
22:AB:50:A:C2	22:AB:52:U:H5"	2.34	0.62
25:BA:1067:A:N3	25:BA:1067:A:H2'	2.14	0.62
25:BA:1899:G:N2	25:BA:1902:C:N4	2.27	0.62
25:BA:2470:G:O6	25:BA:2476:A:O2'	2.08	0.62
27:BD:35:LYS:CE	27:BD:104:TYR:HB2	2.28	0.62
28:BE:38:THR:HG22	28:BE:45:THR:CG2	2.28	0.62
35:BO:15:ARG:CG	35:BO:15:ARG:NH1	2.39	0.62
39:BR:53:ARG:CZ	39:BR:53:ARG:HB3	2.28	0.62
41:B2:39:LEU:CD1	41:B2:51:VAL:HG22	2.29	0.62
44:BU:81:LYS:HZ3	44:BU:96:ILE:CD1	2.13	0.62
1:CA:812:C:C1'	1:CA:813:U:OP2	2.46	0.62
1:CA:1028:C:N4	1:CA:1033:G:H1	1.98	0.62
2:CE:83:MET:HE2	2:CE:234:PRO:HG2	1.80	0.62
25:DA:1140:C:C1'	25:DA:1143:A:C8	2.82	0.62
25:DA:2629:A:O2'	25:DA:2630:G:H5'	2.00	0.62
26:DB:59:A:H2'	26:DB:60:C:O4'	1.98	0.62
30:DG:67:LYS:HD2	50:D4:6:HIS:NE2	2.14	0.62
35:DO:16:ARG:HG3	35:DO:16:ARG:NH1	2.15	0.62
44:DU:96:ILE:HD12	44:DU:98:VAL:CG1	2.29	0.62
1:AA:377:G:OP1	16:AS:3:LYS:HD2	1.98	0.62
2:AE:166:ASP:HB3	2:AE:169:LYS:HB2	1.80	0.62
9:AL:114:TYR:HE1	10:AM:60:ARG:O	1.82	0.62
19:AV:9:VAL:HG21	50:B4:66:SER:OG	1.99	0.62
19:AV:40:ILE:CG1	19:AV:41:VAL:HG13	2.29	0.62
23:AD:29:C:H2'	23:AD:30:G:H8	1.64	0.62
25:BA:592:G:H21	54:B8:4:MET:CE	2.13	0.62
25:BA:998:C:H2'	25:BA:999:U:O5'	2.00	0.62
25:BA:2343:C:O2'	25:BA:2373:G:O2'	2.16	0.62
27:BD:8:PRO:HB3	27:BD:14:ARG:HB2	1.81	0.62
35:BO:46:LYS:O	35:BO:47:ASP:HB3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:B0:104:ARG:HH11	37:B0:104:ARG:HG2	1.65	0.62
50:B4:37:SER:CB	50:B4:42:PHE:HB3	2.29	0.62
52:B6:26:ASN:ND2	52:B6:35:GLU:OE1	2.32	0.62
1:CA:468:A:H2'	1:CA:474:G:H5'	1.82	0.62
1:CA:540:G:H2'	1:CA:541:G:O4'	2.00	0.62
8:CK:16:ALA:HB1	8:CK:21:LYS:HB3	1.81	0.62
25:DA:89:G:H3'	25:DA:90:U:H5"	1.80	0.62
25:DA:1862:G:O2'	25:DA:1863:G:H5'	2.00	0.62
45:DV:49:ARG:HB2	45:DV:50:GLN:HE21	1.64	0.62
45:DV:108:PRO:CA	45:DV:143:GLY:CA	2.78	0.62
1:AA:942:G:H21	9:AL:124:GLN:NE2	1.97	0.62
1:AA:1228:C:OP1	13:AP:115:LYS:HE3	1.99	0.62
1:AA:1236:A:O2'	1:AA:1304:G:H4'	1.99	0.62
1:AA:1240:U:O2'	7:AJ:38:LEU:HG	1.99	0.62
4:AG:95:GLY:O	4:AG:99:SER:OG	2.18	0.62
10:AM:38:ILE:O	10:AM:38:ILE:HG13	1.98	0.62
25:BA:155:C:H42	25:BA:171:G:H1	1.46	0.62
25:BA:1061:U:H4'	25:BA:1070:A:C1'	2.30	0.62
25:BA:1174:A:H3'	25:BA:1175:U:H5"	1.80	0.62
25:BA:2349:G:OP2	54:B8:42:ARG:HD3	2.00	0.62
25:BA:2733:A:C2'	25:BA:2734:A:H5"	2.29	0.62
29:BF:46:ARG:HG2	29:BF:46:ARG:NH1	2.06	0.62
30:BG:78:SER:O	30:BG:81:LYS:N	2.33	0.62
36:BP:63:LYS:HD3	36:BP:65:PHE:CE2	2.35	0.62
37:B0:84:ALA:HB3	37:B0:85:PRO:HD3	1.82	0.62
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.00	0.62
1:CA:1217:C:H2'	1:CA:1218:C:O4'	1.99	0.62
1:CA:1316:G:N2	1:CA:1319:A:OP2	2.32	0.62
5:CH:11:ILE:HG21	5:CH:105:VAL:HG22	1.81	0.62
15:CR:54:ARG:NH1	15:CR:58:MET:SD	2.73	0.62
22:CB:39:U:H2'	22:CB:40:G:C8	2.29	0.62
23:CC:30:G:H2'	23:CC:31:G:C5'	2.19	0.62
25:DA:883:G:H2'	25:DA:884:C:C6	2.35	0.62
29:DF:32:LEU:HD11	29:DF:105:VAL:HG13	1.80	0.62
29:DF:164:ARG:HG2	29:DF:175:THR:OG1	2.00	0.62
30:DG:16:ARG:NH2	30:DG:28:VAL:O	2.33	0.62
40:D1:40:PHE:CZ	41:D2:81:TYR:CE2	2.88	0.62
44:DU:63:LYS:HA	44:DU:63:LYS:NZ	2.14	0.62
45:DV:19:ARG:NH1	45:DV:84:GLU:HB2	2.15	0.62
50:D4:56:VAL:HG22	50:D4:57:GLU:H	1.65	0.62
1:AA:255:G:H1'	17:AT:16:GLN:NE2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:82:ARG:HB3	2:AE:83:MET:HE2	1.81	0.62
2:AE:180:LEU:O	2:AE:181:PHE:HB2	2.00	0.62
16:AS:4:ILE:HB	16:AS:66:PRO:HB3	1.81	0.62
25:BA:573:G:O2'	25:BA:574:C:H3'	2.00	0.62
25:BA:2154:G:H2'	25:BA:2155:G:C8	2.35	0.62
25:BA:2335:A:C8	25:BA:2337:G:N7	2.68	0.62
39:BR:136:GLN:HG3	39:BR:137:LYS:N	2.14	0.62
42:BS:88:ARG:NH1	42:BS:94:ASP:OD1	2.30	0.62
1:CA:32:A:C2	1:CA:33:A:C4	2.88	0.62
1:CA:1032:A:H3'	1:CA:1032(A):G:C5'	2.30	0.62
2:CE:28:PHE:CD1	2:CE:190:THR:HG22	2.34	0.62
2:CE:28:PHE:CE1	2:CE:31:TYR:HB2	2.35	0.62
4:CG:107:ARG:HH11	4:CG:107:ARG:HG2	1.65	0.62
4:CG:146:ILE:HD12	4:CG:146:ILE:N	2.15	0.62
25:DA:813:U:OP2	35:DO:23:PRO:O	2.18	0.62
25:DA:911:A:C5	36:DP:9:TYR:CD2	2.88	0.62
25:DA:1188:U:H2'	25:DA:1189:A:H5'	1.80	0.62
32:DK:82:ARG:HB3	32:DK:89:TYR:CD2	2.35	0.62
38:DQ:78:LEU:HD11	38:DQ:107:GLU:CB	2.23	0.62
45:DV:158:PRO:O	45:DV:161:VAL:HG13	2.00	0.62
1:AA:353:A:H2'	1:AA:354:G:OP2	2.00	0.62
1:AA:1004:A:C5'	1:AA:1025:U:N3	2.63	0.62
1:AA:1139:G:C2	1:AA:1143:G:O6	2.53	0.62
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.34	0.62
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.35	0.62
2:AE:16:HIS:HE2	2:AE:213:LEU:HD13	1.65	0.62
4:AG:114:ARG:HH11	4:AG:114:ARG:HG2	1.63	0.62
14:AQ:29:ARG:HD3	14:AQ:40:CYS:HB2	1.82	0.62
25:BA:232:G:H8	25:BA:232:G:OP2	1.81	0.62
25:BA:572:A:H5"	25:BA:573:G:OP2	2.00	0.62
25:BA:1056:G:N2	25:BA:1103:A:C6	2.68	0.62
25:BA:2168:G:N2	25:BA:2170:A:OP2	2.32	0.62
25:BA:2376:A:N1	38:BQ:87:PHE:HD2	1.97	0.62
25:BA:2662:A:H2'	25:BA:2663:G:O4'	2.00	0.62
27:BD:35:LYS:HG2	27:BD:64:ILE:HG23	1.81	0.62
41:B2:48:GLY:O	41:B2:49:THR:O	2.18	0.62
2:CE:17:PHE:CE2	2:CE:44:LEU:HA	2.35	0.62
8:CK:20:TYR:HD1	8:CK:65:TYR:CD2	2.18	0.62
12:CO:11:VAL:HG11	17:CT:36:ILE:HG21	1.80	0.62
17:CT:53:LEU:HD23	17:CT:82:MET:HE1	1.82	0.62
25:DA:654(D):G:N2	25:DA:654(R):C:N3	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1420:U:O2'	25:DA:1421:G:P	2.58	0.62
25:DA:2439:A:O2'	25:DA:2440:C:OP2	2.18	0.62
26:DB:89:G:OP2	26:DB:89:G:C8	2.53	0.62
30:DG:47:LYS:HG2	30:DG:48:GLU:H	1.63	0.62
31:DH:12:PRO:O	31:DH:15:VAL:HG22	2.00	0.62
33:DM:67:LEU:HD23	33:DM:88:GLU:HG2	1.81	0.62
33:DM:95:PRO:O	33:DM:98:VAL:HG22	1.99	0.62
1:AA:69:G:N2	1:AA:73:G:C8	2.68	0.61
1:AA:466:C:H5"	1:AA:467:G:OP2	2.00	0.61
4:AG:28:SER:HB3	4:AG:29:PRO:HD2	1.82	0.61
7:AJ:113:GLU:HB2	7:AJ:119:ARG:HG2	1.82	0.61
16:AS:72:ARG:HD3	16:AS:73:LEU:HD23	1.82	0.61
25:BA:1077:A:H2'	25:BA:1077:A:N3	2.15	0.61
29:BF:9:ILE:HD11	29:BF:125:LEU:CG	2.28	0.61
42:BS:18:ARG:HG2	42:BS:76:VAL:HG13	1.83	0.61
1:CA:1368:G:H5'	9:CL:112:LYS:HB3	1.81	0.61
2:CE:180:LEU:O	2:CE:181:PHE:HB2	2.00	0.61
23:CC:9:G:O2'	23:CC:10:G:N7	2.29	0.61
23:CC:56:U:O2	23:CC:58:A:C8	2.53	0.61
25:DA:142:G:H2'	25:DA:143:C:C6	2.35	0.61
25:DA:1005:C:N1	25:DA:1143:A:C2	2.68	0.61
25:DA:2128:C:O2'	25:DA:2173:A:C2	2.51	0.61
36:DP:69:PHE:CD1	36:DP:70:PRO:HD2	2.35	0.61
38:DQ:24:LEU:O	38:DQ:85:VAL:HG12	2.00	0.61
40:D1:66:ASN:HB2	40:D1:76:TYR:HB2	1.81	0.61
1:AA:49:U:O2'	1:AA:50:A:H3'	2.00	0.61
1:AA:438:G:OP1	4:AG:125:HIS:HE1	1.83	0.61
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.65	0.61
12:AO:11:VAL:HG13	17:AT:29:HIS:CD2	2.34	0.61
12:AO:37:CYS:O	12:AO:79:GLU:O	2.18	0.61
17:AT:29:HIS:CE1	17:AT:32:TYR:HD1	2.18	0.61
25:BA:252:G:OP2	35:BO:50:ARG:NH1	2.25	0.61
25:BA:1063:G:H2'	25:BA:1064:C:H6	1.65	0.61
25:BA:2109:U:H1'	25:BA:2181:G:N2	2.15	0.61
25:BA:2415:G:H4'	35:BO:66:GLY:HA3	1.81	0.61
45:BV:60:GLU:O	45:BV:61:LEU:HD23	2.00	0.61
50:B4:12:ALA:HB1	50:B4:29:PRO:HA	1.82	0.61
52:B6:10:LEU:HD23	54:B8:34:TRP:CD2	2.34	0.61
1:CA:564:C:O2'	8:CK:91:ARG:NH2	2.33	0.61
3:CF:164:ARG:HG2	3:CF:165:THR:H	1.64	0.61
13:CP:91:ARG:HH22	13:CP:96:LEU:HD13	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CX:9:ARG:HG3	21:CX:10:ARG:H	1.65	0.61
22:CB:3:C:H2'	22:CB:4:G:H8	1.64	0.61
25:DA:774:A:C2	25:DA:787:U:O2'	2.51	0.61
25:DA:1165:U:H2'	25:DA:1166:C:C6	2.35	0.61
25:DA:1169:G:H2'	25:DA:1170:G:O4'	2.01	0.61
25:DA:1404:C:H2'	25:DA:1404:C:O2	2.00	0.61
25:DA:1869:G:H8	25:DA:1869:G:H5'	1.65	0.61
27:DD:65:ILE:HD11	27:DD:67:PHE:CZ	2.35	0.61
29:DF:83:PHE:C	29:DF:84:VAL:HG13	2.21	0.61
35:DO:59:LEU:HD23	35:DO:59:LEU:O	1.99	0.61
35:DO:146:VAL:HG13	35:DO:147:LEU:HD13	1.81	0.61
39:DR:1:MET:HE2	39:DR:1:MET:HA	1.80	0.61
39:DR:16:ARG:NH2	39:DR:19:LEU:HD21	2.15	0.61
42:DS:59:VAL:HA	42:DS:64:MET:H	1.65	0.61
43:DT:39:ILE:O	43:DT:43:VAL:HG13	1.99	0.61
46:D3:24:LYS:O	46:D3:25:ARG:HD3	1.98	0.61
52:D6:31:PRO:O	52:D6:32:ASN:HB2	2.00	0.61
1:AA:792:A:O2'	1:AA:794:A:N7	2.32	0.61
2:AE:80:ILE:HD11	2:AE:208:ILE:HG23	1.82	0.61
6:AI:101:ALA:HB2	18:AU:28:GLU:CG	2.29	0.61
9:AL:127:LYS:HG2	9:AL:127:LYS:O	1.99	0.61
14:AQ:23:ARG:HH11	14:AQ:23:ARG:CG	2.12	0.61
22:AB:50:A:H3'	22:AB:51:A:C5'	2.28	0.61
23:AC:62:C:C5	23:AC:63:C:H5	2.18	0.61
25:BA:1209:G:H21	25:BA:1210:A:H62	1.48	0.61
25:BA:1803:A:H4'	27:BD:259:THR:HG23	1.82	0.61
25:BA:2157:G:HO2'	25:BA:2158:A:P	2.22	0.61
28:BE:60:ASN:HB2	28:BE:62:PRO:HD2	1.81	0.61
32:BK:135:GLU:OE2	32:BK:135:GLU:N	2.32	0.61
33:BM:1:MET:HE1	40:B1:95:LEU:CD2	2.30	0.61
34:BN:60:ALA:HB1	34:BN:84:ALA:HB1	1.81	0.61
1:CA:575:G:O2'	1:CA:821:G:H5'	2.00	0.61
1:CA:991:U:H6	1:CA:991:U:OP2	1.82	0.61
1:CA:1095:U:P	1:CA:1108:G:H1	2.23	0.61
1:CA:1148:U:OP1	9:CL:7:THR:HG21	2.01	0.61
1:CA:1278:U:H2'	1:CA:1278:U:O2	2.00	0.61
1:CA:1442:G:C2'	1:CA:1443:G:O5'	2.47	0.61
4:CG:9:CYS:HA	4:CG:12:CYS:HB2	1.83	0.61
7:CJ:62:PHE:HD1	7:CJ:124:LEU:HD11	1.65	0.61
25:DA:127:A:H5"	25:DA:128:C:C6	2.36	0.61
25:DA:243:U:OP1	54:D8:6:THR:OG1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1225:C:H4'	41:D2:85:LYS:HB2	1.83	0.61
25:DA:1665:A:H4'	34:DN:67:LYS:HB2	1.81	0.61
25:DA:2543:G:H8	25:DA:2543:G:H5'	1.65	0.61
25:DA:2845:G:O2'	25:DA:2846:G:H5'	2.00	0.61
26:DB:13:A:N1	26:DB:69:G:O2'	2.28	0.61
27:DD:70:TRP:CZ3	27:DD:150:LYS:HA	2.36	0.61
38:DQ:110:LEU:HD23	38:DQ:112:PHE:CZ	2.36	0.61
39:DR:56:GLY:C	39:DR:58:ASN:N	2.58	0.61
1:AA:8:A:H5'	5:AH:101:ILE:HG22	1.83	0.61
9:AL:43:ALA:HA	9:AL:74:ILE:HD13	1.82	0.61
11:AN:79:SER:C	11:AN:80:VAL:HG13	2.24	0.61
25:BA:1657:C:H2'	25:BA:1658:C:C6	2.35	0.61
25:BA:2111:C:H41	25:BA:2147:G:N2	1.99	0.61
25:BA:2131:G:H5'	25:BA:2132:U:OP1	2.00	0.61
25:BA:2312:U:O2	30:BG:42:GLY:CA	2.48	0.61
25:BA:2383:G:O2'	25:BA:2384:G:H5'	2.00	0.61
27:BD:273:ARG:O	27:BD:273:ARG:HG3	2.00	0.61
35:BO:9:ASN:CB	35:BO:10:PRO:HD2	2.22	0.61
43:BT:49:VAL:CG1	43:BT:50:LYS:N	2.63	0.61
1:CA:652:U:O4	1:CA:752:G:H1'	2.00	0.61
4:CG:161:ASN:O	4:CG:165:MET:HG2	2.00	0.61
13:CP:76:ALA:HA	13:CP:79:LYS:HB2	1.82	0.61
23:CC:28:U:O2	23:CC:45:A:H2	1.79	0.61
23:CC:49:C:O2	23:CC:60:A:H1'	2.00	0.61
23:CD:13:C:HO2'	23:CD:14:A:P	2.23	0.61
25:DA:483:A:C5'	44:DU:49:VAL:HA	2.30	0.61
26:DB:30:C:H2'	26:DB:31:C:H5'	1.81	0.61
26:DB:44:G:O2'	26:DB:47:C:N4	2.33	0.61
27:DD:35:LYS:HZ1	27:DD:104:TYR:N	1.95	0.61
28:DE:46:ALA:HB1	28:DE:82:ARG:CA	1.96	0.61
31:DH:109:PHE:CZ	31:DH:152:ARG:NE	2.68	0.61
36:DP:104:PHE:O	36:DP:105:GLU:HB3	1.99	0.61
38:DQ:62:LYS:HB3	38:DQ:97:ARG:HD3	1.82	0.61
39:DR:51:ARG:HG2	39:DR:98:LYS:HE3	1.80	0.61
1:AA:1004:A:C5'	1:AA:1025:U:O4	2.48	0.61
3:AF:20:SER:HB2	3:AF:40:ARG:HH22	1.65	0.61
8:AK:41:ARG:NH2	8:AK:123:GLU:OE1	2.34	0.61
25:BA:1316:U:H2'	25:BA:1317:A:H8	1.63	0.61
26:BB:30:C:C2'	26:BB:31:C:O5'	2.47	0.61
32:BK:98:ALA:HB2	32:BK:111:PRO:HB3	1.81	0.61
1:CA:1127:G:H1'	1:CA:1147:C:H42	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1127:G:H1'	1:CA:1147:C:N4	2.15	0.61
1:CA:1226:C:H2'	13:CP:103:THR:HB	1.80	0.61
3:CF:40:ARG:HG2	3:CF:55:VAL:HG11	1.82	0.61
3:CF:73:PRO:HG3	3:CF:105:GLU:HB2	1.83	0.61
4:CG:191:ARG:NH1	4:CG:200:GLU:OE1	2.34	0.61
22:CB:85:C:C5	25:DA:2555:U:O2	2.54	0.61
25:DA:77:C:OP1	48:DW:59:ARG:HD3	2.00	0.61
25:DA:545:G:N2	25:DA:548:A:H62	1.93	0.61
25:DA:581:C:H2'	25:DA:582:G:H8	1.65	0.61
29:DF:18:ARG:HG2	29:DF:19:GLU:N	2.15	0.61
1:AA:136:C:H42	1:AA:227:G:H1	1.48	0.61
1:AA:192:U:H4'	20:AW:103:GLY:HA2	1.82	0.61
22:AB:49:C:N3	22:AB:54:G:N2	2.48	0.61
23:AC:18:C:O2	23:AC:18:C:C2'	2.48	0.61
23:AD:41:C:O2'	23:AD:42:C:H5'	2.00	0.61
28:BE:47:VAL:HG22	28:BE:84:PHE:O	2.00	0.61
28:BE:53:PRO:O	28:BE:54:GLN:C	2.42	0.61
50:B4:13:ARG:HB2	50:B4:30:GLU:HA	1.81	0.61
52:B6:25:LYS:HZ3	52:B6:27:LYS:HE2	1.66	0.61
54:B8:34:TRP:O	54:B8:35:GLN:CB	2.48	0.61
1:CA:316:G:OP2	1:CA:351:G:O2'	2.18	0.61
1:CA:1001:G:H1	1:CA:1039:C:H42	1.49	0.61
1:CA:1026:G:O6	1:CA:1036:G:C2	2.53	0.61
1:CA:1123:A:H4'	10:CM:36:GLY:HA3	1.83	0.61
1:CA:1330:U:H4'	13:CP:23:TYR:CD2	2.35	0.61
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.35	0.61
2:CE:197:VAL:HG12	2:CE:200:ILE:HG12	1.81	0.61
14:CQ:29:ARG:HD2	14:CQ:31:ARG:O	1.99	0.61
19:CV:41:VAL:HG12	19:CV:42:PRO:HD2	1.83	0.61
25:DA:1049:C:H42	31:DH:2:SER:HB3	1.66	0.61
25:DA:1171:G:H1	25:DA:1178:C:H42	1.46	0.61
25:DA:2168:G:H2'	25:DA:2168:G:N3	2.16	0.61
25:DA:2262:U:OP2	46:D3:19:LYS:NZ	2.34	0.61
25:DA:2393:A:C5'	35:DO:62:LEU:HB3	2.11	0.61
30:DG:96:ARG:HH11	30:DG:96:ARG:HG2	1.66	0.61
31:DH:116:GLU:HG2	31:DH:117:PRO:HD2	1.83	0.61
31:DH:153:LYS:O	31:DH:161:GLY:CA	2.48	0.61
1:AA:186(E):C:H42	1:AA:191(B):G:H1	1.48	0.61
1:AA:390:C:O3'	16:AS:28:ARG:NH2	2.31	0.61
9:AL:79:LEU:O	9:AL:83:ARG:HG3	2.01	0.61
19:AV:10:PHE:H	19:AV:10:PHE:HD1	1.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:594:U:OP1	54:B8:61:LEU:HD22	2.00	0.61
25:BA:1026:U:C4'	25:BA:1027:A:OP1	2.48	0.61
25:BA:1099:G:H2'	25:BA:1100:C:O4'	2.01	0.61
30:BG:67:LYS:HG3	50:B4:6:HIS:CE1	2.36	0.61
30:BG:73:ALA:HB1	30:BG:82:LEU:HD11	1.82	0.61
49:BX:8:LEU:HD13	49:BX:31:LEU:HD23	1.82	0.61
1:CA:1277:C:O2'	1:CA:1279:A:H8	1.84	0.61
2:CE:28:PHE:HD1	2:CE:32:ILE:HG22	1.63	0.61
6:CI:97:PHE:CD2	18:CU:65:ILE:HD11	2.36	0.61
12:CO:58:VAL:O	12:CO:65:GLU:HA	2.00	0.61
14:CQ:37:PHE:HZ	14:CQ:56:VAL:HG21	1.64	0.61
17:CT:44:ALA:HB1	17:CT:73:VAL:HG12	1.83	0.61
22:CB:86:C:H2'	22:CB:87:A:C4	2.35	0.61
26:DB:40:U:H2'	26:DB:45:A:H61	1.66	0.61
27:DD:64:ILE:O	27:DD:64:ILE:HG12	2.01	0.61
28:DE:4:ILE:HD12	28:DE:28:ALA:HB1	1.82	0.61
35:DO:61:ARG:O	35:DO:62:LEU:CD2	2.45	0.61
48:DW:67:LYS:O	48:DW:72:ALA:HB2	2.00	0.61
1:AA:411:A:C8	1:AA:413:G:H1'	2.36	0.61
1:AA:606:G:H1	1:AA:631:G:H5"	1.65	0.61
2:AE:21:ARG:C	2:AE:23:ARG:H	2.09	0.61
5:AH:102:ALA:HB1	5:AH:106:PRO:HG2	1.83	0.61
23:AC:20:G:C5	23:AC:58:A:C2	2.89	0.61
23:AD:20:G:H5"	23:AD:60:A:H61	1.65	0.61
23:AD:25:U:H2'	23:AD:26:C:C6	2.35	0.61
25:BA:479:A:N3	25:BA:481:G:H5'	2.16	0.61
25:BA:518:G:H4'	42:BS:18:ARG:NH1	2.15	0.61
25:BA:613:U:O2	25:BA:613:U:O5'	2.18	0.61
25:BA:856:C:H2'	25:BA:857:C:H6	1.66	0.61
25:BA:1060:U:H5'	25:BA:1061:U:C5	2.36	0.61
25:BA:1520:U:H2'	25:BA:1521:G:O4'	2.01	0.61
25:BA:1728:G:N1	25:BA:1730:U:OP2	2.33	0.61
25:BA:2377:A:H2'	25:BA:2378:A:C8	2.36	0.61
25:BA:2689:U:OP2	25:BA:2719:G:N2	2.32	0.61
36:BP:75:THR:HA	36:BP:88:GLY:O	2.01	0.61
41:B2:25:LEU:H	41:B2:92:THR:CG2	2.13	0.61
1:CA:619:U:O2	4:CG:135:LEU:HD22	2.01	0.61
5:CH:144:THR:O	5:CH:148:VAL:HG23	1.99	0.61
19:CV:27:GLU:HG2	19:CV:47:HIS:CD2	2.35	0.61
25:DA:1323:U:H2'	25:DA:1324:G:H5'	1.81	0.61
25:DA:2522:U:C2'	25:DA:2523:G:H5"	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:50:GLY:O	28:DE:51:PHE:HB3	1.99	0.61
31:DH:169:VAL:HG13	31:DH:170:ARG:N	2.16	0.61
32:DK:95:LYS:NZ	32:DK:99:GLU:OE2	2.33	0.61
45:DV:37:VAL:HG23	45:DV:38:TYR:N	2.14	0.61
48:DW:25:VAL:HG12	48:DW:60:LEU:HD23	1.80	0.61
1:AA:316:G:OP2	1:AA:351:G:O2'	2.19	0.61
1:AA:736:C:H2'	1:AA:737:A:C8	2.35	0.61
1:AA:1004:A:C5'	1:AA:1025:U:C4	2.84	0.61
3:AF:166:GLU:HG3	3:AF:167:TRP:N	2.15	0.61
4:AG:196:LEU:HB3	4:AG:197:PRO:HD2	1.83	0.61
8:AK:86:ILE:HG22	8:AK:87:SER:N	2.14	0.61
9:AL:118:LYS:O	9:AL:119:ALA:HB3	2.00	0.61
25:BA:330:A:H2	25:BA:1210:A:H2'	1.65	0.61
25:BA:882:G:C2'	25:BA:883:G:C8	2.80	0.61
25:BA:1586:A:H3'	25:BA:1587:A:H8	1.65	0.61
25:BA:2032:G:N2	28:BE:146:THR:HG23	2.12	0.61
25:BA:2164:C:H2'	25:BA:2165:G:C8	2.35	0.61
25:BA:2389:G:H5"	25:BA:2390:U:H5'	1.82	0.61
25:BA:2698:U:H2'	25:BA:2699:C:C6	2.36	0.61
35:BO:57:THR:O	35:BO:59:LEU:N	2.34	0.61
40:B1:79:PHE:HE2	40:B1:83:LEU:CD2	2.14	0.61
1:CA:84:U:H2'	1:CA:84:U:O2	2.00	0.61
17:CT:9:VAL:HG23	17:CT:56:VAL:HG22	1.83	0.61
25:DA:322:A:H5'	25:DA:340:A:H1'	1.82	0.61
25:DA:1062:G:OP1	25:DA:1062:G:H8	1.83	0.61
25:DA:2261:C:O2'	25:DA:2262:U:H5'	2.01	0.61
25:DA:2310:A:C5'	25:DA:2311:A:OP2	2.49	0.61
44:DU:47:LYS:N	44:DU:60:PHE:HB3	2.15	0.61
45:DV:11:GLU:HG2	45:DV:12:GLY:N	2.14	0.61
48:DW:16:LEU:H	48:DW:16:LEU:HD12	1.66	0.61
1:AA:87:A:H2'	1:AA:88:C:C6	2.36	0.61
1:AA:941:G:C2	1:AA:942:G:H1'	2.36	0.61
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.01	0.61
2:AE:60:ASP:O	2:AE:64:ARG:HG2	2.01	0.61
2:AE:63:MET:HB3	2:AE:225:ALA:HB1	1.82	0.61
5:AH:9:LYS:O	5:AH:33:VAL:HG23	2.01	0.61
12:AO:90:VAL:O	12:AO:91:LYS:HB3	2.01	0.61
15:AR:26:GLU:OE2	15:AR:77:ARG:NH1	2.33	0.61
16:AS:20:VAL:CG2	16:AS:32:TYR:CD2	2.84	0.61
25:BA:270(G):C:H2'	25:BA:270(H):C:O4'	2.00	0.61
25:BA:774:A:H2	25:BA:787:U:O2'	1.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1084:A:N6	25:BA:1085:A:N6	2.48	0.61
25:BA:1535:U:C2	25:BA:1536:A:H3'	2.35	0.61
25:BA:2074:U:H2'	25:BA:2075:U:C6	2.36	0.61
25:BA:2127:G:H5'	25:BA:2128:C:OP2	2.00	0.61
28:BE:119:ARG:CG	28:BE:119:ARG:HH11	2.14	0.61
31:BH:117:PRO:HB3	31:BH:123:PHE:CE1	2.36	0.61
32:BK:73:GLU:HG3	32:BK:137:PRO:HG2	1.82	0.61
33:BM:59:LYS:HE3	33:BM:61:ARG:HH22	1.64	0.61
36:BP:66:ILE:CG1	36:BP:67:ARG:H	2.06	0.61
39:BR:5:ALA:HA	39:BR:8:LYS:HE2	1.83	0.61
1:CA:1322:C:H2'	1:CA:1322:C:O2	2.00	0.61
2:CE:105:PHE:O	2:CE:109:SER:N	2.30	0.61
3:CF:34:LEU:O	3:CF:34:LEU:HD12	2.01	0.61
8:CK:64:LYS:HD2	8:CK:79:VAL:HG21	1.82	0.61
21:CX:25:LYS:HE2	21:CX:26:LYS:HE2	1.83	0.61
25:DA:9:U:C2	25:DA:2629:A:N6	2.52	0.61
44:DU:47:LYS:HG2	44:DU:60:PHE:CD1	2.36	0.61
44:DU:53:PRO:HD2	44:DU:57:GLN:O	2.01	0.61
47:DZ:92:LYS:O	47:DZ:93:GLU:C	2.44	0.61
1:AA:652:U:C4	1:AA:752:G:N3	2.69	0.60
3:AF:119:ARG:HE	3:AF:140:ARG:CZ	2.14	0.60
4:AG:79:PHE:CE1	4:AG:204:ILE:HG12	2.35	0.60
5:AH:91:LEU:HD12	5:AH:120:THR:HG22	1.81	0.60
8:AK:9:MET:SD	8:AK:32:LYS:HG2	2.41	0.60
10:AM:48:THR:CG2	10:AM:62:HIS:HB3	2.30	0.60
18:AU:26:LEU:HD22	18:AU:42:ARG:NH1	2.15	0.60
22:AB:23:A:H3'	22:AB:24:C:C5	2.36	0.60
25:BA:1348:G:C2'	25:BA:1349:A:H5"	2.31	0.60
25:BA:2733:A:C3'	25:BA:2734:A:H5"	2.31	0.60
30:BG:15:VAL:HG22	30:BG:175:LEU:HB2	1.83	0.60
43:BT:27:THR:HB	43:BT:80:ILE:HG22	1.83	0.60
1:CA:407:G:H2'	1:CA:408:A:C8	2.36	0.60
1:CA:973:G:C4	10:CM:55:LYS:HE2	2.36	0.60
1:CA:1091:U:O2	1:CA:1093:A:H8	1.84	0.60
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.36	0.60
2:CE:82:ARG:HA	2:CE:92:TYR:CE1	2.35	0.60
19:CV:80:TYR:CZ	19:CV:82:GLY:HA2	2.36	0.60
25:DA:2052:G:O4'	28:DE:142:GLY:HA3	2.01	0.60
26:DB:75:G:H8	26:DB:75:G:C5'	2.11	0.60
28:DE:182:LEU:HD12	28:DE:183:LEU:N	2.15	0.60
29:DF:10:PRO:HA	29:DF:127:GLU:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:93:ARG:HG2	39:DR:117:ASP:HB3	1.82	0.60
1:AA:177:C:OP2	20:AW:65:LYS:HD3	2.01	0.60
1:AA:605:U:H2'	1:AA:606:G:O4'	2.00	0.60
1:AA:1028(B):C:N3	1:AA:1032(A):G:N2	2.49	0.60
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.35	0.60
4:AG:162:LEU:CD1	4:AG:181:MET:HE2	2.31	0.60
11:AN:78:GLN:O	11:AN:103:LEU:HA	2.00	0.60
18:AU:58:LEU:HD22	18:AU:62:GLU:HB3	1.82	0.60
25:BA:481:G:H1'	25:BA:507:A:N1	2.15	0.60
25:BA:755:C:O2'	25:BA:756:C:H5'	2.00	0.60
25:BA:1332:G:C8	25:BA:1332:G:H5'	2.36	0.60
25:BA:1786:A:C2	25:BA:2606:C:H1'	2.35	0.60
25:BA:2169:A:C6	25:BA:2170:A:N1	2.69	0.60
25:BA:2629:A:O2'	25:BA:2630:G:H5"	2.01	0.60
25:BA:2820:A:C8	28:BE:109:LYS:HE2	2.36	0.60
28:BE:14:ILE:HB	28:BE:21:VAL:HG22	1.82	0.60
28:BE:78:LEU:HD11	28:BE:79:ARG:HG2	1.82	0.60
29:BF:123:LEU:HD12	29:BF:124:LEU:N	2.17	0.60
34:BN:12:ASP:CG	34:BN:14:THR:HG23	2.26	0.60
40:B1:92:ARG:NH1	40:B1:94:ASN:ND2	2.49	0.60
1:CA:1184:G:H2'	1:CA:1185:G:H5'	1.83	0.60
1:CA:1227:A:O3'	13:CP:115:LYS:HD2	2.01	0.60
1:CA:1239:A:O2'	1:CA:1298:C:N4	2.34	0.60
7:CJ:86:GLN:NE2	23:CD:32:G:H21	2.00	0.60
25:DA:7:G:O2'	25:DA:8:A:H5'	2.02	0.60
25:DA:242:G:H5'	54:D8:62:LEU:HB3	1.82	0.60
25:DA:857:C:H2'	25:DA:858:U:C6	2.36	0.60
25:DA:873:G:C2	25:DA:905:U:O2	2.54	0.60
25:DA:1459:G:C2'	25:DA:1460:A:H5'	2.29	0.60
27:DD:34:VAL:O	27:DD:34:VAL:HG13	2.01	0.60
32:DK:75:LEU:HD23	32:DK:76:THR:H	1.65	0.60
45:DV:108:PRO:HB3	45:DV:141:VAL:O	2.00	0.60
45:DV:126:VAL:HG12	45:DV:163:LEU:HA	1.81	0.60
45:DV:139:VAL:HA	45:DV:156:LYS:HE3	1.82	0.60
49:DX:40:THR:HG23	49:DX:43:ILE:HG12	1.82	0.60
53:D7:19:ARG:HH11	53:D7:19:ARG:HG2	1.66	0.60
1:AA:38:G:C2	1:AA:397:A:C2	2.90	0.60
1:AA:50:A:H4'	1:AA:51:A:O5'	2.01	0.60
1:AA:97:U:H2'	1:AA:99:C:C6	2.36	0.60
1:AA:667:G:H4'	15:AR:51:HIS:ND1	2.17	0.60
3:AF:53:ALA:HB2	3:AF:115:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:30:LYS:HD3	4:AG:30:LYS:N	2.16	0.60
5:AH:12:LEU:O	5:AH:30:ALA:HA	2.01	0.60
8:AK:101:PRO:HG2	8:AK:133:LEU:HD11	1.84	0.60
22:AB:27:G:O6	22:AB:45:U:O2	2.19	0.60
23:AC:59:A:H4'	23:AC:60:A:OP1	2.02	0.60
25:BA:2308:G:H2'	25:BA:2308:G:N3	2.15	0.60
27:BD:186:HIS:CD2	27:BD:188:GLU:H	2.11	0.60
30:BG:94:LEU:H	30:BG:94:LEU:HD23	1.66	0.60
49:BX:10:LYS:NZ	49:BX:15:TYR:OH	2.27	0.60
1:CA:928:G:O2'	1:CA:1533:C:OP1	2.19	0.60
3:CF:77:ILE:O	3:CF:83:ARG:HB3	2.01	0.60
14:CQ:45:ARG:O	14:CQ:49:HIS:CD2	2.55	0.60
23:CD:15:G:C2'	23:CD:60:A:H2	2.11	0.60
23:CD:37:U:O4	23:CD:38:A:N6	2.34	0.60
25:DA:322:A:H3'	29:DF:169:ASN:ND2	2.15	0.60
25:DA:1257:C:HO2'	29:DF:84:VAL:HG13	1.65	0.60
25:DA:1464:C:HO2'	25:DA:1528:A:H8	0.73	0.60
25:DA:2210:G:H4'	25:DA:2211:G:OP2	2.01	0.60
25:DA:2467:C:H2'	25:DA:2468:G:O4'	2.02	0.60
26:DB:44:G:C2	26:DB:48:A:C2	2.89	0.60
27:DD:48:ARG:NH1	27:DD:48:ARG:HG3	2.15	0.60
31:DH:137:ASP:CB	31:DH:140:LYS:HB2	2.31	0.60
35:DO:61:ARG:HB2	35:DO:61:ARG:CZ	2.26	0.60
1:AA:73:G:H2'	1:AA:74:C:C6	2.36	0.60
1:AA:872:A:C4	1:AA:874:G:C8	2.89	0.60
5:AH:55:VAL:O	5:AH:58:ALA:HB3	2.02	0.60
25:BA:1688:U:O2	25:BA:1700:A:H5"	2.01	0.60
25:BA:2212:A:H1'	25:BA:2215:G:C5	2.37	0.60
25:BA:2418:A:OP2	54:B8:29:LYS:HE2	2.02	0.60
25:BA:2466:C:H2'	25:BA:2467:C:H5'	1.83	0.60
39:BR:121:ILE:O	39:BR:123:GLN:O	2.20	0.60
43:BT:31:HIS:CD2	43:BT:33:LYS:H	2.20	0.60
1:CA:87:A:H2'	1:CA:87:A:N3	2.16	0.60
2:CE:178:ARG:NH2	8:CK:74:PRO:HG3	2.17	0.60
3:CF:37:GLN:O	3:CF:41:GLY:N	2.35	0.60
5:CH:96:PRO:HA	5:CH:117:ASP:OD2	2.01	0.60
12:CO:27:LEU:CD2	12:CO:33:ARG:HG2	2.31	0.60
16:CS:8:ARG:HG2	16:CS:8:ARG:NH1	2.16	0.60
25:DA:867:C:C5	25:DA:868:U:C5	2.90	0.60
25:DA:2415:G:H4'	35:DO:66:GLY:HA3	1.83	0.60
38:DQ:83:LYS:O	38:DQ:109:GLY:HA3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:D2:5:VAL:HA	41:D2:37:VAL:HB	1.83	0.60
45:DV:144:LEU:O	45:DV:146:ILE:N	2.35	0.60
1:AA:309:G:H1'	1:AA:608:A:C2	2.35	0.60
1:AA:1193:G:H2'	1:AA:1194:U:H5'	1.83	0.60
1:AA:1298:C:C6	7:AJ:114:ARG:NH1	2.69	0.60
15:AR:82:ILE:HG22	15:AR:83:GLU:N	2.16	0.60
22:AB:42:U:H5'	22:AB:43:A:OP2	2.01	0.60
25:BA:612:G:H2'	25:BA:613:U:O2	2.01	0.60
25:BA:1019:U:H3	25:BA:1142(A):A:H62	1.47	0.60
25:BA:1469:A:C2'	25:BA:1470:G:O5'	2.49	0.60
25:BA:2285:C:OP1	52:B6:28:ARG:HD3	2.01	0.60
25:BA:2318:G:H22	38:BQ:2:ALA:HB2	1.66	0.60
27:BD:146:GLU:HB2	27:BD:189:CYS:HB3	1.83	0.60
28:BE:41:LYS:O	28:BE:42:ASP:CG	2.43	0.60
28:BE:61:ARG:N	28:BE:62:PRO:CD	2.64	0.60
36:BP:19:GLY:O	36:BP:21:THR:OG1	2.10	0.60
45:BV:6:LYS:HA	45:BV:60:GLU:CB	2.26	0.60
52:B6:44:ARG:O	52:B6:45:LYS:CB	2.46	0.60
1:CA:342:C:C2'	1:CA:343:U:H5'	2.31	0.60
1:CA:828:A:H2'	1:CA:829:G:O4'	2.02	0.60
1:CA:1320:C:O2	19:CV:72:GLY:HA3	2.01	0.60
11:CN:57:THR:HG22	11:CN:58:PRO:HD2	1.83	0.60
12:CO:32:PHE:HE1	12:CO:86:ARG:HG3	1.65	0.60
12:CO:110:VAL:HG23	12:CO:120:TYR:HB3	1.84	0.60
25:DA:155:C:H2'	25:DA:155:C:O2	2.00	0.60
25:DA:524:U:H2'	25:DA:525:U:C6	2.37	0.60
25:DA:2251:G:OP1	36:DP:82:ARG:NH1	2.34	0.60
25:DA:2632:A:O2'	25:DA:2811:G:O2'	1.98	0.60
31:DH:150:ALA:C	31:DH:152:ARG:N	2.60	0.60
1:AA:880:C:OP1	12:AO:8:ASN:ND2	2.34	0.60
1:AA:1004:A:C6	1:AA:1025:U:H1'	2.37	0.60
2:AE:90:MET:HE2	2:AE:90:MET:HA	1.82	0.60
23:AC:20:G:C5	23:AC:58:A:H2	2.18	0.60
25:BA:442:G:C4'	29:BF:46:ARG:HD3	2.32	0.60
28:BE:23:VAL:CA	28:BE:185:LYS:HA	2.31	0.60
29:BF:20:LEU:HD12	29:BF:21:ALA:N	2.17	0.60
31:BH:115:VAL:HG11	31:BH:148:ILE:HG12	1.84	0.60
48:BW:58:ALA:O	48:BW:62:THR:HG22	2.02	0.60
1:CA:652:U:O2'	1:CA:653:A:H5"	2.01	0.60
2:CE:8:LYS:C	2:CE:10:LEU:H	2.08	0.60
22:CB:7:G:H3'	22:CB:8:U:C5'	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:476:G:H4'	25:DA:502:A:N1	2.16	0.60
25:DA:1778:U:H2'	25:DA:1784:A:N6	2.15	0.60
25:DA:1820:U:O2'	27:DD:159:ALA:O	2.14	0.60
25:DA:2354:G:O2'	46:D3:36:ILE:HD12	2.02	0.60
27:DD:35:LYS:HE3	27:DD:65:ILE:N	2.17	0.60
28:DE:126:PRO:O	28:DE:131:ALA:HB2	2.01	0.60
32:DK:101:LEU:H	32:DK:101:LEU:CD2	2.14	0.60
35:DO:57:THR:O	35:DO:59:LEU:N	2.34	0.60
41:D2:35:LEU:HG	41:D2:37:VAL:CG1	2.27	0.60
44:DU:61:ILE:HG22	44:DU:62:GLU:N	2.17	0.60
52:D6:48:VAL:CG1	52:D6:49:HIS:N	2.33	0.60
1:AA:1022:G:H2'	1:AA:1023:G:O4'	2.02	0.60
1:AA:1028(A):C:C2	1:AA:1028(B):C:C5	2.89	0.60
3:AF:195:VAL:C	3:AF:196:LEU:HD23	2.27	0.60
23:AD:22:A:C2	23:AD:47:G:C8	2.90	0.60
25:BA:1761:C:N4	25:BA:1762:A:H62	1.99	0.60
28:BE:34:VAL:HG13	28:BE:49:LEU:O	2.00	0.60
28:BE:197:ILE:HG12	28:BE:197:ILE:O	2.01	0.60
33:BM:38:HIS:CE1	33:BM:50:ASP:OD2	2.55	0.60
35:BO:83:VAL:CG1	35:BO:112:LEU:HD21	2.32	0.60
43:BT:57:LEU:CD1	43:BT:78:LYS:HB2	2.32	0.60
1:CA:328:C:O2'	1:CA:329:A:OP2	2.13	0.60
1:CA:972:C:OP2	10:CM:57:LYS:HD2	2.00	0.60
1:CA:1399:C:C2	1:CA:1502:A:N6	2.70	0.60
5:CH:152:ARG:NH2	8:CK:107:LEU:O	2.33	0.60
7:CJ:113:GLU:CB	7:CJ:119:ARG:HG2	2.30	0.60
10:CM:8:LEU:HD22	10:CM:20:ALA:HB2	1.83	0.60
25:DA:385:C:O2	35:DO:71:VAL:HG21	2.02	0.60
25:DA:669:G:O2'	25:DA:670:A:P	2.60	0.60
25:DA:1044:G:O3'	25:DA:1045:A:H4'	2.01	0.60
25:DA:1771:C:C1'	25:DA:1786:A:H8	2.13	0.60
25:DA:2262:U:P	46:D3:19:LYS:NZ	2.74	0.60
31:DH:137:ASP:HB3	31:DH:140:LYS:HB2	1.83	0.60
1:AA:271:C:H2'	1:AA:272:C:H6	1.66	0.60
1:AA:437:U:H2'	1:AA:438:G:O4'	2.02	0.60
2:AE:187:LEU:HA	2:AE:201:ILE:HB	1.83	0.60
14:AQ:45:ARG:NH1	14:AQ:49:HIS:HE1	2.00	0.60
15:AR:55:GLY:HA2	15:AR:58:MET:CE	2.32	0.60
25:BA:2310:A:H2'	25:BA:2311:A:H5'	1.84	0.60
25:BA:2898:U:H2'	25:BA:2899:G:C8	2.37	0.60
27:BD:31:LYS:HE3	27:BD:102:LYS:HD3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:270:ILE:C	27:BD:271:ILE:HG12	2.25	0.60
28:BE:167:VAL:CG1	28:BE:189:PRO:HD3	2.31	0.60
33:BM:46:VAL:HG12	33:BM:47:ALA:N	2.01	0.60
51:B5:4:HIS:O	51:B5:5:PRO:C	2.43	0.60
54:B8:52:LYS:N	54:B8:53:PRO:CD	2.63	0.60
1:CA:965:A:C2	1:CA:969:A:C2	2.90	0.60
1:CA:1045:C:H2'	1:CA:1046:A:O4'	2.02	0.60
1:CA:1133:G:H1	1:CA:1141:C:H42	1.48	0.60
2:CE:82:ARG:HA	2:CE:92:TYR:HE1	1.67	0.60
3:CF:75:VAL:O	3:CF:83:ARG:NE	2.35	0.60
4:CG:62:GLN:HE22	4:CG:65:ARG:HE	1.49	0.60
12:CO:47:LYS:CB	12:CO:48:PRO:HD2	2.31	0.60
22:CB:31:C:H2'	22:CB:32:C:H6	1.65	0.60
25:DA:943:U:OP2	35:DO:36:LYS:HE3	2.02	0.60
25:DA:1101:U:H2'	25:DA:1102:C:H6	1.67	0.60
25:DA:1190:G:H2'	25:DA:1191:G:H8	1.67	0.60
31:DH:153:LYS:O	31:DH:161:GLY:HA2	2.02	0.60
35:DO:78:PRO:HA	35:DO:110:TYR:HD2	1.67	0.60
38:DQ:59:LYS:CD	38:DQ:60:GLY:H	2.15	0.60
38:DQ:61:ASN:O	38:DQ:65:VAL:HB	2.02	0.60
1:AA:737:A:H2'	1:AA:738:C:H6	1.64	0.60
1:AA:1159:U:C2	1:AA:1182:G:N1	2.70	0.60
2:AE:8:LYS:CD	2:AE:8:LYS:H	2.14	0.60
4:AG:3:ARG:HG2	4:AG:118:ARG:CZ	2.32	0.60
5:AH:79:GLU:HB3	5:AH:92:LYS:HG3	1.82	0.60
8:AK:7:ALA:HB2	8:AK:85:ARG:HD2	1.82	0.60
8:AK:129:VAL:HG23	8:AK:130:GLY:H	1.66	0.60
10:AM:40:LEU:HB2	10:AM:69:ASN:HB3	1.82	0.60
13:AP:60:VAL:HG13	13:AP:64:TRP:HE1	1.67	0.60
25:BA:270(M):U:H1'	25:BA:270(N):G:C6	2.36	0.60
25:BA:1156:A:C8	40:B1:51:LYS:HD2	2.37	0.60
25:BA:1204:A:H2	25:BA:1241:A:N1	2.00	0.60
25:BA:1480:G:C2	25:BA:1482:U:O2	2.54	0.60
25:BA:2416:C:OP1	35:BO:64:LYS:O	2.18	0.60
28:BE:52:LEU:CD2	28:BE:52:LEU:N	2.58	0.60
32:BK:79:ILE:HB	32:BK:142:VAL:HG12	1.84	0.60
34:BN:7:TYR:CZ	34:BN:44:LYS:HG3	2.37	0.60
39:BR:36:GLU:HG3	39:BR:41:ARG:CD	2.25	0.60
47:BZ:84:GLY:O	47:BZ:87:PRO:HD3	2.01	0.60
1:CA:690:G:H2'	1:CA:691:G:O4'	2.01	0.60
1:CA:1127:G:N2	1:CA:1145:C:C2	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:157:ILE:HD11	3:CF:166:GLU:HB2	1.84	0.60
5:CH:48:ALA:HB1	5:CH:49:PRO:HD2	1.84	0.60
10:CM:83:GLU:HA	10:CM:86:MET:HE2	1.83	0.60
25:DA:733:G:O6	25:DA:761:A:C8	2.55	0.60
25:DA:993:G:OP1	40:D1:50:ARG:NH2	2.34	0.60
25:DA:1012:U:O4	33:DM:25:ARG:HD3	2.02	0.60
25:DA:1187:G:H5'	41:D2:76:LYS:HZ2	1.66	0.60
25:DA:1689:A:N7	25:DA:1698:A:N1	2.49	0.60
25:DA:1786:A:C2	25:DA:2606:C:H1'	2.37	0.60
25:DA:1858:G:H1'	25:DA:1884:A:N6	2.16	0.60
25:DA:2159:G:H2'	25:DA:2160:G:O4'	2.02	0.60
25:DA:2753:A:H2'	25:DA:2754:U:H5"	1.84	0.60
29:DF:46:ARG:HG2	29:DF:46:ARG:NH1	2.11	0.60
36:DP:38:GLU:HB2	36:DP:127:ILE:HG22	1.84	0.60
37:D0:51:LEU:HD22	37:D0:66:VAL:HG13	1.82	0.60
45:DV:150:LEU:HD22	45:DV:154:ASP:HB2	1.82	0.60
48:DW:64:LEU:O	48:DW:64:LEU:HD23	2.02	0.60
50:D4:40:HIS:HB3	50:D4:45:GLY:HA3	1.82	0.60
54:D8:47:LYS:C	54:D8:48:PHE:HD1	2.09	0.60
1:AA:235:C:C5'	17:AT:70:ARG:HG2	2.28	0.60
1:AA:1157:A:H2'	1:AA:1157:A:N3	2.17	0.60
1:AA:1176:A:H2'	1:AA:1177:G:H5'	1.84	0.60
1:AA:1442:G:C6	1:AA:1446:A:N6	2.70	0.60
3:AF:32:LEU:HD13	3:AF:59:ARG:HD3	1.84	0.60
3:AF:58:GLU:H	3:AF:65:ALA:HB3	1.65	0.60
22:AB:23:A:O2'	22:AB:24:C:OP1	2.18	0.60
25:BA:141:A:C8	25:BA:1408:C:H1'	2.37	0.60
25:BA:329:G:H4'	25:BA:330:A:OP2	2.00	0.60
25:BA:1095:A:H2'	25:BA:1095:A:N3	2.15	0.60
27:BD:110:GLY:O	27:BD:112:GLN:HG3	2.00	0.60
30:BG:63:ILE:HG12	30:BG:64:THR:N	2.15	0.60
35:BO:11:GLY:C	35:BO:13:ASN:N	2.60	0.60
35:BO:16:ARG:HG3	35:BO:16:ARG:NH1	2.15	0.60
35:BO:39:LYS:HG3	35:BO:45:LEU:CD2	2.32	0.60
38:BQ:101:LEU:O	38:BQ:101:LEU:HD12	2.02	0.60
40:B1:79:PHE:HE2	40:B1:83:LEU:HD21	1.66	0.60
41:B2:65:GLY:HA3	41:B2:91:TYR:CE1	2.37	0.60
48:BW:47:ASN:O	48:BW:49:LYS:N	2.34	0.60
52:B6:41:PRO:HD2	52:B6:46:HIS:H	1.66	0.60
1:CA:632:A:C1'	1:CA:633:G:OP2	2.45	0.60
1:CA:1028(B):C:H3'	1:CA:1029:G:H5"	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1128:C:N3	1:CA:1139:G:N1	2.50	0.60
4:CG:11:LEU:HD22	4:CG:66:ARG:NE	2.17	0.60
19:CV:67:VAL:HG12	19:CV:68:GLY:N	2.15	0.60
25:DA:204:A:HO2'	25:DA:205:G:P	2.25	0.60
25:DA:340:A:H2'	25:DA:341:G:H5'	1.84	0.60
25:DA:530:G:O2'	25:DA:531:C:OP2	2.17	0.60
25:DA:639:U:H2'	25:DA:640:C:C6	2.36	0.60
25:DA:1252:G:O4'	40:D1:33:ARG:HD3	2.02	0.60
1:AA:167:G:C2'	1:AA:168:G:H5'	2.32	0.59
1:AA:872:A:C5	1:AA:874:G:C8	2.90	0.59
1:AA:933:G:O6	7:AJ:3:ARG:NH2	2.35	0.59
1:AA:1036:G:H5'	1:AA:1037:C:OP2	2.01	0.59
2:AE:236:TYR:HA	2:AE:239:VAL:HG21	1.83	0.59
10:AM:48:THR:HG23	10:AM:62:HIS:ND1	2.16	0.59
13:AP:108:ARG:HH11	13:AP:108:ARG:CG	2.12	0.59
25:BA:2467:C:C4'	36:BP:123:HIS:ND1	2.65	0.59
26:BB:89:G:H8	26:BB:89:G:OP2	1.85	0.59
27:BD:132:PRO:HD3	27:BD:190:TYR:CZ	2.37	0.59
31:BH:97:ARG:NH2	31:BH:104:GLU:OE2	2.35	0.59
34:BN:17:ARG:HE	34:BN:47:ILE:HD13	1.65	0.59
36:BP:20:ALA:CB	36:BP:99:PRO:HD2	2.32	0.59
38:BQ:48:LEU:CD2	38:BQ:82:ILE:HD11	2.32	0.59
54:B8:13:ARG:O	54:B8:14:VAL:HG23	2.01	0.59
1:CA:842:C:H4'	1:CA:848:C:O2	2.01	0.59
1:CA:1321:C:C4	1:CA:1322:C:H5	2.19	0.59
1:CA:1325:C:OP1	21:CX:15:ARG:HD2	2.01	0.59
3:CF:21:ARG:HB3	3:CF:21:ARG:NH1	2.17	0.59
4:CG:58:LEU:HD22	4:CG:62:GLN:HG3	1.84	0.59
25:DA:96:G:H4'	48:DW:48:HIS:CD2	2.37	0.59
25:DA:125:G:H4'	25:DA:126:A:OP2	2.02	0.59
25:DA:2419:U:O4	54:D8:31:HIS:CG	2.55	0.59
31:DH:149:ARG:HG3	31:DH:162:ILE:O	2.01	0.59
38:DQ:87:PHE:C	38:DQ:87:PHE:HD2	2.10	0.59
52:D6:28:ARG:HB3	52:D6:30:THR:C	2.27	0.59
1:AA:96:G:H2'	1:AA:97:U:H5'	1.83	0.59
1:AA:964:A:N3	1:AA:969:A:O2'	2.33	0.59
3:AF:189:ALA:O	3:AF:191:THR:HG23	2.00	0.59
11:AN:81:ASP:OD1	11:AN:81:ASP:N	2.35	0.59
14:AQ:37:PHE:CE1	14:AQ:53:LEU:HD13	2.37	0.59
25:BA:246:C:C2'	25:BA:247:G:H5'	2.32	0.59
25:BA:1790:C:H5"	25:BA:1791:A:OP1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2309:A:N6	25:BA:2310:A:C6	2.70	0.59
25:BA:2336:A:H61	46:B3:43:THR:CG2	2.15	0.59
33:BM:128:HIS:HD2	33:BM:129:PRO:O	1.85	0.59
35:BO:105:LEU:HD12	35:BO:105:LEU:H	1.67	0.59
38:BQ:38:GLN:HG3	38:BQ:47:THR:HG21	1.84	0.59
38:BQ:49:VAL:HG22	38:BQ:80:LEU:HD12	1.84	0.59
1:CA:188:U:O2'	1:CA:189:U:H5'	2.02	0.59
12:CO:7:ILE:HA	12:CO:10:LEU:HD12	1.84	0.59
23:CC:20:G:H4'	23:CC:21:U:OP2	2.01	0.59
25:DA:84:A:H61	25:DA:102:G:HO2'	1.48	0.59
25:DA:298:G:O2'	25:DA:322:A:N1	2.29	0.59
25:DA:774:A:H2	25:DA:787:U:O2'	1.82	0.59
25:DA:2898:U:H2'	25:DA:2899:G:C8	2.38	0.59
26:DB:45:A:H2'	26:DB:45:A:N3	2.16	0.59
28:DE:111:ARG:HB2	28:DE:160:TYR:O	2.01	0.59
28:DE:199:ARG:HG2	28:DE:200:GLU:N	2.16	0.59
31:DH:152:ARG:O	31:DH:153:LYS:CB	2.33	0.59
37:D0:38:VAL:HG12	37:D0:42:LYS:HD2	1.84	0.59
41:D2:49:THR:HB	41:D2:50:PRO:CD	2.31	0.59
41:D2:76:LYS:CB	41:D2:79:VAL:CG2	2.79	0.59
54:D8:35:GLN:C	54:D8:36:LYS:CG	2.76	0.59
1:AA:336:C:O2'	1:AA:337:C:H5'	2.02	0.59
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.02	0.59
1:AA:1240:U:C4	7:AJ:32:ARG:HD3	2.37	0.59
20:AW:24:LEU:HD12	20:AW:24:LEU:C	2.26	0.59
23:AC:62:C:H2'	23:AC:63:C:C6	2.34	0.59
23:AC:66:C:O2'	23:AC:67:C:H5'	2.03	0.59
25:BA:783:A:H2'	25:BA:785:G:OP1	2.03	0.59
25:BA:847:U:C5	25:BA:933:A:C2	2.90	0.59
25:BA:1057:A:O2'	25:BA:1058:U:O4'	2.20	0.59
25:BA:1204:A:N1	25:BA:1241:A:N1	2.51	0.59
25:BA:1678:G:H22	25:BA:1989:G:H22	1.49	0.59
25:BA:2306:C:H3'	25:BA:2307:G:H5'	1.84	0.59
27:BD:148:GLU:HB3	27:BD:151:LYS:HD2	1.83	0.59
29:BF:132:VAL:HG23	29:BF:133:ASN:N	2.16	0.59
39:BR:39:ARG:HG2	39:BR:40:THR:N	2.15	0.59
48:BW:50:ILE:CD1	48:BW:51:ARG:H	2.08	0.59
1:CA:56:U:H2'	1:CA:57:G:C8	2.36	0.59
1:CA:1279:A:H5"	1:CA:1280:A:OP1	2.02	0.59
10:CM:4:ILE:HD13	10:CM:100:THR:HG21	1.84	0.59
23:CD:15:G:H5"	23:CD:16:C:OP2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1062:G:N2	25:DA:1076:C:N3	2.50	0.59
25:DA:1070:A:H8	25:DA:1096:A:O2'	1.85	0.59
25:DA:1786:A:H2	25:DA:2606:C:H1'	1.66	0.59
25:DA:2716:U:O2'	25:DA:2717:G:H5'	2.02	0.59
27:DD:28:GLU:HB3	27:DD:29:PRO:CD	2.33	0.59
28:DE:3:GLY:HA3	28:DE:81:ILE:CD1	2.31	0.59
30:DG:96:ARG:HG2	30:DG:96:ARG:NH1	2.16	0.59
33:DM:71:ILE:HD12	33:DM:71:ILE:O	2.03	0.59
36:DP:75:THR:HG22	36:DP:89:ASN:H	1.67	0.59
38:DQ:20:ARG:HG2	38:DQ:20:ARG:O	2.02	0.59
40:D1:81:HIS:CE1	40:D1:85:LYS:HD2	2.36	0.59
41:D2:69:LYS:CG	41:D2:86:GLY:HA3	2.24	0.59
45:DV:175:VAL:HG13	45:DV:176:PRO:HD3	1.82	0.59
1:AA:673:G:H2'	1:AA:674:G:C8	2.37	0.59
1:AA:943:U:H1'	9:AL:124:GLN:HE22	1.67	0.59
1:AA:1502:A:H2	1:AA:1505:G:H1	1.51	0.59
9:AL:18:PHE:HD1	9:AL:62:TYR:HD2	1.48	0.59
23:AC:20:G:C4	23:AC:58:A:C2	2.90	0.59
25:BA:873:G:H1	25:BA:904:C:N4	1.99	0.59
25:BA:1336:A:OP2	43:BT:64:LYS:HE3	2.01	0.59
25:BA:2309:A:C3'	25:BA:2310:A:H5'	2.32	0.59
25:BA:2469:A:H61	25:BA:2481:G:H1'	1.66	0.59
36:BP:33:GLY:HA2	36:BP:105:GLU:HA	1.84	0.59
37:B0:74:LYS:C	37:B0:76:VAL:N	2.59	0.59
44:BU:49:VAL:HG12	44:BU:50:ARG:H	1.66	0.59
53:B7:48:LYS:O	53:B7:49:ARG:CB	2.50	0.59
1:CA:45:U:H2'	1:CA:46:G:C8	2.37	0.59
1:CA:972:C:C4'	10:CM:57:LYS:HG3	2.31	0.59
2:CE:92:TYR:HD2	2:CE:92:TYR:C	2.10	0.59
11:CN:63:LEU:HD23	11:CN:63:LEU:H	1.68	0.59
25:DA:654(D):G:H1	25:DA:654(Q):C:N4	2.00	0.59
25:DA:975:G:H1'	25:DA:990:A:C2	2.38	0.59
25:DA:2761:G:H1'	31:DH:143:GLN:OE1	2.02	0.59
25:DA:2790:A:C4'	25:DA:2791:C:OP2	2.50	0.59
31:DH:117:PRO:HB3	31:DH:123:PHE:HE1	1.64	0.59
46:D3:38:VAL:CG1	46:D3:40:GLN:HG2	2.33	0.59
1:AA:626:U:C2	1:AA:627:G:C8	2.91	0.59
1:AA:923:A:O2'	1:AA:1399:C:OP2	2.16	0.59
4:AG:31:CYS:C	4:AG:33:MET:H	2.10	0.59
20:AW:23:ARG:O	20:AW:27:LYS:HB3	2.01	0.59
23:AD:15:G:H2'	23:AD:60:A:C2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:774:A:C2	25:BA:787:U:O2'	2.49	0.59
25:BA:2159:G:H2'	25:BA:2160:G:H8	1.66	0.59
25:BA:2208:U:O2'	25:BA:2209:C:H5'	2.02	0.59
25:BA:2439:A:H4'	25:BA:2440:C:O5'	2.02	0.59
25:BA:2483:C:N3	36:BP:124:LYS:HE3	2.16	0.59
28:BE:59:VAL:CG1	28:BE:63:LEU:HD13	2.32	0.59
36:BP:80:GLU:OE2	36:BP:80:GLU:HA	2.02	0.59
49:BX:52:HIS:CD2	49:BX:52:HIS:H	2.21	0.59
1:CA:973:G:H1'	10:CM:55:LYS:CE	2.30	0.59
1:CA:1135:U:H4'	1:CA:1136:U:H5	1.67	0.59
2:CE:43:ASP:O	2:CE:47:THR:OG1	2.17	0.59
6:CI:67:MET:HE1	6:CI:75:LEU:HD22	1.84	0.59
25:DA:1012:U:H5	33:DM:28:THR:HG21	1.66	0.59
25:DA:2311:A:O2'	30:DG:88:ILE:CD1	2.50	0.59
28:DE:36:ARG:NH2	28:DE:88:GLY:HA3	2.16	0.59
28:DE:45:THR:O	28:DE:45:THR:CG2	2.44	0.59
35:DO:34:GLY:O	35:DO:35:HIS:C	2.45	0.59
36:DP:57:HIS:O	36:DP:57:HIS:CG	2.56	0.59
1:AA:824:C:H4'	8:AK:1:MET:HB2	1.83	0.59
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.02	0.59
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.38	0.59
8:AK:21:LYS:O	8:AK:65:TYR:OH	2.20	0.59
11:AN:12:ARG:HG2	11:AN:13:GLN:N	2.17	0.59
25:BA:1188:U:O2'	25:BA:1189:A:H5'	2.02	0.59
25:BA:1266:G:O2'	25:BA:2012:G:O6	2.20	0.59
28:BE:50:GLY:CA	28:BE:77:ILE:HA	2.25	0.59
28:BE:79:ARG:NH2	28:BE:164:ARG:NH1	2.49	0.59
28:BE:119:ARG:HH11	28:BE:119:ARG:HG3	1.68	0.59
44:BU:35:TYR:CE1	44:BU:69:ALA:HB3	2.37	0.59
54:B8:16:ILE:HD13	54:B8:57:ARG:HG2	1.84	0.59
1:CA:404:U:H2'	1:CA:405:U:C6	2.37	0.59
4:CG:30:LYS:N	4:CG:30:LYS:HE2	2.17	0.59
5:CH:55:VAL:O	5:CH:58:ALA:HB3	2.01	0.59
7:CJ:143:ARG:NH1	23:CD:42:C:O2'	2.36	0.59
8:CK:35:ILE:O	8:CK:39:LEU:HB2	2.03	0.59
22:CB:44:G:O2'	22:CB:45:U:H5'	2.03	0.59
25:DA:572:A:H5"	25:DA:573:G:OP2	2.03	0.59
25:DA:975:G:N2	25:DA:990:A:O4'	2.36	0.59
25:DA:1558:A:H4'	25:DA:1559:G:O5'	2.02	0.59
25:DA:2131:G:H5'	25:DA:2132:U:OP1	2.02	0.59
25:DA:2584:U:H5"	25:DA:2585:U:OP2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DO:15:ARG:O	35:DO:16:ARG:O	2.21	0.59
38:DQ:7:TYR:CZ	38:DQ:91:PRO:HG3	2.38	0.59
52:D6:9:LEU:N	52:D6:27:LYS:HG3	2.18	0.59
1:AA:763:G:H2'	1:AA:764:C:H6	1.68	0.59
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.20	0.59
1:AA:1133:G:H2'	1:AA:1134:G:H8	1.68	0.59
20:AW:10:LEU:HD21	20:AW:12:ALA:HB2	1.80	0.59
22:AB:50:A:N1	22:AB:52:U:H5"	2.18	0.59
25:BA:989:G:C8	49:BX:13:ILE:HD11	2.37	0.59
25:BA:1102:C:H2'	25:BA:1103:A:H8	1.67	0.59
25:BA:1980:G:O2'	25:BA:1982:C:OP2	2.17	0.59
25:BA:2724:C:OP1	28:BE:118:LYS:HE3	2.02	0.59
27:BD:264:LYS:O	27:BD:267:SER:HB2	2.03	0.59
35:BO:64:LYS:HB3	54:B8:25:MET:HG2	1.82	0.59
39:BR:16:ARG:NH2	39:BR:83:ILE:O	2.36	0.59
39:BR:26:ASP:O	39:BR:49:VAL:HG13	2.02	0.59
51:B5:40:LYS:CG	51:B5:47:PRO:HD2	2.33	0.59
1:CA:513:C:H42	1:CA:538:G:H1	1.51	0.59
1:CA:984:C:H2'	1:CA:985:C:C6	2.38	0.59
1:CA:1112:C:N3	3:CF:178:LEU:HB2	2.18	0.59
1:CA:1127:G:N2	1:CA:1144:G:H22	2.01	0.59
6:CI:72:VAL:HG13	6:CI:73:ASN:H	1.67	0.59
19:CV:31:ILE:CG2	19:CV:50:ALA:H	2.15	0.59
25:DA:535:C:O2'	25:DA:536:A:H5'	2.02	0.59
25:DA:912:C:O2	25:DA:912:C:H2'	2.03	0.59
25:DA:2271:G:H5"	46:D3:20:ARG:CD	2.32	0.59
25:DA:2287:A:C2	25:DA:2346:A:N1	2.70	0.59
25:DA:2537:U:H2'	25:DA:2538:C:C6	2.38	0.59
25:DA:2720:U:C4	25:DA:2873:A:N1	2.70	0.59
25:DA:2823:A:OP1	28:DE:113:PHE:HB2	2.03	0.59
27:DD:35:LYS:CB	27:DD:64:ILE:H	2.16	0.59
29:DF:11:VAL:HG23	29:DF:12:LEU:H	1.66	0.59
30:DG:67:LYS:HB3	50:D4:6:HIS:CD2	2.37	0.59
32:DK:77:LEU:HA	32:DK:141:LYS:H	1.68	0.59
33:DM:4:TYR:CE2	40:D1:100:VAL:HG11	2.37	0.59
39:DR:56:GLY:O	39:DR:59:THR:N	2.35	0.59
45:DV:120:ILE:HB	45:DV:169:GLU:OE2	2.03	0.59
1:AA:664:G:H22	1:AA:741:G:H1	1.50	0.59
1:AA:1368:G:OP1	9:AL:111:ARG:NH2	2.36	0.59
4:AG:162:LEU:O	4:AG:165:MET:HB2	2.03	0.59
19:AV:42:PRO:HD3	50:B4:63:TYR:CD1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:22:A:H2	23:AD:47:G:H2'	1.67	0.59
25:BA:528:A:C2	25:BA:2043:C:H4'	2.37	0.59
25:BA:1494:A:O2'	25:BA:1495:A:H5'	2.03	0.59
25:BA:1827:C:H2'	25:BA:1828:G:H5'	1.85	0.59
28:BE:38:THR:O	28:BE:40:GLU:N	2.36	0.59
28:BE:61:ARG:O	28:BE:63:LEU:N	2.30	0.59
41:B2:44:LYS:CG	41:B2:45:THR:N	2.65	0.59
46:B3:38:VAL:HG12	46:B3:40:GLN:HG2	1.85	0.59
1:CA:77:C:H3'	1:CA:78:G:H5"	1.84	0.59
1:CA:485:G:O2'	1:CA:486:U:H6	1.86	0.59
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.01	0.59
1:CA:1128:C:HO2'	1:CA:1129:C:P	2.25	0.59
2:CE:19:HIS:CE1	2:CE:204:ASN:HB3	2.38	0.59
2:CE:92:TYR:CD2	2:CE:92:TYR:C	2.80	0.59
25:DA:330:A:H2	25:DA:1210:A:C2'	2.16	0.59
25:DA:877:U:O4	25:DA:899:A:N6	2.34	0.59
25:DA:1064:C:H2'	25:DA:1065:U:C6	2.38	0.59
25:DA:2192:G:C2'	25:DA:2193:G:H5'	2.33	0.59
25:DA:2210:G:H3'	25:DA:2211:G:C4	2.38	0.59
25:DA:2284:C:OP2	52:D6:27:LYS:HD2	2.03	0.59
25:DA:2298:A:H1'	25:DA:2321:G:H22	1.68	0.59
28:DE:38:THR:HG23	28:DE:40:GLU:HB2	1.84	0.59
37:D0:24:GLN:HE22	37:D0:36:THR:HG21	1.68	0.59
45:DV:148:ASP:CG	45:DV:149:SER:H	2.10	0.59
1:AA:1004:A:C1'	1:AA:1036:G:H1	2.13	0.59
26:BB:90:C:H5'	36:BP:18:LYS:HA	1.84	0.59
31:BH:27:LYS:O	31:BH:27:LYS:HG3	2.03	0.59
1:CA:413:G:O2'	1:CA:428:G:N2	2.36	0.59
1:CA:1151:A:O2'	1:CA:1152:A:O5'	2.18	0.59
4:CG:105:VAL:HG21	4:CG:126:ILE:HG13	1.83	0.59
12:CO:69:TYR:CG	12:CO:90:VAL:HG21	2.37	0.59
13:CP:102:ARG:O	13:CP:107:ALA:HB2	2.03	0.59
25:DA:278:A:O2'	25:DA:279:C:OP1	2.15	0.59
25:DA:779:U:OP1	27:DD:49:ILE:HG23	2.03	0.59
25:DA:886:C:H1'	25:DA:890:A:C2	2.37	0.59
25:DA:1486:A:H2'	25:DA:1487:G:H8	1.67	0.59
25:DA:1863:G:O2'	25:DA:2411:A:O2'	2.21	0.59
25:DA:2056:G:C2	25:DA:2057:A:C8	2.90	0.59
25:DA:2565:A:H5"	25:DA:2566:A:OP2	2.02	0.59
25:DA:2681:C:H6	25:DA:2683:C:H41	1.50	0.59
29:DF:25:PRO:C	29:DF:27:GLU:H	2.08	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DG:83:ARG:O	30:DG:86:MET:HB2	2.02	0.59
1:AA:438:G:H4'	4:AG:123:HIS:ND1	2.17	0.59
1:AA:719:C:H5	1:AA:720:C:C4	2.21	0.59
1:AA:1149:C:P	9:AL:9:ARG:HH21	2.26	0.59
14:AQ:2:ALA:HB1	14:AQ:6:LEU:CD1	2.33	0.59
25:BA:529:A:H8	25:BA:530:G:C6	2.21	0.59
25:BA:1147:C:H2'	25:BA:1148:A:H5"	1.85	0.59
25:BA:2121:G:H1	25:BA:2177:C:H42	1.51	0.59
25:BA:2173:A:H8	25:BA:2173:A:OP1	1.86	0.59
27:BD:32:SER:O	27:BD:33:LEU:HB3	2.01	0.59
31:BH:89:ILE:HG12	31:BH:89:ILE:O	2.02	0.59
31:BH:92:ILE:HD12	31:BH:92:ILE:N	2.16	0.59
33:BM:46:VAL:O	33:BM:47:ALA:CB	2.51	0.59
34:BN:4:PRO:O	34:BN:5:GLN:CB	2.50	0.59
50:B4:34:GLU:HG2	50:B4:35:VAL:N	2.17	0.59
54:B8:17:THR:OG1	54:B8:21:LYS:HB2	2.02	0.59
54:B8:36:LYS:O	54:B8:37:SER:C	2.45	0.59
1:CA:1072:G:C6	1:CA:1073:U:C4	2.90	0.59
1:CA:1305:G:C5'	21:CX:4:GLY:HA3	2.32	0.59
1:CA:1317:C:OP1	14:CQ:16:PHE:HB3	2.03	0.59
1:CA:1386:G:C2	1:CA:1387:G:N7	2.71	0.59
2:CE:137:ARG:HH12	2:CE:140:HIS:CB	2.11	0.59
11:CN:69:ALA:HB1	11:CN:103:LEU:HD21	1.84	0.59
12:CO:23:LYS:HE2	12:CO:23:LYS:H	1.68	0.59
17:CT:87:LYS:O	17:CT:91:ARG:HG3	2.03	0.59
25:DA:277:C:H5"	25:DA:278:A:N7	2.17	0.59
25:DA:1109:C:H5"	25:DA:1110:G:OP2	2.02	0.59
25:DA:1499:C:O2'	25:DA:1500:G:H5'	2.03	0.59
25:DA:1676:A:C2	25:DA:1993:U:H5'	2.38	0.59
25:DA:2371:G:H4'	52:D6:45:LYS:CG	2.33	0.59
27:DD:48:ARG:HG3	27:DD:48:ARG:HH11	1.66	0.59
33:DM:128:HIS:HE2	33:DM:134:ARG:HD2	1.68	0.59
35:DO:37:GLY:O	35:DO:40:SER:OG	2.21	0.59
36:DP:7:MET:CB	36:DP:10:ARG:HH22	2.15	0.59
45:DV:52:SER:O	45:DV:52:SER:OG	2.14	0.59
1:AA:78:G:H1	1:AA:91:C:H42	1.50	0.58
1:AA:93:U:H2'	1:AA:95:G:C4'	2.33	0.58
1:AA:157:G:H2'	1:AA:158:G:H5'	1.85	0.58
1:AA:1299:A:H2'	1:AA:1301:U:H1'	1.84	0.58
4:AG:30:LYS:HA	4:AG:34:GLU:HB2	1.85	0.58
15:AR:55:GLY:HA2	15:AR:58:MET:HE2	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:890:A:H3'	25:BA:892:G:H8	1.68	0.58
25:BA:1668:A:N3	25:BA:1670:C:C4	2.71	0.58
25:BA:2795:G:H3'	25:BA:2797:U:C5'	2.33	0.58
28:BE:27:LEU:CD1	39:BR:1:MET:CE	2.76	0.58
29:BF:178:PRO:HB3	29:BF:198:ALA:HB1	1.85	0.58
31:BH:152:ARG:HE	31:BH:153:LYS:NZ	2.00	0.58
32:BK:100:ALA:O	32:BK:101:LEU:C	2.46	0.58
35:BO:19:VAL:HG22	35:BO:20:GLY:H	1.68	0.58
45:BV:107:THR:HB	45:BV:108:PRO:HD2	1.85	0.58
47:BZ:41:ARG:HH11	47:BZ:41:ARG:HG3	1.67	0.58
51:B5:40:LYS:NZ	51:B5:46:CYS:HB3	2.18	0.58
54:B8:10:ALA:C	54:B8:12:LYS:H	2.11	0.58
1:CA:978:A:H5'	1:CA:979:C:OP2	2.02	0.58
1:CA:980:C:H5'	1:CA:981:U:OP2	2.03	0.58
1:CA:1151:A:H5'	10:CM:41:PRO:HA	1.85	0.58
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.68	0.58
1:CA:1326:C:OP1	21:CX:17:THR:OG1	2.20	0.58
3:CF:113:ALA:HB3	3:CF:114:PRO:HD3	1.85	0.58
4:CG:31:CYS:O	4:CG:32:ALA:HB3	2.03	0.58
5:CH:91:LEU:HD12	5:CH:120:THR:CG2	2.28	0.58
12:CO:62:SER:HB2	12:CO:64:TYR:CD1	2.33	0.58
22:CB:22:G:N2	22:CB:59:U:H5'	2.18	0.58
25:DA:234:C:H2'	25:DA:235:U:H6	1.67	0.58
25:DA:1283:G:N2	25:DA:1286:A:H5'	2.18	0.58
25:DA:1688:U:O2	25:DA:1700:A:H5'	2.03	0.58
25:DA:1991:U:C2'	25:DA:1992:G:H5"	2.33	0.58
25:DA:2470:G:OP1	36:DP:56:ARG:CZ	2.50	0.58
25:DA:2638:G:HO2'	25:DA:2639:A:H8	1.48	0.58
27:DD:35:LYS:HD2	27:DD:104:TYR:CE1	2.33	0.58
32:DK:27:ARG:HG2	47:DZ:71:TYR:CE1	2.38	0.58
40:D1:62:ILE:HG13	40:D1:76:TYR:CE1	2.37	0.58
40:D1:66:ASN:O	40:D1:70:ARG:HD2	2.03	0.58
42:DS:29:LEU:HD21	42:DS:33:ARG:CZ	2.33	0.58
52:D6:15:GLU:HG2	52:D6:16:CYS:N	2.17	0.58
1:AA:310:G:OP1	16:AS:27:LYS:NZ	2.36	0.58
1:AA:1405:G:O4'	1:AA:1519:A:H4'	2.03	0.58
4:AG:19:LEU:HD22	4:AG:19:LEU:N	2.15	0.58
25:BA:674:G:C1'	29:BF:74:ARG:HD3	2.29	0.58
25:BA:1242:A:H5"	25:BA:1243:G:OP2	2.03	0.58
25:BA:1544:C:H2'	25:BA:1544:C:O2	2.02	0.58
25:BA:1678:G:H8	25:BA:1678:G:O5'	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:35:LYS:N	27:BD:64:ILE:HG23	2.18	0.58
28:BE:46:ALA:C	28:BE:47:VAL:HG22	2.27	0.58
33:BM:24:GLY:HA2	33:BM:27:ALA:HB3	1.85	0.58
35:BO:85:LEU:HA	35:BO:88:LEU:HD22	1.86	0.58
37:B0:38:VAL:HB	37:B0:39:PRO:HD3	1.85	0.58
48:BW:16:LEU:C	48:BW:16:LEU:HD12	2.28	0.58
1:CA:262:A:H5'	20:CW:74:LYS:HG3	1.84	0.58
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.68	0.58
1:CA:1302:U:C5	13:CP:17:VAL:HG21	2.37	0.58
4:CG:178:VAL:C	4:CG:180:GLY:H	2.11	0.58
5:CH:107:ARG:HG2	5:CH:108:ALA:N	2.18	0.58
6:CI:33:TYR:HE1	6:CI:78:GLU:HG3	1.68	0.58
9:CL:8:GLY:HA3	9:CL:79:LEU:HB3	1.86	0.58
10:CM:23:ILE:HA	10:CM:26:ALA:HB3	1.85	0.58
10:CM:69:ASN:O	10:CM:70:ARG:HG3	2.03	0.58
23:CD:35:C:H2'	23:CD:35:C:O2	2.02	0.58
25:DA:1250:G:N7	35:DO:18:ARG:NH2	2.51	0.58
25:DA:1392:A:N6	25:DA:1393:A:N6	2.51	0.58
25:DA:2771:C:O2'	28:DE:168:MET:HE1	2.03	0.58
27:DD:31:LYS:O	27:DD:31:LYS:HG3	2.03	0.58
32:DK:75:LEU:HD23	32:DK:76:THR:N	2.18	0.58
40:D1:61:TRP:O	40:D1:65:ILE:HD13	2.04	0.58
1:AA:93:U:H2'	1:AA:95:G:O4'	2.03	0.58
1:AA:116:A:H61	1:AA:313:A:H1'	1.68	0.58
1:AA:1156:G:H2'	1:AA:1157:A:H5"	1.85	0.58
4:AG:146:ILE:HD12	4:AG:146:ILE:N	2.18	0.58
15:AR:25:THR:HG21	15:AR:70:LEU:HB2	1.84	0.58
25:BA:592:G:H21	54:B8:4:MET:HE2	1.68	0.58
25:BA:1142(A):A:C4	25:BA:1144:G:C8	2.91	0.58
25:BA:1329:U:H5"	25:BA:1330:C:C5	2.38	0.58
25:BA:1442:G:C2	25:BA:1550:C:O2	2.56	0.58
25:BA:2314:C:H2'	25:BA:2315:G:H8	1.68	0.58
27:BD:123:ALA:CB	27:BD:131:LEU:HG	2.33	0.58
28:BE:79:ARG:NE	28:BE:197:ILE:HG22	2.19	0.58
33:BM:42:TRP:CD1	40:B1:63:VAL:HG11	2.38	0.58
40:B1:90:VAL:O	40:B1:92:ARG:N	2.36	0.58
1:CA:1503:A:C8	1:CA:1531:A:N3	2.71	0.58
8:CK:103:VAL:HG21	8:CK:110:ALA:HB2	1.84	0.58
19:CV:41:VAL:O	19:CV:44:MET:HB2	2.03	0.58
25:DA:172:C:H2'	25:DA:173:G:H8	1.67	0.58
25:DA:846:C:C2	25:DA:847:U:H5	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1388:G:C2'	25:DA:1389:G:H5'	2.33	0.58
25:DA:1926:U:H2'	25:DA:1928:A:OP2	2.03	0.58
25:DA:2062:A:H62	25:DA:2503:A:N6	2.01	0.58
31:DH:6:ARG:HB2	31:DH:66:GLY:HA2	1.85	0.58
31:DH:111:HIS:ND1	31:DH:112:PRO:HD2	2.17	0.58
35:DO:80:TYR:CD1	35:DO:111:ARG:HB3	2.38	0.58
37:D0:86:ARG:HG2	37:D0:118:GLU:OE2	2.03	0.58
41:D2:43:GLU:O	41:D2:44:LYS:HG2	2.03	0.58
1:AA:200:G:N2	1:AA:218:C:C2	2.71	0.58
1:AA:244:U:H4'	1:AA:245:C:C5'	2.33	0.58
1:AA:1004:A:H8	1:AA:1036:G:N2	2.01	0.58
1:AA:1086:U:H3	1:AA:1099:G:H22	1.51	0.58
2:AE:204:ASN:HD22	2:AE:205:ASP:N	2.00	0.58
9:AL:93:ARG:HB2	9:AL:93:ARG:HH11	1.67	0.58
10:AM:48:THR:HG23	10:AM:62:HIS:CB	2.33	0.58
25:BA:363(B):G:H2'	25:BA:363(C):G:H8	1.68	0.58
25:BA:442:G:H21	29:BF:48:THR:HG23	1.67	0.58
25:BA:780:G:N2	25:BA:783:A:N6	2.43	0.58
25:BA:1771:C:C1'	25:BA:1786:A:H8	2.16	0.58
25:BA:2473:U:N3	25:BA:2474:C:C6	2.71	0.58
25:BA:2726:U:H4'	34:BN:1:MET:HE1	1.85	0.58
25:BA:2811:G:C2'	25:BA:2812:G:H5'	2.33	0.58
27:BD:145:VAL:HG12	27:BD:146:GLU:O	2.03	0.58
28:BE:61:ARG:C	28:BE:63:LEU:H	2.10	0.58
32:BK:13:GLY:HA3	32:BK:17:GLN:OE1	2.02	0.58
32:BK:73:GLU:HG3	32:BK:137:PRO:HD2	1.84	0.58
40:B1:92:ARG:HD2	41:B2:11:GLN:HB2	1.86	0.58
1:CA:640:A:C2'	1:CA:641:U:H5'	2.33	0.58
1:CA:827:U:H3	1:CA:872:A:N6	2.00	0.58
1:CA:1084:G:H2'	1:CA:1085:U:H6	1.67	0.58
1:CA:1186:G:N2	1:CA:1187:G:H1'	2.18	0.58
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.04	0.58
1:CA:1503:A:H1'	1:CA:1504:G:OP1	2.02	0.58
2:CE:144:ARG:HD2	2:CE:148:TYR:CE2	2.38	0.58
4:CG:150:GLU:C	4:CG:152:SER:H	2.10	0.58
22:CB:70:G:H3'	22:CB:71:U:C6	2.38	0.58
23:CD:21:U:C2'	23:CD:22:A:H5"	2.33	0.58
25:DA:579:G:H2'	25:DA:580:C:C6	2.38	0.58
25:DA:1142(A):A:C8	25:DA:1144:G:N7	2.71	0.58
25:DA:1677:A:H2'	25:DA:1678:G:C8	2.38	0.58
25:DA:1826:G:C2'	25:DA:1827:C:O5'	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2015:A:C2	51:D5:6:VAL:CG2	2.86	0.58
25:DA:2142:C:H2'	25:DA:2143:C:C6	2.38	0.58
25:DA:2818:G:O2'	25:DA:2819:G:H5'	2.03	0.58
26:DB:40:U:H1'	26:DB:46:A:C2	2.37	0.58
28:DE:128:SER:OG	28:DE:129:HIS:N	2.35	0.58
34:DN:47:ILE:CG1	34:DN:48:PRO:HD2	2.29	0.58
35:DO:47:ASP:O	35:DO:49:ARG:N	2.36	0.58
35:DO:57:THR:C	35:DO:59:LEU:N	2.61	0.58
35:DO:71:VAL:HG13	35:DO:72:PRO:HD3	1.85	0.58
38:DQ:24:LEU:HD23	38:DQ:84:GLN:O	2.03	0.58
44:DU:63:LYS:HA	44:DU:63:LYS:HZ3	1.68	0.58
45:DV:144:LEU:C	45:DV:146:ILE:N	2.61	0.58
45:DV:145:GLU:O	45:DV:145:GLU:HG3	2.03	0.58
47:DZ:92:LYS:O	47:DZ:95:LEU:N	2.27	0.58
1:AA:200:G:H1	1:AA:217:C:H42	1.50	0.58
1:AA:1312:G:C2'	1:AA:1313:U:H5'	2.34	0.58
10:AM:16:LEU:HD11	10:AM:70:ARG:HB2	1.84	0.58
12:AO:62:SER:HB2	12:AO:64:TYR:HD1	1.68	0.58
19:AV:15:LEU:O	19:AV:19:VAL:HG23	2.03	0.58
25:BA:606:U:H4'	25:BA:658:C:H4'	1.85	0.58
25:BA:1038:C:H2'	25:BA:1039:G:O4'	2.03	0.58
25:BA:1179:C:C2'	25:BA:1180:C:H5"	2.31	0.58
25:BA:1278:A:O2'	37:B0:34:ILE:HD11	2.03	0.58
25:BA:1316:U:H2'	25:BA:1317:A:C8	2.38	0.58
28:BE:52:LEU:CB	28:BE:75:VAL:HG22	2.25	0.58
28:BE:119:ARG:HH12	28:BE:158:GLY:CA	2.16	0.58
29:BF:20:LEU:HD12	29:BF:21:ALA:H	1.69	0.58
30:BG:114:ILE:HB	30:BG:117:PHE:HB2	1.86	0.58
32:BK:10:GLU:O	32:BK:11:ASN:HB2	2.03	0.58
32:BK:133:HIS:O	32:BK:134:PRO:C	2.45	0.58
33:BM:73:THR:HB	33:BM:82:LEU:HD11	1.86	0.58
33:BM:120:LEU:HD22	33:BM:120:LEU:C	2.27	0.58
35:BO:15:ARG:O	35:BO:16:ARG:O	2.21	0.58
1:CA:390:C:H2'	1:CA:391:G:C8	2.37	0.58
1:CA:552:U:C2'	1:CA:553:A:H5'	2.33	0.58
1:CA:1190:G:H5'	3:CF:176:HIS:NE2	2.18	0.58
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.03	0.58
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.38	0.58
4:CG:22:LYS:HG3	4:CG:26:CYS:SG	2.44	0.58
25:DA:601:C:O2	25:DA:605:C:H4'	2.04	0.58
25:DA:747:U:O2	25:DA:2014:A:H1'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2150:U:H2'	25:DA:2151:G:C8	2.38	0.58
25:DA:2314:C:C2'	25:DA:2315:G:H5'	2.33	0.58
25:DA:2364:C:O2'	25:DA:2365:G:H5'	2.03	0.58
25:DA:2389:G:H5"	25:DA:2390:U:H5'	1.85	0.58
26:DB:56:G:H4'	26:DB:57:A:H8	1.69	0.58
30:DG:42:GLY:O	30:DG:43:LEU:HD13	2.03	0.58
33:DM:18:ALA:HA	33:DM:21:LYS:HD2	1.84	0.58
36:DP:79:LEU:HD13	36:DP:80:GLU:OE2	2.04	0.58
39:DR:98:LYS:HB3	39:DR:100:TYR:CE1	2.38	0.58
44:DU:17:SER:OG	44:DU:18:GLY:N	2.34	0.58
1:AA:559:A:OP1	5:AH:126:ARG:NH2	2.37	0.58
1:AA:753:A:H4'	1:AA:754:C:H5"	1.86	0.58
1:AA:859:A:H2'	1:AA:860:A:H8	1.68	0.58
1:AA:1301:U:O4	1:AA:1303:C:H1'	2.04	0.58
2:AE:212:GLN:CD	2:AE:235:SER:HB2	2.28	0.58
8:AK:14:ARG:O	8:AK:18:ARG:HD3	2.04	0.58
25:BA:270(L):U:O2	32:BK:50:ARG:HD2	2.03	0.58
25:BA:1069:A:H4'	25:BA:1070:A:O5'	2.02	0.58
25:BA:1405:U:H2'	25:BA:1406:U:C6	2.38	0.58
25:BA:2098:U:H2'	25:BA:2099:U:O4'	2.04	0.58
25:BA:2248:C:C2'	25:BA:2249:U:H5'	2.34	0.58
25:BA:2572:A:N7	28:BE:145:LYS:HB2	2.19	0.58
33:BM:115:ARG:H	33:BM:118:LYS:HE3	1.69	0.58
35:BO:68:GLN:HG2	54:B8:12:LYS:HD3	1.84	0.58
1:CA:711:G:O2'	1:CA:712:A:H5'	2.03	0.58
1:CA:811:C:H4'	1:CA:900:A:N6	2.19	0.58
1:CA:973:G:C1'	10:CM:55:LYS:HE2	2.31	0.58
1:CA:1159:U:O2	1:CA:1181:G:O6	2.22	0.58
1:CA:1316:G:H2'	1:CA:1317:C:H5"	1.85	0.58
2:CE:141:GLU:O	2:CE:145:LEU:HB2	2.04	0.58
4:CG:24:GLU:HG2	4:CG:25:ARG:H	1.67	0.58
8:CK:82:HIS:O	8:CK:82:HIS:HD2	1.87	0.58
10:CM:4:ILE:HA	10:CM:100:THR:HG22	1.86	0.58
11:CN:59:TYR:CE1	11:CN:63:LEU:HD21	2.38	0.58
12:CO:41:ARG:HD2	12:CO:42:THR:H	1.68	0.58
23:CD:9:G:O2'	23:CD:10:G:C8	2.53	0.58
25:DA:637:A:P	35:DO:116:GLY:HA2	2.44	0.58
25:DA:854:G:H2'	25:DA:855:G:H8	1.68	0.58
25:DA:905:U:H3'	25:DA:906:G:H5"	1.85	0.58
25:DA:1378:A:OP1	53:D7:10:ARG:NH2	2.36	0.58
25:DA:1384:A:N3	25:DA:1405:U:H1'	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:25:THR:HG23	27:DD:26:LYS:N	2.18	0.58
28:DE:38:THR:HG23	28:DE:40:GLU:N	2.15	0.58
30:DG:145:THR:HG23	50:D4:28:LYS:HE2	1.85	0.58
31:DH:143:GLN:HE21	31:DH:143:GLN:HA	1.68	0.58
38:DQ:69:VAL:HG13	38:DQ:101:LEU:HD22	1.86	0.58
45:DV:157:LEU:HB3	45:DV:161:VAL:HG12	1.85	0.58
51:D5:31:VAL:HG13	51:D5:42:PRO:HG3	1.85	0.58
54:D8:33:ASN:C	54:D8:34:TRP:CD1	2.81	0.58
1:AA:87:A:OP1	1:AA:87:A:H4'	2.03	0.58
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.37	0.58
25:BA:64:A:O3'	43:BT:71:GLY:HA3	2.04	0.58
25:BA:414:C:H2'	25:BA:415:A:H8	1.67	0.58
25:BA:1477:A:C2	25:BA:1517:G:C2	2.91	0.58
25:BA:1482:U:O4	25:BA:1510:A:C8	2.56	0.58
25:BA:1593:G:H2'	25:BA:1594:G:C8	2.39	0.58
25:BA:1792:G:H5'	27:BD:205:VAL:HG13	1.86	0.58
25:BA:2126:A:N6	25:BA:2163:C:H1'	2.19	0.58
29:BF:64:ILE:O	29:BF:65:TRP:CD1	2.57	0.58
38:BQ:85:VAL:CG2	38:BQ:112:PHE:CZ	2.85	0.58
39:BR:61:PHE:HD2	39:BR:61:PHE:H	1.52	0.58
43:BT:70:LEU:N	43:BT:70:LEU:HD23	2.19	0.58
45:BV:111:VAL:O	45:BV:111:VAL:HG23	2.03	0.58
45:BV:150:LEU:CD2	45:BV:154:ASP:HB2	2.32	0.58
50:B4:57:GLU:HA	50:B4:60:GLN:HB2	1.86	0.58
1:CA:731:G:H5'	1:CA:766:A:H4'	1.85	0.58
25:DA:11:G:H2'	25:DA:12:U:H5'	1.86	0.58
25:DA:91:A:H2'	25:DA:92:G:O4'	2.03	0.58
25:DA:2303:G:O2'	25:DA:2304:G:H5'	2.04	0.58
25:DA:2439:A:C8	25:DA:2439:A:C5'	2.86	0.58
30:DG:146:TYR:CD2	30:DG:146:TYR:C	2.81	0.58
35:DO:131:SER:HB3	35:DO:134:ALA:H	1.67	0.58
42:DS:54:ALA:HB1	42:DS:107:LEU:HD22	1.86	0.58
49:DX:46:ASN:O	49:DX:50:VAL:HG22	2.04	0.58
52:D6:28:ARG:HB3	52:D6:30:THR:O	2.03	0.58
1:AA:66:G:O4'	1:AA:173:U:C4	2.56	0.58
1:AA:1234:C:H1'	1:AA:1364:U:O2	2.04	0.58
2:AE:7:VAL:HG23	2:AE:8:LYS:HE2	1.84	0.58
2:AE:165:VAL:HG23	2:AE:166:ASP:N	2.18	0.58
22:AB:58:U:H2'	22:AB:58:U:O2	2.02	0.58
25:BA:1310:G:OP2	53:B7:9:ARG:NH1	2.23	0.58
25:BA:2790:A:H2	25:BA:2894:G:H5"	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:83:ARG:HG3	30:BG:86:MET:SD	2.44	0.58
31:BH:154:PRO:HB3	31:BH:163:TYR:CZ	2.39	0.58
33:BM:130:HIS:HD2	33:BM:134:ARG:HH12	1.50	0.58
45:BV:44:PHE:CZ	45:BV:86:VAL:HG11	2.39	0.58
48:BW:64:LEU:HD21	48:BW:68:ARG:NH1	2.19	0.58
50:B4:4:GLY:O	50:B4:5:ILE:HG22	2.03	0.58
1:CA:210:U:OP1	1:CA:210:U:O4'	2.22	0.58
1:CA:413:G:HO2'	1:CA:414:A:P	2.25	0.58
1:CA:425:G:O3'	4:CG:45:GLN:NE2	2.36	0.58
1:CA:542:G:OP1	4:CG:10:ARG:NH2	2.37	0.58
13:CP:33:ALA:HA	13:CP:59:TYR:HE2	1.68	0.58
18:CU:22:VAL:C	18:CU:24:ALA:H	2.11	0.58
25:DA:531:C:OP1	25:DA:561:G:C2	2.56	0.58
25:DA:535:C:C2'	25:DA:536:A:H5'	2.34	0.58
25:DA:1568:G:OP2	27:DD:63:ARG:NH2	2.36	0.58
25:DA:2292:C:O2'	25:DA:2293:C:H5'	2.03	0.58
25:DA:2542:A:H5'	25:DA:2543:G:OP1	2.03	0.58
29:DF:63:LYS:HE2	29:DF:67:GLN:HB3	1.84	0.58
29:DF:118:ALA:HB2	29:DF:123:LEU:CD2	2.34	0.58
31:DH:107:VAL:HG12	31:DH:107:VAL:O	2.03	0.58
36:DP:137:TYR:HE1	45:DV:83:PRO:HG3	1.69	0.58
43:DT:54:VAL:C	43:DT:55:ASN:HD22	2.11	0.58
46:D3:27:GLU:HG3	46:D3:68:GLU:HA	1.84	0.58
51:D5:40:LYS:HE2	51:D5:44:THR:O	2.02	0.58
2:AE:6:THR:OG1	2:AE:7:VAL:N	2.36	0.58
17:AT:17:LYS:HG3	17:AT:47:PRO:HA	1.86	0.58
20:AW:10:LEU:CD2	20:AW:12:ALA:H	2.16	0.58
25:BA:442:G:H4'	29:BF:46:ARG:HD3	1.86	0.58
25:BA:945:A:C4	25:BA:2448:A:C2	2.92	0.58
25:BA:990:A:OP2	25:BA:991:C:OP2	2.21	0.58
25:BA:1955:U:O3'	25:BA:1956:U:H6	1.87	0.58
25:BA:2104:G:C2	25:BA:2186:G:C2	2.92	0.58
27:BD:28:GLU:HB3	27:BD:29:PRO:CD	2.33	0.58
31:BH:153:LYS:HG3	31:BH:162:ILE:N	2.18	0.58
51:B5:31:VAL:HG13	51:B5:42:PRO:HG3	1.84	0.58
1:CA:1387:G:H2'	1:CA:1388:C:C6	2.39	0.58
5:CH:33:VAL:HG12	5:CH:34:VAL:H	1.68	0.58
5:CH:80:ILE:HD11	5:CH:138:ALA:CB	2.31	0.58
11:CN:34:ASP:HB2	11:CN:35:PRO:CD	2.33	0.58
12:CO:27:LEU:HB3	12:CO:33:ARG:HD3	1.86	0.58
14:CQ:4:LYS:O	14:CQ:7:ILE:HG12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CV:28:LYS:HG2	19:CV:29:ARG:H	1.69	0.58
23:CD:31:G:H2'	23:CD:32:G:H8	1.68	0.58
25:DA:247:G:H4'	25:DA:386:G:C5	2.39	0.58
25:DA:1558:A:H1'	25:DA:1559:G:OP2	2.04	0.58
25:DA:2404:C:O3'	35:DO:77:ARG:NH2	2.36	0.58
27:DD:27:THR:CG2	27:DD:83:GLU:HG2	2.22	0.58
30:DG:77:ILE:O	30:DG:81:LYS:O	2.21	0.58
36:DP:36:ALA:HB1	36:DP:127:ILE:HD12	1.86	0.58
38:DQ:106:ARG:HB3	38:DQ:110:LEU:HD11	1.84	0.58
53:D7:8:ASN:HD22	53:D7:11:LYS:N	1.97	0.58
1:AA:5:U:O2'	1:AA:6:G:C4	2.57	0.58
1:AA:967:C:O5'	1:AA:967:C:H6	1.86	0.58
1:AA:1072:G:C5	1:AA:1073:U:C4	2.92	0.58
1:AA:1237:C:O2	1:AA:1334:G:O2'	2.20	0.58
3:AF:58:GLU:HB2	3:AF:65:ALA:HB2	1.84	0.58
20:AW:12:ALA:O	20:AW:15:ARG:HB2	2.03	0.58
20:AW:71:THR:CG2	20:AW:72:LEU:H	2.12	0.58
23:AC:62:C:C6	23:AC:63:C:H5	2.22	0.58
25:BA:643:A:C2'	25:BA:644:A:O5'	2.52	0.58
25:BA:2779:U:O4'	25:BA:2779:U:O2	2.19	0.58
27:BD:134:ARG:HG3	27:BD:135:PHE:CD2	2.38	0.58
45:BV:140:ASP:CG	45:BV:156:LYS:HZ3	2.12	0.58
52:B6:44:ARG:HH11	52:B6:44:ARG:HG2	1.68	0.58
1:CA:279:A:H2'	1:CA:279:A:N3	2.19	0.58
25:DA:329:G:H4'	25:DA:330:A:OP2	2.03	0.58
25:DA:2059:A:H5"	25:DA:2060:A:OP2	2.04	0.58
27:DD:35:LYS:CE	27:DD:64:ILE:C	2.70	0.58
39:DR:8:LYS:HB3	39:DR:8:LYS:HZ2	1.67	0.58
1:AA:16:A:H2'	1:AA:17:U:H5'	1.84	0.57
1:AA:17:U:O4'	1:AA:1080:A:H1'	2.04	0.57
1:AA:881:G:P	12:AO:12:ARG:HH22	2.27	0.57
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.69	0.57
23:AC:63:C:O2	23:AC:64:G:C8	2.56	0.57
25:BA:527:C:OP2	25:BA:2779:U:C5	2.57	0.57
25:BA:815:C:H2'	25:BA:816:C:H6	1.69	0.57
25:BA:1060:U:H4'	25:BA:1061:U:O5'	2.03	0.57
25:BA:1230:C:H2'	25:BA:1231:G:C8	2.39	0.57
25:BA:1359:A:N1	25:BA:1372:U:C4	2.72	0.57
25:BA:2037:G:H2'	25:BA:2038:G:C8	2.38	0.57
27:BD:17:THR:HG22	27:BD:204:ILE:HA	1.86	0.57
28:BE:53:PRO:HA	28:BE:74:PRO:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:109:VAL:CG1	50:B4:33:VAL:HG21	2.34	0.57
35:BO:122:PRO:HB3	35:BO:141:ALA:HB1	1.85	0.57
36:BP:88:GLY:C	36:BP:90:VAL:H	2.12	0.57
37:B0:104:ARG:NH1	37:B0:107:ASP:CG	2.62	0.57
51:B5:57:VAL:O	51:B5:57:VAL:HG13	2.03	0.57
1:CA:253:U:H2'	1:CA:254:G:H8	1.69	0.57
1:CA:1490:C:H2'	1:CA:1491:G:O4'	2.03	0.57
12:CO:27:LEU:HD21	12:CO:60:LEU:HB3	1.84	0.57
13:CP:5:ALA:HB2	13:CP:22:ILE:HD13	1.84	0.57
14:CQ:12:ARG:HB3	14:CQ:14:PRO:HD3	1.85	0.57
25:DA:39:C:H2'	25:DA:40:C:C6	2.39	0.57
25:DA:78:A:H2'	25:DA:79:G:C8	2.39	0.57
25:DA:1331:A:O2'	25:DA:1332:G:H8	1.87	0.57
25:DA:1771:C:C1'	25:DA:1786:A:C8	2.87	0.57
25:DA:2335:A:O2'	25:DA:2336:A:H2'	2.04	0.57
25:DA:2571:C:H5'	25:DA:2572:A:C5'	2.29	0.57
27:DD:35:LYS:CD	27:DD:64:ILE:N	2.67	0.57
28:DE:47:VAL:CG1	28:DE:49:LEU:HD23	2.33	0.57
42:DS:1:MET:HE2	42:DS:62:HIS:CD2	2.38	0.57
1:AA:606:G:N2	1:AA:631:G:H8	2.01	0.57
1:AA:1053:G:C6	1:AA:1199:U:C2	2.92	0.57
2:AE:21:ARG:HB2	2:AE:39:ILE:HA	1.85	0.57
7:AJ:36:LYS:HZ2	7:AJ:36:LYS:HB2	1.69	0.57
25:BA:287:C:H2'	25:BA:288:C:H6	1.69	0.57
25:BA:2283:C:H2'	25:BA:2284:C:O4'	2.04	0.57
28:BE:14:ILE:O	28:BE:15:PHE:CD2	2.56	0.57
35:BO:21:ARG:HA	35:BO:21:ARG:HE	1.69	0.57
35:BO:29:LYS:HD2	35:BO:30:THR:HG22	1.85	0.57
1:CA:765:G:N2	1:CA:813:U:OP2	2.35	0.57
1:CA:1128:C:O2'	1:CA:1129:C:OP1	2.22	0.57
3:CF:11:ARG:O	3:CF:14:ILE:O	2.22	0.57
11:CN:82:VAL:HB	11:CN:108:ILE:HG12	1.86	0.57
20:CW:53:LEU:HD13	20:CW:104:LEU:HD13	1.85	0.57
25:DA:239:U:H6	25:DA:239:U:C5'	2.17	0.57
25:DA:1053:C:H3'	25:DA:1054:A:H5"	1.85	0.57
25:DA:1210:A:H5'	25:DA:1212:G:O4'	2.04	0.57
25:DA:1342:A:C6	25:DA:1397:U:C6	2.92	0.57
25:DA:1472:A:H2'	25:DA:1473:G:H5'	1.86	0.57
25:DA:2170:A:H5"	25:DA:2171:A:OP2	2.03	0.57
25:DA:2366:A:H2'	25:DA:2367:G:O4'	2.04	0.57
25:DA:2872:G:O2'	25:DA:2873:A:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2875:C:C4'	39:DR:5:ALA:HB2	2.31	0.57
27:DD:108:PRO:HB3	27:DD:143:HIS:HE1	1.68	0.57
27:DD:186:HIS:CD2	27:DD:187:GLY:N	2.72	0.57
28:DE:84:PHE:CZ	28:DE:86:PRO:HB3	2.39	0.57
34:DN:68:GLU:HA	34:DN:78:ARG:HB3	1.85	0.57
41:D2:44:LYS:HG3	41:D2:45:THR:N	2.19	0.57
44:DU:20:TYR:N	44:DU:20:TYR:HD1	2.01	0.57
44:DU:90:LEU:H	44:DU:90:LEU:HD23	1.69	0.57
49:DX:19:GLN:NE2	49:DX:52:HIS:CE1	2.72	0.57
1:AA:49:U:C2	1:AA:361:G:N2	2.72	0.57
2:AE:217:ARG:CZ	2:AE:217:ARG:HB2	2.34	0.57
5:AH:33:VAL:HG11	5:AH:109:ILE:HA	1.86	0.57
13:AP:81:LEU:O	13:AP:89:GLY:HA3	2.04	0.57
25:BA:229:A:C1'	25:BA:230:U:OP2	2.51	0.57
25:BA:280:C:H2'	25:BA:281:G:H5'	1.86	0.57
25:BA:527:C:OP2	25:BA:2779:U:H5	1.86	0.57
25:BA:614:U:O4	29:BF:168:ARG:HG2	2.05	0.57
25:BA:1317:A:O2'	25:BA:1318:C:H5'	2.03	0.57
25:BA:1799:G:H5'	25:BA:1819:A:N6	2.19	0.57
25:BA:2401:U:H2'	25:BA:2402:C:C6	2.39	0.57
27:BD:30:GLU:CG	27:BD:63:ARG:NH2	2.64	0.57
27:BD:65:ILE:HD11	27:BD:67:PHE:CZ	2.40	0.57
28:BE:52:LEU:O	28:BE:75:VAL:N	2.29	0.57
29:BF:152:GLU:HG3	29:BF:191:ARG:HD2	1.86	0.57
31:BH:151:ILE:O	31:BH:153:LYS:HD3	2.03	0.57
31:BH:153:LYS:HB3	31:BH:154:PRO:HD3	1.85	0.57
43:BT:41:ASN:O	43:BT:45:THR:HG23	2.04	0.57
45:BV:107:THR:C	45:BV:109:ALA:N	2.62	0.57
45:BV:117:LEU:HD13	45:BV:118:GLN:N	2.18	0.57
54:B8:32:LEU:O	54:B8:36:LYS:NZ	2.34	0.57
1:CA:652:U:O2'	1:CA:653:A:C2	2.56	0.57
2:CE:128:GLU:OE2	2:CE:128:GLU:HA	2.04	0.57
3:CF:56:ASP:HB2	3:CF:69:HIS:HE1	1.69	0.57
9:CL:95:LYS:HZ2	9:CL:96:LEU:HD12	1.68	0.57
25:DA:1146:C:C2'	25:DA:1147:C:H5'	2.34	0.57
25:DA:1653:G:H4'	25:DA:1654:A:O5'	2.04	0.57
25:DA:2197:U:H1'	25:DA:2198:A:C8	2.39	0.57
26:DB:17:C:H2'	26:DB:18:G:O4'	2.04	0.57
28:DE:25:VAL:HG12	28:DE:26:ILE:N	2.15	0.57
31:DH:89:ILE:O	31:DH:161:GLY:O	2.22	0.57
32:DK:62:LYS:O	32:DK:62:LYS:HD2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:69:LYS:O	32:DK:73:GLU:HB2	2.04	0.57
36:DP:62:GLY:O	36:DP:63:LYS:HB2	2.04	0.57
1:AA:78:G:H1	1:AA:91:C:N4	2.03	0.57
1:AA:1004:A:N9	1:AA:1025:U:O2	2.37	0.57
1:AA:1053:G:N7	1:AA:1199:U:C6	2.72	0.57
3:AF:34:LEU:HD21	3:AF:38:ARG:HH11	1.69	0.57
4:AG:134:ASP:O	4:AG:136:PRO:HD3	2.05	0.57
22:AB:12:G:H1	22:AB:24:C:N4	2.03	0.57
25:BA:443:A:C5	29:BF:45:ARG:HD2	2.39	0.57
25:BA:528:A:N1	25:BA:2043:C:C5'	2.67	0.57
25:BA:795:C:H2'	25:BA:796:C:H6	1.68	0.57
25:BA:856:C:C2'	25:BA:857:C:O5'	2.53	0.57
25:BA:1412:A:H2'	25:BA:1413:G:C8	2.40	0.57
25:BA:2286:A:H4'	25:BA:2287:A:O5'	2.04	0.57
26:BB:15:A:OP1	26:BB:15:A:C4'	2.52	0.57
29:BF:29:ASN:N	29:BF:112:MET:HE3	2.15	0.57
29:BF:32:LEU:HD13	29:BF:105:VAL:CG1	2.31	0.57
30:BG:83:ARG:CB	30:BG:86:MET:HE2	2.35	0.57
36:BP:103:MET:HE3	36:BP:125:LEU:HD13	1.86	0.57
36:BP:110:THR:HG23	36:BP:113:GLN:OE1	2.03	0.57
41:B2:38:LEU:C	41:B2:38:LEU:HD23	2.29	0.57
44:BU:41:GLY:O	44:BU:42:VAL:C	2.48	0.57
1:CA:452:A:H2'	1:CA:453:A:C8	2.38	0.57
1:CA:554:C:H2'	1:CA:555:C:C6	2.38	0.57
1:CA:909:A:H2'	1:CA:910:C:O4'	2.03	0.57
1:CA:1178:G:H5'	9:CL:93:ARG:NH2	2.19	0.57
1:CA:1256:A:N6	1:CA:1278:U:OP2	2.37	0.57
2:CE:5:ILE:HD12	2:CE:59:GLU:CD	2.30	0.57
2:CE:71:VAL:CG1	2:CE:97:TRP:HD1	2.17	0.57
4:CG:13:ARG:CG	4:CG:14:ARG:N	2.63	0.57
10:CM:35:SER:OG	10:CM:73:ASP:HB2	2.03	0.57
19:CV:40:ILE:HD11	19:CV:71:LEU:HD23	1.86	0.57
20:CW:50:GLU:HA	20:CW:100:ILE:HB	1.87	0.57
25:DA:587:C:C2	35:DO:33:ARG:NH1	2.73	0.57
25:DA:708:C:H42	25:DA:723:G:H1	1.51	0.57
25:DA:2517:C:C2	25:DA:2542:A:N6	2.72	0.57
28:DE:132:HIS:O	28:DE:133:LYS:HB2	2.05	0.57
29:DF:192:LEU:CD2	29:DF:194:MET:HE2	2.34	0.57
36:DP:26:TYR:CE1	36:DP:139:GLU:CG	2.73	0.57
36:DP:57:HIS:CE1	36:DP:116:GLU:HB3	2.40	0.57
39:DR:88:ILE:HD11	39:DR:91:ARG:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:D2:48:GLY:C	41:D2:49:THR:O	2.45	0.57
44:DU:5:MET:HE1	44:DU:69:ALA:HB1	1.86	0.57
45:DV:3:TYR:O	45:DV:58:VAL:HB	2.04	0.57
45:DV:141:VAL:O	45:DV:142:SER:C	2.47	0.57
1:AA:89:U:O2'	1:AA:90:C:O4'	2.23	0.57
1:AA:1301:U:C2'	1:AA:1302:U:H5'	2.34	0.57
14:AQ:2:ALA:HB1	14:AQ:6:LEU:HD11	1.86	0.57
23:AC:66:C:C2'	23:AC:67:C:H5'	2.35	0.57
25:BA:139:G:N3	25:BA:141:A:N1	2.52	0.57
25:BA:394:A:O2'	25:BA:395:U:H5'	2.03	0.57
25:BA:602:G:O2'	25:BA:604:G:O2'	2.19	0.57
25:BA:1204:A:N1	25:BA:1241:A:C2	2.73	0.57
26:BB:59:A:H2'	26:BB:60:C:H6	1.68	0.57
28:BE:47:VAL:HG21	28:BE:84:PHE:O	2.05	0.57
30:BG:78:SER:O	30:BG:80:PHE:N	2.37	0.57
31:BH:86:GLU:O	31:BH:131:VAL:O	2.22	0.57
35:BO:1:MET:HE3	35:BO:5:ASP:HB3	1.86	0.57
1:CA:7:G:H5'	1:CA:298:A:O4'	2.05	0.57
1:CA:570:G:C6	1:CA:873:A:C2	2.92	0.57
1:CA:706:A:O4'	11:CN:29:ILE:HD11	2.05	0.57
3:CF:9:GLY:HA3	14:CQ:49:HIS:HA	1.85	0.57
3:CF:15:THR:HG22	3:CF:16:ARG:N	2.19	0.57
3:CF:58:GLU:HB2	3:CF:65:ALA:CB	2.34	0.57
12:CO:24:VAL:HG12	12:CO:26:ALA:HB2	1.87	0.57
25:DA:389:G:N1	35:DO:71:VAL:HG12	2.20	0.57
25:DA:395:U:H2'	25:DA:396:G:N7	2.19	0.57
25:DA:1057:A:C2	25:DA:1081:U:N3	2.68	0.57
25:DA:2057:A:C2'	25:DA:2058:A:H5'	2.33	0.57
31:DH:152:ARG:C	31:DH:154:PRO:HD3	2.29	0.57
32:DK:104:GLN:HG2	32:DK:105:HIS:CD2	2.40	0.57
35:DO:64:LYS:CG	54:D8:25:MET:SD	2.92	0.57
35:DO:71:VAL:CG1	35:DO:72:PRO:HD3	2.34	0.57
36:DP:31:ASP:H	36:DP:107:ALA:HB2	1.70	0.57
42:DS:29:LEU:O	42:DS:29:LEU:HG	2.03	0.57
42:DS:59:VAL:HG23	42:DS:65:LEU:H	1.70	0.57
43:DT:26:TYR:CD1	43:DT:89:ILE:HD12	2.39	0.57
45:DV:8:TYR:HA	45:DV:62:PRO:CD	2.35	0.57
45:DV:112:ARG:HE	45:DV:112:ARG:H	1.53	0.57
1:AA:73:G:C2	1:AA:74:C:C5	2.92	0.57
1:AA:920:U:H2'	1:AA:921:U:C6	2.39	0.57
1:AA:1060:C:O2'	10:AM:56:HIS:CD2	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.04	0.57
4:AG:190:ASP:O	4:AG:193:ASP:HB2	2.03	0.57
10:AM:40:LEU:HB2	10:AM:69:ASN:HB2	1.86	0.57
19:AV:40:ILE:HD11	19:AV:62:ILE:HG23	1.87	0.57
20:AW:10:LEU:HD23	20:AW:12:ALA:CB	2.34	0.57
25:BA:483:A:H4'	44:BU:49:VAL:CA	2.28	0.57
25:BA:540:G:H5'	25:BA:541:C:OP2	2.04	0.57
25:BA:1230:C:H2'	25:BA:1231:G:H8	1.70	0.57
25:BA:1845:G:C2'	25:BA:1846:G:H5'	2.34	0.57
25:BA:2712:U:H1'	25:BA:2712(A):A:C8	2.39	0.57
27:BD:70:TRP:CH2	27:BD:150:LYS:HA	2.39	0.57
27:BD:228:PRO:HD3	27:BD:234:GLY:C	2.29	0.57
28:BE:35:GLN:HB3	28:BE:48:GLN:HB2	1.86	0.57
36:BP:75:THR:HA	36:BP:88:GLY:C	2.30	0.57
40:B1:8:VAL:HG23	40:B1:11:ARG:NH2	2.19	0.57
40:B1:76:TYR:C	40:B1:76:TYR:CD2	2.82	0.57
47:BZ:53:VAL:CG2	47:BZ:74:VAL:HG22	2.35	0.57
1:CA:628:G:O2'	1:CA:629:G:H5'	2.04	0.57
1:CA:1320:C:O2	19:CV:36:ARG:NH2	2.37	0.57
2:CE:142:LEU:O	2:CE:142:LEU:HD23	2.05	0.57
3:CF:28:GLN:HB3	3:CF:32:LEU:HD12	1.86	0.57
10:CM:84:GLN:O	10:CM:88:LEU:HB3	2.05	0.57
13:CP:37:THR:HG21	13:CP:56:LEU:HD23	1.85	0.57
23:CC:20:G:N1	23:CC:58:A:C2	2.73	0.57
25:DA:343:C:O2'	25:DA:344:G:H5'	2.04	0.57
25:DA:2275:C:H5'	25:DA:2275:C:C6	2.39	0.57
25:DA:2637:U:H2'	25:DA:2638:G:O4'	2.05	0.57
25:DA:2720:U:C2	25:DA:2873:A:C2	2.92	0.57
28:DE:111:ARG:HD2	28:DE:160:TYR:CD1	2.39	0.57
38:DQ:3:ARG:HG3	38:DQ:4:LEU:N	2.19	0.57
39:DR:54:ARG:CG	39:DR:54:ARG:NH1	2.50	0.57
1:AA:791:G:H8	1:AA:791:G:O5'	1.86	0.57
1:AA:1450:U:O2'	1:AA:1451:A:C8	2.54	0.57
4:AG:162:LEU:HD12	4:AG:181:MET:HE2	1.84	0.57
9:AL:70:LYS:O	9:AL:74:ILE:HG13	2.05	0.57
11:AN:62:GLN:O	11:AN:66:LEU:HG	2.05	0.57
17:AT:88:TYR:CD2	17:AT:89:LEU:HD23	2.38	0.57
25:BA:153:C:O2'	25:BA:154:G:H5'	2.04	0.57
25:BA:246:C:H2'	25:BA:247:G:H5'	1.87	0.57
25:BA:528:A:N1	25:BA:2042:A:H2'	2.20	0.57
25:BA:581:C:H2'	25:BA:582:G:C8	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:795:C:H2'	25:BA:796:C:C6	2.40	0.57
25:BA:1310:G:OP2	53:B7:9:ARG:HD2	2.05	0.57
25:BA:1494:A:H2'	25:BA:1495:A:C8	2.39	0.57
25:BA:2393:A:O3'	35:BO:62:LEU:HA	2.03	0.57
27:BD:72:LYS:HB3	27:BD:75:ILE:HD12	1.85	0.57
28:BE:61:ARG:H	28:BE:62:PRO:CD	2.17	0.57
28:BE:119:ARG:HB3	28:BE:120:TRP:CD1	2.39	0.57
1:CA:791:G:C6	1:CA:792:A:N7	2.73	0.57
1:CA:1321:C:C4	1:CA:1322:C:C5	2.93	0.57
1:CA:1337:G:H5"	1:CA:1338:G:OP1	2.05	0.57
7:CJ:26:PHE:CD2	7:CJ:30:ILE:HD11	2.39	0.57
10:CM:61:GLU:OE1	14:CQ:58:LYS:HE2	2.05	0.57
11:CN:105:VAL:O	11:CN:105:VAL:HG23	2.04	0.57
22:CB:16:U:O4'	22:CB:70:G:N2	2.37	0.57
23:CC:38:A:H2'	23:CC:39:A:O4'	2.05	0.57
23:CD:22:A:H2'	23:CD:47:G:C6	2.38	0.57
25:DA:27:G:N2	25:DA:512:G:H1'	2.19	0.57
25:DA:375:C:H2'	25:DA:376:C:C6	2.40	0.57
25:DA:1534:G:H5'	25:DA:1535:U:OP2	2.04	0.57
25:DA:1810:A:H2'	25:DA:1811:G:O4'	2.05	0.57
30:DG:36:LYS:HE3	30:DG:38:VAL:CG2	2.34	0.57
31:DH:86:GLU:CD	31:DH:86:GLU:H	2.13	0.57
39:DR:56:GLY:C	39:DR:58:ASN:H	2.12	0.57
39:DR:74:ARG:HH11	39:DR:74:ARG:CG	1.97	0.57
44:DU:17:SER:HB2	44:DU:71:LYS:HE2	1.87	0.57
54:D8:24:ALA:O	54:D8:48:PHE:CE1	2.57	0.57
1:AA:599:C:H2'	1:AA:600:C:H6	1.68	0.57
1:AA:1084:G:C5	1:AA:1085:U:C4	2.93	0.57
4:AG:114:ARG:HH11	4:AG:114:ARG:HG3	1.69	0.57
14:AQ:22:THR:HB	14:AQ:33:VAL:HG11	1.87	0.57
25:BA:389:G:H22	35:BO:72:PRO:CD	2.17	0.57
25:BA:654(M):C:H2'	25:BA:654(N):G:H8	1.62	0.57
25:BA:1162:G:H21	41:B2:89:GLN:HE22	1.52	0.57
25:BA:1843:C:H5'	27:BD:253:GLN:OE1	2.04	0.57
25:BA:2001:A:H2'	25:BA:2002:G:C8	2.39	0.57
27:BD:236:GLY:O	27:BD:237:GLU:O	2.23	0.57
28:BE:1:MET:N	28:BE:1:MET:HE2	2.18	0.57
1:CA:745:C:H2'	1:CA:746:A:H8	1.70	0.57
1:CA:1122:U:O4	1:CA:1123:A:N6	2.36	0.57
9:CL:63:ILE:HD13	9:CL:77:ILE:HG23	1.86	0.57
20:CW:50:GLU:CD	20:CW:100:ILE:HG12	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:636:G:N7	35:DO:113:LYS:HE2	2.18	0.57
29:DF:82:ILE:C	29:DF:82:ILE:CD1	2.75	0.57
35:DO:61:ARG:HA	54:D8:27:THR:HG21	1.86	0.57
40:D1:97:ASP:OD2	40:D1:98:LEU:N	2.38	0.57
41:D2:6:LYS:H	41:D2:37:VAL:HG12	1.69	0.57
1:AA:560:U:H4'	1:AA:561:U:O5'	2.03	0.57
1:AA:1002:G:H2'	1:AA:1003:G:H8	1.69	0.57
1:AA:1269:A:H2	1:AA:1312:G:N3	2.02	0.57
1:AA:1309:G:C6	1:AA:1329:A:C2	2.93	0.57
10:AM:4:ILE:HD13	10:AM:100:THR:HG23	1.86	0.57
23:AC:63:C:O2	23:AC:63:C:H2'	2.05	0.57
25:BA:660:G:H21	35:BO:12:ALA:HA	1.69	0.57
25:BA:1085:A:H4'	25:BA:1086:A:OP1	2.03	0.57
25:BA:2701:C:C2'	25:BA:2702:U:OP1	2.53	0.57
28:BE:6:GLY:HA2	28:BE:51:PHE:CZ	2.40	0.57
32:BK:64:GLU:HG3	32:BK:67:ARG:NH2	2.20	0.57
35:BO:96:THR:C	35:BO:98:GLU:H	2.11	0.57
38:BQ:5:THR:OG1	38:BQ:8:GLU:HG3	2.05	0.57
40:B1:98:LEU:HD23	40:B1:98:LEU:C	2.30	0.57
48:BW:28:LYS:HD2	48:BW:56:GLN:NE2	2.20	0.57
1:CA:485:G:O2'	1:CA:486:U:C6	2.58	0.57
2:CE:24:TRP:CD1	2:CE:24:TRP:C	2.80	0.57
13:CP:39:ILE:HG22	13:CP:40:ASN:H	1.70	0.57
22:CB:40:G:H2'	22:CB:41:G:C8	2.40	0.57
22:CB:45:U:C2'	22:CB:46:G:H5"	2.35	0.57
25:DA:2270:G:C2'	25:DA:2271:G:H5'	2.34	0.57
29:DF:148:LEU:HD23	29:DF:191:ARG:NH1	2.19	0.57
31:DH:152:ARG:C	31:DH:154:PRO:HD2	2.28	0.57
44:DU:60:PHE:N	44:DU:60:PHE:CD2	2.72	0.57
1:AA:157:G:C2'	1:AA:158:G:H5'	2.34	0.57
1:AA:163:C:H2'	1:AA:164:U:C6	2.40	0.57
1:AA:619:U:O2	4:AG:135:LEU:HD22	2.05	0.57
1:AA:1091:U:H1'	1:AA:1095:U:O2	2.04	0.57
1:AA:1190:G:H5'	3:AF:176:HIS:CE1	2.40	0.57
5:AH:45:PHE:CD2	5:AH:47:LYS:HD2	2.39	0.57
22:AB:59:U:H4'	22:AB:60:A:H5'	1.86	0.57
25:BA:302:C:H2'	25:BA:303:U:C6	2.40	0.57
25:BA:747:U:OP2	51:B5:3:LYS:HD3	2.05	0.57
25:BA:768:G:O2'	25:BA:1379:A:N6	2.37	0.57
25:BA:1042:G:H2'	25:BA:1043:C:O4'	2.05	0.57
25:BA:1760:A:C2'	25:BA:1761:C:H5'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:12:SER:O	27:BD:16:MET:HB2	2.05	0.57
30:BG:105:LYS:HE3	30:BG:143:GLU:OE1	2.04	0.57
31:BH:40:GLU:OE1	31:BH:61:HIS:NE2	2.38	0.57
33:BM:28:THR:HG22	33:BM:29:LYS:N	2.19	0.57
34:BN:122:LEU:HD13	39:BR:72:VAL:HG11	1.87	0.57
36:BP:133:ARG:O	36:BP:134:ARG:HB2	2.04	0.57
1:CA:777:A:H2	11:CN:119:CYS:HB3	1.70	0.57
1:CA:957:U:H1'	1:CA:960:U:C5	2.39	0.57
1:CA:1037:C:H2'	1:CA:1038:C:C6	2.40	0.57
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.40	0.57
9:CL:5:TYR:OH	9:CL:16:ARG:HG2	2.05	0.57
9:CL:26:VAL:HG13	9:CL:61:ALA:HB3	1.87	0.57
9:CL:125:TYR:C	9:CL:125:TYR:CD2	2.83	0.57
19:CV:9:VAL:HG12	19:CV:10:PHE:H	1.70	0.57
22:CB:34:U:H2'	22:CB:36:A:OP2	2.04	0.57
23:CC:35:C:H2'	23:CC:35:C:O2	2.04	0.57
23:CC:62:C:C2	23:CC:63:C:C5	2.92	0.57
23:CD:52:C:N3	23:CD:64:G:N2	2.46	0.57
25:DA:672:C:H2'	25:DA:673:C:C5'	2.15	0.57
25:DA:959:A:C6	25:DA:960:A:N1	2.72	0.57
25:DA:2420:C:P	54:D8:34:TRP:HB3	2.45	0.57
25:DA:2657:A:O2'	31:DH:160:LYS:HE3	2.05	0.57
35:DO:101:VAL:HG23	35:DO:106:LEU:HB3	1.87	0.57
35:DO:146:VAL:HG22	35:DO:147:LEU:HD12	1.86	0.57
39:DR:18:ASP:OD1	39:DR:18:ASP:N	2.32	0.57
43:DT:50:LYS:H	43:DT:87:GLN:NE2	2.03	0.57
43:DT:67:GLY:C	43:DT:69:TYR:H	2.13	0.57
1:AA:1047:G:C2'	1:AA:1048:G:H5'	2.35	0.56
1:AA:1060:C:C5	3:AF:2:GLY:HA2	2.40	0.56
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.39	0.56
1:AA:1074:G:N3	1:AA:1102:A:C2	2.73	0.56
1:AA:1160:G:H22	1:AA:1177:G:H21	1.52	0.56
1:AA:1321:C:C5	1:AA:1322:C:C2	2.92	0.56
1:AA:1490:C:C2'	1:AA:1491:G:H5'	2.34	0.56
7:AJ:15:ASP:O	7:AJ:19:GLY:HA2	2.05	0.56
13:AP:23:TYR:HB3	13:AP:67:GLU:HA	1.87	0.56
17:AT:29:HIS:CE1	17:AT:32:TYR:CD1	2.93	0.56
22:AB:12:G:H1	22:AB:24:C:H42	1.53	0.56
25:BA:495:G:H1'	42:BS:57:ASN:ND2	2.20	0.56
25:BA:638:G:C5	25:BA:651:G:C2	2.92	0.56
25:BA:897:C:H2'	25:BA:898:C:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2287:A:N1	25:BA:2346:A:C2	2.73	0.56
25:BA:2427:C:H5"	25:BA:2428:G:OP1	2.06	0.56
28:BE:118:LYS:HG2	28:BE:118:LYS:O	2.06	0.56
32:BK:81:VAL:HG11	32:BK:88:ILE:HD13	1.87	0.56
41:B2:76:LYS:HG3	41:B2:81:TYR:CD1	2.39	0.56
1:CA:156:G:H1	1:CA:165:C:H42	1.53	0.56
1:CA:619:U:H3	4:CG:134:ASP:HB2	1.69	0.56
1:CA:818:G:O2'	1:CA:819:A:H5'	2.05	0.56
1:CA:984:C:H2'	1:CA:985:C:H6	1.69	0.56
3:CF:14:ILE:CG1	3:CF:15:THR:N	2.68	0.56
13:CP:84:ILE:HG21	19:CV:63:THR:HG21	1.86	0.56
14:CQ:13:THR:N	14:CQ:14:PRO:HD3	2.20	0.56
20:CW:10:LEU:C	20:CW:10:LEU:HD22	2.30	0.56
22:CB:18:G:H1	22:CB:71:U:H3	1.52	0.56
25:DA:99:U:H4'	25:DA:102:G:H1'	1.87	0.56
25:DA:185:U:H4'	25:DA:218:A:H4'	1.86	0.56
25:DA:571:A:H5'	25:DA:2030:A:N7	2.20	0.56
25:DA:1278:A:H5"	37:D0:36:THR:HG22	1.86	0.56
25:DA:2192:G:H2'	25:DA:2193:G:H5'	1.86	0.56
25:DA:2310:A:H5'	25:DA:2311:A:OP2	2.05	0.56
25:DA:2638:G:O2'	25:DA:2639:A:C8	2.58	0.56
28:DE:111:ARG:HD2	28:DE:160:TYR:CE1	2.40	0.56
29:DF:28:ILE:HD11	29:DF:119:ARG:HD3	1.86	0.56
30:DG:109:VAL:O	30:DG:113:ARG:HG3	2.05	0.56
30:DG:125:PHE:CE2	30:DG:131:TYR:HB2	2.40	0.56
31:DH:153:LYS:HB3	31:DH:161:GLY:HA2	1.87	0.56
36:DP:21:THR:HB	36:DP:99:PRO:O	2.05	0.56
36:DP:30:GLY:HA2	36:DP:107:ALA:HB2	1.88	0.56
36:DP:59:ARG:HH21	36:DP:59:ARG:CG	2.12	0.56
44:DU:84:ARG:NH2	44:DU:97:ARG:HB2	2.20	0.56
1:AA:686:U:H1'	11:AN:42:TRP:NE1	2.13	0.56
12:AO:116:SER:O	12:AO:120:TYR:HD1	1.87	0.56
32:BK:38:LEU:H	32:BK:38:LEU:HD12	1.70	0.56
32:BK:71:ILE:HG12	32:BK:71:ILE:O	2.06	0.56
33:BM:137:LYS:HG3	33:BM:138:LEU:N	2.15	0.56
42:BS:61:ASN:HB3	42:BS:62:HIS:ND1	2.19	0.56
52:B6:38:LYS:HG3	52:B6:47:THR:O	2.05	0.56
1:CA:1032:A:N7	1:CA:1032(A):G:H1'	2.20	0.56
1:CA:1071:C:O2'	1:CA:1072:G:H5'	2.06	0.56
1:CA:1085:U:H3'	1:CA:1086:U:C6	2.40	0.56
1:CA:1129:C:H4'	1:CA:1130:A:C5'	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1321:C:H4'	13:CP:87:TYR:CE2	2.39	0.56
2:CE:17:PHE:HE2	2:CE:44:LEU:HA	1.69	0.56
2:CE:97:TRP:CZ3	2:CE:98:LEU:O	2.57	0.56
4:CG:139:ARG:HH11	4:CG:139:ARG:HG3	1.70	0.56
6:CI:15:ASP:OD1	6:CI:15:ASP:C	2.49	0.56
12:CO:17:LYS:HD3	12:CO:18:VAL:H	1.70	0.56
18:CU:29:PHE:HD1	18:CU:39:VAL:HG11	1.70	0.56
23:CD:71:G:C2	23:CD:72:C:C6	2.94	0.56
25:DA:226:G:H21	25:DA:228:A:H61	0.57	0.56
25:DA:362:U:H3'	25:DA:362:U:H6	1.70	0.56
25:DA:1018:C:O2'	25:DA:1019:U:H5'	2.04	0.56
25:DA:1300:U:H4'	25:DA:1301:A:H5'	1.85	0.56
25:DA:2232:U:P	47:DZ:40:ARG:HH12	2.28	0.56
25:DA:2420:C:OP1	54:D8:34:TRP:CB	2.43	0.56
25:DA:2799:A:H2'	25:DA:2801:A:C4	2.39	0.56
28:DE:33:VAL:HA	28:DE:49:LEU:HA	1.86	0.56
30:DG:36:LYS:HB2	30:DG:95:ARG:NH1	2.19	0.56
30:DG:47:LYS:HG3	30:DG:86:MET:HE2	1.88	0.56
35:DO:55:ARG:O	35:DO:57:THR:N	2.38	0.56
35:DO:83:VAL:CG1	35:DO:112:LEU:HD21	2.35	0.56
36:DP:66:ILE:HA	36:DP:104:PHE:HA	1.87	0.56
36:DP:79:LEU:O	36:DP:81:VAL:HG13	2.05	0.56
38:DQ:14:VAL:HG21	38:DQ:89:ARG:HG2	1.86	0.56
44:DU:98:VAL:HG13	44:DU:99:CYS:N	2.20	0.56
45:DV:105:VAL:HG22	45:DV:106:GLY:N	2.17	0.56
1:AA:292:G:N7	1:AA:293:G:H1'	2.21	0.56
1:AA:342:C:H2'	1:AA:343:U:O4'	2.04	0.56
1:AA:652:U:O2'	1:AA:653:A:H5"	2.06	0.56
1:AA:928:G:O2'	1:AA:1533:C:OP1	2.23	0.56
1:AA:1004:A:O5'	1:AA:1025:U:N3	2.39	0.56
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.36	0.56
1:AA:1261:A:H1'	1:AA:1283:G:H5"	1.87	0.56
1:AA:1374:A:O2'	7:AJ:28:ASN:HB3	2.05	0.56
2:AE:146:GLN:O	2:AE:150:SER:HB3	2.05	0.56
4:AG:26:CYS:HA	4:AG:31:CYS:HA	1.88	0.56
6:AI:97:PHE:HD2	18:AU:31:LEU:HD21	1.69	0.56
12:AO:32:PHE:HE1	12:AO:86:ARG:HG3	1.70	0.56
16:AS:22:THR:HG23	16:AS:23:ASP:H	1.70	0.56
19:AV:53:ASN:O	19:AV:77:THR:HG22	2.06	0.56
23:AD:21:U:H3'	23:AD:22:A:H5"	1.88	0.56
25:BA:644:A:C2	25:BA:646:A:C4	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:813:U:H2'	25:BA:814:C:C6	2.40	0.56
25:BA:974(A):C:H4'	25:BA:975:G:C5'	2.35	0.56
25:BA:1085:A:H2	25:BA:1086:A:N7	2.02	0.56
25:BA:1354:A:OP1	27:BD:38:LYS:NZ	2.35	0.56
25:BA:1408:C:C2	25:BA:1595:G:N2	2.74	0.56
25:BA:1537:C:H2'	25:BA:1538:G:O4'	2.05	0.56
25:BA:1761:C:C4	25:BA:1762:A:N7	2.74	0.56
25:BA:1771:C:C1'	25:BA:1786:A:C8	2.88	0.56
25:BA:1830:C:O2'	25:BA:1831:G:H5'	2.05	0.56
25:BA:2112:G:O2'	25:BA:2113:U:O2	2.23	0.56
25:BA:2173:A:OP1	25:BA:2173:A:C8	2.59	0.56
25:BA:2319:G:OP2	25:BA:2319:G:H4'	2.04	0.56
28:BE:13:ARG:HH11	28:BE:13:ARG:CB	2.17	0.56
28:BE:38:THR:HB	28:BE:39:PRO:CD	2.22	0.56
28:BE:75:VAL:HG23	28:BE:76:ARG:N	2.16	0.56
29:BF:116:ASP:OD2	35:BO:1:MET:HB2	2.05	0.56
30:BG:82:LEU:C	30:BG:86:MET:HE1	2.30	0.56
30:BG:118:ARG:O	30:BG:181:ARG:HG3	2.05	0.56
33:BM:40:PRO:O	40:B1:64:ARG:HG2	2.06	0.56
35:BO:39:LYS:CG	35:BO:45:LEU:HD22	2.35	0.56
35:BO:55:ARG:O	35:BO:57:THR:N	2.38	0.56
37:B0:44:LEU:O	37:B0:48:VAL:HG23	2.05	0.56
37:B0:104:ARG:HG2	37:B0:104:ARG:NH1	2.21	0.56
41:B2:66:ARG:CZ	41:B2:88:ARG:HD3	2.34	0.56
45:BV:7:ALA:HB2	45:BV:59:LEU:CD1	2.32	0.56
45:BV:132:ASN:ND2	45:BV:132:ASN:H	2.02	0.56
49:BX:19:GLN:NE2	49:BX:52:HIS:HE1	2.02	0.56
52:B6:34:LEU:HD22	52:B6:34:LEU:H	1.70	0.56
1:CA:182:U:C5	1:CA:183:G:C4	2.92	0.56
1:CA:963:G:N2	10:CM:55:LYS:CD	2.65	0.56
1:CA:1127:G:O2'	1:CA:1128:C:H5'	2.06	0.56
1:CA:1244:C:OP2	21:CX:9:ARG:HG2	2.05	0.56
2:CE:5:ILE:HD11	2:CE:221:LEU:HD21	1.87	0.56
2:CE:8:LYS:O	2:CE:9:GLU:HB3	2.04	0.56
2:CE:178:ARG:HH22	2:CE:196:LEU:C	2.14	0.56
3:CF:8:ILE:HB	14:CQ:49:HIS:O	2.06	0.56
3:CF:181:ASN:HB3	3:CF:205:GLY:O	2.05	0.56
3:CF:184:TYR:HA	3:CF:200:ALA:O	2.05	0.56
5:CH:39:GLY:HA2	5:CH:113:ALA:O	2.06	0.56
10:CM:63:PHE:HD1	14:CQ:57:ARG:O	1.88	0.56
13:CP:7:VAL:O	13:CP:8:GLU:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CP:80:ARG:NH1	19:CV:66:MET:SD	2.78	0.56
14:CQ:29:ARG:O	14:CQ:30:ALA:HB3	2.05	0.56
19:CV:66:MET:HE1	50:D4:55:ARG:HB2	1.86	0.56
21:CX:5:ASP:O	21:CX:11:GLY:HA3	2.05	0.56
25:DA:300:A:H2'	25:DA:334:C:H1'	1.88	0.56
25:DA:445:C:O2'	25:DA:446:G:H5'	2.05	0.56
25:DA:848:G:H2'	25:DA:849:A:H8	1.67	0.56
25:DA:910:A:H62	36:DP:12:GLN:HA	1.69	0.56
25:DA:979:G:H3'	25:DA:980:A:C5'	2.35	0.56
25:DA:1045:A:O2'	25:DA:1047:G:O4'	2.23	0.56
25:DA:1257:C:C2'	29:DF:84:VAL:CG1	2.81	0.56
25:DA:2074:U:H2'	25:DA:2075:U:C6	2.41	0.56
25:DA:2233:U:H2'	25:DA:2234:G:C8	2.40	0.56
25:DA:2319:G:O6	38:DQ:4:LEU:HB3	2.05	0.56
25:DA:2335:A:HO2'	25:DA:2336:A:P	2.29	0.56
25:DA:2646:C:H2'	25:DA:2647:U:O4'	2.06	0.56
28:DE:55:ASN:C	28:DE:57:LYS:H	2.12	0.56
28:DE:120:TRP:CE3	28:DE:155:LYS:HD3	2.41	0.56
28:DE:134:ILE:HD12	28:DE:134:ILE:C	2.31	0.56
30:DG:15:VAL:HG13	30:DG:175:LEU:CB	2.35	0.56
32:DK:77:LEU:HG	32:DK:78:THR:N	2.20	0.56
37:D0:37:THR:HG22	37:D0:40:LYS:H	1.68	0.56
38:DQ:84:GLN:HA	38:DQ:110:LEU:H	1.70	0.56
39:DR:55:ASN:CG	39:DR:55:ASN:O	2.47	0.56
39:DR:127:ALA:O	39:DR:131:ALA:HB3	2.05	0.56
45:DV:129:SER:HB2	45:DV:131:ARG:HD3	1.86	0.56
54:D8:51:ALA:O	54:D8:52:LYS:C	2.49	0.56
18:AU:52:PRO:HB2	18:AU:54:ARG:HG2	1.87	0.56
22:AB:60:A:H5"	22:AB:61:C:OP2	2.05	0.56
25:BA:2:G:H2'	25:BA:3:U:C6	2.41	0.56
25:BA:444:C:H4'	29:BF:49:ALA:HB2	1.87	0.56
25:BA:883:G:C6	25:BA:884:C:O2	2.58	0.56
25:BA:1061:U:H4'	25:BA:1070:A:H1'	1.88	0.56
25:BA:1210:A:H8	25:BA:1210:A:C5'	2.19	0.56
25:BA:1668:A:H4'	25:BA:1669:A:O5'	2.05	0.56
25:BA:1771:C:O2'	25:BA:1786:A:H8	1.88	0.56
25:BA:2139:C:H2'	25:BA:2140:C:H5'	1.86	0.56
25:BA:2165:G:H2'	25:BA:2165:G:N3	2.19	0.56
25:BA:2610:C:C4'	25:BA:2611:U:OP2	2.51	0.56
25:BA:2751:G:O2'	25:BA:2752:C:O5'	2.23	0.56
38:BQ:14:VAL:HG11	38:BQ:90:GLY:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:110:LEU:HA	38:BQ:112:PHE:CZ	2.41	0.56
42:BS:89:ALA:O	42:BS:90:ARG:HB2	2.05	0.56
45:BV:110:GLY:O	45:BV:111:VAL:HG22	2.06	0.56
1:CA:986:A:H1'	19:CV:54:GLY:O	2.04	0.56
2:CE:85:ALA:HB3	2:CE:92:TYR:HD1	1.70	0.56
6:CI:24:GLU:HG2	6:CI:28:ARG:NH1	2.19	0.56
11:CN:66:LEU:HD22	11:CN:101:SER:HB3	1.87	0.56
13:CP:108:ARG:HD3	13:CP:114:ARG:HG2	1.86	0.56
14:CQ:36:PHE:HD1	14:CQ:37:PHE:CD2	2.22	0.56
18:CU:37:VAL:CG1	18:CU:78:LEU:HB3	2.35	0.56
25:DA:273(C):C:H5'	25:DA:273(D):C:OP2	2.06	0.56
25:DA:1666:G:C2'	25:DA:1667:G:H5'	2.34	0.56
25:DA:2543:G:H2'	25:DA:2544:G:C8	2.39	0.56
27:DD:30:GLU:CG	27:DD:63:ARG:HH21	2.18	0.56
29:DF:3:GLU:HA	29:DF:24:LEU:HD23	1.87	0.56
30:DG:67:LYS:HB3	50:D4:6:HIS:HD2	1.69	0.56
30:DG:173:LEU:O	30:DG:178:PHE:HB2	2.05	0.56
39:DR:57:PHE:HA	39:DR:79:HIS:ND1	2.21	0.56
43:DT:55:ASN:O	43:DT:79:ALA:HA	2.06	0.56
1:AA:811:C:H4'	1:AA:900:A:N6	2.21	0.56
1:AA:1141:C:O2'	1:AA:1142:G:H5'	2.04	0.56
1:AA:1351:U:O4'	7:AJ:33:ASP:HB3	2.05	0.56
4:AG:155:LEU:O	4:AG:157:LEU:N	2.39	0.56
5:AH:11:ILE:HD13	5:AH:11:ILE:H	1.71	0.56
13:AP:3:ARG:HG2	13:AP:9:ILE:HG13	1.87	0.56
15:AR:18:PHE:CE1	15:AR:21:ASP:HB2	2.40	0.56
16:AS:45:THR:HG22	16:AS:47:ASP:H	1.71	0.56
19:AV:41:VAL:HG12	19:AV:45:VAL:N	2.21	0.56
25:BA:34:C:HO2'	25:BA:35:G:P	2.23	0.56
25:BA:627:A:H4'	25:BA:628:G:OP1	2.06	0.56
25:BA:1385:G:O6	25:BA:1403:C:N4	2.38	0.56
25:BA:1761:C:N3	25:BA:1762:A:N6	2.52	0.56
25:BA:2751:G:O2'	25:BA:2752:C:P	2.64	0.56
27:BD:16:MET:HE3	27:BD:211:ARG:HD3	1.88	0.56
27:BD:35:LYS:CE	27:BD:64:ILE:C	2.78	0.56
28:BE:47:VAL:O	28:BE:48:GLN:C	2.49	0.56
28:BE:56:PRO:O	28:BE:57:LYS:CB	2.35	0.56
28:BE:78:LEU:HD12	28:BE:79:ARG:CG	2.34	0.56
45:BV:62:PRO:O	45:BV:63:ASP:CB	2.54	0.56
52:B6:14:THR:O	52:B6:49:HIS:HA	2.05	0.56
1:CA:186:C:H1'	20:CW:81:LYS:NZ	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:192:U:C4'	20:CW:103:GLY:HA3	2.35	0.56
1:CA:382:A:H2'	1:CA:383:A:H8	1.67	0.56
1:CA:673:G:O3'	6:CI:87:ARG:NH2	2.39	0.56
1:CA:1092:A:C2	1:CA:1183:A:C2	2.94	0.56
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.71	0.56
19:CV:78:ARG:HD3	19:CV:79:THR:N	2.19	0.56
20:CW:37:SER:O	20:CW:41:ILE:HG13	2.04	0.56
25:DA:2688:U:C5	25:DA:2720:U:OP2	2.57	0.56
26:DB:13:A:H2'	26:DB:70:C:O2'	2.05	0.56
31:DH:153:LYS:H	31:DH:154:PRO:HD2	1.68	0.56
43:DT:11:PRO:HB3	43:DT:92:LEU:HD21	1.87	0.56
45:DV:114:GLY:C	45:DV:116:VAL:H	2.13	0.56
53:D7:35:ARG:HG2	53:D7:42:LEU:HD11	1.87	0.56
2:AE:8:LYS:H	2:AE:8:LYS:HE2	1.71	0.56
11:AN:79:SER:CB	11:AN:106:LYS:HD2	2.35	0.56
23:AC:19:G:C4	23:AC:59:A:C2	2.94	0.56
25:BA:320:A:H2'	29:BF:136:THR:HG21	1.88	0.56
25:BA:1143:A:OP1	33:BM:25:ARG:NH2	2.37	0.56
25:BA:1869:G:H8	25:BA:1869:G:C5'	2.19	0.56
25:BA:2118:U:H5"	25:BA:2119:A:OP1	2.05	0.56
27:BD:25:THR:O	27:BD:26:LYS:C	2.47	0.56
27:BD:25:THR:OG1	27:BD:113:VAL:HG21	2.05	0.56
27:BD:28:GLU:HB3	27:BD:29:PRO:HD3	1.88	0.56
27:BD:70:TRP:HZ3	27:BD:146:GLU:OE2	1.89	0.56
28:BE:38:THR:HA	28:BE:44:TYR:O	2.06	0.56
29:BF:160:ASN:OD1	29:BF:163:VAL:HG23	2.06	0.56
42:BS:92:ARG:HD3	42:BS:93:ALA:H	1.69	0.56
45:BV:53:ILE:HA	45:BV:71:VAL:HG13	1.87	0.56
45:BV:128:VAL:CG2	45:BV:160:GLY:HA3	2.36	0.56
45:BV:157:LEU:HD11	45:BV:163:LEU:CD2	2.36	0.56
47:BZ:56:GLN:HG3	47:BZ:83:GLU:C	2.29	0.56
52:B6:27:LYS:HB2	52:B6:27:LYS:NZ	2.20	0.56
1:CA:577:G:C8	1:CA:816:A:C6	2.93	0.56
1:CA:973:G:O3'	14:CQ:41:ARG:NH2	2.32	0.56
1:CA:981:U:H5"	1:CA:982:U:O5'	2.06	0.56
1:CA:1160:G:N2	1:CA:1161:C:C6	2.74	0.56
1:CA:1275:A:H2'	1:CA:1276:G:O4'	2.05	0.56
7:CJ:95:ARG:HH21	7:CJ:99:LEU:HD11	1.71	0.56
8:CK:42:GLU:OE2	8:CK:122:ARG:NH2	2.39	0.56
23:CC:20:G:N2	23:CC:58:A:N3	2.53	0.56
25:DA:598:G:H1'	35:DO:12:ALA:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1181:C:O2'	25:DA:1182:A:H5'	2.06	0.56
25:DA:1544:C:O2	25:DA:1544:C:H2'	2.04	0.56
25:DA:2523:G:H5'	25:DA:2523:G:C8	2.40	0.56
32:DK:14:ASP:N	32:DK:17:GLN:OE1	2.34	0.56
35:DO:85:LEU:CA	35:DO:88:LEU:HB3	2.33	0.56
45:DV:108:PRO:CA	45:DV:143:GLY:N	2.68	0.56
45:DV:144:LEU:O	45:DV:144:LEU:CD1	2.47	0.56
1:AA:33:A:H2'	1:AA:34:C:C6	2.41	0.56
1:AA:192:U:C4'	20:AW:103:GLY:HA2	2.35	0.56
1:AA:983:A:H5"	1:AA:984:C:OP2	2.05	0.56
2:AE:8:LYS:HE3	2:AE:11:LEU:CB	2.32	0.56
5:AH:139:LEU:HA	5:AH:142:LEU:HD12	1.87	0.56
9:AL:48:GLU:N	9:AL:49:PRO:HD2	2.21	0.56
13:AP:84:ILE:CD1	19:AV:66:MET:HE2	2.35	0.56
23:AD:49:C:H6	23:AD:49:C:OP2	1.88	0.56
25:BA:259:G:N2	25:BA:621:A:C8	2.73	0.56
25:BA:482:A:H8	25:BA:482:A:OP2	1.89	0.56
25:BA:1813:G:H1'	27:BD:50:THR:OG1	2.05	0.56
30:BG:17:PRO:HA	30:BG:20:ILE:HG13	1.88	0.56
30:BG:166:ASP:HA	30:BG:169:ALA:CB	2.36	0.56
37:B0:55:ALA:HB2	37:B0:79:LEU:HD13	1.86	0.56
41:B2:44:LYS:C	41:B2:46:VAL:N	2.63	0.56
46:B3:11:ARG:O	46:B3:14:ARG:NH2	2.38	0.56
1:CA:1004:A:OP1	1:CA:1025:U:O4	2.23	0.56
1:CA:1015:A:C5	1:CA:1016:A:C5	2.94	0.56
4:CG:9:CYS:HA	4:CG:12:CYS:CB	2.36	0.56
4:CG:78:LEU:HD22	4:CG:96:LEU:HB3	1.86	0.56
10:CM:24:VAL:O	10:CM:28:ARG:HB2	2.06	0.56
16:CS:8:ARG:HH11	16:CS:8:ARG:HG3	1.67	0.56
25:DA:1000:A:C6	25:DA:1001:A:N1	2.73	0.56
27:DD:30:GLU:CG	27:DD:63:ARG:NH2	2.69	0.56
27:DD:70:TRP:CH2	27:DD:150:LYS:HA	2.40	0.56
28:DE:3:GLY:O	28:DE:4:ILE:HG23	2.05	0.56
28:DE:154:LYS:HE3	28:DE:154:LYS:HA	1.86	0.56
30:DG:101:ILE:HB	30:DG:105:LYS:NZ	2.19	0.56
34:DN:102:VAL:HB	34:DN:106:LEU:HD12	1.88	0.56
39:DR:107:ASP:OD1	39:DR:107:ASP:N	2.39	0.56
41:D2:28:GLU:HB3	41:D2:29:PRO:CD	2.35	0.56
45:DV:149:SER:CB	45:DV:172:ALA:O	2.54	0.56
51:D5:51:TYR:HB2	51:D5:54:GLY:HA3	1.88	0.56
1:AA:1004:A:O4'	1:AA:1025:U:N3	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.41	0.56
1:AA:1312:G:O2'	1:AA:1313:U:H5'	2.05	0.56
6:AI:67:MET:SD	6:AI:75:LEU:HD12	2.46	0.56
7:AJ:23:VAL:CG1	7:AJ:43:PHE:HE2	2.18	0.56
7:AJ:87:VAL:HG11	7:AJ:155:ARG:HA	1.88	0.56
9:AL:8:GLY:HA2	9:AL:79:LEU:HD13	1.87	0.56
11:AN:87:THR:HG22	11:AN:88:GLY:H	1.70	0.56
14:AQ:45:ARG:HH11	14:AQ:49:HIS:HE1	1.54	0.56
23:AD:67:C:N3	23:AD:68:C:N4	2.53	0.56
25:BA:637:A:O5'	35:BO:116:GLY:HA3	2.06	0.56
25:BA:805:G:OP2	35:BO:41:ARG:HG2	2.05	0.56
25:BA:1769:G:O2'	25:BA:1958:C:OP1	2.16	0.56
29:BF:32:LEU:HD12	29:BF:32:LEU:C	2.30	0.56
29:BF:185:ASP:HA	29:BF:188:ARG:HD3	1.86	0.56
31:BH:59:ARG:CG	31:BH:59:ARG:NH1	2.57	0.56
32:BK:9:LEU:O	32:BK:10:GLU:HB3	2.06	0.56
33:BM:35:ARG:O	33:BM:35:ARG:HG3	2.05	0.56
33:BM:97:ARG:HA	33:BM:100:GLU:HB2	1.88	0.56
34:BN:35:VAL:HG22	34:BN:69:ILE:HG12	1.87	0.56
38:BQ:106:ARG:NH1	38:BQ:106:ARG:HB2	2.20	0.56
41:B2:34:GLU:O	41:B2:36:PRO:HD3	2.05	0.56
41:B2:44:LYS:O	41:B2:46:VAL:N	2.39	0.56
1:CA:838:G:H2'	1:CA:841:U:H5'	1.87	0.56
1:CA:1127:G:H8	1:CA:1127:G:OP2	1.88	0.56
1:CA:1133:G:H1	1:CA:1141:C:N4	2.02	0.56
1:CA:1189:C:OP1	10:CM:51:ARG:NH2	2.33	0.56
1:CA:1320:C:OP1	19:CV:70:LYS:HE3	2.06	0.56
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.71	0.56
25:DA:877:U:H4'	25:DA:878:A:OP1	2.04	0.56
25:DA:1019:U:H2'	25:DA:1020:A:H8	1.71	0.56
25:DA:2387:U:H1'	46:D3:41:ARG:CD	2.36	0.56
25:DA:2808:U:H2'	25:DA:2809:A:H8	1.71	0.56
27:DD:235:GLY:O	27:DD:237:GLU:OE1	2.24	0.56
30:DG:60:LEU:O	30:DG:60:LEU:HD23	2.06	0.56
30:DG:145:THR:O	30:DG:146:TYR:HB3	2.06	0.56
33:DM:36:GLY:H	33:DM:42:TRP:HZ3	1.54	0.56
39:DR:107:ASP:OD2	39:DR:109:GLU:HB2	2.06	0.56
47:DZ:91:LYS:O	47:DZ:92:LYS:C	2.48	0.56
1:AA:201:C:N4	1:AA:209:U:O2	2.39	0.56
1:AA:943:U:C1'	9:AL:124:GLN:HE22	2.18	0.56
1:AA:1004:A:P	1:AA:1025:U:O4	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.84	0.56
1:AA:1329:A:N7	21:AX:7:ARG:NH2	2.54	0.56
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.06	0.56
15:AR:56:LEU:HD21	25:BA:715:G:C2	2.41	0.56
19:AV:41:VAL:CG1	19:AV:44:MET:HB2	2.36	0.56
19:AV:68:GLY:HA2	50:B4:59:PHE:CD1	2.41	0.56
22:AB:27:G:O6	22:AB:45:U:C2	2.59	0.56
23:AD:13:C:HO2'	23:AD:14:A:P	2.29	0.56
25:BA:242:G:H5"	54:B8:62:LEU:HD13	1.88	0.56
25:BA:305:U:H2'	25:BA:306:U:C6	2.40	0.56
25:BA:581:C:OP1	40:B1:33:ARG:HG3	2.06	0.56
25:BA:956:G:OP2	36:BP:14:ARG:NH2	2.39	0.56
25:BA:1060:U:H5'	25:BA:1061:U:H5	1.71	0.56
25:BA:1216:G:OP2	40:B1:12:ARG:NH2	2.37	0.56
25:BA:1794:U:H2'	25:BA:1795:C:H6	1.69	0.56
25:BA:2119:A:N6	25:BA:2170:A:N6	2.52	0.56
25:BA:2131:G:OP1	25:BA:2132:U:H3'	2.06	0.56
28:BE:27:LEU:CD2	28:BE:51:PHE:HZ	2.19	0.56
28:BE:55:ASN:HD22	28:BE:59:VAL:HG23	1.71	0.56
30:BG:113:ARG:HH21	50:B4:34:GLU:HB3	1.71	0.56
33:BM:120:LEU:HD22	33:BM:121:LYS:N	2.20	0.56
39:BR:78:LEU:HD13	39:BR:78:LEU:O	2.05	0.56
39:BR:107:ASP:H	39:BR:110:ILE:CG2	2.19	0.56
41:B2:76:LYS:O	41:B2:79:VAL:HG12	2.06	0.56
1:CA:570:G:H1'	1:CA:820:U:C4	2.40	0.56
1:CA:920:U:H2'	1:CA:921:U:H6	1.70	0.56
11:CN:109:VAL:HG22	18:CU:86:VAL:HG13	1.87	0.56
19:CV:68:GLY:HA3	50:D4:59:PHE:HE1	1.70	0.56
22:CB:61:C:H42	22:CB:75:G:H1	1.53	0.56
22:CB:70:G:H3'	22:CB:71:U:C5	2.40	0.56
25:DA:176:G:O2'	25:DA:177:G:H5'	2.06	0.56
25:DA:529:A:N3	25:DA:529:A:H2'	2.21	0.56
25:DA:1794:U:O2'	25:DA:1795:C:H5'	2.06	0.56
25:DA:2037:G:H2'	25:DA:2038:G:C8	2.41	0.56
25:DA:2111:C:C2	25:DA:2118:U:O2'	2.57	0.56
44:DU:39:VAL:HG23	44:DU:40:GLU:N	2.19	0.56
45:DV:8:TYR:HA	45:DV:62:PRO:HD3	1.87	0.56
53:D7:5:TRP:NE1	53:D7:7:PRO:HG3	2.20	0.56
1:AA:96:G:C2'	1:AA:97:U:H5'	2.36	0.56
1:AA:636:U:H2'	1:AA:637:G:C8	2.40	0.56
1:AA:1238:A:N3	1:AA:1241:G:O2'	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1392:G:O2'	1:AA:1502:A:H5"	2.06	0.56
3:AF:40:ARG:HG3	3:AF:40:ARG:NH1	2.21	0.56
3:AF:95:THR:HG22	3:AF:96:GLY:N	2.21	0.56
6:AI:44:GLY:O	6:AI:59:TYR:HA	2.04	0.56
6:AI:61:LEU:HB3	6:AI:63:TYR:HE2	1.69	0.56
12:AO:53:ARG:HG3	12:AO:53:ARG:HH11	1.71	0.56
15:AR:27:VAL:O	15:AR:31:LEU:HB2	2.06	0.56
25:BA:475:U:C4	25:BA:481:G:O6	2.59	0.56
25:BA:517:C:OP1	51:B5:16:ARG:NH2	2.39	0.56
25:BA:753:C:O5'	25:BA:753:C:H6	1.88	0.56
25:BA:2593:U:H2'	25:BA:2594:C:C6	2.41	0.56
25:BA:2790:A:C2	25:BA:2894:G:H5"	2.41	0.56
30:BG:61:ALA:HA	30:BG:66:GLN:O	2.06	0.56
30:BG:133:LEU:O	30:BG:133:LEU:HD23	2.06	0.56
31:BH:15:VAL:HG12	31:BH:29:PRO:HD2	1.88	0.56
35:BO:91:PHE:O	35:BO:121:LYS:NZ	2.32	0.56
50:B4:13:ARG:H	50:B4:30:GLU:H	1.54	0.56
1:CA:411:A:H62	1:CA:413:G:H21	1.54	0.56
1:CA:656:C:H42	1:CA:750:G:H1	1.53	0.56
2:CE:5:ILE:O	2:CE:5:ILE:HG23	2.05	0.56
2:CE:98:LEU:O	2:CE:101:MET:HG2	2.06	0.56
3:CF:68:VAL:HG12	3:CF:70:VAL:HG23	1.87	0.56
12:CO:26:ALA:O	12:CO:27:LEU:CD1	2.53	0.56
22:CB:26:C:C5	22:CB:27:G:N2	2.73	0.56
23:CD:7:G:C3'	23:CD:8:U:H5'	2.35	0.56
25:DA:288:C:H2'	25:DA:288:C:O2	2.06	0.56
25:DA:528:A:C2	25:DA:2043:C:C5'	2.85	0.56
25:DA:2068:U:N3	25:DA:2430:A:C2	2.60	0.56
25:DA:2191:G:O2'	25:DA:2192:G:P	2.63	0.56
25:DA:2307:G:O2'	25:DA:2308:G:C8	2.58	0.56
25:DA:2355:C:H5'	46:D3:36:ILE:CD1	2.36	0.56
25:DA:2527:C:C4	25:DA:2528:U:C5	2.94	0.56
26:DB:7:G:H3'	26:DB:8:U:H5"	1.88	0.56
32:DK:82:ARG:NH1	32:DK:146:ALA:HA	2.21	0.56
36:DP:58:PHE:C	36:DP:60:ARG:H	2.13	0.56
36:DP:63:LYS:HB3	36:DP:107:ALA:O	2.05	0.56
38:DQ:60:GLY:O	38:DQ:61:ASN:HB2	2.05	0.56
44:DU:47:LYS:HG2	44:DU:60:PHE:HD1	1.71	0.56
1:AA:832:C:O2	1:AA:855:G:C2	2.58	0.55
1:AA:1149:C:OP2	9:AL:9:ARG:NH2	2.39	0.55
1:AA:1305:G:H5"	21:AX:4:GLY:C	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1339:A:H2'	1:AA:1340:A:O4'	2.06	0.55
11:AN:66:LEU:CD2	11:AN:97:ALA:HB1	2.35	0.55
25:BA:270(M):U:H1'	25:BA:270(N):G:C5	2.41	0.55
25:BA:546:C:H6	25:BA:546:C:OP1	1.89	0.55
25:BA:852:G:H2'	25:BA:853:G:H8	1.70	0.55
25:BA:1396:U:H2'	25:BA:1396:U:O2	2.05	0.55
26:BB:42:C:O2	30:BG:93:THR:N	2.34	0.55
27:BD:17:THR:CG2	27:BD:204:ILE:HA	2.37	0.55
27:BD:44:ASN:ND2	27:BD:44:ASN:H	2.04	0.55
27:BD:124:PRO:HG2	27:BD:129:ASN:ND2	2.21	0.55
31:BH:43:VAL:HG12	31:BH:52:VAL:HG22	1.89	0.55
32:BK:110:ASP:HB3	32:BK:111:PRO:C	2.30	0.55
34:BN:4:PRO:O	34:BN:5:GLN:HB2	2.05	0.55
39:BR:52:ILE:CD1	39:BR:61:PHE:HB3	2.26	0.55
41:B2:43:GLU:OE2	41:B2:43:GLU:HA	2.05	0.55
45:BV:152:ALA:O	45:BV:155:LEU:HB2	2.06	0.55
52:B6:10:LEU:HD23	54:B8:34:TRP:CE2	2.40	0.55
1:CA:16:A:N1	1:CA:919:A:H2	2.04	0.55
1:CA:35:G:C2	1:CA:550:G:N3	2.75	0.55
1:CA:892:A:O2'	1:CA:1415:G:H4'	2.06	0.55
5:CH:75:THR:HG23	5:CH:76:ILE:N	2.21	0.55
25:DA:673:C:H6	25:DA:673:C:C5'	2.18	0.55
25:DA:994:C:OP1	40:D1:53:ARG:NH2	2.39	0.55
25:DA:1358:G:N2	25:DA:1372:U:C5	2.74	0.55
25:DA:2470:G:OP2	36:DP:56:ARG:CZ	2.54	0.55
25:DA:2547:U:O2'	25:DA:2548:G:H5'	2.06	0.55
27:DD:268:ARG:HH11	27:DD:268:ARG:HG2	1.72	0.55
28:DE:51:PHE:O	28:DE:74:PRO:HB3	2.06	0.55
29:DF:148:LEU:HD23	29:DF:191:ARG:HH12	1.70	0.55
37:D0:87:TYR:HD1	37:D0:90:ARG:HD2	1.70	0.55
38:DQ:110:LEU:HD22	38:DQ:111:GLU:N	2.21	0.55
52:D6:14:THR:OG1	52:D6:19:ARG:HG2	2.06	0.55
1:AA:74:C:H2'	1:AA:75:C:O4'	2.05	0.55
1:AA:368:U:P	32:DK:91:SER:HG	2.29	0.55
1:AA:793:U:H3'	1:AA:794:A:H5"	1.89	0.55
1:AA:989:C:H42	1:AA:1216:G:H1	1.53	0.55
1:AA:1077:G:N1	1:AA:1081:G:C6	2.75	0.55
1:AA:1106:G:C5	1:AA:1107:C:C5	2.94	0.55
1:AA:1293:G:H2'	1:AA:1294:G:O4'	2.05	0.55
22:AB:52:U:C6	22:AB:53:A:C8	2.95	0.55
22:AB:55:G:H2'	22:AB:56:G:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:55:U:C4	23:AD:56:U:C5	2.94	0.55
23:AD:71:G:O2'	23:AD:72:C:H5'	2.06	0.55
25:BA:270(Y):G:C2	25:BA:270(Z):U:O4	2.60	0.55
25:BA:1069:A:H4'	25:BA:1070:A:C5'	2.36	0.55
25:BA:1409:C:O2'	25:BA:1410:G:H5'	2.05	0.55
25:BA:1496:A:H2'	25:BA:1577:C:O2'	2.06	0.55
25:BA:2795:G:H3'	25:BA:2797:U:H5"	1.88	0.55
25:BA:2875:C:O2'	39:BR:5:ALA:HB3	2.06	0.55
27:BD:148:GLU:CB	27:BD:151:LYS:HD2	2.37	0.55
28:BE:203:LYS:O	28:BE:203:LYS:HD2	2.07	0.55
35:BO:101:VAL:HG22	35:BO:106:LEU:HB3	1.86	0.55
37:B0:33:ARG:NH2	51:B5:55:ARG:HG2	2.21	0.55
39:BR:112:ARG:O	39:BR:112:ARG:HG3	2.06	0.55
44:BU:76:CYS:CB	44:BU:96:ILE:HD13	2.36	0.55
1:CA:517:G:N2	1:CA:530:G:OP1	2.29	0.55
1:CA:954:G:H2'	1:CA:955:U:C6	2.42	0.55
1:CA:1206:G:C6	1:CA:1207:G:C5	2.94	0.55
1:CA:1346:A:C1'	1:CA:1347:G:OP2	2.54	0.55
4:CG:13:ARG:C	4:CG:15:GLU:N	2.51	0.55
5:CH:57:LYS:O	5:CH:61:TYR:HD2	1.88	0.55
6:CI:33:TYR:CZ	6:CI:78:GLU:HG3	2.40	0.55
7:CJ:26:PHE:CE2	7:CJ:30:ILE:HD11	2.42	0.55
25:DA:101:G:C2'	25:DA:102:G:OP1	2.55	0.55
25:DA:1476:C:C2'	25:DA:1477:A:H5'	2.36	0.55
25:DA:1728:G:C2	25:DA:1730:U:OP2	2.59	0.55
25:DA:2148:G:H2'	25:DA:2149:G:C8	2.41	0.55
25:DA:2494:G:H2'	25:DA:2495:G:H8	1.71	0.55
29:DF:125:LEU:HD23	29:DF:125:LEU:H	1.71	0.55
32:DK:77:LEU:CG	32:DK:78:THR:H	2.19	0.55
33:DM:90:MET:HE2	33:DM:90:MET:HA	1.89	0.55
34:DN:101:PRO:HG3	39:DR:67:SER:OG	2.06	0.55
1:AA:250:A:C4'	1:AA:251:G:H5"	2.37	0.55
1:AA:258:G:H2'	1:AA:259:G:H8	1.72	0.55
1:AA:542:G:H5'	4:AG:41:GLY:HA3	1.88	0.55
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.41	0.55
9:AL:4:TYR:CD1	9:AL:88:TYR:HB2	2.42	0.55
9:AL:99:LEU:HB3	9:AL:101:PHE:CE1	2.41	0.55
11:AN:41:THR:HG21	11:AN:71:LYS:HB2	1.88	0.55
16:AS:20:VAL:HG22	16:AS:32:TYR:CG	2.37	0.55
16:AS:58:TYR:C	16:AS:58:TYR:HD1	2.15	0.55
17:AT:7:THR:OG1	17:AT:58:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AB:52:U:C2'	22:AB:53:A:H5'	2.36	0.55
23:AC:20:G:C6	23:AC:58:A:C2	2.95	0.55
23:AD:5:G:H22	23:AD:69:C:N4	2.04	0.55
25:BA:756:C:H2'	25:BA:757:U:O5'	2.06	0.55
25:BA:1239:G:H2'	25:BA:1240:U:O4'	2.06	0.55
25:BA:1694:C:H5'	25:BA:1694:C:H6	1.71	0.55
25:BA:1805:U:O2	27:BD:50:THR:HB	2.06	0.55
25:BA:2574:G:O2'	28:BE:143:ASN:HB3	2.06	0.55
25:BA:2734:A:H8	25:BA:2734:A:C5'	2.19	0.55
27:BD:125:ILE:HG22	27:BD:125:ILE:O	2.06	0.55
30:BG:27:ASN:HB3	30:BG:30:GLU:HG3	1.89	0.55
40:B1:60:LEU:HD21	40:B1:64:ARG:HH21	1.70	0.55
2:CE:19:HIS:HD2	2:CE:20:GLU:OE1	1.90	0.55
7:CJ:73:MET:HE2	7:CJ:90:GLU:HG3	1.87	0.55
8:CK:111:ILE:HG22	8:CK:112:LEU:H	1.71	0.55
12:CO:26:ALA:O	12:CO:27:LEU:HD13	2.06	0.55
13:CP:25:ILE:HG22	13:CP:26:GLY:N	2.20	0.55
14:CQ:45:ARG:O	14:CQ:49:HIS:HD2	1.89	0.55
19:CV:28:LYS:HE3	19:CV:29:ARG:N	2.19	0.55
25:DA:39:C:H2'	25:DA:40:C:H6	1.71	0.55
25:DA:228:A:C8	25:DA:228:A:C3'	2.89	0.55
25:DA:270(Y):G:C2	25:DA:270(Z):U:O4	2.59	0.55
25:DA:1048:A:H5'	25:DA:1049:C:OP2	2.07	0.55
25:DA:1499:C:H2'	25:DA:1500:G:H8	1.71	0.55
25:DA:1543:A:H1'	25:DA:1545:A:H1'	1.89	0.55
25:DA:2157:G:H2'	25:DA:2158:A:H8	1.72	0.55
25:DA:2483:C:H5'	25:DA:2484:G:OP2	2.06	0.55
28:DE:87:GLU:O	28:DE:87:GLU:HG3	2.06	0.55
30:DG:53:LEU:HD21	30:DG:90:LEU:HD11	1.87	0.55
34:DN:10:VAL:HG21	34:DN:16:ALA:O	2.06	0.55
44:DU:50:ARG:O	44:DU:53:PRO:HD3	2.05	0.55
45:DV:157:LEU:HD11	45:DV:163:LEU:HD23	1.89	0.55
54:D8:52:LYS:C	54:D8:54:GLU:H	2.15	0.55
1:AA:1054:C:O2	1:AA:1054:C:H2'	2.07	0.55
2:AE:120:ALA:O	2:AE:121:LEU:CB	2.52	0.55
7:AJ:23:VAL:CG1	7:AJ:43:PHE:CE2	2.89	0.55
12:AO:40:VAL:CG2	12:AO:78:GLN:O	2.54	0.55
15:AR:38:ARG:HH11	15:AR:38:ARG:HG2	1.72	0.55
15:AR:87:ILE:HG22	15:AR:88:ARG:HG2	1.87	0.55
20:AW:100:ILE:CG1	20:AW:101:GLY:N	2.69	0.55
22:AB:16:U:OP2	22:AB:16:U:H2'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:176:G:O2'	25:BA:177:G:H5'	2.06	0.55
25:BA:229:A:HO2'	25:BA:230:U:P	2.29	0.55
25:BA:603:A:H4'	25:BA:604:G:O5'	2.06	0.55
25:BA:645:C:H2'	25:BA:646:A:OP1	2.06	0.55
25:BA:787:U:H5"	25:BA:788:A:H5'	1.88	0.55
25:BA:1024:G:C3'	25:BA:1025:G:H5"	2.31	0.55
25:BA:1257:C:H4'	29:BF:83:PHE:CD2	2.41	0.55
25:BA:2373:G:N2	25:BA:2380:C:N3	2.49	0.55
25:BA:2723:C:OP1	37:B0:3:HIS:CD2	2.54	0.55
30:BG:107:LEU:HD11	30:BG:178:PHE:CD1	2.41	0.55
39:BR:45:PHE:CE1	39:BR:65:LYS:HE3	2.41	0.55
42:BS:64:MET:O	42:BS:65:LEU:HB2	2.07	0.55
1:CA:186:C:H1'	20:CW:81:LYS:HZ3	1.71	0.55
1:CA:1004:A:O4'	1:CA:1025:U:N3	2.38	0.55
1:CA:1077:G:N1	1:CA:1081:G:C6	2.75	0.55
1:CA:1298:C:N4	7:CJ:114:ARG:HB3	2.15	0.55
2:CE:137:ARG:O	2:CE:137:ARG:HD3	2.06	0.55
4:CG:162:LEU:HD12	4:CG:181:MET:HE2	1.89	0.55
20:CW:33:ILE:HD13	20:CW:62:LEU:HB3	1.88	0.55
23:CC:48:U:H1'	23:CC:49:C:O5'	2.06	0.55
23:CD:44:A:C2	23:CD:45:A:C6	2.93	0.55
25:DA:847:U:C4	25:DA:933:A:C6	2.90	0.55
25:DA:996:A:C2	25:DA:997:G:C8	2.95	0.55
25:DA:1314:C:C2	25:DA:1339:G:N2	2.74	0.55
25:DA:2860:A:N7	25:DA:2861:G:H1'	2.21	0.55
26:DB:116:G:H2'	26:DB:117:G:O4'	2.07	0.55
27:DD:35:LYS:HA	27:DD:64:ILE:CG2	2.33	0.55
48:DW:15:LYS:HA	48:DW:67:LYS:HZ1	1.71	0.55
1:AA:1320:C:OP1	19:AV:70:LYS:HE3	2.05	0.55
1:AA:1362(A):C:H5'	1:AA:1363:A:O5'	2.06	0.55
10:AM:15:THR:O	10:AM:19:SER:N	2.38	0.55
25:BA:213:A:H2'	25:BA:214:G:O4'	2.05	0.55
25:BA:234:C:H2'	25:BA:235:U:C6	2.41	0.55
25:BA:1291:C:H5'	25:BA:1536:A:H5'	1.87	0.55
25:BA:1473:G:H2'	25:BA:1474:C:H5'	1.89	0.55
25:BA:2310:A:O2'	25:BA:2311:A:C5'	2.51	0.55
25:BA:2712:U:O2	25:BA:2712:U:C5'	2.51	0.55
30:BG:129:GLY:HA2	30:BG:166:ASP:HB3	1.87	0.55
39:BR:85:LYS:HE3	39:BR:87:ASP:OD2	2.07	0.55
1:CA:20:U:C2'	1:CA:21:G:H5'	2.35	0.55
1:CA:192:U:H2'	1:CA:193:C:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1311:G:N2	1:CA:1327:C:C2	2.74	0.55
1:CA:1367:C:H5"	9:CL:114:TYR:HB3	1.87	0.55
9:CL:48:GLU:N	9:CL:49:PRO:HD2	2.21	0.55
20:CW:25:ARG:HG3	20:CW:25:ARG:NH1	2.19	0.55
23:CC:15:G:H2'	23:CC:60:A:N1	2.22	0.55
25:DA:755:C:H2'	25:DA:756:C:C6	2.41	0.55
25:DA:824:A:H1'	25:DA:2358:G:N7	2.22	0.55
25:DA:888:C:H4'	25:DA:889:C:O5'	2.03	0.55
25:DA:2473:U:O2	25:DA:2473:U:C2'	2.54	0.55
25:DA:2475:C:H5'	25:DA:2476:A:OP2	2.05	0.55
27:DD:34:VAL:O	27:DD:34:VAL:CG1	2.55	0.55
28:DE:9:VAL:HG12	39:DR:1:MET:HE1	1.88	0.55
31:DH:89:ILE:HG21	31:DH:129:THR:HA	1.88	0.55
39:DR:74:ARG:HD3	39:DR:76:PHE:CZ	2.42	0.55
49:DX:17:LYS:O	49:DX:17:LYS:HD3	2.07	0.55
50:D4:50:VAL:O	50:D4:51:ASP:CG	2.50	0.55
1:AA:1156:G:C3'	1:AA:1157:A:H5"	2.37	0.55
3:AF:141:VAL:HG12	3:AF:141:VAL:O	2.05	0.55
8:AK:27:PRO:HG3	8:AK:58:TYR:CE2	2.42	0.55
14:AQ:58:LYS:NZ	14:AQ:58:LYS:HB3	2.21	0.55
25:BA:1952:A:C5	34:BN:22:ILE:HD11	2.41	0.55
25:BA:2275:C:O2	36:BP:83:MET:HG2	2.07	0.55
25:BA:2292:C:OP2	38:BQ:17:ARG:NH2	2.38	0.55
25:BA:2511:U:O4	25:BA:2575:C:N3	2.39	0.55
27:BD:28:GLU:O	27:BD:29:PRO:C	2.49	0.55
37:B0:21:TYR:OH	37:B0:43:GLU:HG2	2.06	0.55
41:B2:64:HIS:ND1	41:B2:92:THR:HG22	2.21	0.55
43:BT:36:LYS:HE2	43:BT:54:VAL:O	2.05	0.55
43:BT:49:VAL:HG12	43:BT:50:LYS:H	1.68	0.55
46:B3:53:MET:HA	46:B3:58:THR:O	2.06	0.55
50:B4:61:ARG:HA	50:B4:61:ARG:HE	1.70	0.55
52:B6:15:GLU:OE2	52:B6:44:ARG:NH1	2.39	0.55
1:CA:8:A:C6	4:CG:209:ARG:HB2	2.41	0.55
1:CA:668:G:O2'	1:CA:669:U:H5'	2.07	0.55
1:CA:963:G:N3	10:CM:55:LYS:NZ	2.50	0.55
1:CA:1250:A:H4'	9:CL:68:GLY:N	2.21	0.55
1:CA:1387:G:H2'	1:CA:1388:C:H6	1.71	0.55
2:CE:84:GLU:HB3	2:CE:219:VAL:HG11	1.89	0.55
4:CG:13:ARG:HD3	4:CG:13:ARG:N	2.21	0.55
6:CI:96:PRO:HB3	18:CU:30:ASP:CG	2.32	0.55
7:CJ:23:VAL:O	7:CJ:27:ILE:HG13	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:85:LEU:HD13	9:CL:92:TYR:CD2	2.40	0.55
23:CD:15:G:N2	23:CD:60:A:H1'	2.21	0.55
25:DA:288:C:H2'	25:DA:289:A:C8	2.42	0.55
25:DA:330:A:HO2'	25:DA:331:A:H8	1.54	0.55
25:DA:756:C:C2'	25:DA:757:U:H5'	2.37	0.55
25:DA:1774:C:H4'	25:DA:1979:C:O2	2.07	0.55
25:DA:2127:G:N2	25:DA:2173:A:C8	2.74	0.55
25:DA:2371:G:H4'	52:D6:45:LYS:CE	2.35	0.55
32:DK:143:SER:O	32:DK:144:VAL:HB	2.06	0.55
37:D0:23:ASN:N	37:D0:23:ASN:HD22	2.03	0.55
45:DV:168:GLU:HG3	45:DV:169:GLU:N	2.21	0.55
49:DX:52:HIS:H	49:DX:52:HIS:CD2	2.24	0.55
1:AA:985:C:C2	1:AA:1221:G:N2	2.75	0.55
1:AA:1278:U:H5'	1:AA:1279:A:O4'	2.06	0.55
2:AE:82:ARG:HG2	2:AE:92:TYR:CZ	2.42	0.55
3:AF:84:ILE:O	3:AF:88:ARG:HG3	2.07	0.55
16:AS:58:TYR:C	16:AS:58:TYR:CD1	2.84	0.55
21:AX:15:ARG:HG2	21:AX:15:ARG:NH1	1.99	0.55
22:AB:45:U:H6	22:AB:45:U:H3'	1.71	0.55
25:BA:1111:A:O2'	25:BA:1112:G:H4'	2.06	0.55
25:BA:1430:C:H2'	25:BA:1431:U:C6	2.42	0.55
25:BA:1798:U:C5'	27:BD:259:THR:HG22	2.27	0.55
26:BB:32:C:C2	26:BB:51:G:N2	2.75	0.55
27:BD:108:PRO:HD2	27:BD:111:LEU:HG	1.88	0.55
36:BP:78:PRO:C	36:BP:79:LEU:HD12	2.31	0.55
50:B4:50:VAL:HG12	50:B4:50:VAL:O	2.06	0.55
52:B6:39:TYR:O	52:B6:47:THR:N	2.39	0.55
52:B6:40:CYS:SG	52:B6:45:LYS:HE2	2.47	0.55
1:CA:396:G:O2'	1:CA:398:C:OP1	2.17	0.55
1:CA:792:A:H4'	1:CA:793:U:O5'	2.07	0.55
1:CA:979:C:C5	1:CA:980:C:C6	2.95	0.55
7:CJ:69:VAL:HG12	7:CJ:69:VAL:O	2.06	0.55
7:CJ:72:ARG:NH2	7:CJ:96:GLN:HE22	2.05	0.55
8:CK:1:MET:HE3	8:CK:3:THR:HG23	1.89	0.55
19:CV:23:ASN:HA	19:CV:27:GLU:CG	2.36	0.55
19:CV:31:ILE:CG2	19:CV:33:THR:HG22	2.37	0.55
25:DA:107:C:H2'	25:DA:108:U:H6	1.72	0.55
25:DA:244:A:C2	25:DA:255:A:C4	2.95	0.55
25:DA:1520:U:H2'	25:DA:1521:G:O4'	2.06	0.55
28:DE:29:GLY:H	28:DE:51:PHE:HE1	1.53	0.55
28:DE:38:THR:O	28:DE:42:ASP:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:50:GLY:O	28:DE:51:PHE:HB2	2.07	0.55
28:DE:62:PRO:C	28:DE:64:LYS:N	2.63	0.55
38:DQ:34:HIS:ND1	38:DQ:53:SER:HB3	2.22	0.55
38:DQ:108:GLY:O	38:DQ:110:LEU:HB3	2.07	0.55
54:D8:33:ASN:C	54:D8:34:TRP:HD1	2.15	0.55
1:AA:171:A:N6	1:AA:172:A:N6	2.54	0.55
1:AA:475:G:H2'	1:AA:476:G:O4'	2.07	0.55
12:AO:6:THR:N	12:AO:9:GLN:HE21	2.02	0.55
21:AX:12:LYS:HB3	21:AX:22:ARG:HD2	1.89	0.55
25:BA:1169:G:N2	25:BA:1181:C:C2	2.74	0.55
25:BA:1533:C:H42	25:BA:1538:G:H1	1.55	0.55
25:BA:2404:C:O3'	35:BO:77:ARG:NH2	2.39	0.55
25:BA:2593:U:H2'	25:BA:2594:C:H6	1.70	0.55
25:BA:2648:C:H2'	25:BA:2649:U:C6	2.41	0.55
27:BD:71:ASP:HB3	27:BD:103:ARG:NH2	2.21	0.55
31:BH:152:ARG:NH2	31:BH:153:LYS:HE2	2.22	0.55
32:BK:5:LEU:HD22	32:BK:9:LEU:HD21	1.89	0.55
34:BN:90:GLN:O	34:BN:91:LEU:HB2	2.07	0.55
40:B1:92:ARG:C	40:B1:94:ASN:N	2.64	0.55
46:B3:51:VAL:HG21	46:B3:79:VAL:HG12	1.87	0.55
1:CA:93:U:H2'	1:CA:95:G:H5"	1.89	0.55
1:CA:1301:U:H2'	1:CA:1301:U:O2	2.05	0.55
3:CF:16:ARG:HH11	3:CF:16:ARG:HA	1.72	0.55
5:CH:135:THR:O	5:CH:138:ALA:HB3	2.07	0.55
6:CI:69:GLU:O	6:CI:72:VAL:HG12	2.07	0.55
22:CB:46:G:H2'	22:CB:47:C:C6	2.42	0.55
23:CD:21:U:C3'	23:CD:22:A:H5"	2.36	0.55
25:DA:872:A:C4	25:DA:906:G:N2	2.74	0.55
25:DA:1226:G:H5'	41:D2:85:LYS:H	1.72	0.55
26:DB:3:C:H5'	26:DB:4:C:OP2	2.05	0.55
27:DD:25:THR:C	27:DD:27:THR:N	2.63	0.55
28:DE:48:GLN:O	28:DE:49:LEU:CD1	2.55	0.55
28:DE:79:ARG:O	28:DE:80:GLU:CG	2.54	0.55
32:DK:97:ILE:O	32:DK:100:ALA:HB3	2.06	0.55
35:DO:136:GLU:O	35:DO:139:LYS:N	2.34	0.55
39:DR:53:ARG:O	39:DR:53:ARG:CG	2.54	0.55
39:DR:91:ARG:O	39:DR:116:ALA:HA	2.07	0.55
48:DW:9:GLN:NE2	48:DW:56:GLN:HG2	2.18	0.55
54:D8:52:LYS:O	54:D8:54:GLU:N	2.32	0.55
4:AG:31:CYS:HB3	4:AG:33:MET:HB2	1.88	0.55
8:AK:95:VAL:HG21	8:AK:133:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AL:22:GLY:HA3	9:AL:60:ASP:CG	2.32	0.55
22:AB:45:U:H2'	22:AB:46:G:H5"	1.88	0.55
23:AC:17:C:C2'	23:AC:18:C:H5"	2.37	0.55
23:AC:62:C:O2'	23:AC:63:C:H5'	2.06	0.55
24:A1:14:U:O2'	24:A1:15:U:O4'	2.24	0.55
25:BA:482:A:H4'	44:BU:47:LYS:HD3	1.89	0.55
25:BA:507:A:C5'	25:BA:508:G:H5'	2.37	0.55
25:BA:1600:C:O2'	53:B7:49:ARG:HG2	2.07	0.55
30:BG:64:THR:CG2	30:BG:66:GLN:H	2.19	0.55
35:BO:19:VAL:HG23	35:BO:27:HIS:HB3	1.87	0.55
38:BQ:67:ARG:NH1	38:BQ:67:ARG:HB2	2.22	0.55
48:BW:16:LEU:O	48:BW:16:LEU:HG	2.07	0.55
1:CA:168:G:C2'	1:CA:169:C:H5"	2.37	0.55
1:CA:518:C:H4'	1:CA:519:C:O5'	2.07	0.55
1:CA:1022:G:H2'	1:CA:1023:G:O4'	2.07	0.55
1:CA:1075:C:OP1	2:CE:179:LYS:HE2	2.06	0.55
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.42	0.55
3:CF:70:VAL:O	3:CF:106:VAL:N	2.38	0.55
15:CR:44:LYS:O	15:CR:47:LYS:HE2	2.06	0.55
17:CT:66:SER:O	17:CT:70:ARG:NH1	2.40	0.55
19:CV:80:TYR:CE1	19:CV:82:GLY:HA2	2.42	0.55
25:DA:128:C:H2'	25:DA:129:C:C6	2.41	0.55
25:DA:654(D):G:N2	25:DA:654(Q):C:N3	2.52	0.55
25:DA:845:G:OP2	25:DA:845:G:H8	1.90	0.55
25:DA:1246:A:O2'	29:DF:45:ARG:NH2	2.39	0.55
25:DA:2131:G:N2	25:DA:2158:A:H2'	2.22	0.55
25:DA:2591:C:H2'	25:DA:2592:G:C8	2.42	0.55
28:DE:36:ARG:HH11	28:DE:36:ARG:CG	2.19	0.55
30:DG:7:LEU:HB2	30:DG:104:GLU:OE1	2.06	0.55
34:DN:49:ARG:HD3	34:DN:49:ARG:N	2.19	0.55
45:DV:112:ARG:HE	45:DV:112:ARG:N	2.04	0.55
46:D3:18:ALA:CB	46:D3:20:ARG:HE	2.17	0.55
1:AA:1178:G:N2	1:AA:1181:G:N7	2.42	0.55
1:AA:1237:C:C5	1:AA:1336:C:C5	2.95	0.55
6:AI:3:ARG:HA	6:AI:65:VAL:O	2.07	0.55
8:AK:9:MET:HG3	8:AK:26:VAL:HG21	1.89	0.55
18:AU:73:ALA:HB3	18:AU:79:LEU:HD12	1.89	0.55
22:AB:52:U:H2'	22:AB:53:A:C5'	2.37	0.55
25:BA:547:A:H2'	25:BA:548:A:C8	2.42	0.55
25:BA:1028:A:N6	25:BA:1125:G:H2'	2.21	0.55
25:BA:1783:A:H5'	25:BA:2608:G:H4'	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2894:G:H2'	25:BA:2895:U:OP2	2.07	0.55
27:BD:221:VAL:HG22	27:BD:226:MET:HE2	1.89	0.55
30:BG:36:LYS:HG2	30:BG:38:VAL:HG23	1.89	0.55
39:BR:20:PRO:HG2	39:BR:86:ILE:O	2.06	0.55
54:B8:11:LYS:O	54:B8:11:LYS:HG2	2.07	0.55
1:CA:997:U:H2'	1:CA:998:G:C8	2.41	0.55
1:CA:1350:A:C6	1:CA:1351:U:N3	2.75	0.55
3:CF:82:GLU:HA	3:CF:85:ARG:HB2	1.87	0.55
3:CF:146:ALA:HB1	3:CF:203:PHE:O	2.07	0.55
4:CG:162:LEU:HD12	4:CG:181:MET:CE	2.37	0.55
5:CH:103:GLY:H	5:CH:106:PRO:HG2	1.70	0.55
8:CK:66:GLY:O	8:CK:76:PRO:HB3	2.07	0.55
25:DA:340:A:C2'	25:DA:341:G:H5'	2.36	0.55
25:DA:620:G:H5'	25:DA:620:G:N3	2.22	0.55
25:DA:1342:A:C2	25:DA:1602:U:C4	2.94	0.55
25:DA:1443:G:H2'	25:DA:1444:G:H5'	1.89	0.55
25:DA:1956:U:H2'	25:DA:1957:C:H5'	1.89	0.55
26:DB:38:C:N3	26:DB:44:G:N2	2.48	0.55
26:DB:53:A:H2'	26:DB:54:G:O4'	2.07	0.55
26:DB:111:U:H2'	26:DB:112:G:H8	1.70	0.55
27:DD:164:GLN:HG2	27:DD:166:GLN:NE2	2.22	0.55
28:DE:37:ARG:HD2	28:DE:80:GLU:OE2	2.07	0.55
30:DG:11:TYR:CZ	30:DG:16:ARG:HD2	2.43	0.55
32:DK:92:VAL:HB	32:DK:120:ILE:HB	1.88	0.55
36:DP:7:MET:HB3	36:DP:10:ARG:CZ	2.37	0.55
52:D6:27:LYS:HZ3	52:D6:27:LYS:CB	2.19	0.55
1:AA:827:U:O2	1:AA:827:U:O5'	2.25	0.54
1:AA:1073:U:OP2	5:AH:57:LYS:NZ	2.38	0.54
19:AV:40:ILE:HD11	19:AV:62:ILE:HG21	1.89	0.54
23:AC:17:C:C3'	23:AC:18:C:C5'	2.68	0.54
23:AC:48:U:H4'	23:AC:49:C:C5'	2.37	0.54
25:BA:21:A:O2'	25:BA:22:C:H5'	2.07	0.54
25:BA:445:C:O2'	25:BA:446:G:H5'	2.07	0.54
25:BA:1557:C:H5"	25:BA:1558:A:OP2	2.07	0.54
25:BA:1639:U:H2'	25:BA:1640:C:H5'	1.89	0.54
25:BA:1900:A:H5'	25:BA:1900:A:C8	2.38	0.54
25:BA:2312:U:O5'	25:BA:2312:U:H6	1.89	0.54
29:BF:129:PHE:O	29:BF:130:ALA:HB3	2.07	0.54
29:BF:198:ALA:HA	29:BF:201:VAL:CG1	2.28	0.54
30:BG:107:LEU:HD21	30:BG:178:PHE:CE1	2.42	0.54
35:BO:39:LYS:CB	35:BO:45:LEU:HD22	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:65:ARG:NH2	54:B8:15:LYS:HB2	2.11	0.54
38:BQ:14:VAL:O	38:BQ:18:ILE:HD13	2.08	0.54
50:B4:59:PHE:O	50:B4:63:TYR:HB2	2.06	0.54
1:CA:342:C:H2'	1:CA:343:U:H5'	1.89	0.54
9:CL:125:TYR:HD2	9:CL:125:TYR:C	2.15	0.54
13:CP:54:VAL:HG12	13:CP:58:GLU:OE1	2.07	0.54
20:CW:10:LEU:HD22	20:CW:10:LEU:O	2.07	0.54
20:CW:29:LYS:O	20:CW:33:ILE:HG12	2.07	0.54
23:CD:27:G:C2'	23:CD:28:U:H5'	2.37	0.54
24:C1:17:U:O2'	24:C1:18:G:H5'	2.07	0.54
25:DA:389:G:H1	35:DO:71:VAL:HG12	1.72	0.54
25:DA:607:U:O2	25:DA:621:A:N1	2.40	0.54
25:DA:882:G:N1	25:DA:894:C:N4	2.40	0.54
25:DA:997:G:H2'	25:DA:998:C:H5'	1.89	0.54
25:DA:2698:U:H2'	25:DA:2699:C:C6	2.41	0.54
26:DB:38:C:N4	26:DB:44:G:H1	2.02	0.54
29:DF:184:TYR:O	29:DF:188:ARG:HB2	2.08	0.54
30:DG:97:ASP:HA	30:DG:100:TRP:HB2	1.89	0.54
41:D2:75:PHE:HD2	41:D2:81:TYR:CD1	2.25	0.54
1:AA:16:A:C2'	1:AA:17:U:H5'	2.38	0.54
1:AA:503:C:OP2	12:AO:116:SER:OG	2.16	0.54
1:AA:580:U:H2'	1:AA:581:G:O4'	2.08	0.54
1:AA:625:G:H4'	16:AS:16:HIS:HD2	0.46	0.54
1:AA:1004:A:O5'	1:AA:1025:U:O4	2.25	0.54
1:AA:1059:C:O3'	14:AQ:45:ARG:NH2	2.40	0.54
1:AA:1177:G:C8	1:AA:1178:G:C2	2.96	0.54
3:AF:131:ARG:NH1	3:AF:166:GLU:OE2	2.40	0.54
13:AP:8:GLU:O	13:AP:10:PRO:HD3	2.07	0.54
19:AV:65:ASN:HB3	50:B4:55:ARG:HH12	1.72	0.54
25:BA:265:A:H1'	25:BA:266:G:O4'	2.07	0.54
25:BA:373:U:H1'	25:BA:423:A:N3	2.21	0.54
25:BA:2415:G:H4'	35:BO:66:GLY:CA	2.37	0.54
25:BA:2543:G:H2'	25:BA:2544:G:C8	2.42	0.54
27:BD:181:GLU:CG	27:BD:272:ALA:HB3	2.34	0.54
28:BE:38:THR:C	28:BE:40:GLU:N	2.64	0.54
29:BF:63:LYS:CE	29:BF:67:GLN:HB2	2.37	0.54
31:BH:153:LYS:HA	31:BH:153:LYS:HZ2	1.72	0.54
36:BP:12:GLN:HG2	36:BP:73:PRO:HD2	1.88	0.54
47:BZ:83:GLU:HG2	47:BZ:85:LEU:H	1.72	0.54
51:B5:40:LYS:HZ3	51:B5:46:CYS:C	2.15	0.54
51:B5:52:TYR:HD1	51:B5:53:ALA:H	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:197:A:C6	1:CA:221:C:H4'	2.42	0.54
1:CA:1386:G:N3	1:CA:1387:G:C8	2.76	0.54
1:CA:1465:C:H2'	1:CA:1466:C:O4'	2.07	0.54
19:CV:23:ASN:HA	19:CV:27:GLU:CD	2.32	0.54
20:CW:30:LYS:HG2	20:CW:80:ARG:HH22	1.71	0.54
22:CB:17:U:H5"	22:CB:18:G:H8	1.68	0.54
23:CD:52:C:H2'	23:CD:53:G:H8	1.72	0.54
25:DA:2402:C:H41	25:DA:2416:C:H1'	1.71	0.54
28:DE:14:ILE:HD11	28:DE:173:VAL:HG11	1.89	0.54
38:DQ:25:ARG:CZ	38:DQ:40:ILE:HD12	2.36	0.54
45:DV:103:ARG:HB2	45:DV:137:ILE:O	2.07	0.54
45:DV:134:PRO:HG3	45:DV:158:PRO:HG3	1.89	0.54
1:AA:375:U:O3'	16:AS:6:LEU:HB2	2.07	0.54
1:AA:693:G:C4	24:A1:13:U:H1'	2.43	0.54
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.41	0.54
1:AA:1004:A:O5'	1:AA:1025:U:C4	2.61	0.54
12:AO:24:VAL:HG13	12:AO:98:TYR:HE2	1.71	0.54
13:AP:57:ARG:HB2	13:AP:57:ARG:HH11	1.72	0.54
17:AT:82:MET:O	17:AT:86:GLU:HB2	2.07	0.54
18:AU:88:LYS:HB3	18:AU:88:LYS:NZ	2.23	0.54
25:BA:1164:G:H2'	25:BA:1165:U:C6	2.43	0.54
25:BA:1203:G:H3'	25:BA:1204:A:H5"	1.90	0.54
28:BE:3:GLY:HA3	28:BE:81:ILE:CD1	2.37	0.54
33:BM:26:LEU:O	33:BM:30:ILE:HG13	2.07	0.54
33:BM:96:GLU:H	33:BM:98:VAL:HG12	1.73	0.54
36:BP:48:GLU:O	36:BP:48:GLU:HG3	2.06	0.54
40:B1:79:PHE:O	40:B1:79:PHE:CD2	2.56	0.54
42:BS:1:MET:HE3	42:BS:1:MET:HA	1.88	0.54
44:BU:81:LYS:CG	44:BU:96:ILE:HB	2.37	0.54
1:CA:516:U:C4	1:CA:517:G:C6	2.95	0.54
1:CA:631:G:H4'	1:CA:632:A:OP1	2.05	0.54
1:CA:930:C:C4	1:CA:931:C:C5	2.95	0.54
1:CA:1021:G:H2'	1:CA:1022:G:O4'	2.07	0.54
3:CF:29:TYR:HD1	14:CQ:36:PHE:CZ	2.26	0.54
4:CG:60:GLU:OE2	4:CG:198:VAL:HA	2.06	0.54
6:CI:11:ASN:O	6:CI:14:LEU:HD22	2.07	0.54
25:DA:270(I):G:H1	25:DA:270(Q):C:N4	2.03	0.54
25:DA:310:A:OP1	44:DU:17:SER:O	2.24	0.54
25:DA:2415:G:H4'	35:DO:66:GLY:CA	2.37	0.54
25:DA:2840:C:H5"	37:D0:53:HIS:CD2	2.42	0.54
26:DB:104:A:OP1	45:DV:72:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:77:LEU:CG	32:DK:78:THR:N	2.70	0.54
35:DO:127:ALA:O	35:DO:147:LEU:N	2.35	0.54
40:D1:98:LEU:O	40:D1:99:ALA:CB	2.55	0.54
44:DU:19:LYS:HE3	44:DU:71:LYS:NZ	2.22	0.54
50:D4:12:ALA:H	50:D4:24:THR:HG21	1.72	0.54
51:D5:52:TYR:O	51:D5:53:ALA:HB3	2.07	0.54
1:AA:166:G:O2'	1:AA:167:G:H5'	2.06	0.54
1:AA:324:G:N1	1:AA:327:A:OP2	2.40	0.54
1:AA:721:G:C6	1:AA:733:A:C2	2.95	0.54
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.07	0.54
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.42	0.54
19:AV:41:VAL:CG2	19:AV:67:VAL:HA	2.37	0.54
20:AW:50:GLU:HA	20:AW:100:ILE:HG22	1.89	0.54
22:AB:16:U:C2	22:AB:70:G:N2	2.76	0.54
23:AD:13:C:O2'	23:AD:14:A:P	2.65	0.54
23:AD:49:C:OP2	23:AD:49:C:C6	2.59	0.54
25:BA:1434:A:N6	25:BA:1558:A:N6	2.47	0.54
50:B4:37:SER:CB	50:B4:42:PHE:CD1	2.90	0.54
1:CA:688:G:H2'	1:CA:689:C:H6	1.72	0.54
1:CA:1128:C:H5"	9:CL:16:ARG:HH22	1.72	0.54
1:CA:1129:C:OP2	9:CL:62:TYR:OH	2.22	0.54
4:CG:153:ARG:HD3	4:CG:181:MET:SD	2.48	0.54
5:CH:100:VAL:HG12	5:CH:100:VAL:O	2.06	0.54
12:CO:68:ALA:CB	12:CO:85:ILE:HD11	2.37	0.54
13:CP:22:ILE:HD12	13:CP:25:ILE:HG13	1.87	0.54
14:CQ:12:ARG:CZ	14:CQ:14:PRO:HG2	2.37	0.54
22:CB:18:G:O2'	22:CB:19:G:O5'	2.26	0.54
25:DA:94:G:H2'	25:DA:95:G:O4'	2.07	0.54
25:DA:900:A:H2'	25:DA:900:A:N3	2.22	0.54
25:DA:1011:G:H1	25:DA:1150:C:H42	1.55	0.54
25:DA:1278:A:C5'	37:D0:36:THR:HG22	2.37	0.54
25:DA:1668:A:N3	25:DA:1670:C:C4	2.76	0.54
25:DA:2135:A:O2'	25:DA:2160:G:H4'	2.08	0.54
25:DA:2219:G:C2'	25:DA:2224:G:H5'	2.38	0.54
25:DA:2271:G:H5"	46:D3:20:ARG:NE	2.21	0.54
25:DA:2689:U:H4'	25:DA:2690:C:H5'	1.90	0.54
25:DA:2748:A:H62	25:DA:2754:U:H3	1.52	0.54
25:DA:2893:G:H5'	25:DA:2894:G:OP1	2.06	0.54
31:DH:94:TYR:N	31:DH:94:TYR:CD1	2.76	0.54
34:DN:68:GLU:CA	34:DN:78:ARG:HB3	2.38	0.54
47:DZ:86:SER:N	47:DZ:87:PRO:CD	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1004:A:OP1	1:AA:1025:U:O4	2.24	0.54
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.08	0.54
1:AA:1129:C:N3	1:AA:1139:G:O6	2.40	0.54
2:AE:197:VAL:HG12	2:AE:200:ILE:HG13	1.89	0.54
3:AF:113:ALA:HB3	3:AF:114:PRO:HD3	1.89	0.54
4:AG:101:LEU:HD23	4:AG:121:VAL:HG11	1.90	0.54
7:AJ:6:ARG:HG2	7:AJ:6:ARG:O	2.08	0.54
20:AW:39:LYS:HB2	20:AW:55:ILE:HG21	1.89	0.54
25:BA:856:C:H3'	25:BA:856:C:C6	2.43	0.54
25:BA:1937:A:C2'	25:BA:1938:A:OP1	2.55	0.54
30:BG:133:LEU:HD23	30:BG:157:ILE:HB	1.89	0.54
1:CA:130:A:C8	17:CT:63:ARG:HG3	2.43	0.54
1:CA:999:U:H2'	1:CA:1000:A:C8	2.42	0.54
1:CA:1014:A:H4'	19:CV:14:HIS:CE1	2.43	0.54
1:CA:1129:C:N4	1:CA:1139:G:C2	2.76	0.54
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.42	0.54
2:CE:83:MET:HE2	2:CE:234:PRO:CG	2.36	0.54
4:CG:42:GLN:HG3	4:CG:43:HIS:CD2	2.42	0.54
13:CP:10:PRO:HG3	13:CP:18:ALA:O	2.07	0.54
20:CW:10:LEU:C	20:CW:10:LEU:CD2	2.81	0.54
25:DA:270(S):G:H5"	47:DZ:94:LEU:HD21	1.90	0.54
25:DA:1101:U:H2'	25:DA:1102:C:C6	2.41	0.54
29:DF:39:TRP:CH2	29:DF:106:ARG:HD3	2.42	0.54
32:DK:27:ARG:HG2	47:DZ:71:TYR:CZ	2.43	0.54
32:DK:78:THR:CB	32:DK:104:GLN:HE22	2.20	0.54
33:DM:30:ILE:HG22	33:DM:34:LEU:HD22	1.89	0.54
33:DM:56:ASN:H	33:DM:125:GLY:HA3	1.72	0.54
35:DO:11:GLY:C	35:DO:13:ASN:N	2.59	0.54
41:D2:28:GLU:HB3	41:D2:29:PRO:HD2	1.89	0.54
47:DZ:62:VAL:HG21	47:DZ:70:VAL:HG21	1.90	0.54
1:AA:57:G:H2'	1:AA:58:C:H6	1.70	0.54
1:AA:166:G:H2'	1:AA:167:G:H8	1.71	0.54
1:AA:201:C:N3	1:AA:216:G:N2	2.54	0.54
1:AA:1126:U:H5	1:AA:1127:G:N3	2.06	0.54
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.22	0.54
12:AO:89:ARG:HH11	12:AO:89:ARG:CG	2.20	0.54
19:AV:41:VAL:HG13	19:AV:44:MET:HB2	1.89	0.54
25:BA:270(F):U:H2'	25:BA:270(G):C:H6	1.71	0.54
25:BA:1022:G:H22	25:BA:1142(A):A:H2	1.47	0.54
25:BA:1436:G:H1'	25:BA:1477:A:O2'	2.07	0.54
25:BA:1942:C:OP2	25:BA:1943:U:O2'	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2189:U:C3'	25:BA:2190:G:H5"	2.37	0.54
28:BE:63:LEU:O	28:BE:63:LEU:HD23	2.07	0.54
32:BK:114:LEU:O	32:BK:115:ALA:CB	2.55	0.54
35:BO:49:ARG:HD2	54:B8:58:ILE:HG21	1.88	0.54
49:BX:40:THR:O	49:BX:44:ARG:HB2	2.07	0.54
1:CA:149:A:O2'	1:CA:150:C:H5'	2.08	0.54
1:CA:457:C:H2'	1:CA:458:C:H6	1.73	0.54
1:CA:664:G:H22	1:CA:741:G:H1	1.55	0.54
1:CA:1014:A:H4'	19:CV:14:HIS:ND1	2.22	0.54
1:CA:1034:G:H2'	1:CA:1035:A:C8	2.43	0.54
8:CK:99:GLU:C	8:CK:100:ILE:HG13	2.33	0.54
12:CO:60:LEU:HB2	12:CO:64:TYR:HB2	1.89	0.54
13:CP:108:ARG:HH11	13:CP:108:ARG:HG3	1.72	0.54
23:CD:55:U:C4	23:CD:56:U:H5	2.25	0.54
25:DA:686:G:N7	53:D7:5:TRP:CH2	2.76	0.54
25:DA:903:C:O2'	45:DV:168:GLU:HG2	2.08	0.54
25:DA:1022:G:C6	25:DA:1140:C:C4	2.95	0.54
25:DA:2511:U:O4	25:DA:2575:C:N3	2.41	0.54
27:DD:228:PRO:HG3	27:DD:234:GLY:O	2.06	0.54
28:DE:60:ASN:O	28:DE:62:PRO:HD3	2.08	0.54
29:DF:20:LEU:HD13	29:DF:203:GLN:OE1	2.07	0.54
31:DH:166:GLY:O	31:DH:167:GLU:HG2	2.06	0.54
35:DO:75:ILE:HD13	35:DO:75:ILE:H	1.71	0.54
43:DT:30:VAL:HG11	43:DT:39:ILE:HG12	1.90	0.54
45:DV:141:VAL:CG2	45:DV:150:LEU:HG	2.37	0.54
1:AA:153:C:H42	1:AA:168:G:H1	1.56	0.54
1:AA:346:G:H5'	39:BR:41:ARG:HG2	1.90	0.54
1:AA:397:A:N7	1:AA:548:G:C8	2.76	0.54
1:AA:859:A:H2'	1:AA:860:A:C8	2.42	0.54
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.72	0.54
1:AA:1305:G:C5'	21:AX:4:GLY:HA3	2.38	0.54
3:AF:131:ARG:CZ	3:AF:131:ARG:HB2	2.38	0.54
4:AG:10:ARG:HB2	4:AG:10:ARG:NH1	2.23	0.54
4:AG:29:PRO:O	4:AG:30:LYS:HD3	2.08	0.54
4:AG:65:ARG:CG	4:AG:65:ARG:HH11	2.20	0.54
6:AI:8:ILE:HD11	6:AI:79:LEU:HD13	1.88	0.54
9:AL:4:TYR:CG	9:AL:88:TYR:HB2	2.43	0.54
11:AN:81:ASP:HB3	11:AN:107:SER:OG	2.07	0.54
19:AV:30:LEU:HD22	19:AV:30:LEU:O	2.08	0.54
20:AW:89:ARG:HD2	20:AW:104:LEU:HD21	1.90	0.54
22:AB:45:U:C2'	22:AB:46:G:H5"	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AB:85:C:N4	25:BA:2508:G:H5'	2.23	0.54
25:BA:889:C:C3'	25:BA:890:A:H4'	2.37	0.54
25:BA:1054:A:H2'	25:BA:1055:G:C8	2.43	0.54
25:BA:1734:C:C2'	25:BA:1735:C:H5"	2.38	0.54
25:BA:2099:U:H3	25:BA:2190:G:H1	1.56	0.54
25:BA:2121:G:H2'	25:BA:2122:U:O4'	2.08	0.54
28:BE:103:ASP:OD1	28:BE:201:THR:HA	2.07	0.54
31:BH:83:TYR:CB	31:BH:134:SER:HA	2.37	0.54
32:BK:144:VAL:HG22	32:BK:145:VAL:N	2.23	0.54
34:BN:104:ARG:HH11	39:BR:36:GLU:CD	2.15	0.54
43:BT:12:VAL:HG13	43:BT:27:THR:O	2.08	0.54
48:BW:64:LEU:HD22	48:BW:64:LEU:O	2.08	0.54
1:CA:977:A:H2	1:CA:1224:G:C6	2.26	0.54
1:CA:1106:G:C2	1:CA:1107:C:C6	2.95	0.54
1:CA:1365:G:H2'	1:CA:1366:C:O4'	2.08	0.54
7:CJ:79:ARG:HG2	7:CJ:84:ASN:ND2	2.23	0.54
22:CB:70:G:H2'	22:CB:71:U:C6	2.43	0.54
25:DA:1472:A:C2'	25:DA:1473:G:H5'	2.37	0.54
25:DA:2059:A:H2	25:DA:2062:A:H61	1.54	0.54
26:DB:1:U:H3	26:DB:119:A:H2	1.55	0.54
30:DG:117:PHE:HD1	30:DG:117:PHE:C	2.14	0.54
34:DN:92:GLU:OE1	34:DN:113:LYS:NZ	2.38	0.54
36:DP:21:THR:O	36:DP:21:THR:HG22	2.07	0.54
36:DP:105:GLU:HG2	36:DP:105:GLU:O	2.06	0.54
37:D0:75:LEU:HD13	37:D0:75:LEU:O	2.08	0.54
40:D1:25:TRP:C	40:D1:25:TRP:CD1	2.85	0.54
45:DV:128:VAL:HG22	45:DV:129:SER:N	2.18	0.54
49:DX:43:ILE:O	49:DX:47:VAL:HG23	2.07	0.54
1:AA:878:G:H5'	8:AK:89:PRO:HG2	1.90	0.54
1:AA:1004:A:H8	1:AA:1036:G:C2	2.26	0.54
1:AA:1036:G:C8	1:AA:1037:C:N3	2.76	0.54
2:AE:201:ILE:HG21	2:AE:214:ILE:HG21	1.89	0.54
4:AG:30:LYS:C	4:AG:32:ALA:H	2.12	0.54
5:AH:84:PHE:CB	5:AH:134:ALA:HB2	2.37	0.54
11:AN:86:GLY:N	11:AN:112:THR:OG1	2.21	0.54
13:AP:3:ARG:HG2	13:AP:9:ILE:HG12	1.90	0.54
22:AB:5:A:H61	22:AB:79:U:H3	1.56	0.54
25:BA:389:G:H22	35:BO:72:PRO:HD3	1.72	0.54
25:BA:495:G:O2'	42:BS:62:HIS:HE1	1.91	0.54
25:BA:1062:G:OP1	25:BA:1070:A:H4'	2.08	0.54
25:BA:1083:U:C3'	25:BA:1084:A:H5"	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2019:A:H2'	25:BA:2020:A:O5'	2.06	0.54
25:BA:2320:A:H2'	25:BA:2320:A:N3	2.23	0.54
26:BB:116:G:H5"	38:BQ:55:ALA:HB2	1.90	0.54
27:BD:206:LEU:HA	27:BD:211:ARG:NH1	2.23	0.54
31:BH:169:VAL:C	31:BH:170:ARG:CG	2.81	0.54
33:BM:90:MET:HA	33:BM:93:THR:HG22	1.89	0.54
35:BO:57:THR:C	35:BO:59:LEU:N	2.61	0.54
36:BP:26:TYR:HE2	36:BP:28:ALA:HB2	1.72	0.54
46:B3:23:VAL:HG13	46:B3:38:VAL:HG23	1.89	0.54
1:CA:363:A:OP1	12:CO:33:ARG:HG3	2.07	0.54
1:CA:1007:C:C2	1:CA:1023:G:N2	2.75	0.54
1:CA:1077:G:N2	1:CA:1080:A:OP2	2.40	0.54
1:CA:1207:G:C6	1:CA:1208:C:C4	2.96	0.54
1:CA:1372:U:H2'	1:CA:1373:G:C5'	2.38	0.54
6:CI:24:GLU:O	6:CI:28:ARG:HD2	2.08	0.54
6:CI:60:PHE:O	6:CI:61:LEU:HD12	2.07	0.54
6:CI:87:ARG:CG	6:CI:87:ARG:NH1	2.63	0.54
13:CP:110:ARG:HH11	13:CP:110:ARG:HG3	1.72	0.54
14:CQ:13:THR:N	14:CQ:14:PRO:CD	2.71	0.54
14:CQ:37:PHE:CE1	14:CQ:53:LEU:HD13	2.43	0.54
25:DA:274:G:OP1	25:DA:274:G:C8	2.60	0.54
25:DA:2377:A:H4'	38:DQ:111:GLU:O	2.08	0.54
25:DA:2401:U:C2'	25:DA:2402:C:H5"	2.37	0.54
29:DF:8:GLN:O	29:DF:8:GLN:NE2	2.40	0.54
30:DG:110:ALA:HA	30:DG:140:ILE:O	2.08	0.54
31:DH:4:ILE:HD12	31:DH:6:ARG:CZ	2.38	0.54
36:DP:78:PRO:O	36:DP:79:LEU:CG	2.56	0.54
37:D0:97:VAL:HG22	37:D0:114:VAL:HG22	1.89	0.54
38:DQ:85:VAL:HG12	38:DQ:86:ALA:N	2.22	0.54
45:DV:16:SER:O	45:DV:20:ARG:HG3	2.07	0.54
1:AA:76:G:C6	1:AA:77:C:C2	2.96	0.54
1:AA:321:A:C2	1:AA:333:G:C2	2.96	0.54
1:AA:690:G:H2'	1:AA:691:G:O4'	2.08	0.54
2:AE:200:ILE:H	2:AE:200:ILE:HD12	1.72	0.54
13:AP:23:TYR:CE1	13:AP:71:ARG:HG3	2.43	0.54
15:AR:87:ILE:CG2	15:AR:88:ARG:N	2.67	0.54
19:AV:41:VAL:O	50:B4:63:TYR:CZ	2.61	0.54
23:AD:22:A:C2	23:AD:47:G:H2'	2.43	0.54
25:BA:574:C:H4'	25:BA:575:A:O5'	2.08	0.54
25:BA:588:U:C2	29:BF:90:PHE:CE1	2.96	0.54
25:BA:1728:G:C2	25:BA:1730:U:OP2	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2783:G:H2'	25:BA:2784:C:C6	2.42	0.54
34:BN:48:PRO:O	34:BN:49:ARG:HB2	2.08	0.54
43:BT:84:ALA:HB3	43:BT:87:GLN:NE2	2.22	0.54
47:BZ:53:VAL:HG21	47:BZ:74:VAL:HG22	1.90	0.54
51:B5:41:PRO:O	51:B5:44:THR:OG1	2.26	0.54
1:CA:1018:C:H2'	1:CA:1019:C:O4'	2.08	0.54
1:CA:1330:U:O4	1:CA:1331:G:C2	2.61	0.54
16:CS:48:TRP:CE3	16:CS:49:LEU:HB2	2.42	0.54
16:CS:49:LEU:HD12	16:CS:50:LYS:H	1.73	0.54
22:CB:1:G:H2'	22:CB:1:G:N3	2.22	0.54
23:CC:15:G:C2	23:CC:60:A:C2	2.96	0.54
25:DA:1003:G:N2	25:DA:1153:C:C2	2.76	0.54
25:DA:1019:U:H2'	25:DA:1020:A:C8	2.43	0.54
25:DA:1204:A:N1	25:DA:1241:A:C2	2.76	0.54
25:DA:1444:G:N2	25:DA:1548:C:C2	2.76	0.54
25:DA:2689:U:C4'	25:DA:2690:C:OP2	2.50	0.54
27:DD:5:LYS:HB2	27:DD:5:LYS:HZ2	1.70	0.54
28:DE:116:VAL:O	28:DE:117:MET:CB	2.51	0.54
29:DF:72:ARG:HB3	29:DF:72:ARG:NH1	2.23	0.54
36:DP:102:VAL:O	36:DP:103:MET:C	2.50	0.54
38:DQ:87:PHE:HD1	38:DQ:112:PHE:CD2	2.26	0.54
40:D1:40:PHE:HZ	41:D2:81:TYR:CE2	2.26	0.54
1:AA:1285:A:H4'	1:AA:1286:A:C5'	2.38	0.54
1:AA:1301:U:H2'	1:AA:1302:U:H5'	1.90	0.54
2:AE:178:ARG:NH2	2:AE:196:LEU:HA	2.22	0.54
5:AH:96:PRO:HA	5:AH:117:ASP:CG	2.32	0.54
7:AJ:78:ARG:HD2	7:AJ:80:VAL:CG2	2.38	0.54
25:BA:280:C:C2	25:BA:361:G:N2	2.76	0.54
25:BA:500:G:N2	25:BA:502:A:H3'	2.23	0.54
25:BA:654(M):C:C2'	25:BA:654(N):G:H8	2.20	0.54
25:BA:1570:A:H2'	25:BA:1571:A:C8	2.43	0.54
25:BA:2282:G:H4'	25:BA:2389:G:O2'	2.08	0.54
27:BD:32:SER:O	27:BD:33:LEU:CB	2.56	0.54
28:BE:111:ARG:CD	28:BE:160:TYR:HE1	2.20	0.54
33:BM:63:THR:O	33:BM:66:LYS:HG3	2.08	0.54
35:BO:19:VAL:HG23	35:BO:27:HIS:CB	2.38	0.54
44:BU:76:CYS:HB3	44:BU:96:ILE:CD1	2.37	0.54
47:BZ:3:LYS:O	47:BZ:12:PRO:HD3	2.08	0.54
1:CA:170:U:O2'	1:CA:171:A:H5'	2.07	0.54
1:CA:719:C:H5	1:CA:720:C:C4	2.26	0.54
1:CA:1216:G:C6	1:CA:1217:C:N4	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.43	0.54
22:CB:17:U:OP2	22:CB:18:G:N7	2.41	0.54
25:DA:102:G:OP1	48:DW:7:ARG:NH2	2.39	0.54
25:DA:1805:U:O2	27:DD:50:THR:HB	2.08	0.54
25:DA:2211:G:C4'	25:DA:2212:A:OP2	2.56	0.54
25:DA:2262:U:P	46:D3:19:LYS:HZ3	2.30	0.54
25:DA:2329:G:N2	46:D3:41:ARG:HB3	2.23	0.54
27:DD:120:GLY:HA2	27:DD:190:TYR:OH	2.07	0.54
27:DD:239:ARG:O	27:DD:240:ALA:HB2	2.08	0.54
30:DG:44:GLY:O	30:DG:47:LYS:HB3	2.08	0.54
32:DK:123:LEU:HD13	32:DK:143:SER:HB3	1.89	0.54
33:DM:128:HIS:HB2	33:DM:129:PRO:HD2	1.90	0.54
48:DW:10:LEU:O	48:DW:14:ARG:HB2	2.08	0.54
49:DX:39:ASP:OD1	49:DX:39:ASP:O	2.26	0.54
50:D4:59:PHE:HD1	50:D4:60:GLN:NE2	2.06	0.54
1:AA:851:G:O2'	1:AA:852:G:H5'	2.08	0.53
1:AA:974:A:P	14:AQ:41:ARG:HH12	2.31	0.53
1:AA:1177:G:N7	1:AA:1178:G:N1	2.55	0.53
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.69	0.53
1:AA:1450:U:HO2'	1:AA:1451:A:H8	1.42	0.53
20:AW:100:ILE:HG13	20:AW:101:GLY:H	1.71	0.53
25:BA:598:G:C1'	35:BO:12:ALA:HB2	2.38	0.53
25:BA:654(R):C:H2'	25:BA:654(S):G:H5'	1.89	0.53
25:BA:1292:U:H2'	25:BA:1293:C:C6	2.43	0.53
25:BA:1899:G:HO2'	25:BA:1900:A:P	2.31	0.53
25:BA:1925:C:H2'	25:BA:1926:U:H5'	1.90	0.53
25:BA:2134:A:C5	25:BA:2158:A:C2	2.96	0.53
25:BA:2292:C:O2'	25:BA:2293:C:H5'	2.08	0.53
28:BE:81:ILE:HG22	28:BE:84:PHE:HB3	1.86	0.53
29:BF:29:ASN:N	29:BF:112:MET:CE	2.61	0.53
30:BG:59:GLU:HG2	30:BG:148:MET:HE2	1.90	0.53
31:BH:92:ILE:H	31:BH:92:ILE:CD1	2.14	0.53
33:BM:133:GLN:O	33:BM:134:ARG:HG2	2.07	0.53
42:BS:96:ILE:HD13	42:BS:96:ILE:O	2.09	0.53
53:B7:5:TRP:NE1	53:B7:7:PRO:HG3	2.23	0.53
1:CA:947:G:O3'	13:CP:109:THR:OG1	2.25	0.53
1:CA:992:U:O2'	1:CA:993:G:OP2	2.24	0.53
1:CA:1434:A:H61	1:CA:1467:G:H1'	1.73	0.53
7:CJ:99:LEU:HD22	7:CJ:103:TRP:CZ2	2.42	0.53
8:CK:29:SER:HB3	8:CK:32:LYS:HB2	1.90	0.53
11:CN:48:ILE:HG13	11:CN:63:LEU:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CU:37:VAL:HG11	18:CU:78:LEU:HB3	1.89	0.53
22:CB:85:C:H2'	22:CB:86:C:H5'	1.90	0.53
23:CC:73:A:N6	23:CC:74:A:N6	2.56	0.53
25:DA:963:U:H2'	25:DA:964:C:H6	1.73	0.53
25:DA:1204:A:H2	25:DA:1241:A:N1	2.05	0.53
25:DA:1445:C:H2'	25:DA:1446:C:H6	1.72	0.53
25:DA:2303:G:O4'	30:DG:126:ASP:HB3	2.08	0.53
25:DA:2780:G:OP1	33:DM:118:LYS:HE2	2.07	0.53
25:DA:2836:U:C4	25:DA:2883:A:N6	2.76	0.53
29:DF:53:THR:HG22	29:DF:56:GLU:HG3	1.89	0.53
33:DM:16:ILE:HG21	33:DM:26:LEU:HD11	1.89	0.53
33:DM:130:HIS:O	33:DM:130:HIS:CD2	2.60	0.53
39:DR:45:PHE:CD1	39:DR:74:ARG:HD2	2.43	0.53
41:D2:75:PHE:HE2	41:D2:81:TYR:CE1	2.26	0.53
1:AA:381:C:H2'	1:AA:382:A:O4'	2.08	0.53
1:AA:475:G:O2'	1:AA:476:G:H5'	2.08	0.53
1:AA:1075:C:O2'	1:AA:1076:C:H5'	2.09	0.53
1:AA:1349:A:OP2	9:AL:118:LYS:NZ	2.39	0.53
2:AE:42:ILE:HD11	2:AE:202:PRO:HB2	1.90	0.53
13:AP:50:GLU:O	13:AP:54:VAL:HG23	2.08	0.53
19:AV:41:VAL:CG2	19:AV:67:VAL:HG22	2.37	0.53
25:BA:667:U:O2	54:B8:2:PRO:HD2	2.08	0.53
25:BA:1651:G:N7	37:B0:11:ASN:ND2	2.55	0.53
25:BA:2702:U:OP1	25:BA:2702:U:C6	2.61	0.53
25:BA:2766:G:H2'	25:BA:2766:G:N3	2.23	0.53
29:BF:107:LYS:HE3	29:BF:207:GLY:H	1.73	0.53
30:BG:37:VAL:HG23	30:BG:99:MET:CE	2.38	0.53
34:BN:85:VAL:HG11	34:BN:114:ILE:CD1	2.35	0.53
39:BR:36:GLU:CG	39:BR:41:ARG:HD2	2.28	0.53
45:BV:54:HIS:HE2	45:BV:123:ASP:CG	2.16	0.53
45:BV:166:SER:N	45:BV:167:PRO:HD3	2.23	0.53
52:B6:30:THR:HA	52:B6:32:ASN:N	2.22	0.53
1:CA:1004:A:C5'	1:CA:1025:U:H3	2.22	0.53
1:CA:1032:A:H3'	1:CA:1032(A):G:H5"	1.90	0.53
1:CA:1132:C:H2'	1:CA:1133:G:C8	2.43	0.53
6:CI:23:LYS:O	6:CI:27:GLN:HB2	2.08	0.53
7:CJ:115:ARG:HB2	7:CJ:118:VAL:CG1	2.38	0.53
8:CK:138:TRP:HE3	8:CK:138:TRP:OXT	1.90	0.53
9:CL:122:ALA:HB1	9:CL:123:PRO:HD2	1.90	0.53
12:CO:86:ARG:HB2	12:CO:101:VAL:HG23	1.90	0.53
19:CV:31:ILE:HG13	19:CV:32:LYS:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:9:U:O4	25:DA:2629:A:N1	2.41	0.53
25:DA:496:G:H2'	25:DA:497:A:H5'	1.90	0.53
25:DA:779:U:OP1	27:DD:49:ILE:CG2	2.57	0.53
25:DA:881:G:O6	25:DA:895:U:O2	2.25	0.53
25:DA:963:U:H2'	25:DA:964:C:C6	2.43	0.53
25:DA:1464:C:O2'	25:DA:1528:A:C8	2.42	0.53
25:DA:2208:U:O2'	25:DA:2209:C:H5'	2.08	0.53
25:DA:2320:A:H4'	25:DA:2321:G:C8	2.43	0.53
27:DD:35:LYS:HB3	27:DD:63:ARG:CA	2.27	0.53
27:DD:236:GLY:O	27:DD:237:GLU:O	2.26	0.53
36:DP:30:GLY:HA2	36:DP:107:ALA:CB	2.38	0.53
41:D2:76:LYS:C	41:D2:79:VAL:HG23	2.27	0.53
41:D2:81:TYR:CD1	41:D2:81:TYR:N	2.76	0.53
45:DV:141:VAL:HG21	45:DV:150:LEU:HG	1.90	0.53
54:D8:16:ILE:HD11	54:D8:60:LEU:HD12	1.91	0.53
1:AA:607:A:C2'	1:AA:608:A:H5'	2.38	0.53
1:AA:736:C:H2'	1:AA:737:A:H8	1.72	0.53
2:AE:28:PHE:CD1	2:AE:190:THR:HA	2.43	0.53
2:AE:103:THR:HG22	2:AE:180:LEU:HD21	1.90	0.53
2:AE:211:ILE:O	2:AE:215:LEU:HB2	2.08	0.53
4:AG:133:VAL:HG11	4:AG:138:TYR:HD1	1.73	0.53
12:AO:47:LYS:HA	12:AO:49:ASN:H	1.72	0.53
19:AV:42:PRO:O	19:AV:45:VAL:HG22	2.08	0.53
25:BA:674:G:H1'	29:BF:74:ARG:CD	2.34	0.53
25:BA:1026:U:H1'	25:BA:1027:A:P	2.48	0.53
25:BA:1465:G:H5'	25:BA:1528:A:H1'	1.90	0.53
25:BA:1494:A:C2'	25:BA:1495:A:H5'	2.38	0.53
26:BB:1(M):A:H2'	26:BB:0:A:H5'	1.89	0.53
35:BO:75:ILE:HD13	35:BO:75:ILE:N	2.14	0.53
36:BP:51:ARG:NH2	36:BP:52:VAL:HG23	2.23	0.53
41:B2:60:GLU:O	41:B2:62:LEU:HD13	2.08	0.53
1:CA:1276:G:H2'	1:CA:1277:C:H6	1.73	0.53
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.42	0.53
3:CF:173:VAL:HG12	3:CF:175:LEU:HD23	1.90	0.53
6:CI:82:ARG:HB2	6:CI:85:VAL:HG23	1.89	0.53
12:CO:84:LEU:HD12	12:CO:104:VAL:HG11	1.91	0.53
22:CB:38:G:C2'	22:CB:39:U:H5'	2.39	0.53
25:DA:1309:G:H4'	53:D7:7:PRO:HB2	1.90	0.53
25:DA:1488:G:H5'	25:DA:1489:U:OP2	2.08	0.53
25:DA:2371:G:C1'	52:D6:45:LYS:HE2	2.35	0.53
25:DA:2470:G:OP2	36:DP:56:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2712(A):A:C5'	25:DA:2713:A:OP2	2.48	0.53
25:DA:2872:G:N7	25:DA:2873:A:H2	2.07	0.53
27:DD:70:TRP:CD1	27:DD:70:TRP:C	2.86	0.53
27:DD:108:PRO:HB3	27:DD:143:HIS:CE1	2.43	0.53
29:DF:79:GLY:HA2	29:DF:86:GLY:HA2	1.88	0.53
36:DP:10:ARG:HA	36:DP:10:ARG:NE	2.23	0.53
39:DR:29:ARG:HH11	39:DR:29:ARG:CB	2.21	0.53
40:D1:108:GLU:OE1	41:D2:45:THR:HA	2.09	0.53
42:DS:78:GLU:OE1	42:DS:99:ARG:HD3	2.08	0.53
43:DT:36:LYS:HG2	43:DT:54:VAL:HB	1.90	0.53
43:DT:63:LYS:HE3	43:DT:63:LYS:N	2.21	0.53
46:D3:51:VAL:N	46:D3:62:LEU:HD12	2.22	0.53
1:AA:615:C:C2	1:AA:616:G:C8	2.96	0.53
1:AA:972:C:O2'	10:AM:55:LYS:HG3	2.08	0.53
2:AE:80:ILE:HG22	2:AE:80:ILE:O	2.09	0.53
3:AF:42:LEU:O	3:AF:46:GLU:HG2	2.08	0.53
5:AH:51:VAL:HB	5:AH:52:PRO:HD3	1.89	0.53
5:AH:69:VAL:O	5:AH:71:LEU:N	2.41	0.53
22:AB:18:G:C4'	22:AB:19:G:OP2	2.54	0.53
25:BA:495:G:H21	42:BS:61:ASN:HD21	1.57	0.53
25:BA:1062:G:H1'	25:BA:1088:A:C5	2.44	0.53
25:BA:1816:G:H8	27:BD:62:TYR:HH	1.54	0.53
25:BA:2025:C:H2'	25:BA:2026:C:C6	2.44	0.53
25:BA:2062:A:N3	25:BA:2062:A:C2'	2.69	0.53
25:BA:2134:A:C5	25:BA:2158:A:H2	2.26	0.53
25:BA:2749:A:H4'	31:BH:62:LYS:HB3	1.90	0.53
28:BE:101:ARG:C	28:BE:201:THR:OG1	2.52	0.53
30:BG:121:ASN:HD22	30:BG:123:ASN:N	1.91	0.53
31:BH:116:GLU:HG3	31:BH:117:PRO:HD2	1.90	0.53
33:BM:59:LYS:CE	33:BM:61:ARG:HH22	2.22	0.53
46:B3:66:VAL:HG22	46:B3:82:ARG:HG2	1.91	0.53
1:CA:192:U:O4'	20:CW:103:GLY:HA3	2.08	0.53
1:CA:197:A:H1'	1:CA:198:G:OP2	2.08	0.53
1:CA:244:U:H5'	1:CA:244:U:H6	1.73	0.53
1:CA:373:A:N3	1:CA:374:A:C8	2.77	0.53
1:CA:923:A:OP1	5:CH:21:ALA:HB2	2.08	0.53
1:CA:1239:A:H62	1:CA:1299:A:N6	2.07	0.53
3:CF:155:GLY:O	3:CF:196:LEU:HD22	2.07	0.53
10:CM:22:LYS:HE2	10:CM:90:LEU:HD11	1.90	0.53
12:CO:82:VAL:HB	12:CO:105:TYR:HB3	1.91	0.53
13:CP:68:GLY:HA3	30:DG:116:ASP:OD1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:51:G:N3	25:DA:119:A:C2	2.76	0.53
25:DA:654:A:H2'	25:DA:654:A:N3	2.23	0.53
25:DA:1088:A:H5'	25:DA:1089:G:H5'	1.89	0.53
25:DA:2062:A:H62	25:DA:2503:A:H62	1.54	0.53
25:DA:2103:C:H2'	25:DA:2104:G:C8	2.43	0.53
25:DA:2461:C:H2'	25:DA:2462:U:C6	2.42	0.53
44:DU:9:LYS:O	44:DU:27:VAL:HG22	2.07	0.53
45:DV:69:THR:HB	45:DV:88:PHE:HB3	1.91	0.53
47:DZ:11:ARG:HB2	47:DZ:12:PRO:HD2	1.90	0.53
54:D8:24:ALA:O	54:D8:48:PHE:CD1	2.62	0.53
1:AA:353:A:C2'	1:AA:354:G:OP2	2.56	0.53
1:AA:411:A:C2	1:AA:431:A:N6	2.77	0.53
1:AA:881:G:OP2	12:AO:12:ARG:NH2	2.41	0.53
2:AE:111:ARG:HH11	2:AE:111:ARG:CG	2.22	0.53
5:AH:64:ARG:HG3	5:AH:64:ARG:HH11	1.73	0.53
9:AL:16:ARG:HB2	9:AL:64:THR:HG22	1.90	0.53
13:AP:60:VAL:CG1	13:AP:66:LEU:HD11	2.38	0.53
19:AV:40:ILE:C	19:AV:41:VAL:HG22	2.34	0.53
22:AB:85:C:H2'	22:AB:86:C:H5'	1.91	0.53
25:BA:534:U:H5'	40:B1:42:ALA:CB	2.36	0.53
25:BA:614:U:C4	29:BF:168:ARG:HG2	2.44	0.53
25:BA:1247:A:OP1	29:BF:95:ARG:NH2	2.41	0.53
25:BA:1710:C:O2'	25:BA:1711:C:H5'	2.09	0.53
25:BA:2789:C:H3'	25:BA:2790:A:H5"	1.89	0.53
26:BB:94:C:C4	26:BB:95:U:C5	2.97	0.53
28:BE:119:ARG:HG3	28:BE:119:ARG:NH1	2.22	0.53
30:BG:128:ARG:NH2	30:BG:128:ARG:HB2	2.23	0.53
35:BO:94:GLU:O	35:BO:124:LYS:O	2.26	0.53
36:BP:20:ALA:O	36:BP:21:THR:HG23	2.07	0.53
39:BR:108:ARG:HA	39:BR:111:ARG:NE	2.23	0.53
41:B2:44:LYS:HG2	41:B2:45:THR:H	1.72	0.53
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.08	0.53
1:CA:1400:C:H42	23:CC:35:C:H1'	1.74	0.53
2:CE:204:ASN:HB2	2:CE:210:SER:HB3	1.89	0.53
14:CQ:45:ARG:HG3	14:CQ:45:ARG:NH1	2.21	0.53
19:CV:41:VAL:HG22	50:D4:63:TYR:CZ	2.44	0.53
23:CC:56:U:O2	23:CC:58:A:N7	2.41	0.53
25:DA:128:C:H4'	25:DA:129:C:OP1	2.09	0.53
25:DA:531:C:OP1	25:DA:561:G:N1	2.41	0.53
25:DA:880:G:N3	25:DA:880:G:H2'	2.22	0.53
25:DA:1006:C:C2	25:DA:1138:G:N2	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1686:C:C2'	25:DA:1687:G:H5'	2.39	0.53
25:DA:2748:A:N7	25:DA:2754:U:C4	2.73	0.53
26:DB:29:A:C2	26:DB:56:G:C2	2.97	0.53
31:DH:136:ILE:H	31:DH:136:ILE:HD12	1.72	0.53
35:DO:101:VAL:CG2	35:DO:108:LYS:H	2.22	0.53
38:DQ:39:ILE:HG22	38:DQ:39:ILE:O	2.08	0.53
46:D3:70:GLN:HE21	46:D3:80:HIS:HE2	1.54	0.53
1:AA:66:G:N2	1:AA:172:A:C2	2.77	0.53
1:AA:397:A:H5'	1:AA:398:C:OP1	2.09	0.53
1:AA:640:A:O2'	8:AK:115:SER:HB2	2.08	0.53
4:AG:14:ARG:C	4:AG:14:ARG:HD3	2.33	0.53
13:AP:3:ARG:CD	13:AP:7:VAL:HG13	2.39	0.53
19:AV:40:ILE:HG22	19:AV:69:HIS:O	2.08	0.53
19:AV:63:THR:H	19:AV:66:MET:HE3	1.73	0.53
22:AB:45:U:H3'	22:AB:45:U:C6	2.44	0.53
25:BA:705:A:C2	25:BA:727:A:H1'	2.44	0.53
25:BA:821:A:H5"	25:BA:822:U:H6	1.73	0.53
25:BA:1141:U:OP2	33:BM:63:THR:CG2	2.56	0.53
25:BA:1309:G:P	53:B7:9:ARG:HD3	2.47	0.53
25:BA:1311:G:O6	53:B7:9:ARG:NH2	2.41	0.53
25:BA:1657:C:H2'	25:BA:1658:C:H6	1.72	0.53
25:BA:1735:C:H6	25:BA:1735:C:C5'	2.21	0.53
25:BA:1820:U:H4'	25:BA:1821:A:OP2	2.08	0.53
25:BA:2056:G:C2	25:BA:2057:A:C8	2.96	0.53
27:BD:158:ALA:O	27:BD:159:ALA:C	2.51	0.53
28:BE:78:LEU:CD1	28:BE:79:ARG:CG	2.86	0.53
28:BE:80:GLU:C	28:BE:82:ARG:N	2.63	0.53
30:BG:70:VAL:CG2	30:BG:87:PRO:HB3	2.39	0.53
33:BM:133:GLN:HB2	33:BM:135:PRO:HD3	1.90	0.53
39:BR:108:ARG:HA	39:BR:111:ARG:HE	1.74	0.53
54:B8:23:VAL:CG1	54:B8:46:ARG:HD3	2.39	0.53
1:CA:194:C:C3'	1:CA:195:A:H5"	2.38	0.53
1:CA:449:C:O2	1:CA:449:C:O4'	2.26	0.53
1:CA:465:A:N6	1:CA:467:G:C2	2.77	0.53
1:CA:1263:C:H42	1:CA:1272:G:H1	1.56	0.53
1:CA:1286:A:H8	1:CA:1287:A:H4'	1.69	0.53
4:CG:117:ALA:O	4:CG:121:VAL:HG23	2.09	0.53
19:CV:64:GLU:CD	19:CV:64:GLU:H	2.17	0.53
22:CB:1:G:H5"	22:CB:2:C:OP1	2.09	0.53
22:CB:40:G:C2	22:CB:41:G:C5	2.97	0.53
22:CB:45:U:O2'	22:CB:46:G:H5"	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:101:G:H2'	25:DA:102:G:OP1	2.09	0.53
25:DA:887:A:H2'	25:DA:887:A:N3	2.22	0.53
25:DA:2287:A:N1	25:DA:2346:A:N1	2.56	0.53
29:DF:129:PHE:HA	29:DF:142:TRP:CD1	2.44	0.53
30:DG:91:ARG:HD2	30:DG:92:VAL:N	2.23	0.53
35:DO:21:ARG:HA	35:DO:21:ARG:NE	2.17	0.53
35:DO:55:ARG:O	35:DO:56:SER:C	2.51	0.53
35:DO:78:PRO:HA	35:DO:110:TYR:CD2	2.43	0.53
41:D2:89:GLN:HE21	41:D2:90:PRO:HD2	1.72	0.53
46:D3:29:GLN:O	46:D3:67:VAL:HG23	2.08	0.53
1:AA:250:A:H4'	1:AA:251:G:O5'	2.07	0.53
1:AA:818:G:O2'	1:AA:819:A:H5'	2.09	0.53
1:AA:823:G:H21	8:AK:1:MET:CE	2.19	0.53
2:AE:68:ILE:O	2:AE:91:PRO:HD2	2.09	0.53
3:AF:36:ASP:OD2	3:AF:57:ILE:HG21	2.08	0.53
8:AK:87:SER:HB2	8:AK:93:VAL:CA	2.38	0.53
12:AO:75:HIS:HD2	12:AO:77:LEU:H	1.55	0.53
22:AB:85:C:H42	25:BA:2508:G:H5'	1.74	0.53
25:BA:372:G:O2'	25:BA:373:U:OP2	2.27	0.53
25:BA:1771:C:HO2'	25:BA:1786:A:C1'	2.22	0.53
25:BA:2712:U:O2'	25:BA:2712(A):A:P	2.67	0.53
27:BD:25:THR:CG2	27:BD:26:LYS:N	2.71	0.53
28:BE:82:ARG:C	28:BE:84:PHE:H	2.17	0.53
28:BE:82:ARG:C	28:BE:84:PHE:N	2.66	0.53
28:BE:111:ARG:HG2	37:B0:1:MET:HE1	1.91	0.53
31:BH:54:ARG:NH1	31:BH:65:HIS:ND1	2.56	0.53
31:BH:84:SER:O	31:BH:133:VAL:O	2.26	0.53
39:BR:39:ARG:CG	39:BR:40:THR:H	2.21	0.53
44:BU:90:LEU:N	44:BU:90:LEU:HD13	2.23	0.53
1:CA:1056:U:H5'	3:CF:163:ALA:CB	2.38	0.53
1:CA:1122:U:C4	1:CA:1123:A:N7	2.75	0.53
1:CA:1128:C:C2	1:CA:1139:G:C6	2.97	0.53
1:CA:1443:G:N2	39:DR:119:LYS:HB2	2.22	0.53
6:CI:50:TYR:HE1	18:CU:74:ARG:O	1.91	0.53
7:CJ:23:VAL:CG1	7:CJ:43:PHE:HE2	2.21	0.53
8:CK:111:ILE:HG22	8:CK:112:LEU:N	2.24	0.53
13:CP:3:ARG:HB2	50:D4:34:GLU:OE2	2.09	0.53
22:CB:40:G:H2'	22:CB:41:G:H8	1.74	0.53
25:DA:527:C:N4	25:DA:2779:U:OP2	2.42	0.53
25:DA:654(Q):C:H2'	25:DA:654(R):C:C6	2.44	0.53
25:DA:690:G:O2'	27:DD:43:ARG:NH2	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:854:G:O2'	25:DA:855:G:H5'	2.09	0.53
25:DA:1412:A:H2'	25:DA:1413:G:C8	2.42	0.53
25:DA:2031:A:C6	25:DA:2498:C:H1'	2.43	0.53
25:DA:2129:C:C4	25:DA:2130:U:N3	2.77	0.53
25:DA:2765:A:C2	25:DA:2766:G:O4'	2.61	0.53
26:DB:3:C:H2'	26:DB:3:C:O2	2.07	0.53
27:DD:35:LYS:NZ	27:DD:104:TYR:HB2	2.24	0.53
37:D0:91:GLN:O	37:D0:91:GLN:HG2	2.08	0.53
39:DR:47:GLY:CA	39:DR:63:VAL:HG12	2.37	0.53
45:DV:108:PRO:CB	45:DV:143:GLY:N	2.72	0.53
1:AA:148:G:C2	1:AA:149:A:N7	2.76	0.53
1:AA:295:C:H2'	1:AA:296:U:O4'	2.08	0.53
1:AA:339:C:OP2	34:BN:97:ARG:NH1	2.42	0.53
1:AA:433:C:O2'	1:AA:434:U:H5'	2.09	0.53
1:AA:614:A:OP1	4:AG:86:LYS:NZ	2.42	0.53
1:AA:1226:C:N4	13:AP:104:ARG:HG3	2.24	0.53
2:AE:236:TYR:HA	2:AE:239:VAL:CG2	2.38	0.53
10:AM:55:LYS:O	10:AM:56:HIS:CG	2.62	0.53
20:AW:13:LEU:HD12	20:AW:13:LEU:O	2.09	0.53
25:BA:535:C:O3'	40:B1:53:ARG:NH1	2.42	0.53
25:BA:988:A:P	49:BX:11:SER:HB3	2.49	0.53
25:BA:1069:A:H4'	25:BA:1070:A:H5"	1.91	0.53
25:BA:1079:C:H3'	25:BA:1080:A:C8	2.43	0.53
25:BA:2115:G:O6	25:BA:2117:A:H3'	2.08	0.53
25:BA:2646:C:H6	25:BA:2646:C:O5'	1.92	0.53
26:BB:90:C:P	36:BP:16:ARG:HH21	2.31	0.53
30:BG:114:ILE:CD1	30:BG:140:ILE:HG21	2.39	0.53
36:BP:43:THR:OG1	36:BP:46:GLN:HB2	2.08	0.53
39:BR:90:GLN:HG3	39:BR:91:ARG:N	2.24	0.53
39:BR:107:ASP:O	39:BR:110:ILE:HG23	2.08	0.53
44:BU:48:ALA:O	44:BU:49:VAL:C	2.52	0.53
52:B6:36:LEU:CD2	52:B6:36:LEU:H	2.20	0.53
54:B8:33:ASN:HA	54:B8:36:LYS:HE3	1.91	0.53
2:CE:172:ILE:O	2:CE:176:GLU:HG3	2.09	0.53
5:CH:147:ASP:HA	5:CH:150:ARG:HB2	1.91	0.53
6:CI:33:TYR:OH	6:CI:78:GLU:HG3	2.09	0.53
8:CK:10:LEU:HD22	8:CK:83:ILE:HD11	1.90	0.53
14:CQ:38:GLY:O	14:CQ:39:LEU:HD23	2.09	0.53
23:CC:19:G:O2'	23:CC:20:G:O5'	2.26	0.53
25:DA:322:A:OP2	29:DF:169:ASN:HB2	2.09	0.53
25:DA:1416:G:O2'	25:DA:1417:C:H6	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2320:A:C6	25:DA:2333:A:C8	2.97	0.53
25:DA:2593:U:H2'	25:DA:2594:C:C6	2.43	0.53
27:DD:35:LYS:HG2	27:DD:64:ILE:N	2.21	0.53
27:DD:79:VAL:HG21	27:DD:111:LEU:HD11	1.91	0.53
28:DE:47:VAL:C	28:DE:80:GLU:HA	2.29	0.53
29:DF:5:ALA:HB1	29:DF:125:LEU:HD21	1.91	0.53
33:DM:4:TYR:CD2	40:D1:100:VAL:HG11	2.44	0.53
35:DO:35:HIS:O	35:DO:36:LYS:C	2.51	0.53
36:DP:68:ILE:HG21	36:DP:103:MET:HB3	1.91	0.53
45:DV:108:PRO:CA	45:DV:143:GLY:HA2	2.37	0.53
45:DV:108:PRO:HB3	45:DV:142:SER:C	2.34	0.53
1:AA:445:G:H1	1:AA:489:C:H42	1.56	0.53
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.09	0.53
2:AE:21:ARG:CB	2:AE:39:ILE:HA	2.39	0.53
4:AG:88:VAL:HG13	5:AH:97:GLY:HA2	1.91	0.53
5:AH:63:ARG:CA	5:AH:66:MET:HE2	2.37	0.53
10:AM:32:ALA:CB	10:AM:76:ASN:HB2	2.38	0.53
21:AX:3:LYS:HB3	21:AX:14:TRP:CD1	2.43	0.53
25:BA:1079:C:H3'	25:BA:1080:A:H8	1.73	0.53
36:BP:137:TYR:C	36:BP:139:GLU:H	2.15	0.53
38:BQ:42:ASP:O	38:BQ:43:GLU:HG2	2.09	0.53
1:CA:57:G:H2'	1:CA:58:C:C6	2.44	0.53
1:CA:568:G:O6	12:CO:5:PRO:HD3	2.09	0.53
1:CA:587:G:N1	1:CA:754:C:OP2	2.42	0.53
1:CA:1238:A:N7	1:CA:1301:U:O4	2.41	0.53
2:CE:153:ARG:CG	2:CE:154:LEU:H	2.13	0.53
12:CO:37:CYS:SG	12:CO:81:SER:OG	2.66	0.53
14:CQ:15:LYS:HB3	14:CQ:15:LYS:NZ	2.23	0.53
18:CU:29:PHE:N	18:CU:29:PHE:CD2	2.77	0.53
19:CV:42:PRO:O	19:CV:43:GLU:HG2	2.08	0.53
20:CW:12:ALA:O	20:CW:15:ARG:HB2	2.08	0.53
25:DA:90:U:H2'	25:DA:90:U:O2	2.08	0.53
25:DA:273:G:H1	25:DA:364:C:H42	1.56	0.53
25:DA:321:G:H5'	29:DF:134:GLY:O	2.08	0.53
25:DA:528:A:C8	25:DA:528:A:C3'	2.91	0.53
25:DA:607:U:OP1	29:DF:102:PRO:HA	2.08	0.53
25:DA:994:C:H1'	41:D2:10:LYS:HE2	1.90	0.53
25:DA:1061:U:H4'	25:DA:1070:A:H1'	1.91	0.53
25:DA:1412:A:H2'	25:DA:1413:G:H8	1.74	0.53
25:DA:2112:G:N3	25:DA:2169:A:N6	2.56	0.53
25:DA:2143:C:H2'	25:DA:2144:U:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2335:A:C8	25:DA:2337:G:C5	2.97	0.53
25:DA:2410:G:C2	25:DA:2411:A:H1'	2.44	0.53
25:DA:2872:G:N7	25:DA:2873:A:C2	2.77	0.53
26:DB:31:C:C2'	26:DB:32:C:H5'	2.39	0.53
29:DF:110:LEU:HD22	29:DF:202:PHE:CE1	2.41	0.53
42:DS:88:ARG:NH1	42:DS:94:ASP:OD1	2.30	0.53
1:AA:170:U:O2'	1:AA:171:A:H5'	2.07	0.53
1:AA:312:C:C2'	1:AA:313:A:H5'	2.39	0.53
1:AA:382:A:H2'	1:AA:383:A:H8	1.68	0.53
3:AF:78:GLY:HA3	3:AF:83:ARG:CB	2.38	0.53
3:AF:166:GLU:CG	3:AF:167:TRP:N	2.72	0.53
8:AK:41:ARG:O	8:AK:41:ARG:HD2	2.09	0.53
10:AM:23:ILE:HD12	10:AM:85:LEU:HD22	1.90	0.53
19:AV:63:THR:N	19:AV:66:MET:HE3	2.24	0.53
22:AB:27:G:H3'	22:AB:28:C:H6	1.72	0.53
25:BA:1063:G:H1	25:BA:1075:C:N4	2.06	0.53
25:BA:1694:C:H5'	25:BA:1694:C:C6	2.44	0.53
25:BA:2681:C:H1'	25:BA:2682:U:OP2	2.09	0.53
25:BA:2839:G:H5"	37:B0:46:GLY:HA2	1.91	0.53
26:BB:61:G:C6	26:BB:62:C:C4	2.97	0.53
28:BE:16:ARG:O	28:BE:16:ARG:CG	2.51	0.53
33:BM:28:THR:HA	33:BM:106:MET:HE2	1.91	0.53
1:CA:114:U:O2'	1:CA:115:G:H5'	2.09	0.53
1:CA:411:A:N7	1:CA:413:G:N3	2.57	0.53
1:CA:1061:G:H2'	1:CA:1062:U:C5'	2.38	0.53
1:CA:1137:C:H5"	1:CA:1138:G:OP1	2.09	0.53
1:CA:1267:C:H2'	1:CA:1267:C:O2	2.09	0.53
2:CE:115:LEU:O	2:CE:118:LEU:HB2	2.08	0.53
9:CL:5:TYR:CD2	9:CL:18:PHE:CE2	2.97	0.53
9:CL:49:PRO:HD3	9:CL:78:LYS:HE3	1.90	0.53
12:CO:111:LYS:O	12:CO:112:ASP:HB2	2.09	0.53
22:CB:3:C:H2'	22:CB:4:G:C8	2.44	0.53
25:DA:274:G:C5	25:DA:275:G:C6	2.97	0.53
25:DA:284:U:C2'	25:DA:285:C:H5'	2.39	0.53
25:DA:528:A:C2'	25:DA:529:A:H5'	2.39	0.53
25:DA:1496:A:C8	25:DA:1577:C:O2'	2.51	0.53
25:DA:2638:G:OP2	28:DE:82:ARG:NH2	2.42	0.53
29:DF:9:ILE:HA	29:DF:13:SER:O	2.08	0.53
29:DF:25:PRO:HB2	29:DF:27:GLU:H	1.74	0.53
31:DH:41:MET:HE2	31:DH:64:LEU:HB2	1.91	0.53
32:DK:77:LEU:CD1	32:DK:78:THR:H	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DM:30:ILE:O	33:DM:34:LEU:HD22	2.08	0.53
38:DQ:106:ARG:HA	38:DQ:110:LEU:HG	1.90	0.53
1:AA:17:U:H2'	1:AA:18:C:C6	2.44	0.52
1:AA:412:A:H4'	1:AA:413:G:O5'	2.09	0.52
1:AA:922:G:C6	1:AA:923:A:C6	2.97	0.52
1:AA:1004:A:C4	1:AA:1025:U:O2	2.63	0.52
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.09	0.52
3:AF:58:GLU:N	3:AF:65:ALA:HB3	2.24	0.52
8:AK:29:SER:OG	8:AK:32:LYS:HB2	2.09	0.52
8:AK:104:ARG:O	8:AK:107:LEU:HB2	2.09	0.52
25:BA:989:G:N7	49:BX:13:ILE:CD1	2.72	0.52
25:BA:1021:A:C8	25:BA:1022:G:H5"	2.42	0.52
25:BA:1575:C:H2'	25:BA:1576:U:C6	2.44	0.52
25:BA:2682:U:H5'	25:BA:2682:U:H6	1.74	0.52
25:BA:2702:U:OP1	25:BA:2702:U:H6	1.92	0.52
25:BA:2820:A:O2'	25:BA:2821:A:OP1	2.25	0.52
29:BF:178:PRO:HB3	29:BF:198:ALA:CB	2.38	0.52
32:BK:104:GLN:O	32:BK:105:HIS:CD2	2.62	0.52
36:BP:58:PHE:HD1	36:BP:58:PHE:O	1.90	0.52
1:CA:126:G:H4'	1:CA:634:C:H1'	1.90	0.52
1:CA:280:C:H3'	1:CA:281:G:H5'	1.90	0.52
1:CA:1160:G:H2'	1:CA:1160:G:N3	2.24	0.52
1:CA:1256:A:N6	1:CA:1277:C:H3'	2.24	0.52
4:CG:9:CYS:O	4:CG:12:CYS:HB2	2.09	0.52
6:CI:2:ARG:HH21	6:CI:69:GLU:HG3	1.74	0.52
8:CK:51:VAL:HG11	8:CK:60:ARG:HH11	1.73	0.52
15:CR:8:LYS:O	15:CR:12:ILE:HG13	2.08	0.52
18:CU:22:VAL:HG22	18:CU:23:LYS:N	2.23	0.52
25:DA:2859:G:H3'	25:DA:2859:G:C8	2.45	0.52
26:DB:28:C:H2'	26:DB:29:A:O4'	2.09	0.52
27:DD:93:ALA:HB3	27:DD:105:ILE:HG22	1.92	0.52
35:DO:47:ASP:O	35:DO:50:ARG:N	2.42	0.52
35:DO:90:ARG:HG3	35:DO:91:PHE:CD1	2.44	0.52
40:D1:110:VAL:O	40:D1:114:LYS:HG2	2.09	0.52
41:D2:5:VAL:HB	41:D2:37:VAL:HG11	1.90	0.52
41:D2:87:HIS:CE1	41:D2:89:GLN:HB2	2.44	0.52
50:D4:33:VAL:HG23	50:D4:33:VAL:O	2.09	0.52
1:AA:51:A:OP2	1:AA:52:G:C8	2.62	0.52
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.74	0.52
1:AA:1164:G:H2'	1:AA:1165:C:C6	2.45	0.52
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1333:A:H2'	1:AA:1334:G:O5'	2.09	0.52
9:AL:29:ASN:OD1	9:AL:64:THR:HA	2.09	0.52
12:AO:24:VAL:HG12	12:AO:27:LEU:HG	1.90	0.52
22:AB:15:A:C2	22:AB:70:G:C6	2.96	0.52
22:AB:71:U:H6	22:AB:71:U:OP2	1.92	0.52
25:BA:1057:A:O2'	25:BA:1058:U:H5'	2.09	0.52
25:BA:1057:A:H2'	25:BA:1058:U:C6	2.45	0.52
25:BA:1385:G:H4'	25:BA:1386:C:OP1	2.09	0.52
25:BA:1590:U:H2'	25:BA:1591:G:C8	2.43	0.52
25:BA:1797:C:C2'	25:BA:1798:U:H5'	2.39	0.52
25:BA:2210:G:H5'	25:BA:2211:G:C5	2.44	0.52
27:BD:270:ILE:CG2	27:BD:271:ILE:N	2.72	0.52
30:BG:114:ILE:HD13	30:BG:140:ILE:HG21	1.90	0.52
40:B1:79:PHE:CE1	40:B1:106:PHE:CZ	2.94	0.52
40:B1:90:VAL:HG12	40:B1:91:ASP:CA	2.39	0.52
41:B2:34:GLU:O	41:B2:34:GLU:HG3	2.07	0.52
42:BS:21:VAL:HG23	42:BS:47:VAL:HG21	1.91	0.52
1:CA:20:U:H2'	1:CA:21:G:H5'	1.92	0.52
1:CA:362:G:H4'	12:CO:33:ARG:HH21	1.74	0.52
1:CA:973:G:H1'	10:CM:55:LYS:HG3	1.92	0.52
1:CA:977:A:C2	1:CA:1224:G:C5	2.97	0.52
1:CA:1014:A:H2'	1:CA:1015:A:N9	2.24	0.52
1:CA:1449:C:O3'	1:CA:1450:U:H4'	2.08	0.52
4:CG:101:LEU:HD23	4:CG:121:VAL:CG1	2.40	0.52
4:CG:127:THR:HB	4:CG:131:ARG:O	2.10	0.52
5:CH:47:LYS:O	5:CH:57:LYS:HD3	2.10	0.52
8:CK:95:VAL:HB	8:CK:99:GLU:HB2	1.91	0.52
13:CP:110:ARG:CG	13:CP:110:ARG:NH1	2.68	0.52
19:CV:67:VAL:O	19:CV:69:HIS:N	2.42	0.52
22:CB:76:U:C4	22:CB:77:C:C4	2.98	0.52
25:DA:886:C:C2	25:DA:890:A:N1	2.77	0.52
25:DA:1025:G:C5	25:DA:1135:C:H1'	2.45	0.52
26:DB:1:U:O4	26:DB:119:A:N1	2.42	0.52
26:DB:29:A:OP2	38:DQ:31:SER:HB2	2.09	0.52
31:DH:4:ILE:HG13	31:DH:6:ARG:H	1.75	0.52
40:D1:50:ARG:NH2	40:D1:50:ARG:HB2	2.25	0.52
41:D2:6:LYS:HG3	41:D2:11:GLN:HG2	1.91	0.52
43:DT:40:LYS:HA	43:DT:51:VAL:HG11	1.91	0.52
43:DT:55:ASN:HB2	43:DT:80:ILE:HG12	1.91	0.52
45:DV:40:ASP:OD1	45:DV:42:VAL:HB	2.09	0.52
1:AA:530:G:C4'	1:AA:531:U:OP2	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1367:C:HO2'	10:AM:48:THR:HG21	1.74	0.52
2:AE:106:LYS:O	2:AE:110:GLN:HG3	2.10	0.52
7:AJ:111:ARG:HB3	7:AJ:112:PRO:HD2	1.92	0.52
8:AK:86:ILE:O	8:AK:87:SER:C	2.52	0.52
8:AK:103:VAL:CG2	8:AK:110:ALA:HB2	2.39	0.52
14:AQ:44:LEU:HD12	14:AQ:44:LEU:C	2.35	0.52
15:AR:21:ASP:OD1	15:AR:24:SER:HB3	2.09	0.52
19:AV:7:LYS:O	19:AV:7:LYS:HD2	2.09	0.52
25:BA:443:A:H3'	29:BF:45:ARG:NH1	2.24	0.52
25:BA:880:G:N2	25:BA:898:C:C2	2.77	0.52
25:BA:1069:A:O2'	25:BA:1072:C:OP1	2.27	0.52
25:BA:1678:G:N2	25:BA:1989:G:N2	2.58	0.52
25:BA:2065:C:H2'	25:BA:2066:C:H6	1.73	0.52
25:BA:2068:U:N3	25:BA:2430:A:H2	2.04	0.52
25:BA:2210:G:H5'	25:BA:2211:G:N7	2.24	0.52
25:BA:2700:C:O2'	25:BA:2701:C:H5'	2.09	0.52
25:BA:2733:A:H3'	25:BA:2734:A:H5"	1.91	0.52
25:BA:2815:C:H2'	25:BA:2816:C:H6	1.75	0.52
32:BK:9:LEU:CB	32:BK:11:ASN:O	2.55	0.52
52:B6:15:GLU:HG3	52:B6:47:THR:HG21	1.91	0.52
1:CA:999:U:H3	1:CA:1041:A:H61	1.57	0.52
1:CA:1004:A:C5'	1:CA:1025:U:C4	2.92	0.52
1:CA:1175:G:N1	1:CA:1176:A:C6	2.77	0.52
4:CG:110:PHE:HZ	4:CG:182:LYS:HA	1.73	0.52
7:CJ:71:PRO:HD3	7:CJ:103:TRP:HZ3	1.75	0.52
19:CV:30:LEU:HD12	19:CV:31:ILE:H	1.74	0.52
22:CB:21:A:H1'	22:CB:22:G:P	2.49	0.52
23:CD:59:A:H8	23:CD:59:A:OP2	1.92	0.52
25:DA:307:G:N2	25:DA:309:G:H3'	2.24	0.52
25:DA:443:A:H5"	25:DA:444:C:OP1	2.09	0.52
25:DA:634:C:H2'	25:DA:635:C:C6	2.45	0.52
25:DA:863:A:O2'	25:DA:864:G:H5'	2.10	0.52
25:DA:908:C:O2'	25:DA:909:A:H5'	2.09	0.52
25:DA:1012:U:O2	25:DA:1143:A:C2	2.61	0.52
25:DA:1085:A:HO2'	25:DA:1086:A:H8	1.55	0.52
25:DA:1277:G:H4'	37:D0:20:LEU:HD11	1.91	0.52
25:DA:2638:G:O2'	25:DA:2639:A:H8	1.91	0.52
36:DP:110:THR:O	36:DP:113:GLN:HB2	2.09	0.52
37:D0:84:ALA:HB3	37:D0:85:PRO:HD3	1.92	0.52
40:D1:90:VAL:O	40:D1:92:ARG:HB3	2.10	0.52
51:D5:45:VAL:CG1	51:D5:56:LYS:HG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:5:U:O2'	1:AA:6:G:N3	2.42	0.52
1:AA:1157:A:H62	1:AA:1178:G:N2	2.07	0.52
7:AJ:109:ASN:OD1	7:AJ:119:ARG:NH2	2.37	0.52
17:AT:66:SER:OG	17:AT:69:LYS:HB2	2.09	0.52
25:BA:796:C:H2'	25:BA:797:C:C6	2.43	0.52
25:BA:1177:A:H5'	25:BA:1178:C:H6	1.74	0.52
25:BA:1264:G:H3'	25:BA:1265:A:H5"	1.91	0.52
25:BA:1364:G:OP2	47:BZ:2:SER:OG	2.26	0.52
25:BA:1478:G:O2'	25:BA:1558:A:H2	1.93	0.52
25:BA:1538:G:H8	25:BA:1538:G:O5'	1.92	0.52
25:BA:1794:U:H2'	25:BA:1795:C:C6	2.43	0.52
25:BA:1937:A:O2'	25:BA:1938:A:P	2.67	0.52
25:BA:2688:U:H3'	25:BA:2688:U:O2	2.10	0.52
27:BD:102:LYS:C	27:BD:103:ARG:HG2	2.34	0.52
28:BE:79:ARG:CZ	28:BE:197:ILE:CG2	2.87	0.52
30:BG:101:ILE:HG13	50:B4:25:TYR:O	2.09	0.52
31:BH:152:ARG:HE	31:BH:153:LYS:HZ3	1.57	0.52
33:BM:60:ILE:H	33:BM:60:ILE:HD13	1.74	0.52
34:BN:25:LEU:O	34:BN:26:LYS:HG2	2.09	0.52
36:BP:36:ALA:O	36:BP:99:PRO:HA	2.09	0.52
36:BP:104:PHE:CE1	36:BP:125:LEU:HD11	2.41	0.52
40:B1:91:ASP:O	40:B1:92:ARG:C	2.52	0.52
41:B2:25:LEU:H	41:B2:92:THR:HG21	1.75	0.52
1:CA:142:G:H1	1:CA:221:C:H42	1.58	0.52
1:CA:972:C:O3'	10:CM:57:LYS:CG	2.57	0.52
1:CA:986:A:N3	19:CV:52:TYR:OH	2.29	0.52
1:CA:995:C:O2	14:CQ:4:LYS:NZ	2.37	0.52
1:CA:1131:G:H2'	1:CA:1132:C:C6	2.36	0.52
2:CE:153:ARG:HG3	2:CE:154:LEU:N	2.15	0.52
6:CI:53:ALA:O	6:CI:54:LYS:HB2	2.10	0.52
19:CV:49:ILE:H	19:CV:49:ILE:HD12	1.74	0.52
23:CC:58:A:H2'	23:CC:59:A:H5'	1.91	0.52
23:CD:56:U:C4	23:CD:59:A:N6	2.78	0.52
25:DA:9:U:O4	25:DA:2629:A:C2	2.63	0.52
25:DA:534:U:O2'	40:D1:49:HIS:HD2	1.93	0.52
25:DA:979:G:H3'	25:DA:980:A:H5"	1.89	0.52
25:DA:1839:G:N3	25:DA:1839:G:H2'	2.24	0.52
25:DA:2327:A:H2'	25:DA:2328:A:H8	1.73	0.52
25:DA:2469:A:O2'	36:DP:56:ARG:HG2	2.10	0.52
25:DA:2713:A:H3'	25:DA:2714:G:C5'	2.40	0.52
27:DD:34:VAL:C	27:DD:35:LYS:HG3	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:5:LEU:HD12	28:DE:50:GLY:O	2.10	0.52
40:D1:50:ARG:HG2	40:D1:53:ARG:NH2	2.24	0.52
47:DZ:91:LYS:HE3	47:DZ:92:LYS:H	1.73	0.52
50:D4:16:CYS:HB3	50:D4:20:ASN:H	1.74	0.52
50:D4:38:LYS:C	50:D4:40:HIS:H	2.16	0.52
52:D6:25:LYS:HE2	52:D6:27:LYS:HZ2	1.75	0.52
1:AA:96:G:C6	1:AA:97:U:C2	2.98	0.52
1:AA:757:U:H2'	1:AA:758:G:O4'	2.09	0.52
1:AA:1131:G:H8	1:AA:1131:G:OP2	1.92	0.52
1:AA:1226:C:O2	19:AV:83:HIS:HE1	1.92	0.52
13:AP:115:LYS:O	13:AP:116:THR:C	2.51	0.52
23:AC:76:C:OP2	23:AC:77:A:O3'	2.26	0.52
25:BA:6:A:H2'	25:BA:7:G:O4'	2.09	0.52
25:BA:141:A:H8	25:BA:1595:G:H21	1.56	0.52
25:BA:1045:A:N3	25:BA:1111:A:N6	2.57	0.52
25:BA:2019:A:C2'	25:BA:2020:A:O5'	2.57	0.52
25:BA:2119:A:H61	25:BA:2170:A:H62	1.55	0.52
25:BA:2168:G:N3	25:BA:2168:G:C2'	2.73	0.52
25:BA:2250:G:C6	36:BP:82:ARG:HD3	2.44	0.52
25:BA:2352:A:C4	25:BA:2366:A:C2	2.97	0.52
25:BA:2505:G:O6	25:BA:2576:G:H2'	2.09	0.52
25:BA:2875:C:C4'	39:BR:5:ALA:HB2	2.40	0.52
27:BD:44:ASN:ND2	27:BD:44:ASN:N	2.57	0.52
27:BD:166:GLN:HA	27:BD:166:GLN:NE2	2.21	0.52
28:BE:170:LEU:HD11	28:BE:187:ALA:HB3	1.90	0.52
30:BG:82:LEU:CA	30:BG:86:MET:HE1	2.39	0.52
35:BO:15:ARG:O	35:BO:16:ARG:C	2.53	0.52
37:B0:42:LYS:O	37:B0:45:ARG:HD2	2.10	0.52
38:BQ:48:LEU:HD23	38:BQ:82:ILE:HD11	1.90	0.52
47:BZ:92:LYS:HA	47:BZ:95:LEU:CB	2.39	0.52
51:B5:51:TYR:H	51:B5:56:LYS:CB	2.23	0.52
52:B6:33:LYS:O	52:B6:35:GLU:HG3	2.09	0.52
1:CA:1160:G:N1	1:CA:1177:G:N2	2.33	0.52
1:CA:1235:U:O2'	1:CA:1305:G:O5'	2.26	0.52
1:CA:1330:U:H5'	1:CA:1331:G:O5'	2.09	0.52
2:CE:55:PHE:CD1	2:CE:58:ILE:HD12	2.44	0.52
4:CG:13:ARG:HB3	4:CG:33:MET:SD	2.49	0.52
5:CH:6:PHE:HB3	5:CH:35:GLY:C	2.34	0.52
5:CH:57:LYS:O	5:CH:61:TYR:CD2	2.63	0.52
10:CM:8:LEU:HD22	10:CM:20:ALA:CB	2.40	0.52
12:CO:40:VAL:HG11	12:CO:77:LEU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:84:A:O5'	44:DU:8:LYS:HD3	2.09	0.52
25:DA:154:G:H3'	25:DA:155:C:H6	1.73	0.52
25:DA:910:A:C5	36:DP:13:GLN:HG3	2.44	0.52
25:DA:1300:U:H5"	25:DA:1301:A:H5"	1.91	0.52
25:DA:1568:G:H21	27:DD:58:HIS:CE1	2.27	0.52
25:DA:1677:A:H2'	25:DA:1678:G:O4'	2.09	0.52
25:DA:2010:G:H5"	42:DS:42:ARG:HB2	1.91	0.52
25:DA:2329:G:H2'	25:DA:2330:G:C8	2.45	0.52
25:DA:2752:C:OP2	25:DA:2752:C:O4'	2.27	0.52
25:DA:2776:A:H4'	25:DA:2777:G:O5'	2.09	0.52
28:DE:8:LYS:HG2	28:DE:192:ASN:HD22	1.73	0.52
28:DE:37:ARG:HD3	28:DE:44:TYR:CZ	2.44	0.52
35:DO:64:LYS:HB2	54:D8:25:MET:CG	2.21	0.52
35:DO:113:LYS:HG2	35:DO:115:LEU:HD21	1.91	0.52
36:DP:78:PRO:O	36:DP:79:LEU:HG	2.09	0.52
36:DP:134:ARG:NH2	45:DV:122:ARG:HD2	2.24	0.52
52:D6:12:GLU:HG3	52:D6:21:TYR:HB3	1.92	0.52
1:AA:73:G:N3	1:AA:74:C:C5	2.78	0.52
1:AA:149:A:C2	1:AA:150:C:C2	2.98	0.52
1:AA:368:U:P	32:DK:91:SER:OG	2.68	0.52
1:AA:973:G:OP1	10:AM:57:LYS:HD3	2.09	0.52
1:AA:1258:G:C6	1:AA:1259:C:N4	2.77	0.52
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.45	0.52
2:AE:21:ARG:HG2	2:AE:21:ARG:O	2.05	0.52
3:AF:83:ARG:O	3:AF:86:VAL:HG22	2.10	0.52
20:AW:72:LEU:HD23	20:AW:72:LEU:C	2.34	0.52
23:AD:9:G:N2	23:AD:46:G:C8	2.77	0.52
23:AD:51:U:H2'	23:AD:52:C:C6	2.45	0.52
23:AD:60:A:C2'	23:AD:61:U:H5'	2.39	0.52
25:BA:84:A:N1	25:BA:98:G:O2'	2.33	0.52
25:BA:811:U:C4	35:BO:21:ARG:NH2	2.78	0.52
25:BA:1085:A:C4'	25:BA:1086:A:OP1	2.57	0.52
25:BA:1153:C:OP1	40:B1:76:TYR:OH	2.26	0.52
25:BA:1358:G:N2	25:BA:1372:U:C5	2.78	0.52
25:BA:1931:U:O4'	25:BA:1931:U:O2	2.24	0.52
29:BF:46:ARG:CG	29:BF:46:ARG:NH1	2.67	0.52
29:BF:117:ARG:NH2	35:BO:1:MET:O	2.43	0.52
33:BM:35:ARG:HG3	33:BM:37:LYS:HG3	1.89	0.52
34:BN:8:LEU:HD13	34:BN:82:ASN:HB2	1.91	0.52
38:BQ:15:ARG:HD3	38:BQ:88:ASP:OD2	2.10	0.52
39:BR:107:ASP:H	39:BR:110:ILE:HG23	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:B3:50:ASN:HB3	46:B3:63:VAL:HG22	1.91	0.52
1:CA:35:G:N2	1:CA:550:G:H1'	2.24	0.52
1:CA:567:G:H2'	1:CA:568:G:O4'	2.09	0.52
1:CA:634:C:H2'	1:CA:635:G:H8	1.75	0.52
1:CA:920:U:O4'	1:CA:1080:A:C2	2.62	0.52
1:CA:927:G:N2	1:CA:1391:U:H1'	2.25	0.52
1:CA:1149:C:OP2	9:CL:9:ARG:NH1	2.43	0.52
1:CA:1309:G:C6	1:CA:1329:A:C2	2.98	0.52
1:CA:1356:G:N2	1:CA:1367:C:O2	2.43	0.52
13:CP:37:THR:HG23	13:CP:59:TYR:CD2	2.45	0.52
17:CT:59:ILE:CG2	17:CT:71:PHE:HB3	2.39	0.52
17:CT:63:ARG:HG2	17:CT:64:PRO:HD2	1.90	0.52
23:CC:2:G:N3	23:CC:2:G:H2'	2.24	0.52
25:DA:1022:G:C2'	25:DA:1023:U:OP2	2.58	0.52
25:DA:1495:A:O2'	25:DA:1496:A:H5'	2.09	0.52
25:DA:1638:C:H4'	25:DA:2710:C:O2	2.09	0.52
26:DB:40:U:O2	26:DB:46:A:C6	2.62	0.52
27:DD:27:THR:CG2	27:DD:28:GLU:N	2.72	0.52
28:DE:66:HIS:HE1	28:DE:73:GLU:HG3	1.74	0.52
30:DG:143:GLU:OE2	30:DG:143:GLU:N	2.41	0.52
32:DK:51:ILE:HG22	32:DK:52:ARG:N	2.24	0.52
33:DM:39:ARG:HH11	33:DM:48:MET:HE2	1.75	0.52
37:D0:45:ARG:HA	37:D0:95:THR:HG21	1.91	0.52
42:DS:88:ARG:HD3	42:DS:94:ASP:OD1	2.09	0.52
46:D3:72:ARG:CB	46:D3:75:LEU:HB2	2.39	0.52
53:D7:43:THR:HG22	53:D7:44:PRO:O	2.09	0.52
54:D8:61:LEU:O	54:D8:62:LEU:C	2.51	0.52
1:AA:256:U:OP1	17:AT:17:LYS:NZ	2.43	0.52
2:AE:69:LEU:HD13	2:AE:91:PRO:HB2	1.92	0.52
4:AG:11:LEU:O	4:AG:12:CYS:C	2.52	0.52
9:AL:9:ARG:HA	9:AL:76:ALA:HB1	1.91	0.52
9:AL:112:LYS:HD3	9:AL:112:LYS:C	2.34	0.52
23:AD:9:G:C6	23:AD:47:G:N1	2.77	0.52
25:BA:1188:U:H2'	25:BA:1189:A:H5'	1.92	0.52
25:BA:1339:G:N2	25:BA:1603:A:H1'	2.24	0.52
25:BA:1416:G:HO2'	25:BA:1417:C:P	2.32	0.52
25:BA:1793:C:O2	25:BA:1900:A:H2	1.93	0.52
25:BA:2818:G:O2'	25:BA:2819:G:H5'	2.09	0.52
27:BD:239:ARG:O	27:BD:240:ALA:HB2	2.08	0.52
28:BE:25:VAL:CG1	28:BE:183:LEU:HG	2.39	0.52
28:BE:59:VAL:CG1	28:BE:63:LEU:HB3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:50:ARG:HD3	54:B8:7:HIS:CD2	2.45	0.52
37:B0:74:LYS:O	37:B0:75:LEU:HB3	2.09	0.52
39:BR:129:ARG:O	39:BR:133:GLU:HG3	2.09	0.52
45:BV:141:VAL:HG12	45:BV:142:SER:H	1.75	0.52
50:B4:12:ALA:HB3	50:B4:24:THR:HB	1.90	0.52
53:B7:11:LYS:HE3	53:B7:15:THR:OG1	2.10	0.52
1:CA:10:A:H2'	1:CA:11:G:H8	1.75	0.52
1:CA:353:A:H2'	1:CA:354:G:OP2	2.10	0.52
1:CA:1105:A:C2	1:CA:1106:G:N7	2.78	0.52
1:CA:1106:G:N3	1:CA:1107:C:C6	2.78	0.52
1:CA:1319:A:C5'	1:CA:1320:C:OP1	2.57	0.52
2:CE:115:LEU:HD21	2:CE:153:ARG:NH1	2.25	0.52
4:CG:3:ARG:NH1	4:CG:115:ARG:HB3	2.23	0.52
4:CG:139:ARG:HG3	4:CG:139:ARG:NH1	2.25	0.52
6:CI:63:TYR:N	6:CI:63:TYR:CD2	2.78	0.52
16:CS:48:TRP:CH2	16:CS:76:GLN:NE2	2.78	0.52
22:CB:55:G:C4	22:CB:56:G:N7	2.78	0.52
23:CC:73:A:N6	23:CC:74:A:C6	2.78	0.52
25:DA:78:A:H2'	25:DA:79:G:H8	1.74	0.52
25:DA:239:U:H2'	25:DA:240:G:O4'	2.10	0.52
25:DA:1449(A):G:H2'	25:DA:1450:C:H6	1.73	0.52
25:DA:1858:G:H1'	25:DA:1884:A:H61	1.73	0.52
25:DA:2393:A:O3'	35:DO:62:LEU:HA	2.10	0.52
25:DA:2646:C:OP2	25:DA:2732:G:O2'	2.23	0.52
25:DA:2801:A:H5'	25:DA:2895:U:O2'	2.10	0.52
29:DF:123:LEU:HD11	29:DF:125:LEU:HD22	1.91	0.52
30:DG:109:VAL:HG22	50:D4:33:VAL:HG11	1.92	0.52
31:DH:54:ARG:HB3	31:DH:65:HIS:CD2	2.45	0.52
32:DK:142:VAL:HG22	32:DK:142:VAL:O	2.09	0.52
35:DO:15:ARG:O	35:DO:16:ARG:C	2.53	0.52
36:DP:7:MET:CB	36:DP:10:ARG:NH2	2.71	0.52
38:DQ:24:LEU:HD12	38:DQ:41:ASP:HB2	1.91	0.52
45:DV:145:GLU:O	45:DV:145:GLU:CG	2.57	0.52
52:D6:31:PRO:HB2	52:D6:33:LYS:H	1.74	0.52
1:AA:129(A):G:N2	1:AA:191(A):G:N7	2.57	0.52
1:AA:1250:A:H4'	9:AL:68:GLY:N	2.25	0.52
11:AN:54:ARG:NH2	23:AD:40:C:O3'	2.42	0.52
25:BA:26:G:H1'	25:BA:515:A:H61	1.75	0.52
25:BA:527:C:H4'	25:BA:528:A:O5'	2.10	0.52
25:BA:1103:A:H2'	25:BA:1104:C:H5'	1.92	0.52
25:BA:1593:G:H2'	25:BA:1594:G:H8	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2211:G:C4'	25:BA:2212:A:OP2	2.56	0.52
25:BA:2751:G:HO2'	25:BA:2752:C:P	2.32	0.52
25:BA:2901:C:C4	25:BA:2902:C:N4	2.74	0.52
27:BD:273:ARG:O	27:BD:273:ARG:HG2	2.08	0.52
28:BE:1:MET:HB3	28:BE:200:GLU:OE1	2.09	0.52
28:BE:11:MET:HE3	28:BE:186:GLY:HA2	1.91	0.52
28:BE:80:GLU:O	28:BE:81:ILE:C	2.53	0.52
30:BG:67:LYS:NZ	50:B4:6:HIS:NE2	2.57	0.52
35:BO:55:ARG:O	35:BO:56:SER:C	2.51	0.52
39:BR:90:GLN:NE2	39:BR:116:ALA:HA	2.25	0.52
47:BZ:87:PRO:O	47:BZ:88:LYS:C	2.52	0.52
54:B8:36:LYS:O	54:B8:38:GLY:N	2.43	0.52
1:CA:245:C:O2	1:CA:283:C:N3	2.43	0.52
1:CA:369:C:H2'	1:CA:369:C:O2	2.09	0.52
1:CA:1219:U:OP1	14:CQ:19:ARG:NH1	2.35	0.52
2:CE:137:ARG:HD3	2:CE:137:ARG:C	2.34	0.52
3:CF:186:PHE:CE2	3:CF:188:LEU:HD21	2.45	0.52
4:CG:31:CYS:C	4:CG:33:MET:N	2.68	0.52
4:CG:139:ARG:HH11	4:CG:139:ARG:CG	2.22	0.52
14:CQ:4:LYS:C	14:CQ:6:LEU:N	2.68	0.52
25:DA:56:A:C2	25:DA:115:C:O2	2.63	0.52
25:DA:309:G:N3	25:DA:329:G:O2'	2.40	0.52
25:DA:443:A:N7	29:DF:45:ARG:HD2	2.25	0.52
25:DA:751:A:H5'	42:DS:90:ARG:HA	1.92	0.52
26:DB:42:C:O2	30:DG:92:VAL:HA	2.10	0.52
27:DD:71:ASP:CG	27:DD:103:ARG:HH22	2.17	0.52
29:DF:7:TYR:HA	29:DF:125:LEU:O	2.10	0.52
30:DG:41:GLN:NE2	30:DG:60:LEU:HD12	2.25	0.52
30:DG:124:SER:HB2	30:DG:131:TYR:CE1	2.44	0.52
31:DH:41:MET:CE	31:DH:64:LEU:HB2	2.39	0.52
40:D1:52:ARG:HB3	40:D1:52:ARG:NH1	2.25	0.52
43:DT:24:GLY:O	43:DT:83:VAL:HG12	2.10	0.52
54:D8:25:MET:O	54:D8:48:PHE:CE1	2.62	0.52
1:AA:151:A:N3	1:AA:151:A:H2'	2.23	0.52
1:AA:321:A:N7	1:AA:328:C:O2'	2.36	0.52
1:AA:606:G:N2	1:AA:631:G:C8	2.78	0.52
1:AA:945:G:C2	1:AA:946:A:C8	2.98	0.52
1:AA:1399:C:C2	1:AA:1401:G:C5	2.98	0.52
5:AH:31:LEU:HD23	5:AH:45:PHE:CD1	2.38	0.52
5:AH:41:VAL:CG1	5:AH:113:ALA:HB2	2.39	0.52
22:AB:42:U:H3'	22:AB:43:A:H8	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:21:U:C3'	23:AD:22:A:C5'	2.88	0.52
25:BA:197:A:N6	25:BA:2430:A:H2'	2.24	0.52
25:BA:270(J):G:H2'	25:BA:270(K):C:O4'	2.10	0.52
25:BA:784:A:C5	27:BD:229:VAL:HG21	2.45	0.52
25:BA:943:U:OP2	35:BO:36:LYS:CE	2.58	0.52
25:BA:1192:G:O2'	25:BA:1193:G:H5'	2.10	0.52
25:BA:1939:U:OP1	25:BA:2604:U:O2'	2.23	0.52
26:BB:13:A:H2'	26:BB:70:C:O2'	2.10	0.52
31:BH:6:ARG:HA	31:BH:66:GLY:HA2	1.91	0.52
38:BQ:4:LEU:O	38:BQ:5:THR:HG23	2.10	0.52
38:BQ:11:LYS:HD2	38:BQ:15:ARG:NH2	2.23	0.52
45:BV:48:PHE:HE2	45:BV:71:VAL:HG21	1.74	0.52
1:CA:838:G:H1	1:CA:848:C:H42	1.58	0.52
1:CA:1061:G:C2'	1:CA:1062:U:H5'	2.38	0.52
2:CE:67:THR:HG21	2:CE:155:LEU:HG	1.92	0.52
4:CG:24:GLU:C	4:CG:27:TYR:H	2.18	0.52
13:CP:87:TYR:O	13:CP:91:ARG:HG2	2.09	0.52
15:CR:24:SER:O	15:CR:28:GLN:HG3	2.09	0.52
16:CS:43:LYS:HB3	16:CS:48:TRP:CD1	2.45	0.52
19:CV:12:ASP:O	19:CV:16:LEU:HD13	2.09	0.52
25:DA:838:C:O2'	25:DA:839:U:H5'	2.10	0.52
25:DA:855:G:O2'	46:D3:27:GLU:OE2	2.27	0.52
25:DA:1217:C:P	40:D1:15:LYS:HE3	2.50	0.52
25:DA:1769:G:O2'	25:DA:1958:C:OP1	2.22	0.52
25:DA:2249:U:N3	25:DA:2253:G:OP2	2.35	0.52
25:DA:2469:A:C2	25:DA:2470:G:C5	2.98	0.52
26:DB:8:U:H3	26:DB:112:G:H1	1.58	0.52
27:DD:32:SER:HA	27:DD:35:LYS:O	2.09	0.52
30:DG:75:LYS:O	30:DG:76:SER:HB2	2.09	0.52
31:DH:78:GLY:O	31:DH:136:ILE:HG22	2.09	0.52
39:DR:6:LEU:O	39:DR:10:VAL:HG23	2.10	0.52
1:AA:351:G:H4'	1:AA:352:C:OP1	2.09	0.52
1:AA:627:G:O2'	1:AA:628:G:H5'	2.10	0.52
1:AA:835:U:OP2	18:AU:60:ALA:HB3	2.10	0.52
1:AA:883:C:H2'	1:AA:884:U:H5'	1.90	0.52
1:AA:1005:A:C2	1:AA:1006:C:C2	2.98	0.52
3:AF:104:GLN:HE21	3:AF:104:GLN:HA	1.75	0.52
6:AI:8:ILE:HG22	6:AI:10:LEU:HD12	1.90	0.52
23:AD:31:G:H2'	23:AD:32:G:C8	2.45	0.52
25:BA:602:G:N2	25:BA:655:A:C8	2.74	0.52
25:BA:744:G:OP1	28:BE:132:HIS:ND1	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1210:A:H5"	25:BA:1212:G:O4'	2.10	0.52
25:BA:1332:G:H21	25:BA:1610:A:H8	1.57	0.52
25:BA:1798:U:H5"	27:BD:259:THR:CG2	2.31	0.52
25:BA:2281:C:O2'	25:BA:2282:G:H5'	2.09	0.52
26:BB:73:A:C4	26:BB:104:A:C2	2.98	0.52
27:BD:30:GLU:CD	27:BD:63:ARG:HH21	2.18	0.52
31:BH:153:LYS:HZ3	31:BH:153:LYS:H	1.56	0.52
33:BM:35:ARG:O	33:BM:37:LYS:HG3	2.10	0.52
40:B1:98:LEU:HD23	40:B1:99:ALA:N	2.25	0.52
52:B6:41:PRO:HD2	52:B6:46:HIS:CA	2.39	0.52
1:CA:407:G:H1	1:CA:435:C:N4	2.04	0.52
1:CA:976:G:C8	1:CA:1358:U:C2	2.98	0.52
1:CA:1187:G:P	9:CL:113:LYS:HZ1	2.33	0.52
1:CA:1281:U:H3'	1:CA:1282:C:C5	2.45	0.52
1:CA:1306:A:H61	1:CA:1331:G:H1'	1.75	0.52
3:CF:190:ARG:H	3:CF:190:ARG:HD2	1.75	0.52
5:CH:67:VAL:HG21	5:CH:140:ARG:HG3	1.91	0.52
23:CD:57:C:N4	25:DA:2112:G:H22	1.98	0.52
25:DA:200:U:O4	25:DA:250:G:N2	2.43	0.52
25:DA:734:A:O2'	25:DA:1635:G:H5'	2.10	0.52
25:DA:747:U:H5	51:D5:3:LYS:HB2	1.67	0.52
25:DA:1287:A:H5"	25:DA:1288:U:OP2	2.09	0.52
25:DA:2173:A:C2	25:DA:2174:C:H4'	2.45	0.52
25:DA:2271:G:OP1	46:D3:18:ALA:HB1	2.10	0.52
25:DA:2483:C:O2	25:DA:2483:C:H2'	2.10	0.52
25:DA:2713:A:H3'	25:DA:2714:G:H5'	1.91	0.52
26:DB:15:A:C3'	26:DB:16:G:H5'	2.36	0.52
27:DD:35:LYS:CE	27:DD:104:TYR:HD1	2.23	0.52
28:DE:52:LEU:O	28:DE:75:VAL:N	2.43	0.52
29:DF:83:PHE:C	29:DF:84:VAL:HG12	2.33	0.52
32:DK:76:THR:HG23	32:DK:77:LEU:H	1.75	0.52
36:DP:20:ALA:O	36:DP:21:THR:HG22	2.10	0.52
36:DP:77:LYS:C	36:DP:79:LEU:H	2.17	0.52
41:D2:27:ALA:HB3	41:D2:61:VAL:HG21	1.92	0.52
1:AA:39:G:N7	1:AA:547:A:C8	2.75	0.51
1:AA:129(A):G:C2	1:AA:191(A):G:C8	2.98	0.51
1:AA:130:A:O2'	1:AA:131:C:O5'	2.25	0.51
1:AA:389:A:H2'	1:AA:390:C:C5'	2.40	0.51
1:AA:620:C:C6	4:AG:135:LEU:HD23	2.45	0.51
1:AA:812:C:H4'	1:AA:813:U:O5'	2.09	0.51
1:AA:1054:C:O2'	1:AA:1055:A:H5"	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:63:LEU:HB3	8:AK:65:TYR:CE1	2.45	0.51
20:AW:96:GLY:O	20:AW:97:ALA:HB3	2.09	0.51
23:AD:8:U:H5"	23:AD:9:G:OP2	2.10	0.51
25:BA:229:A:O2'	25:BA:230:U:OP1	2.26	0.51
25:BA:654(I):C:H3'	25:BA:654(I):C:O2	2.10	0.51
25:BA:1047:G:HO2'	25:BA:1048:A:H8	1.55	0.51
25:BA:1380:G:N2	25:BA:1570:A:C2	2.77	0.51
25:BA:2209:C:O2	25:BA:2216:G:C2	2.62	0.51
25:BA:2689:U:H4'	25:BA:2690:C:OP2	2.10	0.51
25:BA:2884:U:H2'	25:BA:2885:C:H5'	1.91	0.51
27:BD:270:ILE:O	27:BD:271:ILE:CG1	2.49	0.51
28:BE:34:VAL:HG21	28:BE:64:LYS:HZ1	1.76	0.51
28:BE:59:VAL:HG13	28:BE:63:LEU:CB	2.40	0.51
30:BG:26:GLN:NE2	30:BG:27:ASN:HB2	2.25	0.51
31:BH:4:ILE:C	31:BH:6:ARG:N	2.69	0.51
31:BH:86:GLU:HG2	31:BH:87:LEU:H	1.76	0.51
33:BM:130:HIS:CD2	33:BM:134:ARG:HH12	2.29	0.51
37:B0:57:ARG:HB3	37:B0:59:ASP:OD1	2.10	0.51
38:BQ:106:ARG:HA	38:BQ:110:LEU:HD21	1.91	0.51
45:BV:128:VAL:HG23	45:BV:160:GLY:HA3	1.92	0.51
45:BV:142:SER:N	45:BV:143:GLY:HA2	2.24	0.51
1:CA:375:U:OP1	16:CS:69:THR:OG1	2.16	0.51
1:CA:652:U:C4	1:CA:752:G:N3	2.77	0.51
1:CA:952:U:H4'	1:CA:964:A:N1	2.26	0.51
1:CA:1142:G:H2'	1:CA:1143:G:C8	2.45	0.51
1:CA:1291:G:C6	1:CA:1292:U:C4	2.97	0.51
2:CE:166:ASP:CG	2:CE:169:LYS:HB2	2.35	0.51
7:CJ:24:THR:HA	7:CJ:27:ILE:HD12	1.91	0.51
22:CB:76:U:O4	22:CB:77:C:N4	2.43	0.51
25:DA:657:U:H2'	25:DA:658:C:C6	2.45	0.51
25:DA:1085:A:C4'	25:DA:1086:A:OP1	2.58	0.51
25:DA:1504:C:O2'	25:DA:1505:C:H5'	2.09	0.51
25:DA:2061:G:H5"	25:DA:2503:A:C2	2.44	0.51
26:DB:43:C:H1'	30:DG:93:THR:O	2.10	0.51
26:DB:44:G:H1'	26:DB:47:C:N4	2.25	0.51
29:DF:63:LYS:CE	29:DF:67:GLN:HB3	2.40	0.51
30:DG:171:ALA:O	30:DG:174:GLU:N	2.43	0.51
32:DK:25:TYR:CE2	32:DK:29:TYR:HD2	2.27	0.51
40:D1:74:LEU:HD12	40:D1:74:LEU:N	2.25	0.51
41:D2:76:LYS:C	41:D2:79:VAL:CG2	2.83	0.51
51:D5:49:CYS:O	51:D5:56:LYS:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:789:U:C5	1:AA:792:A:OP2	2.60	0.51
1:AA:1008:C:N4	1:AA:1021:G:H1	2.06	0.51
1:AA:1363:A:H1'	1:AA:1365:G:N7	2.25	0.51
14:AQ:12:ARG:C	14:AQ:14:PRO:HD2	2.35	0.51
22:AB:7:G:C3'	22:AB:8:U:C5'	2.82	0.51
23:AD:11:A:N1	23:AD:26:C:O2	2.43	0.51
25:BA:125:G:H4'	25:BA:126:A:OP2	2.10	0.51
25:BA:479:A:O2'	25:BA:481:G:H2'	2.10	0.51
25:BA:963:U:H2'	25:BA:964:C:C6	2.46	0.51
25:BA:1063:G:H2'	25:BA:1064:C:C6	2.44	0.51
25:BA:1168:G:C2	25:BA:1182:A:C2	2.98	0.51
25:BA:2628:C:O2'	25:BA:2781:A:H2'	2.10	0.51
27:BD:35:LYS:H	27:BD:64:ILE:CG2	2.23	0.51
27:BD:72:LYS:HE3	27:BD:75:ILE:HD12	1.91	0.51
28:BE:50:GLY:HA2	28:BE:76:ARG:O	2.10	0.51
29:BF:29:ASN:N	29:BF:112:MET:HE1	2.25	0.51
32:BK:95:LYS:O	32:BK:98:ALA:HB3	2.11	0.51
34:BN:3:GLN:HG3	34:BN:4:PRO:HD2	1.91	0.51
41:B2:39:LEU:HD13	41:B2:51:VAL:HG22	1.91	0.51
44:BU:5:MET:CE	44:BU:32:PRO:HA	2.40	0.51
44:BU:50:ARG:O	44:BU:53:PRO:HD2	2.10	0.51
47:BZ:49:VAL:CG1	47:BZ:70:VAL:HG11	2.39	0.51
49:BX:43:ILE:O	49:BX:47:VAL:HG23	2.11	0.51
50:B4:15:ILE:O	50:B4:33:VAL:HG12	2.10	0.51
54:B8:36:LYS:HB2	54:B8:40:GLU:HB3	1.91	0.51
1:CA:57:G:C6	1:CA:58:C:C4	2.98	0.51
1:CA:464:G:C5	1:CA:466:C:OP2	2.63	0.51
1:CA:1355:G:O2'	1:CA:1356:G:H5'	2.10	0.51
12:CO:41:ARG:HH11	12:CO:41:ARG:CB	2.21	0.51
19:CV:66:MET:HA	19:CV:67:VAL:HB	1.92	0.51
23:CC:14:A:C2	23:CC:15:G:H1'	2.45	0.51
25:DA:528:A:C2	25:DA:2043:C:H4'	2.45	0.51
25:DA:654(S):G:C4'	25:DA:654(T):A:OP1	2.57	0.51
25:DA:1570:A:H2'	25:DA:1571:A:C8	2.45	0.51
25:DA:2353:G:H2'	25:DA:2354:G:O4'	2.09	0.51
25:DA:2531:A:C5'	31:DH:157:TYR:CE2	2.91	0.51
28:DE:89:ASP:O	28:DE:90:THR:C	2.53	0.51
36:DP:3:MET:HG3	36:DP:4:PRO:O	2.10	0.51
40:D1:76:TYR:OH	40:D1:93:LYS:HE2	2.10	0.51
41:D2:35:LEU:O	41:D2:37:VAL:HG13	2.09	0.51
44:DU:19:LYS:HE3	44:DU:71:LYS:HZ2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:D8:49:VAL:C	54:D8:50:LEU:CG	2.78	0.51
1:AA:147:G:C2	1:AA:176:C:O2	2.64	0.51
1:AA:210:U:O2'	1:AA:216:G:C8	2.64	0.51
1:AA:374:A:C6	1:AA:375:U:C4	2.98	0.51
1:AA:942:G:C2	1:AA:943:U:C6	2.99	0.51
1:AA:961:U:OP2	1:AA:1223:C:H1'	2.10	0.51
1:AA:965:A:C2	1:AA:969:A:C2	2.98	0.51
2:AE:17:PHE:HD1	2:AE:17:PHE:O	1.93	0.51
2:AE:22:LYS:HA	2:AE:22:LYS:HZ2	1.75	0.51
13:AP:115:LYS:O	13:AP:117:VAL:CG1	2.58	0.51
23:AD:19:G:C1'	23:AD:59:A:H2	2.21	0.51
25:BA:447:A:N1	25:BA:454:A:O2'	2.39	0.51
25:BA:827:U:H5'	25:BA:828:U:O5'	2.11	0.51
25:BA:1359:A:O4'	25:BA:1359:A:N3	2.43	0.51
25:BA:1983:C:H2'	25:BA:1984:G:H5'	1.93	0.51
25:BA:2565:A:H62	34:BN:28:SER:HB2	1.76	0.51
27:BD:34:VAL:O	27:BD:34:VAL:CG1	2.57	0.51
32:BK:29:TYR:C	32:BK:32:PRO:HD2	2.35	0.51
32:BK:101:LEU:HD22	32:BK:109:ILE:HG23	1.92	0.51
33:BM:42:TRP:O	40:B1:64:ARG:NH2	2.43	0.51
35:BO:62:LEU:CD2	54:B8:30:ARG:HH22	2.08	0.51
37:B0:2:ARG:HG3	37:B0:5:LYS:NZ	2.25	0.51
1:CA:332:G:OP2	20:CW:10:LEU:HD13	2.10	0.51
1:CA:560:U:H4'	1:CA:561:U:O5'	2.09	0.51
1:CA:827:U:H5"	1:CA:828:A:OP2	2.11	0.51
1:CA:978:A:C5'	1:CA:979:C:OP2	2.58	0.51
1:CA:1061:G:H1'	10:CM:56:HIS:CE1	2.45	0.51
1:CA:1065:U:C5	1:CA:1190:G:H1'	2.46	0.51
1:CA:1157:A:C2	1:CA:1181:G:H1'	2.46	0.51
2:CE:233:SER:HB3	2:CE:234:PRO:CD	2.36	0.51
9:CL:99:LEU:HB3	9:CL:101:PHE:CE1	2.45	0.51
13:CP:29:ARG:HD3	13:CP:64:TRP:CD2	2.44	0.51
23:CC:21:U:O2	23:CC:21:U:C2'	2.50	0.51
23:CD:61:U:O2'	23:CD:62:C:H5'	2.10	0.51
25:DA:19:C:H2'	25:DA:20:C:C6	2.45	0.51
25:DA:1226:G:P	41:D2:85:LYS:HA	2.50	0.51
25:DA:1609:A:O2'	25:DA:1610:A:H5'	2.11	0.51
25:DA:1796:U:H2'	25:DA:1797:C:C6	2.45	0.51
25:DA:2056:G:N3	25:DA:2056:G:H2'	2.25	0.51
25:DA:2065:C:H2'	25:DA:2066:C:H6	1.74	0.51
27:DD:73:VAL:HG13	27:DD:120:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:27:LEU:O	28:DE:27:LEU:HG	2.11	0.51
28:DE:70:ALA:C	28:DE:72:VAL:H	2.16	0.51
29:DF:84:VAL:HG22	29:DF:84:VAL:O	2.11	0.51
29:DF:125:LEU:HD12	29:DF:196:LEU:HD21	1.92	0.51
29:DF:155:LEU:HD23	29:DF:186:ILE:HD13	1.92	0.51
31:DH:151:ILE:O	31:DH:152:ARG:NE	2.42	0.51
36:DP:31:ASP:H	36:DP:107:ALA:CB	2.23	0.51
48:DW:17:SER:HB2	48:DW:18:PRO:CA	2.40	0.51
48:DW:17:SER:CB	48:DW:18:PRO:CA	2.88	0.51
2:AE:8:LYS:H	2:AE:8:LYS:CE	2.23	0.51
2:AE:189:ASP:OD1	2:AE:191:ASP:HB2	2.11	0.51
9:AL:81:ILE:O	9:AL:85:LEU:HG	2.10	0.51
23:AC:2:G:H2'	23:AC:3:C:C6	2.45	0.51
25:BA:18:C:O3'	40:B1:23:GLY:HA2	2.10	0.51
25:BA:325:G:O2'	25:BA:326:G:H5'	2.09	0.51
25:BA:1085:A:N3	25:BA:1086:A:N7	2.58	0.51
25:BA:1786:A:H1'	25:BA:1938:A:N6	2.25	0.51
28:BE:31:CYS:N	28:BE:91:VAL:O	2.39	0.51
29:BF:64:ILE:HG23	29:BF:65:TRP:CD1	2.46	0.51
30:BG:82:LEU:HA	30:BG:86:MET:HE1	1.93	0.51
33:BM:34:LEU:HD21	33:BM:120:LEU:HB2	1.91	0.51
44:BU:42:VAL:HG12	44:BU:65:ALA:HB3	1.91	0.51
50:B4:36:CYS:O	50:B4:39:CYS:SG	2.69	0.51
1:CA:180:U:H2'	1:CA:181:G:H5'	1.92	0.51
1:CA:668:G:C2'	1:CA:669:U:H5'	2.41	0.51
1:CA:1305:G:H5'	21:CX:4:GLY:HA3	1.91	0.51
2:CE:231:GLU:HB3	2:CE:232:PRO:HD3	1.92	0.51
5:CH:90:VAL:O	5:CH:120:THR:HA	2.10	0.51
10:CM:48:THR:HA	10:CM:62:HIS:CB	2.40	0.51
23:CC:76:C:H2'	23:CC:77:A:C8	2.46	0.51
23:CD:6:G:C2	23:CD:7:G:N7	2.78	0.51
25:DA:17:G:H4'	40:D1:25:TRP:CH2	2.45	0.51
25:DA:64:A:C4	43:DT:66:LEU:HD12	2.45	0.51
25:DA:588:U:H2'	25:DA:589:C:C6	2.45	0.51
25:DA:646:A:H2'	25:DA:647:G:O4'	2.10	0.51
25:DA:1027:A:N6	25:DA:1126:A:C4	2.79	0.51
25:DA:1063:G:C6	25:DA:1064:C:C2	2.99	0.51
25:DA:1421:G:C2	25:DA:1422:G:C8	2.99	0.51
25:DA:2117:A:N1	25:DA:2162:G:OP1	2.43	0.51
25:DA:2121:G:H1	25:DA:2177:C:H42	1.58	0.51
25:DA:2389:G:H5"	25:DA:2390:U:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:43:ARG:CB	27:DD:54:ARG:HB2	2.40	0.51
27:DD:130:ALA:C	27:DD:131:LEU:HD12	2.35	0.51
28:DE:60:ASN:O	28:DE:62:PRO:CD	2.59	0.51
28:DE:64:LYS:HB3	28:DE:66:HIS:HD2	1.73	0.51
30:DG:41:GLN:HE21	30:DG:60:LEU:HD12	1.76	0.51
38:DQ:106:ARG:O	38:DQ:107:GLU:HB2	2.10	0.51
52:D6:9:LEU:HD13	52:D6:11:LEU:HD21	1.92	0.51
1:AA:724:G:C2	1:AA:725:G:C8	2.98	0.51
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.10	0.51
2:AE:16:HIS:ND1	2:AE:16:HIS:N	2.56	0.51
3:AF:58:GLU:HB2	3:AF:65:ALA:HB3	1.91	0.51
9:AL:34:ASN:O	9:AL:38:GLN:HB2	2.10	0.51
23:AC:19:G:H4'	23:AC:20:G:OP1	2.10	0.51
25:BA:613:U:O2	25:BA:613:U:O4'	2.23	0.51
25:BA:1388:G:C2'	25:BA:1389:G:H5'	2.39	0.51
25:BA:2119:A:N1	25:BA:2170:A:C5	2.78	0.51
25:BA:2261:C:O2'	25:BA:2262:U:H5'	2.10	0.51
30:BG:2:PRO:HB3	50:B4:25:TYR:CE1	2.45	0.51
30:BG:131:TYR:O	30:BG:159:VAL:HG13	2.10	0.51
41:B2:35:LEU:C	41:B2:37:VAL:H	2.16	0.51
45:BV:48:PHE:CE2	45:BV:71:VAL:HG21	2.46	0.51
1:CA:116:A:OP2	1:CA:116:A:C8	2.64	0.51
1:CA:1128:C:H2'	1:CA:1129:C:O5'	2.09	0.51
1:CA:1213:A:N1	1:CA:1215:G:H1'	2.26	0.51
1:CA:1269:A:C2	1:CA:1313:U:H1'	2.45	0.51
2:CE:239:VAL:O	2:CE:240:GLN:HB2	2.09	0.51
19:CV:18:LYS:HA	19:CV:21:GLU:HG2	1.93	0.51
22:CB:27:G:O6	22:CB:45:U:O2	2.28	0.51
23:CC:40:C:H6	23:CC:40:C:O5'	1.93	0.51
23:CD:71:G:C2'	23:CD:72:C:H5'	2.40	0.51
25:DA:767:U:O2'	25:DA:768:G:H5'	2.11	0.51
25:DA:973:A:O4'	25:DA:1188:U:C6	2.64	0.51
25:DA:1011:G:OP1	40:D1:75:ASN:HB3	2.09	0.51
25:DA:1060:U:C2	25:DA:1088:A:H8	2.29	0.51
25:DA:1060:U:N3	25:DA:1088:A:H8	2.08	0.51
25:DA:1763:G:C4'	25:DA:1763:G:OP1	2.59	0.51
25:DA:2274:A:N1	25:DA:2276:G:H1'	2.26	0.51
26:DB:87:G:N2	26:DB:89(A):A:OP2	2.44	0.51
27:DD:27:THR:O	27:DD:28:GLU:HB2	2.11	0.51
27:DD:44:ASN:OD1	27:DD:44:ASN:N	2.43	0.51
27:DD:96:HIS:CE1	27:DD:102:LYS:HD3	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:74:ARG:NH1	39:DR:74:ARG:CG	2.65	0.51
41:D2:5:VAL:HB	41:D2:37:VAL:CG1	2.41	0.51
45:DV:59:LEU:HG	45:DV:69:THR:OG1	2.10	0.51
45:DV:114:GLY:C	45:DV:116:VAL:N	2.68	0.51
54:D8:32:LEU:HB2	54:D8:36:LYS:CE	2.39	0.51
1:AA:81:G:H2'	1:AA:82:U:O4'	2.10	0.51
1:AA:644:G:H2'	1:AA:645:C:O4'	2.11	0.51
1:AA:926:G:C5'	1:AA:927:G:O5'	2.58	0.51
1:AA:941:G:N2	1:AA:942:G:H1'	2.25	0.51
3:AF:20:SER:CB	3:AF:40:ARG:HH22	2.23	0.51
4:AG:126:ILE:CG2	4:AG:127:THR:N	2.73	0.51
4:AG:141:ARG:HB3	4:AG:142:PRO:HD2	1.91	0.51
5:AH:142:LEU:O	5:AH:143:ARG:NH1	2.43	0.51
8:AK:64:LYS:O	8:AK:65:TYR:HD1	1.93	0.51
13:AP:82:MET:O	13:AP:83:ASP:HB2	2.11	0.51
15:AR:78:TYR:O	15:AR:79:ARG:C	2.54	0.51
23:AC:77:A:C8	23:AC:77:A:H5'	2.46	0.51
25:BA:125:G:C6	53:B7:10:ARG:HG3	2.45	0.51
25:BA:910:A:N1	25:BA:2277:G:H1'	2.25	0.51
25:BA:930:U:O4'	25:BA:930:U:O2	2.26	0.51
25:BA:1177:A:H5"	25:BA:1178:C:O5'	2.09	0.51
25:BA:1760:A:O2'	25:BA:1761:C:H5'	2.10	0.51
25:BA:2148:G:H2'	25:BA:2149:G:H8	1.75	0.51
25:BA:2199:A:H5'	47:BZ:50:ARG:HH21	1.74	0.51
25:BA:2392:A:H2	25:BA:2424:C:N4	2.07	0.51
28:BE:59:VAL:CG2	28:BE:73:GLU:HB3	2.38	0.51
44:BU:43:ASN:HA	44:BU:64:GLU:HA	1.93	0.51
48:BW:65:ASN:ND2	48:BW:69:ARG:HE	2.08	0.51
1:CA:67:C:H2'	1:CA:68:G:C8	2.45	0.51
1:CA:1268:A:O2'	1:CA:1269:A:O5'	2.26	0.51
2:CE:48:MET:HA	2:CE:51:LEU:HB2	1.92	0.51
2:CE:56:ARG:HA	2:CE:56:ARG:HH11	1.75	0.51
3:CF:6:HIS:NE2	3:CF:184:TYR:CE2	2.79	0.51
15:CR:76:GLU:HA	15:CR:79:ARG:HD2	1.91	0.51
22:CB:66:U:O2	22:CB:68:A:N7	2.44	0.51
25:DA:4:C:H2'	25:DA:5:A:O4'	2.11	0.51
25:DA:83:G:N2	25:DA:103:A:OP2	2.43	0.51
25:DA:305:U:H2'	25:DA:306:U:C6	2.46	0.51
25:DA:743:G:C2'	25:DA:744:G:H5'	2.41	0.51
25:DA:2446:G:C3'	25:DA:2447:G:H5"	2.40	0.51
31:DH:169:VAL:HG22	31:DH:170:ARG:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:8:LEU:HD13	34:DN:82:ASN:HB3	1.92	0.51
35:DO:122:PRO:CB	35:DO:141:ALA:HB1	2.39	0.51
36:DP:20:ALA:O	36:DP:21:THR:CB	2.58	0.51
37:D0:107:ASP:C	37:D0:107:ASP:OD2	2.53	0.51
37:D0:117:VAL:O	37:D0:118:GLU:HB2	2.11	0.51
40:D1:95:LEU:HD21	41:D2:13:ARG:HB2	1.91	0.51
41:D2:61:VAL:O	41:D2:61:VAL:HG13	2.10	0.51
44:DU:84:ARG:O	44:DU:84:ARG:HG3	2.11	0.51
45:DV:23:LYS:HD3	45:DV:39:VAL:O	2.11	0.51
54:D8:52:LYS:HD3	54:D8:52:LYS:H	1.75	0.51
1:AA:1256:A:H4'	1:AA:1258:G:C4	2.45	0.51
2:AE:31:TYR:O	2:AE:42:ILE:HG13	2.10	0.51
2:AE:91:PRO:HG3	2:AE:155:LEU:HB2	1.92	0.51
2:AE:130:ARG:HH21	2:AE:138:LEU:HD11	1.75	0.51
3:AF:11:ARG:HH21	3:AF:180:ALA:HB3	1.74	0.51
3:AF:50:ALA:O	3:AF:70:VAL:HG13	2.10	0.51
4:AG:117:ALA:O	4:AG:121:VAL:HG23	2.10	0.51
11:AN:81:ASP:O	11:AN:82:VAL:C	2.53	0.51
11:AN:121:PRO:HG2	11:AN:126:ARG:CG	2.34	0.51
17:AT:70:ARG:C	17:AT:71:PHE:HD2	2.18	0.51
25:BA:330:A:C2	25:BA:1210:A:H2'	2.44	0.51
25:BA:883:G:N2	25:BA:893:C:N3	2.52	0.51
25:BA:1526:G:H2'	25:BA:1527:G:O4'	2.11	0.51
25:BA:1800:C:H5"	27:BD:147:LEU:HD21	1.91	0.51
26:BB:0:A:H2'	26:BB:1:U:C6	2.46	0.51
27:BD:272:ALA:HB1	27:BD:273:ARG:HA	0.68	0.51
28:BE:119:ARG:HD3	28:BE:160:TYR:CD2	2.46	0.51
29:BF:23:ASP:CG	29:BF:24:LEU:H	2.18	0.51
30:BG:7:LEU:HD23	30:BG:100:TRP:HZ3	1.74	0.51
30:BG:67:LYS:HG2	50:B4:5:ILE:HG23	1.93	0.51
30:BG:80:PHE:O	30:BG:81:LYS:C	2.54	0.51
32:BK:99:GLU:O	32:BK:102:SER:HB2	2.10	0.51
38:BQ:93:LYS:HG2	38:BQ:95:HIS:HB2	1.92	0.51
43:BT:55:ASN:HB2	43:BT:80:ILE:HG13	1.93	0.51
52:B6:40:CYS:HA	52:B6:46:HIS:CA	2.34	0.51
1:CA:374:A:C6	1:CA:375:U:C4	2.99	0.51
1:CA:1112:C:C2	3:CF:178:LEU:HB2	2.46	0.51
1:CA:1162:C:N4	1:CA:1174:G:H1	2.06	0.51
1:CA:1267:C:O2	1:CA:1267:C:C2'	2.59	0.51
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.11	0.51
5:CH:102:ALA:HB2	5:CH:120:THR:OG1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CJ:65:ALA:O	7:CJ:69:VAL:HG23	2.10	0.51
10:CM:13:HIS:CD2	10:CM:13:HIS:C	2.88	0.51
25:DA:260:G:O4'	25:DA:621:A:H1'	2.11	0.51
25:DA:330:A:H2	25:DA:1210:A:H2'	1.76	0.51
25:DA:607:U:N3	25:DA:621:A:C2	2.71	0.51
25:DA:705:A:H1'	27:DD:9:TYR:CE1	2.46	0.51
25:DA:971:C:H2'	25:DA:972:G:C5'	2.41	0.51
25:DA:2209:C:O2	25:DA:2216:G:C2	2.63	0.51
25:DA:2377:A:H2'	25:DA:2378:A:C8	2.46	0.51
25:DA:2447:G:H1'	25:DA:2448:A:OP2	2.10	0.51
25:DA:2571:C:C5'	25:DA:2572:A:H5"	2.35	0.51
25:DA:2750:A:C8	25:DA:2752:C:N4	2.76	0.51
25:DA:2779:U:O2	25:DA:2779:U:O4'	2.29	0.51
26:DB:1:U:H2'	26:DB:2:C:O4'	2.10	0.51
29:DF:51:THR:HG21	29:DF:92:PRO:HD2	1.93	0.51
31:DH:136:ILE:O	31:DH:137:ASP:HB2	2.11	0.51
38:DQ:38:GLN:OE1	38:DQ:47:THR:OG1	2.22	0.51
45:DV:24:LEU:C	45:DV:24:LEU:HD12	2.35	0.51
45:DV:156:LYS:O	45:DV:157:LEU:HB2	2.09	0.51
53:D7:12:ARG:NH2	53:D7:44:PRO:HB3	2.26	0.51
1:AA:191:G:C4	20:AW:105:SER:HB2	2.45	0.51
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.50	0.51
16:AS:51:VAL:HG12	16:AS:52:ASP:N	2.26	0.51
20:AW:89:ARG:NH2	20:AW:104:LEU:HD11	2.23	0.51
22:AB:64:G:O2'	22:AB:65:U:H5'	2.11	0.51
23:AD:10:G:C6	23:AD:27:G:N2	2.79	0.51
25:BA:57:C:H2'	25:BA:58:G:O4'	2.11	0.51
25:BA:511:U:C5	25:BA:512:G:C5	2.99	0.51
25:BA:1331:A:O2'	25:BA:1332:G:H8	1.93	0.51
25:BA:1403:C:C5'	25:BA:1471:A:H1'	2.38	0.51
25:BA:1449(A):G:H2'	25:BA:1450:C:H6	1.76	0.51
25:BA:1937:A:H1'	25:BA:1938:A:OP1	2.11	0.51
25:BA:1952:A:C4	34:BN:22:ILE:HG13	2.46	0.51
27:BD:134:ARG:HG3	27:BD:135:PHE:CE2	2.46	0.51
33:BM:95:PRO:O	33:BM:96:GLU:CD	2.53	0.51
36:BP:88:GLY:O	36:BP:90:VAL:O	2.29	0.51
49:BX:8:LEU:HD13	49:BX:31:LEU:CD2	2.41	0.51
52:B6:28:ARG:HB3	52:B6:28:ARG:NH1	2.26	0.51
52:B6:48:VAL:O	52:B6:49:HIS:HB2	2.11	0.51
1:CA:243:A:C2	1:CA:245:C:C2	2.99	0.51
1:CA:575:G:H4'	1:CA:576:G:OP1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:757:U:H2'	1:CA:758:G:O4'	2.11	0.51
1:CA:952:U:C5	13:CP:104:ARG:NH2	2.74	0.51
1:CA:960:U:C2'	1:CA:960:U:O2	2.59	0.51
1:CA:977:A:C2	1:CA:1224:G:C6	2.98	0.51
2:CE:136:VAL:O	2:CE:139:LYS:HB3	2.11	0.51
5:CH:43:LEU:HD22	5:CH:136:MET:HG3	1.93	0.51
5:CH:63:ARG:HA	5:CH:66:MET:CE	2.41	0.51
6:CI:69:GLU:OE1	6:CI:69:GLU:N	2.26	0.51
19:CV:65:ASN:HB2	19:CV:66:MET:CE	2.39	0.51
23:CC:35:C:O2	23:CC:36:A:C8	2.64	0.51
25:DA:729:G:C6	27:DD:208:LYS:HB2	2.46	0.51
25:DA:748:G:C8	42:DS:89:ALA:HB1	2.46	0.51
25:DA:833:U:O2	35:DO:55:ARG:NH1	2.40	0.51
25:DA:1170:G:O6	25:DA:1179:C:N3	2.44	0.51
25:DA:1341:U:H2'	25:DA:1397:U:O2	2.11	0.51
25:DA:2346:A:H5'	25:DA:2383:G:H1'	1.93	0.51
27:DD:35:LYS:CE	27:DD:104:TYR:CD1	2.93	0.51
27:DD:36:PRO:HA	27:DD:62:TYR:O	2.11	0.51
28:DE:134:ILE:HA	28:DE:137:HIS:CD2	2.46	0.51
31:DH:102:ALA:HA	31:DH:117:PRO:HD3	1.92	0.51
33:DM:137:LYS:HA	33:DM:137:LYS:NZ	2.25	0.51
43:DT:36:LYS:HD2	43:DT:56:THR:OG1	2.11	0.51
48:DW:41:ILE:CD1	48:DW:44:LEU:HG	2.37	0.51
1:AA:533:A:C2	1:AA:536:C:C5	2.98	0.51
1:AA:673:G:H5"	6:AI:87:ARG:NH1	2.26	0.51
1:AA:1436:U:H2'	1:AA:1437:C:O4'	2.10	0.51
2:AE:19:HIS:HD2	2:AE:20:GLU:OE1	1.93	0.51
11:AN:18:ARG:HB3	11:AN:33:THR:OG1	2.11	0.51
25:BA:1535:U:H3'	25:BA:1536:A:C5'	2.38	0.51
25:BA:2031:A:C6	25:BA:2498:C:H1'	2.45	0.51
25:BA:2135:A:N6	25:BA:2156:G:O2'	2.43	0.51
25:BA:2264:C:H2'	25:BA:2264:C:O2	2.11	0.51
25:BA:2287:A:N1	25:BA:2346:A:H2	2.09	0.51
25:BA:2291:U:O2'	25:BA:2374:C:O2	2.28	0.51
30:BG:107:LEU:HD11	30:BG:178:PHE:CE1	2.46	0.51
30:BG:115:ARG:O	30:BG:116:ASP:HB2	2.10	0.51
30:BG:133:LEU:HD21	30:BG:157:ILE:HB	1.93	0.51
30:BG:172:LEU:O	30:BG:176:LEU:HD12	2.11	0.51
32:BK:63:ALA:HA	32:BK:66:GLU:CD	2.35	0.51
35:BO:94:GLU:OE2	35:BO:94:GLU:HA	2.11	0.51
36:BP:105:GLU:HG2	36:BP:105:GLU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:61:PHE:CD2	39:BR:61:PHE:N	2.79	0.51
40:B1:50:ARG:HG2	40:B1:53:ARG:NH2	2.25	0.51
44:BU:19:LYS:HG2	44:BU:20:TYR:CD1	2.46	0.51
52:B6:11:LEU:HD11	52:B6:51:GLU:OE2	2.11	0.51
1:CA:485:G:H1'	1:CA:486:U:H5	1.75	0.51
1:CA:555:C:H2'	1:CA:556:C:C6	2.46	0.51
1:CA:677:U:H3	1:CA:713:G:H22	1.59	0.51
3:CF:199:LYS:HG2	3:CF:201:TYR:HE1	1.76	0.51
5:CH:36:ASP:OD2	5:CH:38:GLN:HB2	2.10	0.51
7:CJ:86:GLN:HE22	23:CD:32:G:H21	1.58	0.51
9:CL:8:GLY:HA2	9:CL:79:LEU:HD12	1.93	0.51
10:CM:6:ILE:HG22	10:CM:98:ILE:HG23	1.91	0.51
13:CP:66:LEU:HA	13:CP:70:LEU:HD12	1.93	0.51
14:CQ:29:ARG:O	14:CQ:30:ALA:CB	2.59	0.51
20:CW:75:ASN:OD1	20:CW:75:ASN:N	2.44	0.51
23:CD:15:G:H22	23:CD:60:A:H1'	1.76	0.51
23:CD:52:C:C2	23:CD:53:G:C8	2.99	0.51
25:DA:21:A:O2'	25:DA:22:C:H5'	2.11	0.51
25:DA:912:C:C2	25:DA:913:U:C5	2.98	0.51
25:DA:1444(A):A:H4'	25:DA:1460:A:H2'	1.93	0.51
25:DA:2439:A:C5'	25:DA:2439:A:H8	2.22	0.51
25:DA:2784:C:O2	28:DE:37:ARG:NH2	2.43	0.51
27:DD:58:HIS:HD2	27:DD:59:LYS:O	1.93	0.51
28:DE:13:ARG:O	39:DR:57:PHE:HE1	1.93	0.51
35:DO:98:GLU:O	35:DO:102:ARG:HB2	2.11	0.51
36:DP:59:ARG:CG	36:DP:59:ARG:NH2	2.71	0.51
49:DX:23:LEU:HD11	49:DX:53:LEU:CD1	2.41	0.51
49:DX:23:LEU:HD11	49:DX:53:LEU:HD11	1.92	0.51
52:D6:10:LEU:C	52:D6:11:LEU:HD22	2.36	0.51
1:AA:989:C:N4	1:AA:1216:G:H1	2.09	0.51
2:AE:39:ILE:HG22	2:AE:40:HIS:O	2.11	0.51
2:AE:204:ASN:HD22	2:AE:204:ASN:C	2.18	0.51
4:AG:81:GLU:CD	4:AG:139:ARG:HH22	2.19	0.51
12:AO:39:VAL:HG12	12:AO:41:ARG:HG2	1.92	0.51
13:AP:25:ILE:HD11	13:AP:60:VAL:CG1	2.41	0.51
13:AP:61:GLU:O	50:B4:49:PHE:HE2	1.93	0.51
25:BA:444:C:C4'	29:BF:49:ALA:HB2	2.41	0.51
25:BA:751:A:H5'	42:BS:90:ARG:HA	1.93	0.51
25:BA:2862:G:C5	25:BA:2863:C:C5	2.99	0.51
28:BE:23:VAL:CG1	28:BE:185:LYS:CB	2.57	0.51
33:BM:7:LYS:H	33:BM:7:LYS:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:57:HIS:ND1	36:BP:117:ALA:HB2	2.26	0.51
37:B0:103:ARG:NH1	42:BS:40:ASN:HD22	2.06	0.51
38:BQ:51:ALA:HB3	38:BQ:73:LEU:HG	1.92	0.51
39:BR:74:ARG:HD3	39:BR:76:PHE:HZ	1.75	0.51
40:B1:58:ARG:HA	40:B1:61:TRP:CE3	2.46	0.51
50:B4:59:PHE:HA	50:B4:62:ARG:HG2	1.93	0.51
51:B5:51:TYR:H	51:B5:56:LYS:HB3	1.76	0.51
1:CA:57:G:C5	1:CA:58:C:C4	2.99	0.51
1:CA:877:C:H5"	8:CK:88:LYS:HE3	1.93	0.51
1:CA:1002:G:H1	1:CA:1038:C:H42	1.58	0.51
1:CA:1027:C:O2'	1:CA:1028:C:O5'	2.28	0.51
2:CE:6:THR:HG23	2:CE:7:VAL:N	2.25	0.51
2:CE:215:LEU:O	2:CE:219:VAL:HG12	2.11	0.51
4:CG:91:SER:OG	4:CG:191:ARG:HG3	2.11	0.51
9:CL:97:LYS:HG3	9:CL:98:PRO:N	2.26	0.51
17:CT:45:HIS:CD2	17:CT:47:PRO:HD3	2.46	0.51
19:CV:66:MET:CE	50:D4:55:ARG:HB2	2.41	0.51
23:CD:54:G:H2'	23:CD:55:U:H6	1.76	0.51
25:DA:43:G:H2'	25:DA:44:A:O4'	2.11	0.51
25:DA:1599:C:C5'	43:DT:35:THR:HG22	2.39	0.51
25:DA:1973:G:H2'	25:DA:1974:C:C6	2.46	0.51
25:DA:2138:C:H42	25:DA:2153:G:H1	1.59	0.51
25:DA:2816:C:O3'	37:D0:99:LYS:NZ	2.44	0.51
33:DM:90:MET:SD	33:DM:97:ARG:HB3	2.50	0.51
35:DO:65:ARG:NH1	35:DO:65:ARG:CG	2.58	0.51
35:DO:134:ALA:O	35:DO:138:LEU:HD12	2.11	0.51
45:DV:108:PRO:O	45:DV:143:GLY:HA3	2.11	0.51
47:DZ:87:PRO:O	47:DZ:88:LYS:C	2.53	0.51
47:DZ:87:PRO:CA	47:DZ:90:ILE:HG23	2.30	0.51
1:AA:185:A:H2'	1:AA:186:C:H6	1.75	0.50
1:AA:428:G:O4'	1:AA:430:A:C8	2.64	0.50
1:AA:953:G:C5'	1:AA:965:A:H61	2.23	0.50
4:AG:86:LYS:H	4:AG:86:LYS:HD2	1.75	0.50
9:AL:97:LYS:HB3	9:AL:98:PRO:HD3	1.93	0.50
13:AP:64:TRP:CD1	13:AP:64:TRP:H	2.27	0.50
23:AC:24:C:H2'	23:AC:25:U:C6	2.46	0.50
23:AC:59:A:C5	23:AC:62:C:N3	2.79	0.50
23:AD:67:C:N4	23:AD:68:C:H41	2.07	0.50
23:AD:71:G:C2'	23:AD:72:C:H5'	2.40	0.50
25:BA:26:G:C6	25:BA:27:G:N1	2.79	0.50
25:BA:242:G:C5'	54:B8:62:LEU:HD13	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:287:C:H2'	25:BA:288:C:C6	2.46	0.50
25:BA:1386:C:OP2	25:BA:1396:U:H5	1.94	0.50
25:BA:2496:C:P	36:BP:81:VAL:HG13	2.51	0.50
25:BA:2564:A:C2	25:BA:2647:U:H4'	2.46	0.50
25:BA:2689:U:C4'	25:BA:2690:C:OP2	2.58	0.50
25:BA:2774:C:H2'	25:BA:2775:A:O4'	2.11	0.50
25:BA:2811:G:H2'	25:BA:2812:G:H5'	1.92	0.50
27:BD:25:THR:HG22	27:BD:26:LYS:N	2.25	0.50
29:BF:7:TYR:CD1	29:BF:7:TYR:N	2.78	0.50
33:BM:32:THR:HG22	33:BM:37:LYS:HB2	1.93	0.50
40:B1:92:ARG:O	40:B1:93:LYS:C	2.54	0.50
41:B2:34:GLU:HA	41:B2:57:VAL:O	2.10	0.50
54:B8:36:LYS:CG	54:B8:40:GLU:HG2	2.40	0.50
1:CA:439:A:H2'	1:CA:440:A:O5'	2.11	0.50
1:CA:1009:G:C2	1:CA:1010:G:C8	2.99	0.50
1:CA:1122:U:N3	1:CA:1123:A:N7	2.59	0.50
1:CA:1128:C:C2'	1:CA:1129:C:O5'	2.59	0.50
8:CK:136:GLU:O	8:CK:136:GLU:HG3	2.10	0.50
11:CN:63:LEU:HD23	11:CN:63:LEU:N	2.25	0.50
18:CU:29:PHE:N	18:CU:29:PHE:HD2	2.09	0.50
25:DA:226:G:N2	25:DA:228:A:H62	1.82	0.50
25:DA:270(L):U:H3	32:DK:50:ARG:NH1	2.09	0.50
25:DA:1144:G:C2	25:DA:1145:C:C2	2.99	0.50
25:DA:1531:C:H42	25:DA:1540:G:H1	1.59	0.50
25:DA:2129:C:C2'	25:DA:2130:U:H5'	2.41	0.50
25:DA:2513:G:N2	28:DE:143:ASN:HD21	2.09	0.50
25:DA:2777:G:C5'	25:DA:2778:A:H5'	2.30	0.50
35:DO:124:LYS:HA	35:DO:143:GLY:O	2.11	0.50
39:DR:26:ASP:HB2	39:DR:90:GLN:O	2.11	0.50
39:DR:93:ARG:CG	39:DR:117:ASP:HB2	2.40	0.50
46:D3:53:MET:HA	46:D3:58:THR:O	2.12	0.50
47:DZ:19:GLN:HB2	47:DZ:35:THR:O	2.11	0.50
54:D8:33:ASN:O	54:D8:34:TRP:HD1	1.87	0.50
54:D8:52:LYS:CB	54:D8:53:PRO:CD	2.90	0.50
1:AA:389:A:H2'	1:AA:390:C:H5'	1.94	0.50
1:AA:1002:G:C4	1:AA:1003:G:C8	2.99	0.50
1:AA:1298:C:H4'	1:AA:1299:A:N9	2.24	0.50
2:AE:237:ALA:H	2:AE:239:VAL:HG23	1.76	0.50
4:AG:7:PRO:HB2	4:AG:10:ARG:HD2	1.92	0.50
8:AK:51:VAL:HG11	8:AK:60:ARG:HG3	1.93	0.50
18:AU:22:VAL:HA	18:AU:25:THR:OG1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AC:2:G:H2'	23:AC:3:C:H6	1.77	0.50
23:AD:6:G:H2'	23:AD:7:G:H8	1.77	0.50
25:BA:88:G:O2'	25:BA:89:G:H5'	2.11	0.50
25:BA:236:C:H2'	25:BA:237:C:C6	2.47	0.50
25:BA:660:G:N2	35:BO:12:ALA:HA	2.26	0.50
25:BA:1065:U:H1'	25:BA:1074:G:N2	2.26	0.50
25:BA:1510:A:H4'	25:BA:1510:A:OP1	2.10	0.50
25:BA:1528:A:C2	25:BA:1543:A:N1	2.79	0.50
25:BA:2133:G:N3	25:BA:2158:A:N6	2.58	0.50
25:BA:2701:C:C3'	25:BA:2702:U:H5"	2.39	0.50
27:BD:35:LYS:CB	27:BD:64:ILE:H	2.24	0.50
30:BG:124:SER:HB2	30:BG:131:TYR:CE1	2.46	0.50
31:BH:11:VAL:CB	31:BH:12:PRO:HD2	2.37	0.50
35:BO:38:GLN:HG2	35:BO:45:LEU:CD1	2.41	0.50
38:BQ:85:VAL:CG2	38:BQ:112:PHE:HE1	2.15	0.50
44:BU:84:ARG:HH12	44:BU:97:ARG:HB2	1.76	0.50
1:CA:358:U:H2'	1:CA:359:U:H6	1.76	0.50
1:CA:972:C:OP2	10:CM:57:LYS:CD	2.59	0.50
1:CA:1128:C:C5'	9:CL:16:ARG:HH22	2.24	0.50
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.44	0.50
1:CA:1392:G:N2	1:CA:1502:A:C8	2.76	0.50
9:CL:114:TYR:C	9:CL:116:LYS:H	2.18	0.50
11:CN:34:ASP:HB2	11:CN:35:PRO:HD2	1.93	0.50
23:CD:55:U:N3	23:CD:56:U:H5	2.07	0.50
25:DA:528:A:O2'	25:DA:529:A:H5'	2.11	0.50
25:DA:627:A:H4'	25:DA:628:G:OP1	2.10	0.50
25:DA:1061:U:H4'	25:DA:1070:A:O2'	2.12	0.50
25:DA:1089:G:H5"	25:DA:1090:U:OP1	2.10	0.50
25:DA:1169:G:N2	25:DA:1181:C:C2	2.79	0.50
25:DA:1283:G:N2	25:DA:1285:G:H3'	2.26	0.50
25:DA:1313:U:H2'	25:DA:1610:A:C2	2.46	0.50
25:DA:1653:G:C6	37:D0:9:LYS:HB2	2.46	0.50
25:DA:1784:A:H4'	25:DA:1785:A:H5"	1.91	0.50
25:DA:1791:A:H8	25:DA:1791:A:OP2	1.94	0.50
25:DA:2468:G:C4	25:DA:2481:G:N2	2.79	0.50
25:DA:2575:C:H5'	28:DE:143:ASN:O	2.10	0.50
25:DA:2751:G:N2	31:DH:2:SER:N	2.58	0.50
25:DA:2795:G:C3'	25:DA:2797:U:H5"	2.36	0.50
25:DA:2847:U:C2'	25:DA:2848:G:H5'	2.42	0.50
27:DD:33:LEU:HD23	27:DD:34:VAL:N	2.26	0.50
28:DE:12:THR:HG22	39:DR:58:ASN:ND2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:173:VAL:N	28:DE:183:LEU:O	2.37	0.50
29:DF:116:ASP:O	29:DF:120:GLU:HG2	2.11	0.50
30:DG:43:LEU:HD12	30:DG:45:GLU:HG3	1.92	0.50
30:DG:111:LEU:O	30:DG:117:PHE:HD2	1.93	0.50
31:DH:26:VAL:HG13	31:DH:27:LYS:H	1.75	0.50
47:DZ:91:LYS:O	47:DZ:93:GLU:HB2	2.10	0.50
52:D6:11:LEU:HD23	52:D6:26:ASN:CB	2.35	0.50
52:D6:17:LYS:HA	52:D6:17:LYS:NZ	2.27	0.50
1:AA:972:C:OP2	10:AM:57:LYS:HE2	2.11	0.50
1:AA:991:U:H2'	1:AA:1212:U:O2	2.11	0.50
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.46	0.50
1:AA:1392:G:C2'	1:AA:1393:U:H5'	2.42	0.50
2:AE:178:ARG:HH22	2:AE:196:LEU:CA	2.23	0.50
2:AE:220:ASP:O	2:AE:223:ILE:HG13	2.10	0.50
13:AP:7:VAL:HB	30:BG:115:ARG:HH22	1.76	0.50
25:BA:1060:U:C4'	25:BA:1061:U:O5'	2.59	0.50
25:BA:1502:C:C2'	25:BA:1503:U:H5'	2.41	0.50
25:BA:2168:G:N2	25:BA:2170:A:P	2.84	0.50
25:BA:2329:G:H2'	25:BA:2330:G:C8	2.47	0.50
25:BA:2790:A:H2	25:BA:2894:G:C5'	2.25	0.50
25:BA:2875:C:H4'	39:BR:5:ALA:HB2	1.93	0.50
26:BB:1(M):A:C2'	26:BB:0:A:H5'	2.41	0.50
26:BB:7:G:H2'	26:BB:8:U:O4'	2.11	0.50
32:BK:35:LEU:O	32:BK:36:ALA:HB2	2.10	0.50
35:BO:86:LYS:HB3	35:BO:118:GLY:HA3	1.94	0.50
45:BV:142:SER:HB3	45:BV:143:GLY:HA2	1.94	0.50
1:CA:624:C:H2'	1:CA:625:G:H8	1.76	0.50
1:CA:878:G:H5'	8:CK:89:PRO:HG2	1.93	0.50
1:CA:1015:A:N6	1:CA:1016:A:C6	2.79	0.50
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.46	0.50
1:CA:1139:G:N2	1:CA:1143:G:N1	2.50	0.50
2:CE:69:LEU:HD21	2:CE:93:VAL:HG23	1.92	0.50
4:CG:150:GLU:O	4:CG:152:SER:N	2.43	0.50
4:CG:190:ASP:OD1	4:CG:191:ARG:N	2.45	0.50
8:CK:11:THR:HG22	8:CK:15:ASN:ND2	2.27	0.50
10:CM:56:HIS:O	10:CM:57:LYS:C	2.53	0.50
13:CP:15:VAL:HG13	13:CP:43:THR:O	2.11	0.50
18:CU:22:VAL:O	18:CU:23:LYS:HB3	2.10	0.50
25:DA:90:U:C2'	25:DA:90:U:O2	2.59	0.50
25:DA:93:C:H5'	25:DA:94:G:OP2	2.11	0.50
25:DA:394:A:H5"	25:DA:395:U:OP2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:460:A:C2	25:DA:470:A:C4	2.99	0.50
25:DA:631:A:H2'	25:DA:632:A:O4'	2.10	0.50
25:DA:2013:A:N6	25:DA:2014:A:C6	2.79	0.50
25:DA:2128:C:H42	25:DA:2160:G:H1	1.57	0.50
25:DA:2139:C:H2'	25:DA:2140:C:H5'	1.93	0.50
25:DA:2393:A:H5"	54:D8:30:ARG:HG2	1.93	0.50
25:DA:2712:U:O2'	25:DA:2712(A):A:P	2.69	0.50
26:DB:10:C:C4	26:DB:11:C:C5	2.98	0.50
26:DB:46:A:H2'	26:DB:47:C:C6	2.46	0.50
49:DX:31:LEU:O	49:DX:32:GLN:HB2	2.12	0.50
1:AA:156:G:H1	1:AA:165:C:N4	2.07	0.50
1:AA:437:U:C5'	4:AG:155:LEU:HD22	2.40	0.50
1:AA:750:G:N3	15:AR:23:GLY:HA3	2.26	0.50
1:AA:975:A:H62	10:AM:60:ARG:HH12	1.58	0.50
2:AE:5:ILE:HG13	2:AE:6:THR:N	2.25	0.50
2:AE:87:ARG:NH1	2:AE:220:ASP:OD1	2.43	0.50
3:AF:27:LYS:HZ3	3:AF:27:LYS:HA	1.76	0.50
5:AH:147:ASP:OD2	5:AH:147:ASP:N	2.45	0.50
16:AS:56:ALA:O	16:AS:60:LEU:HD12	2.11	0.50
25:BA:304:G:C2	25:BA:314:A:C2	3.00	0.50
25:BA:654(T):A:H2'	25:BA:654(U):A:O4'	2.12	0.50
25:BA:1983:C:O2'	25:BA:1984:G:H5'	2.10	0.50
25:BA:2116:G:P	25:BA:2165:G:N2	2.82	0.50
25:BA:2135:A:H2'	25:BA:2136:C:O5'	2.11	0.50
25:BA:2886:G:H2'	25:BA:2887:U:H6	1.75	0.50
25:BA:2893:G:H4'	25:BA:2894:G:O4'	2.11	0.50
27:BD:6:PHE:CE1	27:BD:18:VAL:CG2	2.94	0.50
28:BE:23:VAL:CG1	28:BE:185:LYS:CA	2.69	0.50
31:BH:30:LYS:CD	31:BH:81:GLU:H	2.11	0.50
33:BM:47:ALA:CB	33:BM:112:LEU:HD11	2.19	0.50
36:BP:65:PHE:O	36:BP:66:ILE:CG1	2.57	0.50
42:BS:70:TYR:HE2	42:BS:108:GLY:HA3	1.76	0.50
44:BU:42:VAL:O	44:BU:42:VAL:CG1	2.60	0.50
1:CA:339:C:C2'	1:CA:340:U:H5'	2.41	0.50
1:CA:1266:G:N2	1:CA:1269:A:OP2	2.44	0.50
1:CA:1403:C:O2'	1:CA:1404:C:H5'	2.11	0.50
4:CG:9:CYS:CA	4:CG:12:CYS:HB2	2.41	0.50
10:CM:30:SER:HB2	10:CM:81:THR:HG22	1.94	0.50
14:CQ:37:PHE:HE1	14:CQ:53:LEU:HD13	1.75	0.50
16:CS:74:LEU:HD13	16:CS:79:VAL:HG21	1.92	0.50
20:CW:51:GLU:HA	20:CW:54:LYS:HE3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CB:21:A:C4'	22:CB:22:G:OP1	2.60	0.50
22:CB:26:C:H5'	22:CB:27:G:OP2	2.11	0.50
25:DA:1557:C:H5"	25:DA:1558:A:OP2	2.11	0.50
25:DA:2393:A:P	54:D8:30:ARG:HB2	2.52	0.50
25:DA:2861:G:O2'	25:DA:2862:G:H5'	2.11	0.50
27:DD:35:LYS:NZ	27:DD:64:ILE:O	2.45	0.50
28:DE:167:VAL:HG12	28:DE:170:LEU:HD11	1.93	0.50
29:DF:110:LEU:HD21	29:DF:181:LEU:HD22	1.94	0.50
33:DM:38:HIS:CE1	33:DM:39:ARG:HG3	2.46	0.50
36:DP:10:ARG:HA	36:DP:10:ARG:HE	1.75	0.50
39:DR:22:PHE:HE2	39:DR:86:ILE:HD11	1.74	0.50
44:DU:76:CYS:HB3	44:DU:96:ILE:HD11	1.94	0.50
45:DV:108:PRO:HB3	45:DV:143:GLY:N	2.26	0.50
46:D3:12:ASN:HA	46:D3:14:ARG:HH21	1.76	0.50
47:DZ:89:GLU:HA	47:DZ:93:GLU:HG3	1.93	0.50
1:AA:352:C:O2'	1:AA:354:G:OP1	2.25	0.50
1:AA:464:G:C6	1:AA:466:C:H5'	2.47	0.50
1:AA:1028(A):C:N4	1:AA:1028(B):C:H41	2.09	0.50
1:AA:1032(B):G:C6	1:AA:1033:G:C6	2.99	0.50
1:AA:1160:G:O6	1:AA:1181:G:C6	2.64	0.50
2:AE:100:GLY:O	2:AE:104:ASN:N	2.42	0.50
4:AG:12:CYS:HA	4:AG:19:LEU:CD2	2.41	0.50
8:AK:16:ALA:HB2	8:AK:24:THR:HG21	1.92	0.50
9:AL:45:ALA:O	9:AL:78:LYS:NZ	2.26	0.50
22:AB:24:C:H6	22:AB:24:C:H3'	1.76	0.50
23:AD:60:A:H2'	23:AD:61:U:H5'	1.93	0.50
23:AD:67:C:N3	23:AD:68:C:C4	2.79	0.50
25:BA:155:C:N4	25:BA:171:G:H1	2.09	0.50
25:BA:236:C:H2'	25:BA:237:C:H6	1.76	0.50
25:BA:302:C:H2'	25:BA:303:U:H6	1.75	0.50
25:BA:826:U:H2'	25:BA:828:U:O4'	2.12	0.50
25:BA:974(A):C:H4'	25:BA:975:G:O5'	2.12	0.50
25:BA:1300:U:H4'	25:BA:1301:A:H5'	1.92	0.50
25:BA:1472:A:H2'	25:BA:1473:G:O4'	2.12	0.50
25:BA:1509:C:N4	25:BA:1511:A:N6	2.58	0.50
25:BA:2188:C:H2'	25:BA:2189:U:O4'	2.12	0.50
25:BA:2206:C:H2'	25:BA:2207:C:H6	1.76	0.50
27:BD:77:ALA:HB2	27:BD:97:TYR:HA	1.94	0.50
31:BH:4:ILE:HG21	31:BH:6:ARG:CZ	2.40	0.50
39:BR:56:GLY:O	39:BR:59:THR:CG2	2.56	0.50
54:B8:29:LYS:CD	54:B8:29:LYS:O	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B8:39:LYS:O	54:B8:43:GLN:HG3	2.12	0.50
54:B8:52:LYS:H	54:B8:53:PRO:HD2	1.74	0.50
1:CA:57:G:C6	1:CA:58:C:N4	2.80	0.50
1:CA:309:G:O2'	1:CA:607:A:N1	2.44	0.50
1:CA:340:U:H3	1:CA:349:A:H61	1.59	0.50
1:CA:672:U:H2'	1:CA:672:U:O2	2.10	0.50
1:CA:953:G:H5'	1:CA:965:A:H61	1.77	0.50
1:CA:1166:G:C2	1:CA:1171:G:C6	2.99	0.50
1:CA:1227:A:OP1	19:CV:80:TYR:OH	2.23	0.50
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.27	0.50
1:CA:1413:A:H2'	1:CA:1414:U:O4'	2.11	0.50
2:CE:5:ILE:CD1	2:CE:55:PHE:HB3	2.42	0.50
2:CE:121:LEU:HD23	2:CE:121:LEU:O	2.12	0.50
3:CF:64:VAL:CG2	3:CF:66:VAL:HG23	2.41	0.50
4:CG:120:LEU:HD22	4:CG:158:ILE:HD11	1.93	0.50
6:CI:76:ALA:HB1	6:CI:80:ARG:HH21	1.76	0.50
7:CJ:97:GLN:NE2	7:CJ:101:LEU:HD11	2.25	0.50
9:CL:4:TYR:HA	9:CL:88:TYR:CE1	2.47	0.50
10:CM:99:LYS:HD3	10:CM:100:THR:H	1.77	0.50
13:CP:10:PRO:HB2	13:CP:18:ALA:HB1	1.94	0.50
25:DA:57:C:H2'	25:DA:58:G:O4'	2.11	0.50
25:DA:483:A:H4'	44:DU:49:VAL:HA	1.92	0.50
25:DA:654(B):C:C2	25:DA:654(T):A:H2	2.29	0.50
25:DA:864:G:O6	25:DA:865:C:N4	2.43	0.50
25:DA:947:G:H2'	25:DA:948:G:C8	2.47	0.50
25:DA:997:G:OP1	40:D1:93:LYS:HD2	2.12	0.50
25:DA:2211:G:H4'	25:DA:2212:A:OP2	2.11	0.50
25:DA:2748:A:C2	25:DA:2749:A:C4	2.99	0.50
25:DA:2833:G:H8	25:DA:2833:G:OP1	1.95	0.50
26:DB:109:G:C6	26:DB:110:G:C5	2.99	0.50
28:DE:8:LYS:HB3	28:DE:192:ASN:HA	1.92	0.50
28:DE:8:LYS:HE3	28:DE:188:VAL:O	2.12	0.50
28:DE:51:PHE:O	28:DE:74:PRO:HB2	2.10	0.50
29:DF:3:GLU:O	29:DF:19:GLU:HB3	2.11	0.50
29:DF:83:PHE:O	29:DF:84:VAL:O	2.30	0.50
30:DG:25:TYR:HB3	30:DG:30:GLU:HB2	1.94	0.50
30:DG:32:PRO:HB2	30:DG:172:LEU:HD22	1.94	0.50
31:DH:74:ASN:ND2	31:DH:138:LYS:HG2	2.26	0.50
35:DO:65:ARG:O	35:DO:66:GLY:O	2.30	0.50
36:DP:138:ASP:OD2	36:DP:138:ASP:O	2.29	0.50
41:D2:47:VAL:HG22	41:D2:47:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DV:10:ARG:HH21	45:DV:26:GLY:H	1.60	0.50
1:AA:219:C:H2'	1:AA:220:G:O4'	2.10	0.50
1:AA:439:A:H2'	1:AA:440:A:O5'	2.12	0.50
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.73	0.50
2:AE:221:LEU:HD13	2:AE:221:LEU:O	2.11	0.50
4:AG:5:ILE:CG2	4:AG:6:GLY:N	2.69	0.50
7:AJ:38:LEU:HD12	7:AJ:38:LEU:O	2.12	0.50
11:AN:41:THR:HG21	11:AN:71:LYS:CB	2.41	0.50
15:AR:8:LYS:O	15:AR:12:ILE:HG13	2.11	0.50
18:AU:53:ARG:HE	18:AU:59:SER:C	2.20	0.50
19:AV:68:GLY:HA2	50:B4:59:PHE:CE1	2.46	0.50
25:BA:207:A:H2'	25:BA:208:C:O4'	2.10	0.50
25:BA:259:G:HO2'	25:BA:621:A:HO2'	1.38	0.50
25:BA:572:A:H3'	25:BA:573:G:O4'	2.12	0.50
25:BA:754:C:H2'	25:BA:755:C:C6	2.47	0.50
25:BA:998:C:C2'	25:BA:999:U:O5'	2.60	0.50
25:BA:1205:U:H4'	25:BA:1206:G:OP2	2.12	0.50
25:BA:1691:C:H2'	25:BA:1692:U:H5'	1.93	0.50
25:BA:2173:A:H2'	25:BA:2174:C:O4'	2.12	0.50
25:BA:2301:C:H6	25:BA:2301:C:H3'	1.76	0.50
25:BA:2371:G:C1'	52:B6:45:LYS:HG3	2.39	0.50
30:BG:63:ILE:HD12	30:BG:141:PHE:CD2	2.47	0.50
30:BG:82:LEU:C	30:BG:82:LEU:HD22	2.37	0.50
30:BG:86:MET:O	30:BG:87:PRO:C	2.54	0.50
34:BN:75:SER:HB2	39:BR:75:ILE:O	2.12	0.50
34:BN:98:VAL:HG13	34:BN:117:LEU:HB3	1.92	0.50
38:BQ:30:ARG:O	38:BQ:30:ARG:HG3	2.11	0.50
39:BR:50:ILE:HD11	39:BR:102:ILE:HD13	1.92	0.50
42:BS:79:GLY:HA3	42:BS:100:THR:CG2	2.42	0.50
45:BV:111:VAL:HG11	45:BV:146:ILE:CB	2.40	0.50
45:BV:169:GLU:CD	45:BV:170:THR:H	2.19	0.50
1:CA:6:G:H4'	1:CA:298:A:H4'	1.93	0.50
1:CA:19:C:H5"	5:CH:86:ALA:CB	2.42	0.50
1:CA:145:G:H2'	1:CA:146:G:O5'	2.11	0.50
1:CA:457:C:H2'	1:CA:458:C:C6	2.46	0.50
1:CA:763:G:H2'	1:CA:764:C:H6	1.75	0.50
1:CA:945:G:H2'	1:CA:945:G:N3	2.26	0.50
2:CE:24:TRP:O	2:CE:24:TRP:HD1	1.95	0.50
3:CF:14:ILE:CG1	3:CF:15:THR:H	2.25	0.50
3:CF:21:ARG:HB3	3:CF:21:ARG:HH11	1.76	0.50
3:CF:188:LEU:HD22	3:CF:188:LEU:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CI:25:ILE:HG21	6:CI:82:ARG:HD2	1.93	0.50
6:CI:61:LEU:HB3	6:CI:63:TYR:HE2	1.76	0.50
7:CJ:69:VAL:HG22	7:CJ:135:VAL:HG23	1.93	0.50
8:CK:82:HIS:CD2	8:CK:82:HIS:O	2.63	0.50
22:CB:41:G:H2'	22:CB:42:U:H6	1.77	0.50
25:DA:265:A:H1'	25:DA:266:G:O4'	2.12	0.50
25:DA:1879:C:H2'	25:DA:1880:C:O4'	2.12	0.50
25:DA:2156:G:C6	25:DA:2157:G:C2	3.00	0.50
25:DA:2401:U:C3'	25:DA:2402:C:H5"	2.42	0.50
25:DA:2462:U:H1'	25:DA:2491:U:O4	2.11	0.50
27:DD:10:THR:OG1	27:DD:13:ARG:HB2	2.11	0.50
27:DD:186:HIS:HD2	27:DD:188:GLU:N	2.05	0.50
28:DE:171:GLU:O	28:DE:184:VAL:HA	2.12	0.50
28:DE:204:ALA:O	28:DE:205:ALA:HB3	2.11	0.50
30:DG:61:ALA:HA	30:DG:64:THR:CG2	2.41	0.50
32:DK:84:GLY:O	32:DK:85:GLU:HB3	2.11	0.50
33:DM:38:HIS:ND1	33:DM:39:ARG:HG3	2.27	0.50
36:DP:25:ASP:OD1	36:DP:25:ASP:O	2.30	0.50
36:DP:97:VAL:HG21	36:DP:103:MET:HE3	1.94	0.50
37:D0:28:LEU:HD11	37:D0:114:VAL:HG12	1.94	0.50
48:DW:47:ASN:ND2	48:DW:47:ASN:H	2.09	0.50
1:AA:1014:A:H4'	19:AV:14:HIS:CE1	2.47	0.50
1:AA:1059:C:O2'	10:AM:53:PRO:HD3	2.11	0.50
2:AE:96:ARG:H	2:AE:96:ARG:CD	2.07	0.50
5:AH:126:ARG:CG	5:AH:126:ARG:NH1	2.62	0.50
9:AL:114:TYR:N	9:AL:114:TYR:HD2	2.10	0.50
10:AM:53:PRO:HA	14:AQ:42:ILE:HD11	1.94	0.50
11:AN:113:PRO:C	11:AN:114:VAL:HG12	2.37	0.50
12:AO:77:LEU:HD21	12:AO:107:ALA:HA	1.93	0.50
17:AT:18:THR:HG21	17:AT:69:LYS:HD2	1.93	0.50
22:AB:54:G:N1	22:AB:55:G:O6	2.45	0.50
22:AB:86:C:H2'	22:AB:87:A:C4	2.47	0.50
23:AD:56:U:O4	23:AD:58:A:H5"	2.11	0.50
25:BA:270(R):G:H2'	25:BA:270(S):G:C8	2.47	0.50
25:BA:309:G:O2'	25:BA:329:G:C8	2.63	0.50
25:BA:354:G:O2'	25:BA:355:G:H5'	2.12	0.50
25:BA:1278:A:OP1	37:B0:36:THR:HG23	2.12	0.50
25:BA:1464:C:O2'	25:BA:1528:A:H8	1.94	0.50
25:BA:2310:A:H61	30:BG:79:ASN:ND2	2.08	0.50
28:BE:23:VAL:CG1	28:BE:173:VAL:HG21	2.32	0.50
28:BE:53:PRO:O	28:BE:54:GLN:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:197:ASP:O	29:BF:198:ALA:CB	2.60	0.50
30:BG:57:ALA:HB2	30:BG:90:LEU:HD21	1.94	0.50
30:BG:82:LEU:HA	30:BG:86:MET:CE	2.42	0.50
42:BS:91:GLY:O	42:BS:92:ARG:O	2.30	0.50
48:BW:24:LEU:HD13	48:BW:60:LEU:HD11	1.92	0.50
51:B5:40:LYS:HG2	51:B5:47:PRO:CD	2.36	0.50
51:B5:42:PRO:CB	51:B5:43:HIS:HD2	2.24	0.50
54:B8:31:HIS:O	54:B8:32:LEU:O	2.30	0.50
1:CA:145:G:C2'	1:CA:146:G:O5'	2.60	0.50
1:CA:452:A:H2'	1:CA:453:A:H8	1.76	0.50
1:CA:668:G:O2'	15:CR:46:HIS:HB3	2.12	0.50
1:CA:860:A:H2'	1:CA:861:G:O4'	2.12	0.50
1:CA:879:C:C5	12:CO:6:THR:HG21	2.46	0.50
1:CA:980:C:H5"	1:CA:981:U:C5	2.47	0.50
1:CA:1026:G:C6	1:CA:1036:G:C2	2.99	0.50
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.76	0.50
1:CA:1226:C:P	13:CP:91:ARG:HH22	2.35	0.50
7:CJ:71:PRO:HD3	7:CJ:103:TRP:CZ3	2.47	0.50
9:CL:73:GLN:O	9:CL:76:ALA:HB3	2.12	0.50
10:CM:57:LYS:O	10:CM:58:ASP:O	2.30	0.50
13:CP:7:VAL:CG2	30:DG:115:ARG:HB3	2.42	0.50
14:CQ:36:PHE:CD1	14:CQ:37:PHE:CD2	2.99	0.50
19:CV:49:ILE:HD12	19:CV:49:ILE:N	2.27	0.50
20:CW:49:ALA:HB2	20:CW:92:LEU:HD22	1.94	0.50
23:CC:44:A:O2'	23:CC:45:A:H5'	2.12	0.50
23:CD:59:A:C1'	23:CD:61:U:H5	2.19	0.50
25:DA:656:G:H2'	25:DA:657:U:O4'	2.12	0.50
25:DA:1039:G:H1	25:DA:1116:C:H42	1.60	0.50
25:DA:1509:C:O2	25:DA:1509:C:H2'	2.12	0.50
25:DA:2250:G:O2'	25:DA:2496:C:OP1	2.18	0.50
25:DA:2273:A:H2'	25:DA:2274:A:C8	2.47	0.50
25:DA:2392:A:N1	25:DA:2424:C:N3	2.60	0.50
26:DB:3:C:N3	26:DB:117:G:N2	2.45	0.50
26:DB:15:A:H2'	26:DB:16:G:OP1	2.11	0.50
28:DE:96:PHE:O	28:DE:175:VAL:HG11	2.12	0.50
29:DF:88:VAL:O	29:DF:89:VAL:O	2.30	0.50
29:DF:123:LEU:O	29:DF:125:LEU:N	2.45	0.50
29:DF:133:ASN:HB3	29:DF:135:LYS:H	1.77	0.50
29:DF:164:ARG:HH11	29:DF:177:ALA:HB2	1.77	0.50
30:DG:59:GLU:CD	30:DG:153:ARG:HH21	2.19	0.50
32:DK:79:ILE:HD12	32:DK:140:LEU:HD21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:D8:22:VAL:O	54:D8:49:VAL:HA	2.12	0.50
1:AA:323:U:H2'	1:AA:324:G:O4'	2.12	0.50
1:AA:567:G:H2'	1:AA:568:G:O4'	2.11	0.50
1:AA:568:G:N3	1:AA:568:G:H2'	2.27	0.50
1:AA:1036:G:H3'	1:AA:1037:C:C5	2.46	0.50
1:AA:1206:G:C6	1:AA:1207:G:C5	3.00	0.50
1:AA:1318:A:C1'	19:AV:37:ARG:HH21	2.23	0.50
4:AG:162:LEU:HD11	4:AG:181:MET:HB3	1.94	0.50
11:AN:61:ALA:HB1	11:AN:94:ALA:HB2	1.93	0.50
25:BA:373:U:H1'	25:BA:423:A:C2	2.47	0.50
25:BA:1264:G:C5'	51:B5:11:THR:HG21	2.40	0.50
25:BA:2261:C:H1'	25:BA:2388:A:N3	2.27	0.50
26:BB:94:C:H2'	26:BB:95:U:H6	1.76	0.50
27:BD:75:ILE:HD13	27:BD:99:ASP:OD1	2.10	0.50
28:BE:167:VAL:HG21	28:BE:187:ALA:HB1	1.93	0.50
29:BF:104:LYS:O	29:BF:108:LYS:HB2	2.12	0.50
30:BG:15:VAL:HG22	30:BG:175:LEU:CB	2.41	0.50
30:BG:73:ALA:HB3	30:BG:83:ARG:O	2.12	0.50
32:BK:100:ALA:O	32:BK:102:SER:N	2.44	0.50
33:BM:57:ALA:O	33:BM:58:ASP:CB	2.60	0.50
35:BO:24:GLY:C	35:BO:26:GLY:H	2.20	0.50
35:BO:90:ARG:O	35:BO:90:ARG:HG2	2.12	0.50
36:BP:20:ALA:HB1	36:BP:99:PRO:HB2	1.94	0.50
37:B0:60:LEU:HD23	37:B0:61:HIS:N	2.27	0.50
38:BQ:25:ARG:NH1	38:BQ:42:ASP:OD2	2.35	0.50
38:BQ:26:LEU:HD22	38:BQ:87:PHE:HD1	1.77	0.50
49:BX:28:LEU:HD23	49:BX:33:GLN:HG2	1.92	0.50
50:B4:37:SER:HB3	50:B4:42:PHE:HD1	1.73	0.50
1:CA:77:C:C3'	1:CA:78:G:H5"	2.42	0.50
1:CA:937:A:C5	1:CA:938:A:N7	2.80	0.50
1:CA:1107:C:H2'	1:CA:1107:C:O2	2.11	0.50
1:CA:1128:C:H4'	9:CL:16:ARG:HH22	1.77	0.50
1:CA:1238:A:H62	1:CA:1301:U:H3	1.59	0.50
1:CA:1323:G:H4'	1:CA:1362(A):C:N3	2.26	0.50
7:CJ:23:VAL:HG13	7:CJ:43:PHE:HE2	1.76	0.50
8:CK:20:TYR:HD1	8:CK:65:TYR:CE2	2.30	0.50
8:CK:20:TYR:HA	8:CK:65:TYR:CE2	2.46	0.50
13:CP:25:ILE:O	13:CP:29:ARG:HB2	2.12	0.50
18:CU:22:VAL:CG2	18:CU:23:LYS:H	2.25	0.50
22:CB:85:C:N4	25:DA:2508:G:H5'	2.27	0.50
25:DA:276:A:H2'	25:DA:277:C:H6	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1408:C:C2	25:DA:1595:G:N2	2.80	0.50
25:DA:1915:U:H2'	25:DA:1916:A:O5'	2.12	0.50
25:DA:2298:A:N6	25:DA:2318:G:C8	2.80	0.50
25:DA:2572:A:OP1	28:DE:144:ARG:HB2	2.11	0.50
26:DB:15:A:C2'	26:DB:16:G:OP1	2.60	0.50
26:DB:55:U:C2'	26:DB:56:G:H5'	2.41	0.50
28:DE:5:LEU:HD22	28:DE:79:ARG:HG2	1.93	0.50
37:D0:51:LEU:HD13	37:D0:70:LEU:HD21	1.94	0.50
40:D1:48:ALA:O	40:D1:52:ARG:HG3	2.11	0.50
45:DV:158:PRO:CB	45:DV:159:PRO:HD2	2.42	0.50
54:D8:47:LYS:C	54:D8:48:PHE:CD1	2.89	0.50
1:AA:115:G:H4'	1:AA:116:A:O5'	2.12	0.50
1:AA:652:U:H1'	1:AA:653:A:C2	2.47	0.50
1:AA:946:A:H2'	1:AA:947:G:C8	2.47	0.50
1:AA:1133:G:C4	1:AA:1134:G:C8	3.00	0.50
1:AA:1182:G:C4'	1:AA:1183:A:H5'	2.26	0.50
5:AH:11:ILE:CD1	5:AH:31:LEU:HB3	2.41	0.50
25:BA:835:A:H2'	25:BA:836:G:O5'	2.12	0.50
25:BA:852:G:H2'	25:BA:853:G:C8	2.46	0.50
25:BA:879:G:H8	25:BA:879:G:OP2	1.95	0.50
25:BA:1312:U:H4'	25:BA:1313:U:O5'	2.12	0.50
25:BA:1486:A:H2'	25:BA:1487:G:C8	2.44	0.50
25:BA:2298:A:H2'	25:BA:2299:G:O4'	2.12	0.50
25:BA:2469:A:H62	25:BA:2481:G:N2	2.10	0.50
25:BA:2476:A:N3	25:BA:2476:A:H2'	2.26	0.50
25:BA:2646:C:OP2	25:BA:2732:G:O2'	2.24	0.50
27:BD:35:LYS:N	27:BD:64:ILE:CG2	2.75	0.50
28:BE:61:ARG:H	28:BE:62:PRO:HD2	1.77	0.50
29:BF:101:LEU:O	29:BF:106:ARG:NH1	2.38	0.50
31:BH:170:ARG:O	31:BH:171:LEU:HB2	2.12	0.50
32:BK:25:TYR:CE2	32:BK:29:TYR:CD2	3.00	0.50
1:CA:745:C:H2'	1:CA:746:A:C8	2.46	0.50
1:CA:951:G:OP2	13:CP:102:ARG:NH2	2.44	0.50
3:CF:59:ARG:HG3	3:CF:64:VAL:HA	1.93	0.50
7:CJ:152:ALA:O	7:CJ:155:ARG:HB3	2.11	0.50
13:CP:27:LYS:HE3	13:CP:31:LYS:HE3	1.94	0.50
23:CC:43:G:H2'	23:CC:44:A:C8	2.42	0.50
23:CD:38:A:H2'	23:CD:39:A:O4'	2.11	0.50
25:DA:39:C:O2	29:DF:46:ARG:NH2	2.44	0.50
25:DA:811:U:C4	35:DO:21:ARG:NH2	2.80	0.50
25:DA:1071:G:OP2	25:DA:1097:U:H5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1240:U:O2'	25:DA:1241:A:H5'	2.12	0.50
25:DA:1257:C:O2'	29:DF:83:PHE:O	2.29	0.50
25:DA:1889:A:O2'	25:DA:2087:G:H5'	2.12	0.50
25:DA:1915:U:C2'	25:DA:1916:A:O5'	2.60	0.50
25:DA:1955:U:O3'	25:DA:1956:U:H6	1.95	0.50
25:DA:2133:G:H1'	25:DA:2158:A:N6	2.27	0.50
25:DA:2168:G:N2	25:DA:2169:A:H3'	2.26	0.50
27:DD:61:LEU:O	27:DD:63:ARG:NH1	2.43	0.50
31:DH:26:VAL:HB	31:DH:75:ALA:HB1	1.93	0.50
34:DN:68:GLU:OE2	34:DN:78:ARG:NH1	2.45	0.50
38:DQ:87:PHE:O	38:DQ:88:ASP:O	2.30	0.50
39:DR:54:ARG:HA	39:DR:59:THR:HB	1.93	0.50
53:D7:8:ASN:ND2	53:D7:11:LYS:HB2	2.26	0.50
54:D8:39:LYS:C	54:D8:41:ILE:H	2.19	0.50
1:AA:84:U:O2	1:AA:84:U:H2'	2.12	0.49
1:AA:404:U:H2'	1:AA:405:U:C6	2.47	0.49
1:AA:939:G:H2'	1:AA:940:C:C6	2.47	0.49
1:AA:1028(A):C:H2'	1:AA:1028(B):C:C6	2.47	0.49
1:AA:1053:G:C5	1:AA:1199:U:C6	3.00	0.49
1:AA:1177:G:C8	1:AA:1178:G:N1	2.80	0.49
1:AA:1301:U:C4	1:AA:1303:C:H1'	2.47	0.49
9:AL:99:LEU:HB3	9:AL:101:PHE:CD1	2.46	0.49
9:AL:114:TYR:N	9:AL:114:TYR:CD2	2.78	0.49
10:AM:61:GLU:OE2	14:AQ:45:ARG:HD2	2.12	0.49
10:AM:96:ILE:HD13	10:AM:96:ILE:N	2.27	0.49
15:AR:17:ARG:HG3	15:AR:17:ARG:NH1	2.26	0.49
20:AW:65:LYS:HG3	20:AW:68:LYS:HE2	1.92	0.49
25:BA:1011:G:H3'	25:BA:1012:U:H5"	1.92	0.49
25:BA:1170:G:N2	25:BA:1180:C:C2	2.80	0.49
25:BA:1412:A:H2'	25:BA:1413:G:H8	1.77	0.49
25:BA:2602:A:H4'	25:BA:2603:G:O5'	2.12	0.49
25:BA:2855:C:H2'	25:BA:2856:C:H6	1.77	0.49
27:BD:270:ILE:HG22	27:BD:271:ILE:H	1.76	0.49
30:BG:77:ILE:O	30:BG:78:SER:O	2.30	0.49
30:BG:91:ARG:HD2	30:BG:91:ARG:C	2.36	0.49
31:BH:83:TYR:CB	31:BH:135:GLY:H	2.13	0.49
36:BP:7:MET:HE1	36:BP:71:ASP:O	2.12	0.49
42:BS:14:PRO:HB2	42:BS:18:ARG:HH21	1.77	0.49
1:CA:411:A:C5	1:CA:413:G:H1'	2.47	0.49
1:CA:468:A:H2'	1:CA:474:G:C5'	2.42	0.49
1:CA:606:G:N2	1:CA:631:G:H2'	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:8:ILE:HG23	3:CF:16:ARG:HG2	1.93	0.49
5:CH:93:PRO:HG2	8:CK:105:ARG:CZ	2.42	0.49
5:CH:107:ARG:CG	5:CH:108:ALA:N	2.74	0.49
7:CJ:62:PHE:HA	7:CJ:124:LEU:HD22	1.94	0.49
8:CK:109:ILE:HG12	8:CK:110:ALA:N	2.27	0.49
12:CO:50:SER:O	12:CO:51:ALA:HB2	2.10	0.49
19:CV:22:LEU:O	19:CV:22:LEU:HD12	2.12	0.49
20:CW:104:LEU:O	20:CW:105:SER:HB3	2.10	0.49
25:DA:2:G:O2'	25:DA:3:U:H5'	2.11	0.49
25:DA:654(I):C:H42	25:DA:654(M):C:H42	1.60	0.49
25:DA:943:U:OP2	35:DO:36:LYS:CG	2.59	0.49
25:DA:1342:A:N6	25:DA:1397:U:C5	2.80	0.49
25:DA:1499:C:H2'	25:DA:1500:G:C8	2.46	0.49
25:DA:1657:C:H2'	25:DA:1658:C:C6	2.47	0.49
25:DA:2054:A:H5"	25:DA:2055:C:O5'	2.12	0.49
25:DA:2189:U:H2'	25:DA:2190:G:H5'	1.93	0.49
25:DA:2318:G:N1	38:DQ:2:ALA:HA	2.18	0.49
25:DA:2872:G:C6	25:DA:2873:A:N1	2.79	0.49
26:DB:44:G:C5'	26:DB:45:A:OP1	2.60	0.49
27:DD:28:GLU:O	27:DD:29:PRO:C	2.55	0.49
28:DE:30:PRO:HD3	28:DE:180:ASN:ND2	2.27	0.49
28:DE:64:LYS:HG2	28:DE:65:GLY:H	1.77	0.49
35:DO:38:GLN:O	35:DO:41:ARG:HB2	2.12	0.49
35:DO:47:ASP:C	35:DO:49:ARG:N	2.70	0.49
39:DR:16:ARG:H	39:DR:79:HIS:CD2	2.30	0.49
41:D2:82:ARG:O	41:D2:83:ARG:O	2.30	0.49
43:DT:43:VAL:HG22	43:DT:51:VAL:CG2	2.42	0.49
45:DV:5:LEU:HG	45:DV:47:VAL:HG21	1.94	0.49
45:DV:121:HIS:HB3	45:DV:123:ASP:O	2.12	0.49
50:D4:48:ARG:HH12	50:D4:51:ASP:HA	1.77	0.49
52:D6:47:THR:O	52:D6:48:VAL:O	2.30	0.49
1:AA:182:U:O2	1:AA:182:U:H2'	2.12	0.49
1:AA:1194:U:H2'	1:AA:1195:C:H6	1.76	0.49
2:AE:61:LEU:HD23	2:AE:68:ILE:CD1	2.41	0.49
8:AK:49:GLU:HG2	8:AK:62:TYR:HE2	1.77	0.49
8:AK:88:LYS:CB	8:AK:89:PRO:HD2	2.42	0.49
12:AO:28:LYS:CD	12:AO:28:LYS:O	2.60	0.49
13:AP:57:ARG:HB2	13:AP:57:ARG:NH1	2.27	0.49
14:AQ:12:ARG:C	14:AQ:14:PRO:CD	2.86	0.49
25:BA:863:A:H2'	25:BA:864:G:H8	1.77	0.49
25:BA:1118:C:H2'	25:BA:1119:C:H6	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1141:U:OP2	33:BM:63:THR:HG23	2.12	0.49
25:BA:1270:C:H5"	25:BA:1271:G:O5'	2.12	0.49
25:BA:1405:U:H2'	25:BA:1406:U:H6	1.76	0.49
25:BA:1434:A:N6	25:BA:1558:A:H62	2.06	0.49
32:BK:85:GLU:OE2	32:BK:85:GLU:HA	2.10	0.49
34:BN:7:TYR:CE1	34:BN:20:MET:HG3	2.46	0.49
37:B0:10:LEU:O	37:B0:11:ASN:C	2.55	0.49
39:BR:50:ILE:CD1	39:BR:102:ILE:HD11	2.42	0.49
45:BV:35:ARG:HB3	45:BV:35:ARG:NH1	2.27	0.49
45:BV:151:HIS:HD2	45:BV:168:GLU:CG	2.25	0.49
1:CA:474:G:OP1	16:CS:81:ARG:HB3	2.12	0.49
1:CA:509:A:N3	1:CA:543:C:O2'	2.41	0.49
1:CA:947:G:H2'	1:CA:948:C:C6	2.47	0.49
1:CA:1248:A:H2'	9:CL:70:LYS:NZ	2.27	0.49
2:CE:118:LEU:HD13	2:CE:142:LEU:HB2	1.93	0.49
3:CF:141:VAL:HG12	3:CF:141:VAL:O	2.12	0.49
8:CK:14:ARG:O	8:CK:18:ARG:HD3	2.12	0.49
8:CK:30:ARG:O	8:CK:34:GLU:HG2	2.10	0.49
18:CU:22:VAL:CG2	18:CU:23:LYS:N	2.75	0.49
23:CD:42:C:H2'	23:CD:43:G:C8	2.42	0.49
25:DA:674:G:O2'	29:DF:67:GLN:OE1	2.27	0.49
25:DA:729:G:O5'	27:DD:208:LYS:NZ	2.45	0.49
25:DA:764:A:O4'	27:DD:213:ARG:HG3	2.12	0.49
25:DA:960:A:C8	25:DA:962:G:C8	3.00	0.49
25:DA:1056:G:H4'	25:DA:1086:A:H1'	1.94	0.49
25:DA:1093:G:H5'	31:DH:170:ARG:HH12	1.77	0.49
25:DA:1265:A:O4'	25:DA:1267:U:C6	2.65	0.49
25:DA:1763:G:OP1	25:DA:1763:G:H4'	2.11	0.49
25:DA:2134:A:C2	25:DA:2159:G:H1'	2.47	0.49
25:DA:2748:A:H2'	25:DA:2748:A:N3	2.27	0.49
27:DD:77:ALA:HB2	27:DD:97:TYR:CD2	2.47	0.49
29:DF:86:GLY:O	29:DF:87:GLY:O	2.30	0.49
29:DF:90:PHE:O	29:DF:91:GLY:O	2.30	0.49
30:DG:98:ARG:O	30:DG:101:ILE:HG13	2.13	0.49
39:DR:56:GLY:O	39:DR:57:PHE:C	2.56	0.49
40:D1:70:ARG:HH11	40:D1:70:ARG:HG2	1.78	0.49
40:D1:71:GLN:HA	40:D1:71:GLN:NE2	2.26	0.49
52:D6:10:LEU:O	52:D6:11:LEU:HD13	2.12	0.49
53:D7:19:ARG:HG2	53:D7:19:ARG:NH1	2.26	0.49
1:AA:1226:C:H4'	19:AV:80:TYR:OH	2.13	0.49
6:AI:19:LEU:HD21	6:AI:59:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:87:SER:CB	8:AK:93:VAL:HB	2.41	0.49
11:AN:29:ILE:HD12	11:AN:44:SER:HB3	1.94	0.49
19:AV:11:VAL:HG23	19:AV:38:SER:HB2	1.94	0.49
22:AB:15:A:N1	22:AB:21:A:N6	2.60	0.49
25:BA:493:G:H2'	25:BA:494:G:O4'	2.12	0.49
25:BA:639:U:O2'	25:BA:640:C:H5'	2.11	0.49
25:BA:783:A:C8	25:BA:783:A:H3'	2.46	0.49
25:BA:1077:A:N1	25:BA:1088:A:N6	2.59	0.49
25:BA:1169:G:N2	25:BA:1181:C:O2	2.45	0.49
25:BA:1177:A:H5'	25:BA:1178:C:C6	2.47	0.49
25:BA:1278:A:O3'	37:B0:34:ILE:HD12	2.13	0.49
25:BA:2666:C:H5"	25:BA:2667:C:OP2	2.12	0.49
27:BD:27:THR:HG22	27:BD:28:GLU:H	1.78	0.49
28:BE:167:VAL:HG21	28:BE:187:ALA:CB	2.42	0.49
31:BH:105:LEU:HD23	31:BH:105:LEU:H	1.76	0.49
32:BK:131:LYS:HB3	32:BK:132:PRO:CA	2.42	0.49
33:BM:43:THR:N	33:BM:48:MET:HE3	2.24	0.49
33:BM:131:GLN:HE21	33:BM:132:ALA:H	1.58	0.49
34:BN:113:LYS:HE2	34:BN:117:LEU:HD11	1.94	0.49
44:BU:52:SER:HB2	44:BU:53:PRO:HD3	1.94	0.49
54:B8:58:ILE:HA	54:B8:61:LEU:CD1	2.42	0.49
1:CA:779:C:C2'	1:CA:780:A:H5'	2.43	0.49
1:CA:1004:A:P	1:CA:1025:U:O4	2.70	0.49
1:CA:1177:G:OP2	9:CL:97:LYS:NZ	2.43	0.49
1:CA:1239:A:H62	1:CA:1299:A:H62	1.60	0.49
3:CF:180:ALA:HA	3:CF:206:GLU:HB3	1.92	0.49
9:CL:46:ALA:HA	9:CL:78:LYS:NZ	2.27	0.49
10:CM:75:ILE:HG13	10:CM:76:ASN:H	1.76	0.49
12:CO:26:ALA:HA	12:CO:98:TYR:CE2	2.44	0.49
12:CO:98:TYR:CD1	12:CO:98:TYR:N	2.80	0.49
13:CP:81:LEU:HD13	13:CP:88:ARG:HG2	1.92	0.49
16:CS:8:ARG:O	16:CS:9:PHE:CD2	2.65	0.49
19:CV:30:LEU:HD12	19:CV:31:ILE:N	2.27	0.49
19:CV:80:TYR:C	19:CV:82:GLY:H	2.20	0.49
23:CC:66:C:H2'	23:CC:67:C:O4'	2.12	0.49
23:CD:64:G:C2	23:CD:65:G:C6	3.00	0.49
23:CD:71:G:H2'	23:CD:72:C:H5'	1.94	0.49
25:DA:278:A:H4'	25:DA:279:C:OP1	2.12	0.49
25:DA:298:G:H5"	25:DA:299:A:OP1	2.11	0.49
25:DA:444:C:H4'	29:DF:49:ALA:HB2	1.93	0.49
25:DA:602:G:O2'	25:DA:655:A:N6	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1405:U:H2'	25:DA:1406:U:H6	1.70	0.49
25:DA:1472:A:H2'	25:DA:1473:G:C5'	2.42	0.49
25:DA:1827:C:H2'	25:DA:1828:G:H5'	1.94	0.49
25:DA:2319:G:H4'	25:DA:2320:A:O4'	2.13	0.49
25:DA:2331:G:H4'	46:D3:43:THR:N	2.27	0.49
25:DA:2648:C:H2'	25:DA:2649:U:C6	2.46	0.49
25:DA:2746:U:H4'	31:DH:138:LYS:HG3	1.94	0.49
29:DF:3:GLU:O	29:DF:3:GLU:HG2	2.12	0.49
29:DF:25:PRO:HG2	29:DF:26:ALA:N	2.27	0.49
30:DG:64:THR:HG23	30:DG:65:GLY:N	2.26	0.49
30:DG:101:ILE:HB	30:DG:105:LYS:HZ3	1.76	0.49
35:DO:47:ASP:CG	35:DO:49:ARG:HE	2.19	0.49
36:DP:63:LYS:O	36:DP:63:LYS:CG	2.58	0.49
37:D0:38:VAL:HG22	37:D0:112:ALA:HB2	1.95	0.49
38:DQ:24:LEU:HD22	38:DQ:24:LEU:N	2.13	0.49
38:DQ:48:LEU:O	38:DQ:49:VAL:HG23	2.13	0.49
41:D2:38:LEU:HD12	41:D2:57:VAL:HG12	1.94	0.49
41:D2:58:VAL:HB	41:D2:98:GLU:HB2	1.94	0.49
41:D2:75:PHE:CE2	41:D2:81:TYR:CD1	3.00	0.49
46:D3:50:ASN:ND2	46:D3:81:VAL:O	2.46	0.49
1:AA:958:A:C6	1:AA:959:A:C6	3.01	0.49
1:AA:1023:G:C6	1:AA:1024:G:C5	3.00	0.49
1:AA:1103:C:H2'	1:AA:1104:G:O4'	2.13	0.49
1:AA:1330:U:H4'	13:AP:23:TYR:HE2	1.77	0.49
1:AA:1418:A:C2	1:AA:1483:A:C2	3.00	0.49
1:AA:1446:A:OP1	1:AA:1446:A:C4'	2.47	0.49
1:AA:1455:G:OP1	20:AW:35:THR:OG1	2.24	0.49
3:AF:14:ILE:HG13	3:AF:15:THR:N	2.26	0.49
3:AF:90:GLU:HA	3:AF:93:LYS:HB2	1.94	0.49
4:AG:50:ARG:HH12	5:AH:10:MET:HE3	1.77	0.49
8:AK:138:TRP:OXT	8:AK:138:TRP:HE3	1.94	0.49
9:AL:26:VAL:HG13	9:AL:61:ALA:HB3	1.93	0.49
12:AO:42:THR:HA	12:AO:53:ARG:O	2.12	0.49
12:AO:46:LYS:CG	12:AO:47:LYS:N	2.75	0.49
20:AW:10:LEU:HD23	20:AW:12:ALA:CA	2.42	0.49
23:AD:29:C:H2'	23:AD:30:G:C8	2.47	0.49
25:BA:1558:A:OP2	25:BA:1558:A:H3'	2.12	0.49
25:BA:2170:A:H5"	25:BA:2171:A:OP2	2.12	0.49
25:BA:2465:C:O2'	25:BA:2466:C:H5'	2.12	0.49
25:BA:2506:U:H2'	25:BA:2506:U:O2	2.11	0.49
25:BA:2864:G:C2'	25:BA:2865:U:H5'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:104:GLU:CG	50:B4:23:GLU:HG3	2.42	0.49
33:BM:62:VAL:HG22	33:BM:63:THR:N	2.26	0.49
35:BO:39:LYS:HB2	35:BO:45:LEU:CD2	2.42	0.49
38:BQ:63:THR:HA	38:BQ:97:ARG:HB3	1.93	0.49
39:BR:42:ILE:H	39:BR:42:ILE:HD12	1.77	0.49
43:BT:83:VAL:HG13	43:BT:87:GLN:HB3	1.95	0.49
48:BW:58:ALA:O	48:BW:62:THR:CG2	2.60	0.49
52:B6:45:LYS:O	52:B6:46:HIS:O	2.30	0.49
1:CA:1226:C:H4'	19:CV:80:TYR:CZ	2.46	0.49
10:CM:54:PHE:CE1	10:CM:55:LYS:HE3	2.47	0.49
13:CP:65:LYS:HE3	50:D4:52:THR:OG1	2.13	0.49
13:CP:70:LEU:O	13:CP:74:VAL:HG23	2.13	0.49
23:CC:51:U:H2'	23:CC:52:C:C6	2.48	0.49
23:CD:32:G:C6	23:CD:33:C:C2	3.01	0.49
25:DA:171:G:H2'	25:DA:172:C:H6	1.75	0.49
25:DA:276:A:H2'	25:DA:277:C:C6	2.48	0.49
25:DA:901:A:H2'	25:DA:901:A:N3	2.26	0.49
25:DA:1006:C:O2'	33:DM:106:MET:O	2.29	0.49
25:DA:1057:A:OP2	25:DA:1089:G:N2	2.45	0.49
25:DA:1085:A:H1'	25:DA:1086:A:O5'	2.12	0.49
25:DA:1177:A:H5'	25:DA:1178:C:OP1	2.12	0.49
25:DA:1392:A:C6	25:DA:1393:A:C6	3.01	0.49
25:DA:1956:U:C2'	25:DA:1957:C:H5'	2.43	0.49
26:DB:83:G:H1	26:DB:93:C:N4	2.04	0.49
28:DE:36:ARG:HH21	28:DE:88:GLY:CA	2.21	0.49
34:DN:85:VAL:HG11	34:DN:114:ILE:HD13	1.95	0.49
38:DQ:3:ARG:CG	38:DQ:4:LEU:N	2.76	0.49
38:DQ:67:ARG:CZ	38:DQ:67:ARG:HB2	2.42	0.49
45:DV:28:MET:CG	45:DV:37:VAL:HG11	2.40	0.49
50:D4:43:TYR:O	50:D4:43:TYR:CG	2.66	0.49
1:AA:266:G:H5"	1:AA:268:C:H41	1.75	0.49
1:AA:914:A:C4	1:AA:915:A:C8	3.00	0.49
1:AA:1028(A):C:C4	1:AA:1028(B):C:N4	2.79	0.49
1:AA:1223:C:P	1:AA:1224:G:H2'	2.53	0.49
1:AA:1278:U:H6	1:AA:1278:U:H3'	1.77	0.49
2:AE:52:GLU:HG2	2:AE:56:ARG:HH21	1.77	0.49
6:AI:99:ALA:C	6:AI:101:ALA:H	2.21	0.49
8:AK:26:VAL:O	8:AK:26:VAL:CG2	2.60	0.49
12:AO:24:VAL:HG11	12:AO:27:LEU:HD11	1.95	0.49
13:AP:47:ASP:O	13:AP:48:LEU:HB3	2.13	0.49
14:AQ:29:ARG:HG2	14:AQ:40:CYS:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:273(F):C:H3'	25:BA:274:G:C5'	2.38	0.49
25:BA:363(B):G:H2'	25:BA:363(C):G:C8	2.47	0.49
25:BA:754:C:O2'	25:BA:755:C:H5'	2.12	0.49
25:BA:1299:G:H5"	25:BA:1300:U:OP1	2.11	0.49
25:BA:1575:C:H2'	25:BA:1576:U:H6	1.78	0.49
25:BA:2119:A:C5	25:BA:2171:A:H2	2.30	0.49
25:BA:2512:C:H2'	25:BA:2513:G:O4'	2.12	0.49
25:BA:2584:U:H2'	25:BA:2585:U:H2'	1.95	0.49
25:BA:2629:A:N6	25:BA:2895:U:C2	2.81	0.49
28:BE:51:PHE:O	28:BE:52:LEU:O	2.30	0.49
31:BH:59:ARG:HG3	31:BH:59:ARG:NH1	2.10	0.49
32:BK:18:VAL:HG21	32:BK:44:LEU:HD11	1.95	0.49
33:BM:94:HIS:C	33:BM:95:PRO:O	2.52	0.49
36:BP:59:ARG:HD3	36:BP:59:ARG:H	1.78	0.49
37:B0:87:TYR:HE1	37:B0:117:VAL:HG12	1.77	0.49
44:BU:49:VAL:CG1	44:BU:50:ARG:H	2.25	0.49
50:B4:14:ILE:C	50:B4:15:ILE:HG12	2.38	0.49
1:CA:273:A:N6	1:CA:274:A:C6	2.80	0.49
1:CA:972:C:C3'	10:CM:57:LYS:HG3	2.42	0.49
1:CA:1143:G:H2'	1:CA:1144:G:C8	2.48	0.49
2:CE:92:TYR:HD2	2:CE:92:TYR:O	1.95	0.49
2:CE:185:ILE:HG12	2:CE:185:ILE:O	2.13	0.49
4:CG:19:LEU:O	4:CG:21:LEU:HG	2.12	0.49
6:CI:22:GLU:O	6:CI:26:ILE:HG13	2.11	0.49
16:CS:48:TRP:HH2	16:CS:76:GLN:NE2	2.09	0.49
25:DA:613:U:O4'	25:DA:613:U:O2	2.30	0.49
25:DA:952:G:P	36:DP:16:ARG:HH12	2.35	0.49
25:DA:1268:A:C2	25:DA:2013:A:C4	3.00	0.49
25:DA:1826:G:H2'	25:DA:1827:C:O5'	2.12	0.49
25:DA:2228:G:OP1	27:DD:261:LYS:NZ	2.43	0.49
25:DA:2273:A:O2'	25:DA:2274:A:H5'	2.13	0.49
25:DA:2335:A:O2'	25:DA:2336:A:P	2.70	0.49
28:DE:101:ARG:CZ	28:DE:171:GLU:HB2	2.41	0.49
32:DK:5:LEU:HD11	32:DK:19:VAL:CG1	2.42	0.49
35:DO:61:ARG:O	35:DO:62:LEU:O	2.30	0.49
38:DQ:38:GLN:HG3	38:DQ:47:THR:HG21	1.94	0.49
45:DV:8:TYR:HD1	45:DV:38:TYR:CE1	2.31	0.49
45:DV:18:LEU:HB3	45:DV:23:LYS:O	2.13	0.49
1:AA:171:A:C6	1:AA:172:A:C6	3.00	0.49
1:AA:195:A:C6	1:AA:196:A:N1	2.81	0.49
1:AA:585:G:O2'	1:AA:879:C:H5"	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1000:A:O2'	1:AA:1001:G:H5'	2.12	0.49
1:AA:1110:A:O5'	1:AA:1110:A:H8	1.96	0.49
2:AE:178:ARG:NH1	2:AE:196:LEU:O	2.42	0.49
3:AF:27:LYS:HA	3:AF:27:LYS:NZ	2.28	0.49
9:AL:5:TYR:CE2	9:AL:16:ARG:HG2	2.40	0.49
12:AO:28:LYS:O	12:AO:28:LYS:HD2	2.12	0.49
12:AO:59:ARG:HB2	12:AO:65:GLU:HG3	1.95	0.49
23:AD:67:C:C4	23:AD:68:C:N4	2.81	0.49
25:BA:24:G:C2'	25:BA:25:U:H5'	2.43	0.49
25:BA:154:G:H2'	25:BA:155:C:O4'	2.12	0.49
25:BA:531:C:OP1	25:BA:561:G:N1	2.45	0.49
25:BA:811:U:P	35:BO:21:ARG:O	2.70	0.49
25:BA:1026:U:C1'	25:BA:1027:A:O5'	2.41	0.49
25:BA:2055:C:H5'	25:BA:2056:G:O5'	2.13	0.49
25:BA:2262:U:H4'	25:BA:2328:A:C2	2.47	0.49
25:BA:2287:A:N6	25:BA:2344:U:N3	2.46	0.49
25:BA:2688:U:C5	25:BA:2720:U:OP2	2.60	0.49
25:BA:2870:C:H5"	37:B0:65:LEU:HD21	1.94	0.49
28:BE:38:THR:O	28:BE:42:ASP:OD2	2.30	0.49
28:BE:73:GLU:HG3	28:BE:74:PRO:HD2	1.94	0.49
29:BF:164:ARG:HG2	29:BF:175:THR:OG1	2.12	0.49
33:BM:4:TYR:CD2	40:B1:100:VAL:HG11	2.48	0.49
34:BN:98:VAL:HG13	34:BN:117:LEU:CB	2.43	0.49
35:BO:65:ARG:O	35:BO:66:GLY:O	2.30	0.49
35:BO:140:ALA:O	35:BO:141:ALA:HB3	2.12	0.49
40:B1:95:LEU:O	40:B1:98:LEU:HB3	2.11	0.49
45:BV:164:ALA:O	45:BV:165:VAL:CG2	2.56	0.49
51:B5:16:ARG:HG3	51:B5:17:ASP:N	2.28	0.49
51:B5:16:ARG:O	51:B5:20:ARG:HD2	2.12	0.49
51:B5:40:LYS:HE2	51:B5:47:PRO:HD2	1.95	0.49
1:CA:350:G:H5'	1:CA:351:G:OP2	2.12	0.49
1:CA:775:G:C2'	1:CA:776:G:H5'	2.43	0.49
2:CE:16:HIS:ND1	2:CE:16:HIS:N	2.60	0.49
4:CG:13:ARG:NH1	4:CG:36:ARG:O	2.46	0.49
8:CK:29:SER:HB2	8:CK:32:LYS:HD2	1.94	0.49
10:CM:47:PHE:CZ	14:CQ:37:PHE:CE2	3.01	0.49
12:CO:83:VAL:HG13	12:CO:84:LEU:N	2.27	0.49
14:CQ:43:CYS:O	14:CQ:46:GLU:N	2.45	0.49
15:CR:50:HIS:O	15:CR:53:HIS:HB3	2.13	0.49
25:DA:21:A:C2'	25:DA:22:C:H5'	2.42	0.49
25:DA:777:A:O2'	25:DA:778:G:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:885:C:N3	25:DA:890:A:C5	2.81	0.49
25:DA:1142(A):A:C8	25:DA:1144:G:C5	3.01	0.49
25:DA:1418:G:H8	25:DA:1418:G:O5'	1.94	0.49
25:DA:1536:A:H3'	25:DA:1537:C:O4'	2.12	0.49
25:DA:2067:G:O2'	25:DA:2069:G:H5"	2.13	0.49
25:DA:2169:A:H2'	25:DA:2169:A:N3	2.28	0.49
25:DA:2746:U:O3'	31:DH:138:LYS:HG3	2.12	0.49
26:DB:6:C:HO2'	38:DQ:29:PHE:HE1	1.57	0.49
28:DE:48:GLN:NE2	28:DE:78:LEU:CD1	2.72	0.49
28:DE:55:ASN:C	28:DE:57:LYS:N	2.69	0.49
29:DF:123:LEU:O	29:DF:124:LEU:C	2.56	0.49
29:DF:155:LEU:HD22	29:DF:185:ASP:O	2.13	0.49
30:DG:21:ARG:HH11	30:DG:21:ARG:HG2	1.76	0.49
35:DO:35:HIS:O	35:DO:36:LYS:O	2.30	0.49
36:DP:18:LYS:O	36:DP:19:GLY:O	2.30	0.49
42:DS:41:LYS:HD2	51:D5:25:LEU:HD11	1.94	0.49
45:DV:10:ARG:NH2	45:DV:25:PRO:HB3	2.27	0.49
45:DV:145:GLU:O	45:DV:146:ILE:HB	2.12	0.49
48:DW:71:ASN:O	48:DW:72:ALA:HB3	2.12	0.49
1:AA:412:A:C1'	1:AA:413:G:OP2	2.59	0.49
1:AA:674:G:H2'	1:AA:675:A:C8	2.47	0.49
1:AA:721:G:H4'	1:AA:722:A:O4'	2.13	0.49
1:AA:1194:U:H5"	5:AH:22:GLY:O	2.13	0.49
3:AF:188:LEU:HD13	3:AF:195:VAL:CG1	2.43	0.49
4:AG:10:ARG:HA	4:AG:13:ARG:HG3	1.94	0.49
5:AH:72:GLN:O	5:AH:75:THR:HG22	2.13	0.49
12:AO:55:VAL:HG12	12:AO:69:TYR:HA	1.92	0.49
20:AW:63:ILE:HG22	20:AW:77:ALA:HB1	1.95	0.49
21:AX:3:LYS:HB3	21:AX:14:TRP:CG	2.47	0.49
25:BA:442:G:C4	25:BA:444:C:C5	3.00	0.49
25:BA:1336:A:H2'	25:BA:1337:G:C8	2.48	0.49
26:BB:20:C:C2'	26:BB:21:G:H5'	2.43	0.49
28:BE:51:PHE:CE1	28:BE:52:LEU:HD21	2.47	0.49
28:BE:53:PRO:O	28:BE:74:PRO:HA	2.13	0.49
31:BH:75:ALA:O	31:BH:79:VAL:HG22	2.12	0.49
39:BR:41:ARG:NH1	39:BR:43:GLN:HB2	2.27	0.49
41:B2:44:LYS:HD2	41:B2:45:THR:N	2.21	0.49
45:BV:62:PRO:C	45:BV:64:GLY:N	2.69	0.49
46:B3:11:ARG:NH1	46:B3:11:ARG:HB2	2.28	0.49
1:CA:10:A:H2'	1:CA:11:G:C8	2.47	0.49
1:CA:51:A:H4'	1:CA:52:G:C5'	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:113:G:O4'	1:CA:354:G:H4'	2.12	0.49
1:CA:209:U:H1'	1:CA:210:U:OP1	2.13	0.49
1:CA:266:G:H1'	1:CA:267:C:OP2	2.12	0.49
1:CA:373:A:C2	1:CA:374:A:C8	3.00	0.49
1:CA:604:G:H2'	1:CA:605:U:O4'	2.12	0.49
1:CA:775:G:O2'	1:CA:776:G:H5'	2.13	0.49
1:CA:963:G:O2'	10:CM:54:PHE:HZ	1.95	0.49
1:CA:1178:G:C8	1:CA:1180:A:OP2	2.65	0.49
1:CA:1199:U:H4'	10:CM:54:PHE:CZ	2.47	0.49
1:CA:1237:C:H5"	1:CA:1238:A:O4'	2.13	0.49
1:CA:1266:G:N2	1:CA:1270:C:C4	2.81	0.49
1:CA:1329:A:H2'	1:CA:1330:U:O4'	2.13	0.49
3:CF:18:TRP:HE3	3:CF:18:TRP:N	2.11	0.49
8:CK:29:SER:CB	8:CK:32:LYS:HD2	2.42	0.49
10:CM:13:HIS:HB3	10:CM:68:HIS:CD2	2.48	0.49
10:CM:82:ILE:O	10:CM:86:MET:HB2	2.12	0.49
13:CP:110:ARG:NH1	13:CP:110:ARG:HG2	2.28	0.49
20:CW:44:ALA:HB1	20:CW:91:LEU:HB2	1.95	0.49
23:CC:29:C:O2	23:CC:44:A:C2	2.65	0.49
25:DA:55:G:C2	25:DA:116:C:C2	3.01	0.49
25:DA:810:U:O5'	25:DA:810:U:H6	1.94	0.49
25:DA:1057:A:N1	25:DA:1081:U:C4	2.80	0.49
25:DA:1109:C:H5	25:DA:1110:G:C6	2.30	0.49
25:DA:1167:U:C2	25:DA:1183:G:N2	2.81	0.49
25:DA:1665:A:C4'	34:DN:67:LYS:HB2	2.43	0.49
25:DA:2097:C:H2'	25:DA:2098:U:O4'	2.12	0.49
25:DA:2111:C:H41	25:DA:2147:G:N2	2.10	0.49
26:DB:15:A:C5'	26:DB:16:G:H8	2.20	0.49
26:DB:70:C:H2'	26:DB:71:C:H6	1.78	0.49
29:DF:51:THR:HB	29:DF:88:VAL:HG11	1.95	0.49
38:DQ:10:ARG:O	38:DQ:14:VAL:HG12	2.13	0.49
45:DV:24:LEU:HD12	45:DV:25:PRO:O	2.13	0.49
50:D4:49:PHE:CD1	50:D4:50:VAL:HG13	2.47	0.49
1:AA:223:U:H2'	1:AA:224:C:H6	1.76	0.49
1:AA:967:C:H4'	9:AL:125:TYR:HE2	1.77	0.49
1:AA:1156:G:C2'	1:AA:1157:A:H5"	2.41	0.49
1:AA:1277:C:O2'	1:AA:1279:A:H1'	2.11	0.49
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.13	0.49
2:AE:165:VAL:HG23	2:AE:166:ASP:H	1.78	0.49
2:AE:200:ILE:HD12	2:AE:200:ILE:N	2.28	0.49
4:AG:112:VAL:HG12	4:AG:116:GLN:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:194:LEU:HD12	4:AG:195:ALA:N	2.27	0.49
5:AH:148:VAL:HG21	8:AK:107:LEU:CD2	2.41	0.49
9:AL:79:LEU:O	9:AL:82:ALA:HB3	2.12	0.49
19:AV:24:ALA:C	19:AV:26:GLY:H	2.21	0.49
25:BA:619:G:H5"	25:BA:620:G:OP2	2.12	0.49
25:BA:646:A:H2'	25:BA:647:G:O5'	2.12	0.49
25:BA:693:C:O2'	25:BA:694:U:H5'	2.13	0.49
25:BA:814:C:O2'	25:BA:815:C:H5'	2.13	0.49
25:BA:1056:G:O2'	25:BA:1057:A:OP2	2.31	0.49
25:BA:1914:C:H2'	25:BA:1915:U:O4'	2.13	0.49
25:BA:2402:C:H2'	25:BA:2403:C:C5'	2.41	0.49
25:BA:2682:U:H5"	28:BE:11:MET:HB2	1.95	0.49
28:BE:182:LEU:HD12	28:BE:183:LEU:N	2.26	0.49
29:BF:123:LEU:HD12	29:BF:124:LEU:H	1.76	0.49
29:BF:178:PRO:HG2	29:BF:179:GLU:OE2	2.13	0.49
31:BH:4:ILE:H	31:BH:4:ILE:CD1	2.15	0.49
35:BO:79:ARG:HB2	35:BO:110:TYR:CD1	2.47	0.49
38:BQ:27:SER:HA	38:BQ:88:ASP:HB3	1.95	0.49
39:BR:122:ASP:O	39:BR:126:ALA:HB3	2.13	0.49
42:BS:111:HIS:HD2	42:BS:112:GLY:H	1.59	0.49
1:CA:186(F):C:H2'	1:CA:187:C:O4'	2.12	0.49
1:CA:543:C:OP1	4:CG:14:ARG:HD2	2.13	0.49
1:CA:926:G:H5"	1:CA:927:G:O5'	2.13	0.49
1:CA:1221:G:H4'	19:CV:77:THR:HG21	1.94	0.49
2:CE:80:ILE:HD12	2:CE:84:GLU:HG3	1.95	0.49
5:CH:88:LYS:HB3	5:CH:123:LEU:HB2	1.94	0.49
5:CH:105:VAL:HG21	5:CH:128:PRO:HB3	1.94	0.49
13:CP:49:THR:HB	13:CP:52:GLU:OE1	2.12	0.49
13:CP:78:ILE:HD13	13:CP:92:HIS:CD2	2.48	0.49
18:CU:29:PHE:CD1	18:CU:39:VAL:HG11	2.47	0.49
25:DA:141:A:C8	25:DA:1408:C:H1'	2.48	0.49
25:DA:337:C:H2'	25:DA:338:G:O4'	2.12	0.49
25:DA:1773:A:H2	25:DA:1977:A:N1	2.11	0.49
25:DA:2129:C:N4	25:DA:2130:U:H3	2.10	0.49
25:DA:2749:A:N6	25:DA:2750:A:H62	2.11	0.49
25:DA:2805:G:H2'	25:DA:2807:G:C8	2.48	0.49
28:DE:66:HIS:CE1	28:DE:73:GLU:OE1	2.65	0.49
30:DG:61:ALA:HA	30:DG:64:THR:HG22	1.95	0.49
34:DN:122:LEU:HD13	39:DR:72:VAL:HG11	1.93	0.49
37:D0:20:LEU:HD21	37:D0:40:LYS:HD3	1.93	0.49
41:D2:64:HIS:CD2	41:D2:92:THR:OG1	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DT:23:GLU:HG3	43:DT:24:GLY:N	2.23	0.49
44:DU:89:PHE:HB2	44:DU:90:LEU:HD23	1.95	0.49
48:DW:17:SER:CB	48:DW:18:PRO:HA	2.42	0.49
1:AA:132:C:C2	1:AA:231:G:N2	2.81	0.49
1:AA:575:G:C5	1:AA:881:G:C2	3.01	0.49
1:AA:1047:G:H2'	1:AA:1048:G:H5'	1.94	0.49
1:AA:1352:C:H42	1:AA:1370:G:H1	1.61	0.49
1:AA:1455:G:C5'	20:AW:32:ALA:HB2	2.43	0.49
17:AT:45:HIS:CD2	17:AT:65:ILE:HG12	2.48	0.49
20:AW:100:ILE:CG1	20:AW:101:GLY:H	2.25	0.49
25:BA:317:G:C2	25:BA:318:C:C2	3.01	0.49
25:BA:576:U:H2'	25:BA:577:G:C8	2.48	0.49
25:BA:607:U:O2	25:BA:621:A:N1	2.46	0.49
25:BA:1026:U:H1'	25:BA:1027:A:C5'	2.42	0.49
25:BA:1761:C:N3	25:BA:1762:A:C6	2.81	0.49
25:BA:2117:A:O2'	25:BA:2118:U:C5	2.65	0.49
25:BA:2271:G:OP1	46:B3:18:ALA:HB1	2.13	0.49
25:BA:2702:U:H4'	25:BA:2703:C:OP1	2.12	0.49
25:BA:2741:A:H2'	25:BA:2742:C:O4'	2.13	0.49
25:BA:2849:U:O4	39:BR:23:ARG:NH2	2.43	0.49
26:BB:73:A:C3'	26:BB:74:U:H5'	2.43	0.49
27:BD:186:HIS:CD2	27:BD:188:GLU:HB2	2.48	0.49
28:BE:35:GLN:HB2	28:BE:48:GLN:CG	2.36	0.49
28:BE:81:ILE:HD13	28:BE:81:ILE:N	2.27	0.49
30:BG:37:VAL:HG22	30:BG:159:VAL:HB	1.95	0.49
37:B0:9:LYS:HA	37:B0:17:ARG:HE	1.76	0.49
40:B1:8:VAL:CG2	40:B1:11:ARG:HH21	2.25	0.49
40:B1:78:THR:O	40:B1:81:HIS:N	2.46	0.49
43:BT:82:GLN:HE21	43:BT:83:VAL:N	2.11	0.49
45:BV:69:THR:HG22	45:BV:90:VAL:HG22	1.92	0.49
54:B8:51:ALA:N	54:B8:53:PRO:HD2	2.28	0.49
1:CA:191(A):G:C2'	1:CA:191(B):G:H5'	2.43	0.49
1:CA:1069:C:H5	1:CA:1094:G:O6	1.95	0.49
1:CA:1143:G:H2'	1:CA:1144:G:H8	1.77	0.49
1:CA:1400:C:N4	23:CC:35:C:H1'	2.28	0.49
2:CE:19:HIS:CD2	2:CE:20:GLU:OE1	2.66	0.49
2:CE:51:LEU:HG	2:CE:201:ILE:HG23	1.94	0.49
9:CL:10:ARG:HD3	9:CL:75:ASP:HB3	1.94	0.49
9:CL:17:VAL:HA	9:CL:63:ILE:HG12	1.94	0.49
10:CM:54:PHE:CD1	10:CM:55:LYS:HE3	2.48	0.49
13:CP:55:ARG:HG3	13:CP:55:ARG:NH1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CT:67:LYS:CA	17:CT:70:ARG:HH12	2.23	0.49
20:CW:33:ILE:HD12	20:CW:63:ILE:HA	1.94	0.49
23:CC:66:C:O2'	23:CC:67:C:H5'	2.13	0.49
23:CD:22:A:C2	23:CD:47:G:C8	3.00	0.49
25:DA:945:A:C4	25:DA:2448:A:C2	3.01	0.49
25:DA:1058:U:O2	25:DA:1080:A:N1	2.45	0.49
25:DA:1075:C:H2'	25:DA:1076:C:C6	2.48	0.49
25:DA:1800:C:OP2	27:DD:183:ARG:NH2	2.45	0.49
25:DA:2332:U:H5'	46:D3:43:THR:HG21	1.94	0.49
26:DB:5:C:N4	26:DB:115:G:H1	2.09	0.49
26:DB:87:G:H3'	26:DB:88:C:C5'	2.43	0.49
28:DE:23:VAL:HA	28:DE:184:VAL:O	2.13	0.49
28:DE:48:GLN:CG	28:DE:78:LEU:HB3	2.42	0.49
28:DE:68:ALA:C	28:DE:70:ALA:H	2.19	0.49
30:DG:7:LEU:O	30:DG:7:LEU:HD23	2.13	0.49
36:DP:60:ARG:HG3	36:DP:60:ARG:O	2.13	0.49
40:D1:95:LEU:CD2	41:D2:13:ARG:HB2	2.43	0.49
43:DT:18:TYR:HD1	43:DT:21:PHE:CE2	2.30	0.49
45:DV:29:TYR:HA	45:DV:33:LEU:O	2.13	0.49
52:D6:39:TYR:O	52:D6:47:THR:O	2.30	0.49
1:AA:20:U:C2'	1:AA:21:G:H5'	2.43	0.49
1:AA:123:C:OP2	1:AA:123:C:H6	1.95	0.49
1:AA:411:A:C6	1:AA:429:U:C4	3.01	0.49
1:AA:686:U:C2'	1:AA:687:A:O5'	2.60	0.49
1:AA:1240:U:P	7:AJ:116:ALA:HB2	2.52	0.49
2:AE:21:ARG:O	2:AE:23:ARG:N	2.46	0.49
3:AF:56:ASP:HB2	3:AF:67:THR:HB	1.93	0.49
4:AG:119:GLN:CG	4:AG:123:HIS:CD2	2.96	0.49
4:AG:138:TYR:HD2	4:AG:139:ARG:N	2.09	0.49
14:AQ:23:ARG:CG	14:AQ:23:ARG:NH1	2.75	0.49
17:AT:65:ILE:HD12	17:AT:65:ILE:N	2.27	0.49
22:AB:24:C:H3'	22:AB:24:C:C6	2.48	0.49
24:A1:14:U:H2'	24:A1:15:U:O4'	2.13	0.49
25:BA:194:G:H2'	25:BA:195:A:O4'	2.12	0.49
25:BA:443:A:N7	29:BF:45:ARG:CD	2.71	0.49
25:BA:1088:A:H3'	25:BA:1088:A:N3	2.27	0.49
25:BA:1534:G:C6	25:BA:1538:G:N2	2.80	0.49
25:BA:1899:G:O2'	25:BA:1900:A:P	2.70	0.49
25:BA:2288:A:C2	25:BA:2325:G:C8	3.01	0.49
25:BA:2365:G:O6	54:B8:39:LYS:HE3	2.12	0.49
26:BB:42:C:O3'	30:BG:67:LYS:NZ	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:54:GLN:O	28:BE:55:ASN:HB2	2.12	0.49
28:BE:120:TRP:CD2	28:BE:155:LYS:HD3	2.47	0.49
33:BM:35:ARG:O	33:BM:35:ARG:CG	2.61	0.49
42:BS:40:ASN:O	42:BS:41:LYS:HG2	2.13	0.49
44:BU:44:ILE:HG13	44:BU:45:VAL:H	1.78	0.49
50:B4:24:THR:O	50:B4:25:TYR:HB2	2.13	0.49
50:B4:56:VAL:HG13	50:B4:60:GLN:HG3	1.95	0.49
1:CA:184:G:N2	1:CA:194:C:C2	2.81	0.49
1:CA:279:A:H5"	1:CA:281:G:H5'	1.94	0.49
1:CA:380:G:C2	1:CA:384:G:C6	3.01	0.49
1:CA:411:A:N7	1:CA:429:U:C5	2.80	0.49
1:CA:580:U:H2'	1:CA:581:G:O4'	2.13	0.49
1:CA:973:G:C1'	10:CM:55:LYS:HG3	2.42	0.49
1:CA:1035:A:H3'	1:CA:1036:G:H5"	1.95	0.49
1:CA:1297:C:C1'	1:CA:1298:C:OP2	2.59	0.49
1:CA:1305:G:H5"	21:CX:4:GLY:HA3	1.94	0.49
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.13	0.49
2:CE:68:ILE:HD12	2:CE:222:ILE:HD11	1.95	0.49
2:CE:111:ARG:HH11	2:CE:111:ARG:CG	2.13	0.49
6:CI:53:ALA:HB3	6:CI:86:ARG:HD3	1.95	0.49
10:CM:33:GLN:CB	10:CM:75:ILE:HG12	2.42	0.49
18:CU:44:LEU:HD11	18:CU:70:ILE:HG21	1.95	0.49
25:DA:6:A:H4'	33:DM:129:PRO:CB	2.42	0.49
25:DA:620:G:N3	25:DA:620:G:C5'	2.76	0.49
25:DA:648:G:O2'	25:DA:649:G:H5'	2.12	0.49
25:DA:843:G:N2	25:DA:936:C:C2	2.81	0.49
25:DA:1012:U:C2	25:DA:1143:A:H2	2.21	0.49
25:DA:1062:G:N2	25:DA:1077:A:H1'	2.28	0.49
25:DA:2224:G:H4'	25:DA:2226:C:C2	2.47	0.49
25:DA:2364:C:H2'	25:DA:2365:G:H5'	1.94	0.49
25:DA:2485:G:C2	25:DA:2486:G:C8	3.00	0.49
26:DB:75:G:H5'	26:DB:75:G:C8	2.37	0.49
28:DE:4:ILE:HD12	28:DE:28:ALA:CB	2.42	0.49
28:DE:36:ARG:O	28:DE:37:ARG:C	2.56	0.49
28:DE:36:ARG:O	28:DE:37:ARG:O	2.30	0.49
29:DF:18:ARG:C	29:DF:19:GLU:HG2	2.38	0.49
29:DF:25:PRO:HG2	29:DF:26:ALA:H	1.77	0.49
30:DG:150:ASP:CG	30:DG:151:ALA:H	2.20	0.49
31:DH:10:PRO:HD2	31:DH:50:VAL:O	2.13	0.49
36:DP:26:TYR:C	36:DP:26:TYR:HD2	2.21	0.49
36:DP:29:PHE:CB	36:DP:65:PHE:CD1	2.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:84:GLN:HA	38:DQ:109:GLY:HA3	1.95	0.49
43:DT:10:ALA:HB1	43:DT:11:PRO:HD2	1.94	0.49
45:DV:148:ASP:OD2	45:DV:149:SER:O	2.30	0.49
47:DZ:23:LYS:O	47:DZ:31:GLY:HA2	2.13	0.49
1:AA:49:U:O2'	1:AA:50:A:H2'	2.12	0.48
1:AA:753:A:H4'	1:AA:754:C:C5'	2.43	0.48
1:AA:1140:C:H2'	1:AA:1141:C:H6	1.78	0.48
4:AG:65:ARG:NH1	4:AG:65:ARG:HG2	2.26	0.48
16:AS:8:ARG:O	16:AS:9:PHE:CD2	2.66	0.48
25:BA:26:G:H1'	25:BA:515:A:N6	2.27	0.48
25:BA:107:C:H2'	25:BA:108:U:H6	1.77	0.48
25:BA:298:G:OP1	44:BU:84:ARG:HG2	2.12	0.48
25:BA:1070:A:C3'	25:BA:1071:G:H5"	2.43	0.48
25:BA:1517:G:H4'	25:BA:1556:C:O2'	2.13	0.48
25:BA:1519:G:O2'	25:BA:1520:U:H5'	2.13	0.48
25:BA:2003:G:H2'	25:BA:2004:G:O5'	2.13	0.48
25:BA:2248:C:H2'	25:BA:2249:U:H5'	1.95	0.48
25:BA:2346:A:O3'	52:B6:39:TYR:OH	2.31	0.48
26:BB:94:C:C2'	26:BB:95:U:H5'	2.44	0.48
27:BD:27:THR:O	27:BD:28:GLU:OE1	2.30	0.48
27:BD:181:GLU:HG3	27:BD:272:ALA:CB	2.40	0.48
31:BH:98:LEU:HD12	31:BH:102:ALA:O	2.13	0.48
33:BM:38:HIS:O	40:B1:67:ALA:HB1	2.12	0.48
35:BO:56:SER:O	35:BO:57:THR:O	2.30	0.48
35:BO:61:ARG:O	35:BO:62:LEU:O	2.30	0.48
37:B0:70:LEU:O	37:B0:72:ASP:N	2.46	0.48
42:BS:73:ALA:HB3	42:BS:106:ILE:CD1	2.43	0.48
45:BV:130:PRO:HA	45:BV:133:ILE:HD11	1.93	0.48
46:B3:27:GLU:HG3	46:B3:69:PHE:H	1.78	0.48
48:BW:5:GLU:CD	48:BW:5:GLU:H	2.20	0.48
49:BX:39:ASP:OD1	49:BX:39:ASP:C	2.54	0.48
52:B6:47:THR:CG2	52:B6:48:VAL:N	2.49	0.48
1:CA:114:U:H2'	1:CA:115:G:C8	2.48	0.48
1:CA:257:G:H2'	1:CA:258:G:O4'	2.13	0.48
1:CA:510:A:H5"	1:CA:511:C:P	2.53	0.48
1:CA:620:C:H2'	1:CA:621:A:O4'	2.13	0.48
1:CA:949:A:C1'	1:CA:1364:U:H3	2.26	0.48
1:CA:1069:C:O2'	1:CA:1192:C:H1'	2.12	0.48
1:CA:1069:C:C5	1:CA:1094:G:O6	2.66	0.48
1:CA:1069:C:H4'	1:CA:1192:C:O2	2.13	0.48
4:CG:8:VAL:HG11	4:CG:21:LEU:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:18:PHE:HB2	9:CL:62:TYR:O	2.12	0.48
10:CM:6:ILE:HG12	10:CM:72:VAL:O	2.13	0.48
15:CR:15:PHE:CE2	15:CR:84:LYS:HD2	2.47	0.48
16:CS:3:LYS:O	16:CS:21:VAL:HA	2.13	0.48
19:CV:79:THR:O	19:CV:79:THR:OG1	2.29	0.48
25:DA:320:A:H4'	25:DA:322:A:C8	2.48	0.48
25:DA:756:C:H2'	25:DA:757:U:H5'	1.95	0.48
25:DA:877:U:C4'	25:DA:878:A:OP1	2.61	0.48
25:DA:888:C:H4'	25:DA:889:C:H5'	1.95	0.48
25:DA:2681:C:O2	25:DA:2681:C:C2'	2.54	0.48
25:DA:2766:G:H2'	25:DA:2766:G:N3	2.28	0.48
28:DE:203:LYS:O	28:DE:204:ALA:CB	2.59	0.48
30:DG:16:ARG:N	30:DG:17:PRO:HD2	2.27	0.48
35:DO:83:VAL:HG12	35:DO:112:LEU:HD21	1.94	0.48
36:DP:65:PHE:O	36:DP:66:ILE:O	2.30	0.48
38:DQ:10:ARG:HH21	38:DQ:91:PRO:HB2	1.78	0.48
39:DR:125:ARG:HB3	39:DR:129:ARG:NH2	2.27	0.48
39:DR:136:GLN:O	39:DR:137:LYS:HD2	2.12	0.48
52:D6:9:LEU:HD22	52:D6:11:LEU:CD2	2.43	0.48
52:D6:25:LYS:HE2	52:D6:27:LYS:NZ	2.28	0.48
1:AA:539:A:H2'	1:AA:540:G:C8	2.48	0.48
1:AA:628:G:H2'	1:AA:629:G:C8	2.48	0.48
1:AA:659:U:O2	1:AA:660:G:C8	2.67	0.48
1:AA:1004:A:C8	1:AA:1036:G:N2	2.75	0.48
1:AA:1098:C:H2'	1:AA:1099:G:O4'	2.13	0.48
1:AA:1130:A:O5'	1:AA:1131:G:P	2.71	0.48
8:AK:41:ARG:HG3	8:AK:41:ARG:NH1	2.27	0.48
25:BA:172:C:H2'	25:BA:173:G:C8	2.48	0.48
25:BA:1063:G:O2'	25:BA:1064:C:H5'	2.14	0.48
25:BA:1077:A:H3'	25:BA:1078:U:H5"	1.90	0.48
25:BA:1341:U:O4	43:BT:16:LYS:HE2	2.13	0.48
25:BA:1586:A:H3'	25:BA:1587:A:C8	2.47	0.48
25:BA:1735:C:C2'	25:BA:1741:C:H5'	2.43	0.48
25:BA:2492:U:H2'	25:BA:2493:U:C6	2.48	0.48
27:BD:270:ILE:C	27:BD:271:ILE:HG13	2.37	0.48
28:BE:25:VAL:HG13	28:BE:183:LEU:HG	1.95	0.48
30:BG:96:ARG:HA	30:BG:99:MET:HG2	1.95	0.48
38:BQ:86:ALA:O	38:BQ:87:PHE:HB3	2.14	0.48
38:BQ:106:ARG:N	38:BQ:110:LEU:HD21	2.28	0.48
39:BR:110:ILE:O	39:BR:110:ILE:HD12	2.13	0.48
40:B1:90:VAL:O	40:B1:91:ASP:C	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BV:113:ALA:N	45:BV:114:GLY:CA	2.74	0.48
48:BW:15:LYS:H	48:BW:67:LYS:NZ	2.11	0.48
52:B6:34:LEU:O	52:B6:51:GLU:HB3	2.13	0.48
1:CA:662:G:H2'	1:CA:663:A:C8	2.47	0.48
4:CG:111:ALA:HB2	4:CG:120:LEU:CD1	2.43	0.48
5:CH:70:PRO:O	5:CH:71:LEU:HD23	2.13	0.48
7:CJ:95:ARG:NH2	7:CJ:99:LEU:HD11	2.28	0.48
10:CM:6:ILE:HG22	10:CM:98:ILE:CG2	2.42	0.48
15:CR:56:LEU:HA	15:CR:59:MET:HE3	1.93	0.48
18:CU:38:GLU:OE2	18:CU:38:GLU:HA	2.12	0.48
20:CW:40:ALA:HB2	20:CW:55:ILE:HG22	1.94	0.48
23:CC:62:C:H2'	23:CC:63:C:C6	2.43	0.48
25:DA:172:C:H2'	25:DA:173:G:C8	2.47	0.48
25:DA:1085:A:H4'	25:DA:1086:A:OP1	2.13	0.48
25:DA:1106:G:H2'	25:DA:1107:G:O4'	2.13	0.48
25:DA:1218:C:O2'	25:DA:1219:G:H5'	2.13	0.48
25:DA:1494:A:H2'	25:DA:1495:A:C8	2.48	0.48
25:DA:1638:C:O2	25:DA:2698:U:O2'	2.27	0.48
25:DA:2065:C:H2'	25:DA:2066:C:C6	2.47	0.48
30:DG:105:LYS:CE	50:D4:26:SER:HB3	2.44	0.48
32:DK:56:LYS:HG3	32:DK:57:ARG:N	2.28	0.48
35:DO:64:LYS:CB	54:D8:25:MET:SD	3.01	0.48
36:DP:87:LYS:O	36:DP:88:GLY:O	2.30	0.48
38:DQ:95:HIS:N	38:DQ:99:LYS:HB2	2.28	0.48
40:D1:91:ASP:O	40:D1:92:ARG:HG2	2.13	0.48
40:D1:92:ARG:CD	40:D1:95:LEU:HD12	2.42	0.48
43:DT:40:LYS:HG3	43:DT:51:VAL:CG1	2.44	0.48
44:DU:29:GLU:HB2	44:DU:38:ILE:HD12	1.94	0.48
45:DV:19:ARG:HH11	45:DV:84:GLU:HB2	1.77	0.48
54:D8:47:LYS:O	54:D8:48:PHE:CB	2.61	0.48
1:AA:87:A:H2'	1:AA:88:C:H6	1.76	0.48
1:AA:451:A:N6	1:AA:480:U:H2'	2.29	0.48
1:AA:651:C:O2	1:AA:651:C:H2'	2.12	0.48
5:AH:87:SER:HB3	5:AH:125:SER:O	2.13	0.48
16:AS:16:HIS:O	16:AS:17:TYR:O	2.30	0.48
22:AB:2:C:H2'	22:AB:3:C:H6	1.78	0.48
25:BA:654(S):G:C4'	25:BA:654(T):A:OP1	2.60	0.48
25:BA:753:C:O2'	25:BA:754:C:H5'	2.13	0.48
25:BA:978:G:C2	25:BA:986:C:C2	3.02	0.48
25:BA:1296:G:O2'	25:BA:1297:C:H5'	2.13	0.48
25:BA:1716:U:O2'	25:BA:1717:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1856:G:H2'	25:BA:1857:G:H5'	1.94	0.48
25:BA:2023:G:H5'	25:BA:2617:C:H4'	1.95	0.48
25:BA:2884:U:C2'	25:BA:2885:C:H5'	2.43	0.48
26:BB:1:U:H2'	26:BB:2:C:C6	2.48	0.48
45:BV:7:ALA:HB3	45:BV:61:LEU:HB2	1.95	0.48
45:BV:105:VAL:HG13	45:BV:140:ASP:HB3	1.95	0.48
1:CA:115:G:H4'	1:CA:116:A:O5'	2.12	0.48
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.13	0.48
1:CA:1338:G:C6	1:CA:1339:A:N1	2.81	0.48
1:CA:1378:C:C5	1:CA:1379:G:N9	2.78	0.48
2:CE:213:LEU:HD23	2:CE:213:LEU:O	2.13	0.48
7:CJ:131:LYS:HB2	7:CJ:131:LYS:NZ	2.28	0.48
9:CL:26:VAL:HG21	9:CL:47:LEU:HD21	1.96	0.48
22:CB:52:U:H3'	22:CB:53:A:C8	2.48	0.48
25:DA:581:C:H2'	25:DA:582:G:C8	2.45	0.48
25:DA:872:A:C5	25:DA:906:G:N2	2.82	0.48
25:DA:1012:U:C2	33:DM:25:ARG:NH1	2.81	0.48
25:DA:2272:U:C5'	25:DA:2273:A:OP1	2.61	0.48
25:DA:2875:C:O2'	39:DR:3:ARG:HG3	2.13	0.48
26:DB:74:U:C3'	26:DB:75:G:H5"	2.44	0.48
30:DG:36:LYS:HG3	30:DG:93:THR:HG23	1.95	0.48
32:DK:78:THR:CG2	32:DK:104:GLN:HE22	2.26	0.48
35:DO:146:VAL:HG22	35:DO:147:LEU:CD1	2.44	0.48
36:DP:62:GLY:O	36:DP:63:LYS:CB	2.61	0.48
39:DR:78:LEU:O	39:DR:78:LEU:HD23	2.13	0.48
39:DR:99:LEU:O	39:DR:101:PHE:N	2.46	0.48
41:D2:78:LYS:O	41:D2:79:VAL:HG13	2.13	0.48
43:DT:49:VAL:HB	43:DT:83:VAL:CG2	2.43	0.48
44:DU:43:ASN:N	44:DU:43:ASN:HD22	2.12	0.48
44:DU:101:LYS:HB3	44:DU:101:LYS:HE2	1.63	0.48
45:DV:6:LYS:HE3	45:DV:43:GLU:HG3	1.95	0.48
47:DZ:95:LEU:C	47:DZ:97:LEU:H	2.22	0.48
1:AA:390:C:H2'	1:AA:391:G:C8	2.48	0.48
1:AA:392:G:P	16:AS:12:LYS:HG3	2.53	0.48
1:AA:404:U:H5'	4:AG:122:ARG:HD2	1.94	0.48
1:AA:519:C:H2'	1:AA:520:A:C8	2.48	0.48
1:AA:601:C:H2'	1:AA:602:A:C8	2.48	0.48
1:AA:974:A:C2'	1:AA:975:A:OP2	2.61	0.48
1:AA:974:A:OP2	14:AQ:41:ARG:NH1	2.46	0.48
1:AA:1151:A:N6	1:AA:1152:A:N6	2.61	0.48
1:AA:1157:A:O2'	1:AA:1158:C:H5"	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1164:G:O2'	1:AA:1165:C:H5'	2.13	0.48
1:AA:1501:C:OP2	1:AA:1504:G:H2'	2.13	0.48
2:AE:96:ARG:HD2	2:AE:96:ARG:N	2.12	0.48
8:AK:7:ALA:HB2	8:AK:85:ARG:CD	2.43	0.48
11:AN:57:THR:HG22	11:AN:59:TYR:N	2.21	0.48
11:AN:81:ASP:O	11:AN:82:VAL:O	2.31	0.48
13:AP:11:ARG:HG2	13:AP:12:ASN:H	1.77	0.48
15:AR:4:THR:OG1	15:AR:7:GLU:HB2	2.12	0.48
22:AB:60:A:H61	22:AB:76:U:H3	1.60	0.48
23:AD:8:U:C5	23:AD:13:C:C4	3.01	0.48
25:BA:72:U:H1'	48:BW:58:ALA:CB	2.44	0.48
25:BA:247:G:H4'	25:BA:386:G:C5	2.48	0.48
25:BA:818:G:H4'	25:BA:838:C:O3'	2.13	0.48
25:BA:863:A:H2'	25:BA:864:G:C8	2.48	0.48
25:BA:1007:C:OP1	33:BM:35:ARG:NH1	2.46	0.48
25:BA:2562:U:C1'	34:BN:23:ARG:HH11	2.22	0.48
25:BA:2580:U:H4'	28:BE:130:GLY:CA	2.42	0.48
25:BA:2895:U:H6	25:BA:2895:U:O5'	1.96	0.48
27:BD:35:LYS:CA	27:BD:64:ILE:CG2	2.91	0.48
28:BE:182:LEU:C	28:BE:183:LEU:HD12	2.38	0.48
28:BE:183:LEU:N	28:BE:183:LEU:CD1	2.77	0.48
31:BH:105:LEU:H	31:BH:105:LEU:CD2	2.27	0.48
33:BM:120:LEU:HD21	33:BM:122:VAL:HG23	1.95	0.48
33:BM:130:HIS:HD2	33:BM:134:ARG:NH1	2.12	0.48
36:BP:30:GLY:HA3	36:BP:107:ALA:HB2	1.92	0.48
40:B1:90:VAL:HG12	40:B1:91:ASP:N	2.26	0.48
41:B2:19:LYS:HG3	41:B2:95:LEU:HD23	1.94	0.48
46:B3:55:ARG:HH11	46:B3:55:ARG:HG3	1.78	0.48
48:BW:42:GLY:O	48:BW:44:LEU:N	2.46	0.48
1:CA:428:G:O4'	1:CA:430:A:C8	2.66	0.48
1:CA:495:A:H4'	1:CA:496:A:OP1	2.14	0.48
1:CA:946:A:H2'	1:CA:947:G:H8	1.74	0.48
1:CA:1176:A:C6	1:CA:1177:G:C5	3.01	0.48
1:CA:1213:A:C5	1:CA:1215:G:C4	3.01	0.48
2:CE:5:ILE:HG12	2:CE:55:PHE:HB3	1.94	0.48
7:CJ:43:PHE:O	7:CJ:47:CYS:HB2	2.13	0.48
25:DA:141:A:H8	25:DA:1595:G:N2	2.03	0.48
25:DA:227:A:C2	25:DA:2407:G:H1'	2.49	0.48
25:DA:322:A:H4'	25:DA:323:G:OP2	2.13	0.48
25:DA:496:G:C2'	25:DA:497:A:H5'	2.44	0.48
25:DA:598:G:C6	25:DA:599:G:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1005:C:O4'	25:DA:1143:A:H2	1.97	0.48
25:DA:1061:U:H4'	25:DA:1070:A:C1'	2.43	0.48
25:DA:1407:C:C2	25:DA:1596:A:C2	3.00	0.48
25:DA:1693:U:H4'	25:DA:1694:C:OP2	2.13	0.48
25:DA:2165:G:N3	25:DA:2165:G:H2'	2.29	0.48
25:DA:2345:G:N3	25:DA:2381:C:H2'	2.28	0.48
25:DA:2680:C:O2'	25:DA:2681:C:H5'	2.14	0.48
28:DE:60:ASN:ND2	28:DE:60:ASN:H	2.11	0.48
30:DG:101:ILE:HD12	30:DG:102:PHE:N	2.27	0.48
31:DH:10:PRO:CG	31:DH:50:VAL:HG13	2.43	0.48
31:DH:26:VAL:HG11	31:DH:33:LEU:HB2	1.95	0.48
32:DK:5:LEU:HD11	32:DK:19:VAL:HG12	1.94	0.48
33:DM:134:ARG:N	33:DM:135:PRO:CD	2.77	0.48
35:DO:10:PRO:O	35:DO:11:GLY:O	2.30	0.48
35:DO:56:SER:O	35:DO:57:THR:O	2.30	0.48
36:DP:133:ARG:O	36:DP:133:ARG:HD3	2.13	0.48
39:DR:82:LEU:H	39:DR:82:LEU:HD12	1.77	0.48
41:D2:73:SER:HB2	41:D2:83:ARG:HA	1.95	0.48
1:AA:164:U:H2'	1:AA:165:C:C5	2.49	0.48
1:AA:271:C:H2'	1:AA:272:C:C6	2.47	0.48
3:AF:65:ALA:O	3:AF:66:VAL:C	2.56	0.48
5:AH:13:ILE:HD11	5:AH:55:VAL:HG22	1.96	0.48
6:AI:67:MET:HE1	6:AI:75:LEU:HD12	1.95	0.48
9:AL:17:VAL:HG21	9:AL:80:GLY:HA3	1.94	0.48
9:AL:52:ALA:C	9:AL:95:LYS:HZ1	2.22	0.48
10:AM:16:LEU:CD1	10:AM:70:ARG:HB2	2.43	0.48
22:AB:25:A:N3	22:AB:25:A:H2'	2.27	0.48
25:BA:589:C:H2'	25:BA:590:A:C8	2.49	0.48
25:BA:1049:C:C2'	25:BA:1050:A:C5'	2.91	0.48
25:BA:1079:C:N4	25:BA:1080:A:C6	2.80	0.48
25:BA:1444:G:N2	25:BA:1548:C:C2	2.81	0.48
25:BA:2567:G:H2'	25:BA:2568:C:C6	2.47	0.48
26:BB:29:A:H2'	26:BB:30:C:C6	2.48	0.48
27:BD:127:VAL:HA	27:BD:193:VAL:HG22	1.95	0.48
28:BE:82:ARG:O	28:BE:83:ASP:C	2.55	0.48
29:BF:118:ALA:HB2	29:BF:123:LEU:HD23	1.95	0.48
30:BG:26:GLN:HG3	30:BG:27:ASN:N	2.28	0.48
30:BG:42:GLY:O	30:BG:43:LEU:HD13	2.13	0.48
31:BH:77:LYS:HE2	31:BH:138:LYS:HE2	1.95	0.48
31:BH:131:VAL:CG1	31:BH:132:ARG:N	2.76	0.48
33:BM:55:VAL:O	33:BM:56:ASN:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BM:127:ASP:OD1	33:BM:127:ASP:N	2.46	0.48
35:BO:71:VAL:HG12	35:BO:72:PRO:HD3	1.94	0.48
43:BT:11:PRO:HB3	43:BT:92:LEU:HD21	1.94	0.48
46:B3:56:ASP:OD2	46:B3:58:THR:HB	2.14	0.48
1:CA:216:G:O2'	1:CA:217:C:O5'	2.31	0.48
1:CA:527:G:C2'	1:CA:528:C:H5'	2.44	0.48
1:CA:693:G:H2'	1:CA:694:A:O4'	2.13	0.48
1:CA:756:C:H2'	1:CA:757:U:O4'	2.14	0.48
1:CA:953:G:C5'	1:CA:965:A:H61	2.26	0.48
1:CA:1375:A:H4'	7:CJ:29:LYS:NZ	2.28	0.48
2:CE:189:ASP:OD1	2:CE:189:ASP:N	2.46	0.48
5:CH:40:ARG:HH11	5:CH:40:ARG:HG2	1.78	0.48
5:CH:76:ILE:HG23	5:CH:77:PRO:HD2	1.95	0.48
10:CM:4:ILE:HB	10:CM:74:ILE:CG1	2.43	0.48
20:CW:36:LEU:HD12	20:CW:55:ILE:HG23	1.95	0.48
25:DA:7:G:H1	25:DA:2896:C:N4	2.11	0.48
25:DA:142:G:H5"	25:DA:1598:C:O2'	2.14	0.48
25:DA:270(R):G:H2'	25:DA:270(S):G:C8	2.49	0.48
25:DA:491:G:O6	42:DS:49:LYS:HD3	2.13	0.48
25:DA:1065:U:C4	25:DA:1066:U:C4	3.02	0.48
25:DA:1087:G:C8	25:DA:1089:G:H1'	2.49	0.48
25:DA:1312:U:H4'	25:DA:1313:U:O5'	2.14	0.48
25:DA:1338:G:N3	25:DA:1393:A:H2	2.12	0.48
25:DA:2291:U:H2'	25:DA:2292:C:C6	2.49	0.48
25:DA:2790:A:H4'	25:DA:2791:C:OP2	2.13	0.48
26:DB:20:C:O2'	26:DB:21:G:H5'	2.13	0.48
31:DH:41:MET:HE2	31:DH:65:HIS:N	2.27	0.48
31:DH:94:TYR:HA	31:DH:106:THR:O	2.13	0.48
35:DO:85:LEU:HB3	35:DO:114:ILE:HD11	1.94	0.48
39:DR:23:ARG:HB2	39:DR:24:PRO:HD2	1.95	0.48
45:DV:26:GLY:C	45:DV:37:VAL:HG22	2.39	0.48
45:DV:27:VAL:CG1	45:DV:87:ASP:HB3	2.39	0.48
45:DV:175:VAL:CG1	45:DV:176:PRO:HD3	2.43	0.48
50:D4:34:GLU:OE2	50:D4:35:VAL:HG23	2.14	0.48
52:D6:27:LYS:NZ	52:D6:28:ARG:HH12	2.10	0.48
1:AA:298:A:H2'	1:AA:299:G:O4'	2.13	0.48
1:AA:359:U:H2'	1:AA:360:A:C8	2.49	0.48
1:AA:719:C:C5	1:AA:720:C:C4	3.00	0.48
1:AA:829:G:C2'	1:AA:830:G:H5'	2.43	0.48
1:AA:920:U:O4'	1:AA:1080:A:C2	2.67	0.48
1:AA:1023:G:H3'	1:AA:1024:G:C5'	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1086:U:C2'	1:AA:1087:G:H5'	2.43	0.48
1:AA:1270:C:H2'	1:AA:1271:G:C8	2.48	0.48
4:AG:108:LEU:HD11	4:AG:174:LEU:HD22	1.94	0.48
10:AM:53:PRO:HA	14:AQ:42:ILE:CD1	2.44	0.48
11:AN:124:LYS:HG2	11:AN:125:PHE:CD1	2.49	0.48
12:AO:7:ILE:CD1	17:AT:32:TYR:HB3	2.44	0.48
16:AS:34:GLU:HG2	16:AS:35:LYS:H	1.79	0.48
17:AT:76:LEU:HD12	17:AT:77:VAL:H	1.78	0.48
25:BA:439:G:C2'	25:BA:440:G:H5'	2.43	0.48
25:BA:1728:G:C3'	25:BA:1729:A:C5'	2.79	0.48
25:BA:2579:C:H2'	25:BA:2580:U:O4'	2.14	0.48
25:BA:2615:U:H2'	25:BA:2616:C:H6	1.79	0.48
25:BA:2648:C:H2'	25:BA:2649:U:H6	1.79	0.48
25:BA:2734:A:H5'	25:BA:2734:A:C8	2.47	0.48
27:BD:120:GLY:O	27:BD:123:ALA:CB	2.62	0.48
28:BE:61:ARG:HB2	28:BE:62:PRO:HD3	1.94	0.48
30:BG:104:GLU:HG2	50:B4:23:GLU:HG3	1.95	0.48
31:BH:6:ARG:HE	31:BH:54:ARG:HH12	1.60	0.48
33:BM:7:LYS:O	33:BM:9:VAL:HG22	2.13	0.48
34:BN:23:ARG:HG3	34:BN:24:VAL:N	2.28	0.48
38:BQ:108:GLY:O	38:BQ:110:LEU:HG	2.13	0.48
39:BR:89:VAL:HG23	39:BR:89:VAL:O	2.12	0.48
50:B4:49:PHE:O	50:B4:50:VAL:HB	2.13	0.48
1:CA:408:A:C4	1:CA:409:G:C8	3.02	0.48
1:CA:476:G:H2'	1:CA:477:G:H8	1.77	0.48
1:CA:860:A:N6	1:CA:861:G:C2	2.82	0.48
1:CA:1446:A:OP1	1:CA:1446:A:C4'	2.61	0.48
2:CE:178:ARG:HH21	8:CK:74:PRO:HG3	1.79	0.48
9:CL:111:ARG:HD2	14:CQ:61:TRP:OXT	2.13	0.48
13:CP:73:GLU:O	13:CP:77:ASN:HB2	2.14	0.48
14:CQ:37:PHE:CE1	14:CQ:53:LEU:HD22	2.47	0.48
25:DA:298:G:N2	25:DA:339:U:C5	2.82	0.48
25:DA:668:G:H2'	25:DA:669:G:OP1	2.13	0.48
25:DA:994:C:O2'	25:DA:996:A:OP1	2.22	0.48
25:DA:1050:A:C4	25:DA:2751:G:N2	2.81	0.48
25:DA:1217:C:OP1	40:D1:15:LYS:HE3	2.13	0.48
25:DA:2059:A:C2	25:DA:2062:A:N6	2.82	0.48
25:DA:2199:A:C8	25:DA:2205:C:C5	3.02	0.48
25:DA:2312:U:O2'	30:DG:40:ASN:ND2	2.47	0.48
25:DA:2401:U:H2'	25:DA:2402:C:H6	1.79	0.48
25:DA:2406:U:OP2	25:DA:2406:U:H2'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2720:U:C2	25:DA:2721:A:C8	3.02	0.48
27:DD:31:LYS:NZ	27:DD:31:LYS:HB2	2.28	0.48
28:DE:135:HIS:N	28:DE:135:HIS:ND1	2.60	0.48
33:DM:134:ARG:N	33:DM:135:PRO:HD3	2.28	0.48
34:DN:10:VAL:CG2	34:DN:16:ALA:O	2.62	0.48
39:DR:92:GLY:HA2	39:DR:117:ASP:H	1.79	0.48
45:DV:70:LEU:O	45:DV:89:PHE:N	2.41	0.48
45:DV:175:VAL:C	45:DV:177:PRO:HD3	2.36	0.48
50:D4:2:LYS:HD2	50:D4:6:HIS:CE1	2.48	0.48
50:D4:12:ALA:H	50:D4:24:THR:CG2	2.27	0.48
52:D6:9:LEU:HD22	52:D6:11:LEU:HD22	1.95	0.48
1:AA:509:A:H3'	1:AA:509:A:C8	2.48	0.48
1:AA:1203:C:H2'	1:AA:1204:A:O4'	2.14	0.48
3:AF:67:THR:HG23	3:AF:102:ASN:HB2	1.94	0.48
3:AF:68:VAL:HG12	3:AF:70:VAL:HG23	1.96	0.48
11:AN:41:THR:CG2	11:AN:42:TRP:N	2.77	0.48
23:AC:17:C:O2'	23:AC:18:C:OP1	2.32	0.48
25:BA:547:A:H3'	25:BA:548:A:C8	2.48	0.48
25:BA:1257:C:H4'	29:BF:83:PHE:CE2	2.49	0.48
25:BA:1568:G:OP2	27:BD:63:ARG:NH2	2.46	0.48
25:BA:1606:G:H5"	25:BA:1607:C:OP1	2.13	0.48
25:BA:2184:G:C6	25:BA:2185:C:N4	2.82	0.48
25:BA:2687:U:C4	25:BA:2688:U:C5	3.02	0.48
25:BA:2758:A:C2	25:BA:2759:G:H1'	2.49	0.48
33:BM:130:HIS:CD2	33:BM:134:ARG:NH1	2.82	0.48
34:BN:5:GLN:HA	34:BN:20:MET:HE2	1.95	0.48
45:BV:69:THR:HA	45:BV:89:PHE:O	2.14	0.48
48:BW:16:LEU:O	48:BW:16:LEU:CG	2.62	0.48
54:B8:36:LYS:HD2	54:B8:40:GLU:HG2	1.95	0.48
1:CA:1179:A:O3'	9:CL:103:THR:HG23	2.13	0.48
1:CA:1305:G:H22	1:CA:1331:G:C2'	2.26	0.48
20:CW:69:GLY:O	20:CW:73:HIS:CD2	2.67	0.48
25:DA:76:C:H2'	25:DA:77:C:H6	1.78	0.48
25:DA:91:A:C2'	25:DA:92:G:H5'	2.44	0.48
25:DA:273(E):U:O2'	25:DA:273(F):C:H5'	2.13	0.48
25:DA:547:A:N7	25:DA:548:A:N6	2.60	0.48
25:DA:558:G:OP1	33:DM:111:PRO:HD2	2.13	0.48
25:DA:587:C:N3	35:DO:33:ARG:HD2	2.29	0.48
25:DA:659:C:H4'	29:DF:100:THR:O	2.12	0.48
25:DA:883:G:H2'	25:DA:884:C:C5	2.48	0.48
25:DA:1071:G:C4	25:DA:1089:G:H2'	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1146:C:H2'	25:DA:1147:C:H5'	1.95	0.48
25:DA:1288:U:C2	25:DA:1327:C:O2	2.66	0.48
25:DA:1388:G:O2'	25:DA:1389:G:H5'	2.13	0.48
25:DA:2168:G:C2	25:DA:2170:A:OP2	2.66	0.48
25:DA:2472:G:C4	25:DA:2475:C:N4	2.82	0.48
28:DE:66:HIS:NE2	28:DE:73:GLU:OE1	2.46	0.48
35:DO:81:GLN:HB3	35:DO:106:LEU:HD12	1.95	0.48
36:DP:29:PHE:HB3	36:DP:65:PHE:CZ	2.46	0.48
41:D2:82:ARG:CG	41:D2:82:ARG:NH1	2.47	0.48
45:DV:1:MET:HG2	45:DV:2:GLU:H	1.79	0.48
45:DV:115:GLY:HA2	45:DV:177:PRO:HD3	1.95	0.48
48:DW:17:SER:OG	48:DW:18:PRO:HA	2.13	0.48
53:D7:35:ARG:CG	53:D7:42:LEU:HD11	2.43	0.48
54:D8:49:VAL:HG23	54:D8:50:LEU:H	1.77	0.48
1:AA:163:C:H2'	1:AA:164:U:H6	1.78	0.48
1:AA:829:G:O2'	1:AA:830:G:H5'	2.13	0.48
5:AH:51:VAL:O	5:AH:55:VAL:HG23	2.13	0.48
8:AK:138:TRP:OXT	8:AK:138:TRP:CE3	2.66	0.48
15:AR:3:ILE:O	15:AR:3:ILE:HG13	2.13	0.48
22:AB:19:G:H1'	22:AB:20:U:OP1	2.14	0.48
23:AC:1:C:O2'	23:AC:2:G:OP2	2.32	0.48
23:AC:41:C:O2'	23:AC:42:C:H5'	2.14	0.48
25:BA:530:G:O4'	25:BA:530:G:N3	2.45	0.48
25:BA:849:A:N1	49:BX:25:ALA:HB2	2.27	0.48
25:BA:1141:U:P	33:BM:63:THR:HG21	2.54	0.48
25:BA:1578:U:H2'	25:BA:1579:A:H5'	1.95	0.48
25:BA:2099:U:H2'	25:BA:2099:U:O2	2.14	0.48
25:BA:2376:A:H2'	25:BA:2377:A:O4'	2.14	0.48
25:BA:2406:U:H2'	25:BA:2406:U:OP2	2.14	0.48
25:BA:2820:A:C5	37:B0:4:LEU:HD21	2.49	0.48
25:BA:2863:C:O2'	25:BA:2864:G:H5'	2.13	0.48
27:BD:36:PRO:HA	27:BD:62:TYR:O	2.13	0.48
28:BE:48:GLN:HE22	28:BE:77:ILE:CD1	2.25	0.48
32:BK:92:VAL:O	32:BK:120:ILE:HG22	2.13	0.48
35:BO:38:GLN:O	35:BO:41:ARG:HB2	2.13	0.48
39:BR:11:GLU:N	39:BR:11:GLU:OE1	2.47	0.48
44:BU:68:HIS:O	44:BU:71:LYS:HB2	2.14	0.48
50:B4:56:VAL:CG1	50:B4:60:GLN:HG3	2.44	0.48
50:B4:61:ARG:O	50:B4:65:ASP:OD1	2.31	0.48
52:B6:11:LEU:HD21	52:B6:51:GLU:HG3	1.96	0.48
1:CA:9:G:C8	5:CH:126:ARG:NH2	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:327:A:O2'	1:CA:328:C:O4'	2.22	0.48
1:CA:353:A:C2'	1:CA:354:G:OP2	2.62	0.48
1:CA:420:U:H2'	1:CA:422:C:O2	2.14	0.48
1:CA:503:C:C2'	1:CA:504:C:H5'	2.43	0.48
1:CA:955:U:H2'	1:CA:956:U:H6	1.78	0.48
1:CA:1133:G:N2	1:CA:1141:C:N3	2.60	0.48
1:CA:1226:C:N4	13:CP:104:ARG:HD2	2.29	0.48
1:CA:1240:U:OP2	7:CJ:115:ARG:HA	2.14	0.48
1:CA:1298:C:C6	7:CJ:114:ARG:NH1	2.82	0.48
3:CF:52:LEU:CD2	3:CF:52:LEU:H	2.27	0.48
4:CG:24:GLU:O	4:CG:27:TYR:N	2.42	0.48
5:CH:12:LEU:O	5:CH:30:ALA:HA	2.14	0.48
8:CK:29:SER:HB3	8:CK:32:LYS:CB	2.43	0.48
9:CL:112:LYS:HD3	9:CL:113:LYS:O	2.14	0.48
15:CR:43:LEU:HD11	15:CR:53:HIS:HA	1.96	0.48
20:CW:58:LYS:O	20:CW:58:LYS:HD3	2.13	0.48
25:DA:307:G:N1	25:DA:310:A:OP2	2.45	0.48
25:DA:372:G:O2'	25:DA:373:U:OP2	2.28	0.48
25:DA:839:U:H2'	25:DA:840:C:C6	2.49	0.48
25:DA:1057:A:H2	25:DA:1081:U:N3	2.01	0.48
25:DA:1826:G:H2'	25:DA:1827:C:H6	1.78	0.48
25:DA:1827:C:O2'	25:DA:1970:A:N3	2.37	0.48
25:DA:2276:G:P	36:DP:84:GLY:HA2	2.54	0.48
25:DA:2297:C:O2	25:DA:2298:A:C8	2.67	0.48
25:DA:2689:U:P	25:DA:2719:G:H22	2.36	0.48
27:DD:62:TYR:CE1	27:DD:64:ILE:HA	2.48	0.48
28:DE:9:VAL:HG13	28:DE:26:ILE:O	2.13	0.48
28:DE:53:PRO:HG2	28:DE:54:GLN:H	1.79	0.48
29:DF:8:GLN:HG2	29:DF:124:LEU:HD11	1.95	0.48
29:DF:117:ARG:HH12	35:DO:1:MET:N	2.12	0.48
45:DV:141:VAL:O	45:DV:142:SER:O	2.30	0.48
45:DV:175:VAL:O	45:DV:177:PRO:CD	2.52	0.48
54:D8:30:ARG:O	54:D8:31:HIS:HB2	2.14	0.48
1:AA:131:C:O2	1:AA:131:C:H2'	2.14	0.48
1:AA:255:G:H1'	17:AT:16:GLN:HE21	1.78	0.48
1:AA:261:U:OP2	20:AW:79:ARG:NH2	2.47	0.48
1:AA:659:U:N3	1:AA:660:G:N7	2.62	0.48
1:AA:926:G:C6	1:AA:1505:G:C5	3.02	0.48
1:AA:1072:G:C6	1:AA:1073:U:C4	3.02	0.48
1:AA:1125:U:O4	10:AM:5:ARG:HD2	2.13	0.48
1:AA:1159:U:O4'	1:AA:1182:G:N2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1358:U:H5"	14:AQ:33:VAL:O	2.14	0.48
2:AE:18:GLY:H	2:AE:42:ILE:CG2	2.22	0.48
5:AH:32:VAL:HB	5:AH:58:ALA:HB1	1.95	0.48
7:AJ:152:ALA:O	7:AJ:155:ARG:HB3	2.13	0.48
9:AL:83:ARG:HA	9:AL:86:VAL:CG1	2.44	0.48
10:AM:4:ILE:HD13	10:AM:100:THR:CG2	2.44	0.48
10:AM:17:ASP:O	10:AM:21:GLN:HB2	2.12	0.48
10:AM:34:VAL:CG1	10:AM:74:ILE:HG23	2.44	0.48
12:AO:122:THR:HG22	12:AO:123:LYS:O	2.12	0.48
17:AT:67:LYS:HA	17:AT:70:ARG:HH12	1.79	0.48
20:AW:50:GLU:HG3	20:AW:51:GLU:N	2.29	0.48
23:AC:20:G:O2'	23:AC:21:U:H5	1.95	0.48
23:AC:26:C:H2'	23:AC:27:G:O4'	2.14	0.48
25:BA:340:A:C2'	25:BA:341:G:H5'	2.44	0.48
25:BA:724:U:H2'	25:BA:725:G:O4'	2.14	0.48
25:BA:997:G:O2'	25:BA:998:C:H5'	2.14	0.48
25:BA:1021:A:H3'	25:BA:1022:G:C5'	2.32	0.48
25:BA:1385:G:O2'	25:BA:1396:U:C6	2.66	0.48
25:BA:1991:U:C2'	25:BA:1992:G:H5"	2.41	0.48
25:BA:2302:G:C6	25:BA:2315:G:C6	3.02	0.48
25:BA:2401:U:H5'	52:B6:18:ARG:HD3	1.94	0.48
25:BA:2850:A:H5'	25:BA:2868:A:C2	2.49	0.48
27:BD:34:VAL:C	27:BD:35:LYS:HG3	2.39	0.48
30:BG:109:VAL:O	30:BG:113:ARG:HG3	2.14	0.48
32:BK:12:LEU:HD13	32:BK:12:LEU:N	2.29	0.48
33:BM:134:ARG:N	33:BM:135:PRO:HD3	2.29	0.48
36:BP:31:ASP:O	36:BP:133:ARG:O	2.32	0.48
39:BR:55:ASN:HB3	39:BR:58:ASN:O	2.14	0.48
41:B2:87:HIS:NE2	41:B2:89:GLN:NE2	2.61	0.48
45:BV:105:VAL:HG12	45:BV:139:VAL:O	2.13	0.48
45:BV:120:ILE:HG21	45:BV:170:THR:HB	1.96	0.48
46:B3:72:ARG:CB	46:B3:75:LEU:HB2	2.43	0.48
1:CA:1226:C:OP2	13:CP:103:THR:HG21	2.14	0.48
2:CE:28:PHE:CD1	2:CE:32:ILE:HG22	2.46	0.48
2:CE:55:PHE:HD1	2:CE:58:ILE:HD12	1.79	0.48
3:CF:58:GLU:CB	3:CF:65:ALA:HB3	2.44	0.48
4:CG:208:SER:OG	5:CH:101:ILE:HG22	2.14	0.48
7:CJ:138:LYS:HE2	7:CJ:142:GLU:CD	2.39	0.48
9:CL:21:PRO:HA	9:CL:59:PHE:HA	1.94	0.48
9:CL:95:LYS:HZ2	9:CL:96:LEU:CD1	2.27	0.48
19:CV:41:VAL:HG13	50:D4:63:TYR:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CV:51:VAL:O	19:CV:58:VAL:HG22	2.13	0.48
22:CB:31:C:C2	22:CB:32:C:C5	3.01	0.48
25:DA:90:U:O2'	25:DA:91:A:H5"	2.13	0.48
25:DA:363(B):G:H2'	25:DA:363(C):G:C8	2.49	0.48
25:DA:987:G:O2'	25:DA:1000:A:N3	2.46	0.48
25:DA:997:G:O2'	25:DA:998:C:H5'	2.13	0.48
25:DA:1097:U:H2'	25:DA:1098:A:O4'	2.14	0.48
25:DA:1180:C:H2'	25:DA:1181:C:C6	2.49	0.48
25:DA:1181:C:H2'	25:DA:1182:A:C8	2.49	0.48
25:DA:2011:U:H2'	25:DA:2012:G:H5'	1.96	0.48
25:DA:2124:G:H2'	25:DA:2125:G:H5'	1.96	0.48
25:DA:2298:A:C2	25:DA:2299:G:H1'	2.49	0.48
25:DA:2768:C:O2'	33:DM:89:LYS:HE2	2.14	0.48
25:DA:2872:G:C8	25:DA:2873:A:H2	2.28	0.48
26:DB:73:A:H5'	26:DB:74:U:OP2	2.14	0.48
26:DB:78:A:C2	26:DB:99:A:C4	3.02	0.48
28:DE:197:ILE:CD1	28:DE:199:ARG:HH21	2.18	0.48
30:DG:67:LYS:H	50:D4:6:HIS:HE2	1.61	0.48
30:DG:96:ARG:H	30:DG:96:ARG:HG3	1.26	0.48
34:DN:7:TYR:CE1	34:DN:20:MET:HG3	2.48	0.48
37:D0:72:ASP:HB3	37:D0:75:LEU:HB3	1.96	0.48
45:DV:102:LEU:HD11	45:DV:124:ILE:HB	1.96	0.48
52:D6:28:ARG:HG3	52:D6:31:PRO:HD2	1.95	0.48
54:D8:52:LYS:HD3	54:D8:52:LYS:N	2.27	0.48
1:AA:85:U:O2	1:AA:85:U:C2'	2.62	0.48
1:AA:658:G:H2'	1:AA:659:U:H6	1.78	0.48
1:AA:1054:C:O2'	1:AA:1055:A:C5'	2.62	0.48
2:AE:150:SER:OG	2:AE:151:GLY:N	2.46	0.48
13:AP:4:ILE:HG22	13:AP:5:ALA:N	2.28	0.48
13:AP:99:ARG:O	13:AP:101:GLN:NE2	2.47	0.48
13:AP:108:ARG:N	13:AP:108:ARG:HD2	2.29	0.48
23:AD:27:G:O6	23:AD:45:A:N6	2.46	0.48
25:BA:141:A:H8	25:BA:1408:C:H1'	1.77	0.48
28:BE:92:THR:O	28:BE:95:ILE:CG1	2.61	0.48
30:BG:77:ILE:O	30:BG:78:SER:C	2.57	0.48
34:BN:93:PRO:HG2	34:BN:113:LYS:HD3	1.95	0.48
45:BV:76:LEU:CD2	45:BV:76:LEU:N	2.74	0.48
54:B8:37:SER:HA	54:B8:41:ILE:CG2	2.41	0.48
1:CA:194:C:H2'	1:CA:195:A:H5"	1.95	0.48
1:CA:260:G:N2	1:CA:265:G:N7	2.61	0.48
1:CA:380:G:N2	1:CA:384:G:C5	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1328:C:OP1	21:CX:21:TYR:OH	2.22	0.48
4:CG:8:VAL:O	4:CG:11:LEU:N	2.47	0.48
4:CG:75:PHE:HE1	4:CG:97:LEU:HD11	1.78	0.48
5:CH:100:VAL:HG22	5:CH:118:ILE:CG2	2.44	0.48
10:CM:8:LEU:CD2	10:CM:20:ALA:HB2	2.43	0.48
10:CM:44:VAL:HG22	10:CM:66:ARG:HG3	1.95	0.48
16:CS:56:ALA:O	16:CS:60:LEU:HG	2.14	0.48
18:CU:41:LYS:O	18:CU:41:LYS:HD3	2.14	0.48
19:CV:28:LYS:CE	19:CV:29:ARG:H	2.26	0.48
19:CV:30:LEU:CD1	19:CV:31:ILE:H	2.27	0.48
22:CB:35:G:C2'	22:CB:36:A:H5'	2.44	0.48
25:DA:513:A:C2	25:DA:514:A:C5	3.02	0.48
25:DA:529:A:H4'	25:DA:530:G:H5'	1.95	0.48
25:DA:548:A:H8	25:DA:548:A:O5'	1.97	0.48
25:DA:654(T):A:H2'	25:DA:654(U):A:O4'	2.13	0.48
25:DA:676:A:N1	25:DA:802:A:N1	2.62	0.48
25:DA:861:A:C2	25:DA:917:A:C5	3.02	0.48
25:DA:1171:G:O2'	25:DA:1173:G:O5'	2.30	0.48
25:DA:1443:G:C2'	25:DA:1444:G:H5'	2.43	0.48
25:DA:2330:G:O2'	46:D3:41:ARG:O	2.23	0.48
25:DA:2378:A:C5	25:DA:2379:G:H1'	2.48	0.48
27:DD:24:ILE:CD1	27:DD:91:ARG:HD3	2.38	0.48
28:DE:48:GLN:CG	28:DE:78:LEU:CB	2.89	0.48
28:DE:79:ARG:N	28:DE:79:ARG:HD2	2.29	0.48
28:DE:201:THR:C	28:DE:202:LYS:HD2	2.38	0.48
29:DF:187:VAL:HG12	35:DO:3:LEU:HG	1.96	0.48
30:DG:161:THR:HG22	30:DG:162:THR:N	2.29	0.48
34:DN:108:GLU:H	34:DN:108:GLU:HG2	1.46	0.48
37:D0:63:ARG:O	37:D0:67:LEU:HB2	2.14	0.48
38:DQ:59:LYS:HD3	38:DQ:60:GLY:H	1.79	0.48
52:D6:25:LYS:CE	54:D8:34:TRP:HH2	2.25	0.48
1:AA:9:G:C2	1:AA:26:A:C2	3.01	0.47
1:AA:93:U:H2'	1:AA:95:G:C5'	2.44	0.47
1:AA:232:G:C5	1:AA:233:C:C5	3.01	0.47
1:AA:303:A:H2'	1:AA:304:U:O4'	2.14	0.47
1:AA:706:A:H2'	1:AA:707:C:H5'	1.96	0.47
1:AA:1176:A:H2'	1:AA:1177:G:C5'	2.43	0.47
1:AA:1178:G:H5'	9:AL:93:ARG:HH21	1.79	0.47
4:AG:84:LYS:N	4:AG:84:LYS:HD2	2.29	0.47
5:AH:110:LEU:CD1	5:AH:118:ILE:HD13	2.40	0.47
10:AM:3:LYS:O	10:AM:100:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AQ:41:ARG:HG2	14:AQ:41:ARG:NH1	2.26	0.47
17:AT:31:LEU:HD23	17:AT:32:TYR:CZ	2.49	0.47
20:AW:9:ASN:C	20:AW:9:ASN:ND2	2.71	0.47
25:BA:184:C:H2'	25:BA:185:U:C6	2.50	0.47
25:BA:271(C):U:H2'	25:BA:271:G:OP1	2.14	0.47
25:BA:725:G:C6	25:BA:726:G:N1	2.82	0.47
25:BA:883:G:H2'	25:BA:884:C:O4'	2.14	0.47
25:BA:1416:G:O2'	25:BA:1417:C:O5'	2.12	0.47
25:BA:2653:U:O2'	31:BH:110:SER:HB2	2.14	0.47
25:BA:2677:G:H2'	25:BA:2678:C:C6	2.49	0.47
25:BA:2784:C:H4'	28:BE:41:LYS:O	2.13	0.47
26:BB:1:U:H2'	26:BB:2:C:H6	1.78	0.47
27:BD:45:ASN:OD1	27:BD:45:ASN:C	2.56	0.47
30:BG:173:LEU:O	30:BG:178:PHE:HB2	2.14	0.47
31:BH:167:GLU:H	31:BH:167:GLU:HG2	1.36	0.47
33:BM:126:PRO:HB2	33:BM:127:ASP:OD1	2.14	0.47
35:BO:112:LEU:HD22	35:BO:113:LYS:N	2.29	0.47
36:BP:109:VAL:HG13	36:BP:113:GLN:HB2	1.95	0.47
54:B8:36:LYS:CD	54:B8:40:GLU:CD	2.87	0.47
1:CA:181:G:O2'	1:CA:183:G:O6	2.29	0.47
1:CA:607:A:C2	16:CS:31:LYS:HB2	2.49	0.47
1:CA:861:G:C5	1:CA:862:C:C5	3.01	0.47
1:CA:939:G:H2'	1:CA:940:C:C6	2.49	0.47
1:CA:1195:C:C4	1:CA:1197:G:C8	3.01	0.47
3:CF:117:ALA:HB2	3:CF:200:ALA:CB	2.37	0.47
3:CF:164:ARG:HH12	3:CF:166:GLU:CD	2.22	0.47
10:CM:80:LYS:O	10:CM:83:GLU:HB3	2.14	0.47
20:CW:60:GLU:OE1	20:CW:85:MET:HE1	2.14	0.47
25:DA:94:G:N3	48:DW:47:ASN:OD1	2.46	0.47
25:DA:277:C:H3'	25:DA:278:A:H8	1.79	0.47
25:DA:470:A:OP1	29:DF:59:TYR:HE2	1.97	0.47
25:DA:654(B):C:N3	25:DA:654(T):A:C2	2.82	0.47
25:DA:959:A:C6	25:DA:960:A:C2	3.03	0.47
25:DA:1225:C:O3'	41:D2:85:LYS:CA	2.61	0.47
25:DA:1278:A:H2'	25:DA:1279:G:C8	2.49	0.47
25:DA:1629:U:H2'	25:DA:1630:G:C8	2.48	0.47
25:DA:1791:A:OP2	25:DA:1791:A:C8	2.67	0.47
25:DA:2212:A:H1'	25:DA:2215:G:C5	2.49	0.47
29:DF:157:VAL:HB	29:DF:194:MET:HB3	1.96	0.47
30:DG:96:ARG:HH11	30:DG:96:ARG:CG	2.25	0.47
31:DH:7:LEU:N	31:DH:8:PRO:HD2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:83:ALA:O	32:DK:89:TYR:CE2	2.67	0.47
35:DO:97:PRO:HG3	35:DO:112:LEU:CB	2.44	0.47
36:DP:21:THR:O	36:DP:21:THR:HG23	2.10	0.47
42:DS:92:ARG:NH1	42:DS:94:ASP:OD2	2.47	0.47
43:DT:60:ARG:CG	43:DT:60:ARG:NH1	2.67	0.47
51:D5:46:CYS:SG	51:D5:47:PRO:HD2	2.54	0.47
1:AA:109:A:N7	1:AA:326:G:H2'	2.29	0.47
1:AA:495:A:C2	1:AA:496:A:C5	3.02	0.47
1:AA:658:G:C4	1:AA:659:U:C5	3.02	0.47
1:AA:955:U:O2'	19:AV:83:HIS:CD2	2.67	0.47
1:AA:1159:U:N3	1:AA:1182:G:C6	2.82	0.47
1:AA:1351:U:O4	9:AL:118:LYS:HE3	2.14	0.47
1:AA:1372:U:H2'	1:AA:1373:G:O5'	2.14	0.47
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.49	0.47
3:AF:189:ALA:O	3:AF:190:ARG:C	2.57	0.47
4:AG:158:ILE:HG22	4:AG:159:ARG:N	2.30	0.47
7:AJ:91:VAL:HG12	7:AJ:95:ARG:HB3	1.96	0.47
13:AP:84:ILE:HD11	19:AV:66:MET:HG2	1.95	0.47
14:AQ:21:TYR:HE2	14:AQ:23:ARG:HE	1.61	0.47
20:AW:37:SER:O	20:AW:41:ILE:HG12	2.14	0.47
24:A1:14:U:C2'	24:A1:15:U:O4'	2.62	0.47
25:BA:248:G:H5'	25:BA:250:G:N7	2.28	0.47
25:BA:280:C:C2'	25:BA:281:G:H5'	2.44	0.47
25:BA:593:G:O3'	54:B8:61:LEU:HD13	2.14	0.47
25:BA:1531:C:O2'	25:BA:1532:C:H5'	2.13	0.47
25:BA:1609:A:O2'	25:BA:1610:A:H5'	2.14	0.47
25:BA:2136:C:H2'	25:BA:2137:C:O4'	2.14	0.47
25:BA:2168:G:N2	25:BA:2170:A:O5'	2.44	0.47
26:BB:15:A:H3'	26:BB:16:G:H5'	1.96	0.47
26:BB:79:C:O5'	26:BB:79:C:H6	1.96	0.47
27:BD:35:LYS:CE	27:BD:104:TYR:CD1	2.98	0.47
27:BD:35:LYS:H	27:BD:64:ILE:HG23	1.79	0.47
27:BD:65:ILE:CG1	27:BD:67:PHE:CE1	2.96	0.47
27:BD:158:ALA:HB3	27:BD:161:THR:CG2	2.44	0.47
27:BD:172:TYR:HD1	27:BD:185:VAL:C	2.21	0.47
28:BE:111:ARG:HG2	37:B0:1:MET:CE	2.44	0.47
39:BR:16:ARG:HD3	39:BR:19:LEU:CD1	2.38	0.47
41:B2:59:ALA:CB	41:B2:96:ILE:HD13	2.36	0.47
43:BT:29:TRP:CZ3	43:BT:78:LYS:HG2	2.49	0.47
45:BV:58:VAL:O	45:BV:67:LEU:O	2.32	0.47
1:CA:31:G:O2'	1:CA:48:C:N4	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:161:A:C6	1:CA:162:A:C6	3.02	0.47
1:CA:1133:G:H2'	1:CA:1134:G:H8	1.78	0.47
1:CA:1151:A:N6	1:CA:1152:A:N6	2.62	0.47
1:CA:1247:U:H1'	1:CA:1291:G:N2	2.29	0.47
1:CA:1480:G:C5	1:CA:1481:U:C5	3.02	0.47
2:CE:18:GLY:O	2:CE:19:HIS:ND1	2.40	0.47
3:CF:16:ARG:HH11	3:CF:16:ARG:CA	2.27	0.47
5:CH:103:GLY:N	5:CH:106:PRO:HG2	2.29	0.47
11:CN:78:GLN:O	11:CN:103:LEU:HA	2.14	0.47
19:CV:28:LYS:CG	19:CV:29:ARG:H	2.26	0.47
22:CB:6:G:N2	22:CB:78:C:O2	2.47	0.47
23:CC:53:G:O2'	23:CC:54:G:H5'	2.15	0.47
25:DA:17:G:H4'	40:D1:25:TRP:CZ3	2.49	0.47
25:DA:753:C:C2	25:DA:754:C:C5	3.03	0.47
25:DA:825:C:O2	35:DO:55:ARG:NH2	2.46	0.47
25:DA:973:A:H5'	25:DA:1188:U:H1'	1.96	0.47
25:DA:2032:G:N2	28:DE:146:THR:HG23	2.17	0.47
25:DA:2093:G:N7	25:DA:2225:A:H2'	2.29	0.47
25:DA:2371:G:O2'	52:D6:46:HIS:ND1	2.47	0.47
25:DA:2564:A:OP1	25:DA:2648:C:H4'	2.13	0.47
26:DB:44:G:H5"	26:DB:45:A:OP1	2.14	0.47
26:DB:73:A:C4	26:DB:104:A:C2	3.02	0.47
27:DD:108:PRO:HG2	27:DD:111:LEU:HB2	1.95	0.47
29:DF:22:ALA:O	29:DF:24:LEU:O	2.32	0.47
30:DG:105:LYS:HE3	50:D4:26:SER:HB3	1.95	0.47
35:DO:52:GLU:OE2	35:DO:58:THR:N	2.44	0.47
38:DQ:61:ASN:HB3	38:DQ:64:GLU:CB	2.44	0.47
39:DR:19:LEU:HD22	39:DR:86:ILE:HG23	1.96	0.47
40:D1:58:ARG:O	40:D1:62:ILE:HD13	2.12	0.47
41:D2:60:GLU:OE2	41:D2:97:LYS:HE3	2.14	0.47
41:D2:67:GLY:O	41:D2:88:ARG:HD3	2.14	0.47
44:DU:85:VAL:HG12	44:DU:85:VAL:O	2.14	0.47
1:AA:767:A:H2'	1:AA:768:A:O4'	2.14	0.47
1:AA:778:G:H8	1:AA:778:G:O5'	1.98	0.47
1:AA:1152:A:C5	1:AA:1153:C:C5	3.02	0.47
4:AG:98:GLU:OE1	4:AG:194:LEU:CD2	2.62	0.47
25:BA:141(A):C:H2'	25:BA:142:G:O4'	2.15	0.47
25:BA:301:G:H1'	25:BA:302:C:C6	2.50	0.47
25:BA:394:A:C2'	25:BA:395:U:H5'	2.44	0.47
25:BA:822:U:O2'	25:BA:823:G:H5'	2.14	0.47
25:BA:897:C:H2'	25:BA:898:C:O5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:905:U:C3'	25:BA:906:G:H5"	2.45	0.47
25:BA:1142(A):A:C4	25:BA:1144:G:N7	2.83	0.47
25:BA:1155:A:O2'	25:BA:1156:A:H2'	2.14	0.47
25:BA:1432:C:H2'	25:BA:1433:U:O4'	2.14	0.47
25:BA:1449(A):G:H2'	25:BA:1450:C:C6	2.49	0.47
25:BA:2056:G:H1	51:B5:4:HIS:CD2	2.33	0.47
25:BA:2287:A:N6	25:BA:2344:U:C2	2.82	0.47
25:BA:2348:U:H4'	52:B6:42:TRP:CD1	2.49	0.47
29:BF:34:TRP:CE2	35:BO:8:PRO:HD3	2.49	0.47
33:BM:17:ASP:O	33:BM:55:VAL:O	2.32	0.47
35:BO:52:GLU:OE2	35:BO:58:THR:N	2.44	0.47
35:BO:61:ARG:HB2	35:BO:61:ARG:CZ	2.26	0.47
35:BO:65:ARG:HH11	35:BO:65:ARG:CG	1.94	0.47
48:BW:10:LEU:O	48:BW:14:ARG:HG3	2.14	0.47
1:CA:197:A:H1'	1:CA:198:G:O4'	2.13	0.47
1:CA:530:G:O6	24:C1:21:U:H1'	2.14	0.47
1:CA:552:U:H2'	1:CA:553:A:H5'	1.95	0.47
1:CA:787:A:C2	1:CA:796:C:N3	2.82	0.47
1:CA:1068:G:N3	1:CA:1191:A:C2	2.82	0.47
6:CI:72:VAL:HG13	6:CI:73:ASN:N	2.29	0.47
19:CV:63:THR:HG23	19:CV:65:ASN:O	2.14	0.47
22:CB:51:A:OP1	22:CB:52:U:C5	2.67	0.47
25:DA:78:A:C6	25:DA:79:G:C6	3.02	0.47
25:DA:524:U:H2'	25:DA:525:U:H6	1.79	0.47
25:DA:817:C:HO2'	25:DA:818:G:H5'	1.79	0.47
25:DA:864:G:C6	25:DA:865:C:C4	3.02	0.47
25:DA:1131:G:N2	25:DA:1132:A:C4	2.83	0.47
25:DA:1839:G:C8	25:DA:1927:A:C1'	2.96	0.47
25:DA:1853:A:H2'	25:DA:1854:A:C8	2.48	0.47
25:DA:2239:G:H5'	27:DD:251:GLY:HA3	1.97	0.47
25:DA:2712:U:O2'	25:DA:2712(A):A:OP2	2.24	0.47
25:DA:2820:A:O2'	28:DE:191:PRO:HG3	2.14	0.47
27:DD:35:LYS:HD3	27:DD:63:ARG:CA	2.43	0.47
28:DE:130:GLY:O	28:DE:131:ALA:O	2.32	0.47
34:DN:20:MET:HB2	34:DN:44:LYS:HG3	1.96	0.47
41:D2:2:PHE:O	41:D2:42:GLY:N	2.47	0.47
50:D4:13:ARG:O	50:D4:29:PRO:O	2.33	0.47
53:D7:8:ASN:ND2	53:D7:11:LYS:N	2.36	0.47
1:AA:185:A:H2'	1:AA:186:C:C6	2.49	0.47
1:AA:222:U:C2	1:AA:223:U:C5	3.02	0.47
1:AA:222:U:H2'	1:AA:223:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:529:G:O6	12:AO:49:ASN:ND2	2.48	0.47
1:AA:663:A:H2'	1:AA:664:G:O4'	2.14	0.47
1:AA:947:G:H2'	1:AA:948:C:O4'	2.14	0.47
1:AA:965:A:C2	1:AA:969:A:N1	2.83	0.47
1:AA:1004:A:C2	1:AA:1024:G:H2'	2.50	0.47
1:AA:1039:C:H2'	1:AA:1040:U:O4'	2.13	0.47
1:AA:1083:U:H5	1:AA:1084:G:C6	2.32	0.47
1:AA:1112:C:N4	3:AF:178:LEU:HD23	2.29	0.47
2:AE:7:VAL:HG22	2:AE:8:LYS:O	2.14	0.47
3:AF:29:TYR:OH	14:AQ:54:PRO:HD2	2.14	0.47
17:AT:57:VAL:HG23	17:AT:58:GLU:N	2.29	0.47
23:AD:57:C:H5'	25:BA:2169:A:C1'	2.45	0.47
25:BA:529:A:C2'	25:BA:529:A:N3	2.77	0.47
25:BA:529:A:H4'	25:BA:530:G:H5'	1.96	0.47
25:BA:587:C:H4'	25:BA:588:U:O5'	2.14	0.47
25:BA:606:U:OP1	29:BF:104:LYS:HD2	2.14	0.47
25:BA:1588:C:H2'	25:BA:1589:C:H6	1.79	0.47
25:BA:2347:C:H4'	52:B6:39:TYR:HE2	1.78	0.47
25:BA:2467:C:O2'	25:BA:2468:G:H5"	2.15	0.47
25:BA:2836:U:H2'	25:BA:2837:G:C8	2.50	0.47
25:BA:2860:A:C8	25:BA:2861:G:H1'	2.49	0.47
28:BE:51:PHE:HD1	28:BE:52:LEU:HD21	1.71	0.47
31:BH:10:PRO:C	31:BH:11:VAL:HG13	2.39	0.47
32:BK:128:LEU:O	32:BK:138:ILE:HG22	2.14	0.47
34:BN:14:THR:HG22	34:BN:95:GLY:N	2.29	0.47
34:BN:17:ARG:NE	34:BN:47:ILE:HD13	2.30	0.47
35:BO:47:ASP:HA	35:BO:48:PRO:HD3	1.55	0.47
35:BO:120:ALA:HB1	35:BO:138:LEU:HB3	1.96	0.47
36:BP:66:ILE:O	36:BP:67:ARG:CB	2.61	0.47
36:BP:106:VAL:HG21	36:BP:114:ALA:HB1	1.97	0.47
40:B1:47:TYR:CD2	40:B1:47:TYR:C	2.92	0.47
41:B2:35:LEU:C	41:B2:37:VAL:N	2.72	0.47
42:BS:45:TYR:C	42:BS:45:TYR:CD2	2.91	0.47
1:CA:209:U:O2	1:CA:209:U:H2'	2.14	0.47
1:CA:464:G:O6	1:CA:466:C:H5'	2.13	0.47
1:CA:573:A:N3	1:CA:883:C:O2'	2.37	0.47
1:CA:1037:C:H3'	1:CA:1037:C:H6	1.79	0.47
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.50	0.47
4:CG:101:LEU:HD23	4:CG:121:VAL:HG11	1.96	0.47
6:CI:50:TYR:CE1	18:CU:74:ARG:O	2.68	0.47
6:CI:100:ASN:ND2	18:CU:23:LYS:HD2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CN:56:GLY:O	11:CN:89:ALA:HB3	2.14	0.47
14:CQ:16:PHE:HB2	14:CQ:18:VAL:HG23	1.95	0.47
16:CS:22:THR:HA	16:CS:33:ILE:HG12	1.95	0.47
17:CT:59:ILE:HG23	17:CT:71:PHE:HB3	1.96	0.47
17:CT:68:ARG:N	17:CT:70:ARG:NH1	2.63	0.47
20:CW:55:ILE:HD13	20:CW:55:ILE:HA	1.77	0.47
22:CB:28:C:H2'	22:CB:29:U:O4'	2.14	0.47
23:CD:57:C:C2	25:DA:2169:A:C8	3.02	0.47
25:DA:953:A:O2'	25:DA:954:G:H5'	2.14	0.47
25:DA:958:U:O2	26:DB:89(A):A:H4'	2.15	0.47
25:DA:1188:U:H4'	41:D2:79:VAL:HG12	1.96	0.47
25:DA:1215:G:O2'	25:DA:1216:G:H5'	2.14	0.47
25:DA:1225:C:O2'	41:D2:85:LYS:N	2.46	0.47
25:DA:1829:A:N3	27:DD:15:PHE:HE1	2.12	0.47
25:DA:1952:A:C5	34:DN:22:ILE:CD1	2.92	0.47
25:DA:2270:G:H2'	25:DA:2271:G:H5'	1.96	0.47
25:DA:2296:U:OP2	38:DQ:9:ARG:NH1	2.47	0.47
25:DA:2875:C:O2'	39:DR:5:ALA:HB3	2.14	0.47
27:DD:67:PHE:HB3	27:DD:153:ALA:H	1.78	0.47
27:DD:267:SER:C	27:DD:269:PHE:N	2.71	0.47
28:DE:79:ARG:HA	28:DE:79:ARG:NE	2.28	0.47
29:DF:24:LEU:HB3	29:DF:25:PRO:CD	2.44	0.47
30:DG:117:PHE:CD1	30:DG:117:PHE:O	2.67	0.47
31:DH:54:ARG:HB2	31:DH:55:PRO:HD2	1.96	0.47
40:D1:110:VAL:O	40:D1:113:ALA:HB3	2.15	0.47
43:DT:64:LYS:HD3	43:DT:73:ARG:NE	2.30	0.47
45:DV:93:ASP:O	45:DV:94:GLU:HG3	2.15	0.47
45:DV:150:LEU:O	45:DV:150:LEU:HD13	2.15	0.47
1:AA:955:U:H1'	1:AA:1227:A:N6	2.29	0.47
1:AA:1005:A:N1	1:AA:1024:G:H8	2.11	0.47
1:AA:1281:U:H5"	1:AA:1282:C:OP2	2.15	0.47
2:AE:102:LEU:HB3	2:AE:180:LEU:HD12	1.96	0.47
4:AG:92:VAL:O	4:AG:96:LEU:HD22	2.14	0.47
7:AJ:120:ILE:O	7:AJ:124:LEU:HD12	2.15	0.47
25:BA:562:U:O4	25:BA:2036:C:H1'	2.13	0.47
25:BA:780:G:C2	25:BA:783:A:N6	2.83	0.47
25:BA:1354:A:H2'	25:BA:1355:G:O4'	2.15	0.47
25:BA:1505:C:H2'	25:BA:1506:C:C6	2.49	0.47
25:BA:1534:G:H2'	25:BA:1535:U:O4'	2.15	0.47
25:BA:1697:G:OP2	25:BA:1698:A:O2'	2.27	0.47
25:BA:1784:A:H4'	25:BA:1785:A:C5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2210:G:C3'	25:BA:2211:G:N7	2.75	0.47
25:BA:2751:G:N2	31:BH:3:ARG:HG2	2.30	0.47
26:BB:39:A:C2	26:BB:44:G:C4	3.02	0.47
28:BE:13:ARG:CG	39:BR:58:ASN:OD1	2.60	0.47
28:BE:167:VAL:HG11	28:BE:187:ALA:O	2.15	0.47
32:BK:14:ASP:C	32:BK:15:VAL:HG22	2.39	0.47
33:BM:23:LEU:CD1	33:BM:99:LEU:HD23	2.44	0.47
35:BO:39:LYS:HB2	35:BO:45:LEU:HD22	1.97	0.47
40:B1:60:LEU:CD1	40:B1:64:ARG:HD2	2.44	0.47
43:BT:29:TRP:CE3	43:BT:78:LYS:HG2	2.49	0.47
43:BT:49:VAL:CG1	43:BT:50:LYS:H	2.24	0.47
49:BX:24:LYS:O	49:BX:27:GLY:N	2.46	0.47
51:B5:40:LYS:HD3	51:B5:46:CYS:HB3	1.94	0.47
53:B7:48:LYS:O	53:B7:49:ARG:HB2	2.14	0.47
54:B8:25:MET:O	54:B8:47:LYS:NZ	2.48	0.47
1:CA:522:C:OP2	12:CO:69:TYR:OH	2.28	0.47
1:CA:527:G:H2'	1:CA:528:C:H5'	1.96	0.47
1:CA:631:G:O3'	1:CA:632:A:H8	1.96	0.47
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.50	0.47
1:CA:1200:C:H5'	1:CA:1201:A:C5'	2.45	0.47
1:CA:1222:G:OP1	1:CA:1321:C:O2	2.33	0.47
1:CA:1224:G:N2	1:CA:1322:C:H4'	2.30	0.47
1:CA:1442:G:N7	1:CA:1446:A:C2	2.82	0.47
1:CA:1480:G:H2'	1:CA:1481:U:H6	1.78	0.47
7:CJ:13:GLN:O	7:CJ:24:THR:HG21	2.15	0.47
8:CK:38:ILE:HD11	8:CK:118:VAL:O	2.15	0.47
9:CL:85:LEU:HD12	9:CL:86:VAL:N	2.28	0.47
10:CM:54:PHE:CE1	10:CM:55:LYS:CE	2.97	0.47
11:CN:66:LEU:CD2	11:CN:101:SER:HB3	2.44	0.47
17:CT:10:VAL:HG13	17:CT:19:VAL:HB	1.95	0.47
22:CB:61:C:N4	22:CB:75:G:H1	2.12	0.47
23:CC:73:A:C6	23:CC:74:A:C6	3.02	0.47
25:DA:453:C:H4'	25:DA:472:A:N6	2.28	0.47
25:DA:602:G:N2	25:DA:655:A:C8	2.79	0.47
25:DA:856:C:HO2'	25:DA:857:C:P	2.37	0.47
25:DA:996:A:O2'	40:D1:92:ARG:NH2	2.48	0.47
25:DA:1088:A:H4'	25:DA:1089:G:C8	2.49	0.47
25:DA:2154:G:O2'	25:DA:2155:G:H5'	2.14	0.47
25:DA:2255:G:C2	36:DP:85:LYS:HE2	2.46	0.47
25:DA:2385:C:OP2	25:DA:2385:C:H4'	2.15	0.47
25:DA:2654:A:OP1	25:DA:2654:A:H8	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2728:U:O2'	25:DA:2729:G:H5'	2.14	0.47
25:DA:2747:G:H21	25:DA:2757:A:H62	1.61	0.47
28:DE:10:GLY:O	28:DE:24:THR:O	2.33	0.47
28:DE:14:ILE:HB	39:DR:14:TYR:CZ	2.49	0.47
35:DO:113:LYS:HG2	35:DO:115:LEU:CD2	2.45	0.47
38:DQ:56:LEU:O	38:DQ:58:LEU:HD23	2.14	0.47
38:DQ:110:LEU:HD13	38:DQ:111:GLU:H	1.78	0.47
43:DT:43:VAL:HG22	43:DT:51:VAL:HG21	1.97	0.47
50:D4:61:ARG:CG	50:D4:62:ARG:HH21	2.27	0.47
1:AA:27:G:C4'	4:AG:209:ARG:HG3	2.43	0.47
1:AA:96:G:H2'	1:AA:97:U:C5'	2.44	0.47
1:AA:198:G:C6	1:AA:220:G:C2	3.02	0.47
1:AA:265:G:H5'	17:AT:64:PRO:O	2.14	0.47
1:AA:465:A:N6	1:AA:467:G:C2	2.82	0.47
1:AA:754:C:H3'	1:AA:754:C:O2	2.14	0.47
1:AA:950:U:C5	13:AP:102:ARG:NH1	2.83	0.47
1:AA:1091:U:O2	1:AA:1093:A:C8	2.68	0.47
1:AA:1178:G:H5'	9:AL:93:ARG:NH2	2.28	0.47
5:AH:33:VAL:HB	5:AH:112:LEU:HD12	1.97	0.47
8:AK:73:ASP:OD2	8:AK:75:ARG:NE	2.48	0.47
22:AB:24:C:C5	22:AB:25:A:C8	3.02	0.47
22:AB:28:C:H2'	22:AB:29:U:C6	2.50	0.47
23:AC:52:C:H2'	23:AC:53:G:O4'	2.15	0.47
23:AD:37:U:H2'	23:AD:38:A:O4'	2.14	0.47
25:BA:456:C:C4	43:BT:69:TYR:CE1	3.03	0.47
25:BA:636:G:N7	35:BO:113:LYS:HE2	2.30	0.47
25:BA:644:A:H4'	25:BA:645:C:C5	2.49	0.47
25:BA:889:C:H5"	25:BA:890:A:OP2	2.15	0.47
25:BA:1063:G:C6	25:BA:1064:C:C4	3.02	0.47
25:BA:1266:G:C6	42:BS:16:LYS:HD2	2.50	0.47
25:BA:1372:U:H2'	25:BA:1373:A:O4'	2.14	0.47
25:BA:1797:C:O2'	27:BD:259:THR:HB	2.15	0.47
25:BA:2317:C:C2'	25:BA:2318:G:C5'	2.81	0.47
25:BA:2327:A:H2'	25:BA:2328:A:H8	1.75	0.47
27:BD:35:LYS:HZ3	27:BD:104:TYR:HD1	1.60	0.47
28:BE:11:MET:O	28:BE:12:THR:HB	2.13	0.47
29:BF:132:VAL:HG12	29:BF:163:VAL:HG22	1.95	0.47
30:BG:7:LEU:HD23	30:BG:100:TRP:CE3	2.49	0.47
30:BG:7:LEU:HB2	30:BG:104:GLU:CD	2.39	0.47
32:BK:99:GLU:O	32:BK:102:SER:CB	2.62	0.47
42:BS:29:LEU:HD21	42:BS:33:ARG:NH2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BV:7:ALA:O	45:BV:8:TYR:CD2	2.68	0.47
45:BV:39:VAL:HG21	45:BV:44:PHE:HB2	1.96	0.47
50:B4:62:ARG:O	50:B4:62:ARG:HG3	2.12	0.47
1:CA:983:A:H2	1:CA:984:C:C6	2.32	0.47
1:CA:1156:G:C3'	1:CA:1157:A:H5"	2.44	0.47
1:CA:1162:C:O2'	1:CA:1163:C:H5'	2.15	0.47
1:CA:1446:A:C6	39:DR:118:ARG:CZ	2.98	0.47
2:CE:114:ARG:O	2:CE:114:ARG:HG3	2.14	0.47
4:CG:11:LEU:C	4:CG:13:ARG:N	2.67	0.47
4:CG:107:ARG:HG2	4:CG:107:ARG:NH1	2.30	0.47
6:CI:100:ASN:HB2	18:CU:23:LYS:HD3	1.95	0.47
11:CN:48:ILE:CG1	11:CN:63:LEU:HB2	2.44	0.47
20:CW:67:ALA:HA	20:CW:73:HIS:H	1.79	0.47
25:DA:1000:A:C6	25:DA:1155:A:C8	3.03	0.47
25:DA:1050:A:H2'	25:DA:1051:G:O4'	2.14	0.47
25:DA:1657:C:H2'	25:DA:1658:C:H6	1.79	0.47
25:DA:1671:U:O2'	25:DA:1673:U:H5	1.96	0.47
25:DA:2401:U:O2	25:DA:2402:C:H5	1.96	0.47
25:DA:2646:C:O5'	25:DA:2646:C:H6	1.96	0.47
25:DA:2872:G:N9	25:DA:2873:A:C2	2.82	0.47
26:DB:66:A:C2	26:DB:108:C:C4	3.03	0.47
27:DD:68:LYS:HB2	27:DD:70:TRP:CE3	2.50	0.47
31:DH:4:ILE:CD1	31:DH:6:ARG:HG2	2.45	0.47
31:DH:20:ALA:HB1	31:DH:21:PRO:CD	2.45	0.47
32:DK:10:GLU:OE2	32:DK:11:ASN:HB2	2.14	0.47
35:DO:9:ASN:O	35:DO:10:PRO:C	2.56	0.47
35:DO:38:GLN:O	35:DO:41:ARG:N	2.48	0.47
36:DP:33:GLY:O	36:DP:118:LEU:HD13	2.15	0.47
38:DQ:35:ILE:O	38:DQ:35:ILE:HG13	2.12	0.47
38:DQ:36:TYR:N	38:DQ:36:TYR:CD1	2.83	0.47
38:DQ:42:ASP:C	38:DQ:44:LYS:H	2.22	0.47
39:DR:90:GLN:HE21	39:DR:90:GLN:CA	2.22	0.47
39:DR:90:GLN:HE22	39:DR:121:ILE:HD11	1.78	0.47
40:D1:65:ILE:HD11	40:D1:96:ALA:HB1	1.94	0.47
40:D1:66:ASN:CB	40:D1:76:TYR:HB2	2.44	0.47
50:D4:56:VAL:HA	50:D4:60:GLN:NE2	2.23	0.47
52:D6:27:LYS:HB3	52:D6:27:LYS:NZ	2.25	0.47
1:AA:10:A:OP2	5:AH:126:ARG:HD3	2.15	0.47
1:AA:33:A:H5"	1:AA:364:A:H1'	1.96	0.47
1:AA:410:G:H5"	1:AA:411:A:OP1	2.14	0.47
1:AA:501:C:H1'	1:AA:549:C:H1'	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:586:C:O2'	1:AA:878:G:H4'	2.14	0.47
1:AA:936:C:H2'	1:AA:937:A:O4'	2.15	0.47
1:AA:939:G:C6	1:AA:940:C:N4	2.83	0.47
1:AA:960:U:N3	1:AA:1225:A:C4	2.82	0.47
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.79	0.47
1:AA:1175:G:C6	1:AA:1176:A:N6	2.83	0.47
1:AA:1346:A:C5'	9:AL:120:ARG:HH12	2.27	0.47
1:AA:1374:A:C2'	1:AA:1375:A:H5'	2.43	0.47
1:AA:1499:A:O2'	1:AA:1520:G:H5'	2.15	0.47
2:AE:72:GLY:HA3	2:AE:165:VAL:CG2	2.44	0.47
2:AE:223:ILE:HG13	2:AE:229:VAL:HG22	1.96	0.47
3:AF:134:ILE:HG22	3:AF:168:ALA:HB3	1.97	0.47
5:AH:41:VAL:HG11	5:AH:113:ALA:HB2	1.97	0.47
6:AI:9:VAL:HB	6:AI:87:ARG:HB2	1.97	0.47
17:AT:58:GLU:O	17:AT:74:LEU:N	2.33	0.47
21:AX:9:ARG:O	21:AX:13:ILE:HG13	2.14	0.47
22:AB:19:G:H4'	22:AB:20:U:OP2	2.15	0.47
23:AD:50:G:N2	23:AD:67:C:O2	2.48	0.47
23:AD:57:C:H5'	25:BA:2169:A:O4'	2.14	0.47
25:BA:53:A:H2'	25:BA:54:G:O4'	2.14	0.47
25:BA:172:C:H2'	25:BA:173:G:H8	1.80	0.47
25:BA:488:G:H1'	25:BA:492:A:N6	2.30	0.47
25:BA:600:G:N2	25:BA:605:C:O3'	2.48	0.47
25:BA:1047:G:O2'	25:BA:1048:A:C8	2.66	0.47
25:BA:1142(A):A:H4'	25:BA:1143:A:OP1	2.14	0.47
25:BA:1150:C:H2'	25:BA:1151:G:O4'	2.14	0.47
25:BA:1192:G:H2'	25:BA:1193:G:H5'	1.96	0.47
25:BA:1376:C:H2'	25:BA:1377:G:O5'	2.14	0.47
25:BA:1435:G:H21	25:BA:1478:G:H5'	1.80	0.47
25:BA:1519:G:H2'	25:BA:1520:U:H5'	1.96	0.47
25:BA:1691:C:C2'	25:BA:1692:U:H5'	2.45	0.47
25:BA:2032:G:H1'	28:BE:145:LYS:HD3	1.97	0.47
25:BA:2098:U:C4	25:BA:2099:U:C5	3.03	0.47
25:BA:2182:G:H2'	25:BA:2183:C:C6	2.50	0.47
25:BA:2303:G:O2'	25:BA:2304:G:H5'	2.15	0.47
25:BA:2473:U:C3'	25:BA:2474:C:H5"	2.44	0.47
25:BA:2599:G:O2'	25:BA:2600:A:H5'	2.15	0.47
25:BA:2894:G:C2'	25:BA:2895:U:OP2	2.63	0.47
26:BB:37:C:C3'	26:BB:38:C:H5'	2.43	0.47
26:BB:42:C:H4'	30:BG:67:LYS:HD3	1.95	0.47
27:BD:12:SER:HB2	27:BD:207:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:35:LYS:CA	27:BD:64:ILE:HG22	2.43	0.47
27:BD:74:GLY:O	27:BD:76:PRO:HD3	2.15	0.47
27:BD:96:HIS:NE2	27:BD:102:LYS:HE2	2.30	0.47
28:BE:30:PRO:O	28:BE:32:PRO:HD3	2.15	0.47
30:BG:56:ALA:HB2	30:BG:153:ARG:HE	1.79	0.47
32:BK:73:GLU:HG3	32:BK:137:PRO:CG	2.44	0.47
33:BM:96:GLU:N	33:BM:98:VAL:HG12	2.29	0.47
35:BO:9:ASN:CB	35:BO:10:PRO:CD	2.82	0.47
35:BO:50:ARG:HH21	35:BO:50:ARG:CB	2.28	0.47
35:BO:50:ARG:NH2	35:BO:50:ARG:HB2	2.30	0.47
37:B0:56:LYS:NZ	37:B0:90:ARG:O	2.47	0.47
40:B1:30:LYS:N	40:B1:30:LYS:HD3	2.29	0.47
40:B1:38:THR:O	40:B1:41:ALA:HB3	2.15	0.47
41:B2:22:VAL:HG12	41:B2:23:GLU:N	2.30	0.47
44:BU:21:LYS:HE2	44:BU:21:LYS:HB3	1.56	0.47
45:BV:99:TYR:HD1	45:BV:123:ASP:HB3	1.79	0.47
45:BV:121:HIS:C	45:BV:123:ASP:N	2.71	0.47
48:BW:42:GLY:C	48:BW:44:LEU:H	2.21	0.47
53:B7:10:ARG:NH1	53:B7:14:LYS:HE2	2.29	0.47
54:B8:60:LEU:O	54:B8:61:LEU:C	2.56	0.47
1:CA:109:A:C6	1:CA:326:G:C6	3.03	0.47
1:CA:353:A:H5'	1:CA:353:A:C8	2.42	0.47
1:CA:583:A:H2'	1:CA:584:G:O4'	2.14	0.47
1:CA:652:U:C5	1:CA:752:G:C4	3.03	0.47
1:CA:792:A:H1'	1:CA:794:A:N7	2.30	0.47
1:CA:859:A:N7	1:CA:860:A:C5	2.83	0.47
1:CA:1056:U:H5'	3:CF:163:ALA:HB2	1.97	0.47
1:CA:1072:G:C5	1:CA:1073:U:C5	3.03	0.47
1:CA:1116:C:H42	1:CA:1184:G:H1	1.62	0.47
1:CA:1159:U:O2	1:CA:1181:G:C6	2.67	0.47
1:CA:1223:C:OP2	1:CA:1224:G:H2'	2.15	0.47
2:CE:73:THR:HG23	2:CE:170:GLU:OE2	2.14	0.47
2:CE:154:LEU:HB3	2:CE:155:LEU:H	1.53	0.47
2:CE:237:ALA:N	2:CE:239:VAL:H	2.12	0.47
5:CH:107:ARG:O	5:CH:110:LEU:N	2.48	0.47
9:CL:95:LYS:HZ2	9:CL:96:LEU:HA	1.80	0.47
18:CU:19:LYS:HD3	18:CU:20:ALA:H	1.78	0.47
19:CV:23:ASN:HA	19:CV:27:GLU:HG3	1.97	0.47
22:CB:44:G:H2'	22:CB:45:U:H5'	1.96	0.47
23:CD:44:A:N1	23:CD:45:A:N6	2.63	0.47
23:CD:57:C:H42	25:DA:2112:G:N2	1.99	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:107:C:H2'	25:DA:108:U:C6	2.49	0.47
25:DA:147:U:C2'	25:DA:148:C:H5"	2.42	0.47
25:DA:674:G:C1'	29:DF:74:ARG:HD3	2.43	0.47
25:DA:696:G:H2'	25:DA:697:C:H6	1.79	0.47
25:DA:1047:G:C2'	25:DA:1110:G:H22	2.26	0.47
25:DA:1055:G:N3	25:DA:1085:A:C2	2.82	0.47
25:DA:1104:C:H2'	25:DA:1105:U:C6	2.49	0.47
25:DA:1454:U:C5	25:DA:2702:U:O4	2.68	0.47
25:DA:2365:G:H4'	46:D3:60:PHE:CZ	2.50	0.47
25:DA:2389:G:H5"	25:DA:2390:U:C5'	2.44	0.47
25:DA:2517:C:C6	25:DA:2542:A:N1	2.82	0.47
25:DA:2523:G:H8	25:DA:2523:G:C5'	2.27	0.47
26:DB:110:G:H2'	26:DB:111:U:O4'	2.14	0.47
27:DD:70:TRP:HZ3	27:DD:146:GLU:OE2	1.97	0.47
28:DE:12:THR:O	28:DE:23:VAL:HG22	2.14	0.47
28:DE:66:HIS:CE1	28:DE:73:GLU:HG3	2.49	0.47
29:DF:25:PRO:CG	29:DF:26:ALA:N	2.78	0.47
29:DF:111:ALA:HB2	29:DF:206:ILE:HG21	1.97	0.47
31:DH:9:ILE:HG22	31:DH:51:ARG:HA	1.96	0.47
31:DH:41:MET:O	31:DH:42:ARG:HB3	2.13	0.47
31:DH:153:LYS:O	31:DH:161:GLY:HA3	2.14	0.47
33:DM:13:TRP:O	33:DM:135:PRO:HD2	2.15	0.47
34:DN:98:VAL:HG11	34:DN:114:ILE:HG23	1.97	0.47
35:DO:9:ASN:O	35:DO:10:PRO:O	2.33	0.47
35:DO:19:VAL:HG13	35:DO:20:GLY:N	2.30	0.47
35:DO:31:ALA:O	35:DO:32:THR:OG1	2.30	0.47
35:DO:39:LYS:HD2	35:DO:45:LEU:HD21	1.94	0.47
35:DO:97:PRO:O	35:DO:98:GLU:HB3	2.15	0.47
35:DO:138:LEU:HD13	35:DO:138:LEU:C	2.39	0.47
36:DP:34:LEU:HD12	36:DP:130:LYS:O	2.14	0.47
37:D0:37:THR:HG22	37:D0:39:PRO:HD2	1.95	0.47
38:DQ:83:LYS:HZ2	38:DQ:109:GLY:H	1.61	0.47
39:DR:11:GLU:N	39:DR:11:GLU:OE1	2.48	0.47
40:D1:17:ILE:HD12	40:D1:32:PHE:HE2	1.79	0.47
45:DV:28:MET:HE1	45:DV:67:LEU:HD13	1.97	0.47
47:DZ:86:SER:N	47:DZ:87:PRO:HD3	2.29	0.47
52:D6:28:ARG:CB	52:D6:31:PRO:HD2	2.44	0.47
1:AA:84:U:H6	1:AA:84:U:OP1	1.98	0.47
1:AA:266:G:N2	1:AA:269:C:C5	2.83	0.47
1:AA:447:G:H2'	1:AA:485:G:N2	2.30	0.47
1:AA:1004:A:N3	1:AA:1025:U:C2	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1500:A:OP2	1:AA:1505:G:OP1	2.33	0.47
2:AE:21:ARG:HB2	2:AE:38:GLY:C	2.39	0.47
3:AF:12:LEU:O	3:AF:14:ILE:N	2.47	0.47
7:AJ:17:VAL:HB	7:AJ:44:TYR:OH	2.14	0.47
10:AM:34:VAL:HG13	10:AM:74:ILE:HG23	1.96	0.47
25:BA:197:A:H62	25:BA:2430:A:H2'	1.80	0.47
25:BA:354:G:C2'	25:BA:355:G:H5'	2.45	0.47
25:BA:528:A:N1	25:BA:2043:C:H5'	2.30	0.47
25:BA:754:C:H2'	25:BA:755:C:H6	1.79	0.47
25:BA:822:U:C2'	25:BA:823:G:H5'	2.45	0.47
25:BA:973:A:H8	25:BA:973:A:OP1	1.98	0.47
25:BA:1056:G:N2	25:BA:1103:A:C5	2.82	0.47
25:BA:1057:A:C8	25:BA:1086:A:C4	3.03	0.47
25:BA:1141:U:C6	33:BM:63:THR:OG1	2.55	0.47
25:BA:1496:A:C8	25:BA:1577:C:O2'	2.51	0.47
25:BA:1758:G:C2	25:BA:2696:U:H5'	2.50	0.47
25:BA:1799:G:C5'	25:BA:1819:A:N6	2.78	0.47
25:BA:2238:G:N3	25:BA:2238:G:H2'	2.29	0.47
25:BA:2348:U:O4	25:BA:2382:G:C2	2.67	0.47
25:BA:2876:G:H5'	39:BR:2:ASN:HB3	1.96	0.47
30:BG:112:PRO:CB	50:B4:37:SER:HB2	2.44	0.47
31:BH:20:ALA:HB3	31:BH:23:ARG:HD2	1.95	0.47
31:BH:67:LEU:O	31:BH:71:LEU:HB2	2.15	0.47
35:BO:58:THR:O	35:BO:58:THR:CG2	2.62	0.47
35:BO:106:LEU:O	35:BO:107:LYS:HB2	2.13	0.47
38:BQ:88:ASP:OD1	38:BQ:89:ARG:N	2.48	0.47
40:B1:78:THR:O	40:B1:79:PHE:C	2.57	0.47
44:BU:2:ARG:HG2	44:BU:3:VAL:HG23	1.97	0.47
46:B3:42:GLY:C	46:B3:57:PHE:CD1	2.92	0.47
54:B8:34:TRP:O	54:B8:35:GLN:OE1	2.32	0.47
1:CA:545:C:H2'	1:CA:546:G:H5'	1.96	0.47
1:CA:853:G:O2'	1:CA:854:G:H5'	2.15	0.47
1:CA:1127:G:OP2	1:CA:1127:G:C8	2.67	0.47
1:CA:1297:C:H4'	1:CA:1298:C:O5'	2.15	0.47
1:CA:1371:G:OP1	9:CL:11:LYS:HG2	2.14	0.47
1:CA:1497:G:C2'	1:CA:1498:U:C5'	2.91	0.47
2:CE:37:ASN:O	2:CE:39:ILE:HG13	2.15	0.47
4:CG:75:PHE:CE1	4:CG:93:PHE:HZ	2.33	0.47
5:CH:80:ILE:O	5:CH:80:ILE:HG13	2.15	0.47
7:CJ:85:TYR:CE1	7:CJ:154:TYR:CE1	3.03	0.47
11:CN:26:ASN:O	11:CN:27:ASN:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CP:88:ARG:O	13:CP:88:ARG:HG3	2.13	0.47
14:CQ:41:ARG:HG3	14:CQ:42:ILE:N	2.29	0.47
16:CS:25:ARG:HH11	16:CS:25:ARG:HG3	1.80	0.47
22:CB:21:A:H4'	22:CB:22:G:OP1	2.15	0.47
25:DA:244:A:H2'	25:DA:245:G:O4'	2.15	0.47
25:DA:323:G:H5'	29:DF:169:ASN:HD21	1.79	0.47
25:DA:872:A:C4	25:DA:906:G:C2	3.02	0.47
25:DA:996:A:N3	25:DA:997:G:C8	2.83	0.47
25:DA:1342:A:N1	25:DA:1397:U:C2	2.83	0.47
25:DA:2059:A:H2	25:DA:2062:A:N6	2.13	0.47
25:DA:2794:C:H2'	25:DA:2795:G:O4'	2.15	0.47
25:DA:2836:U:H2'	25:DA:2837:G:C8	2.50	0.47
27:DD:70:TRP:O	27:DD:73:VAL:CG2	2.63	0.47
34:DN:31:LYS:HB3	34:DN:32:TYR:CD1	2.50	0.47
39:DR:24:PRO:HA	39:DR:49:VAL:HG13	1.97	0.47
41:D2:68:LYS:HA	41:D2:68:LYS:HD3	1.69	0.47
42:DS:18:ARG:HG3	42:DS:76:VAL:HG13	1.97	0.47
50:D4:58:ARG:C	50:D4:61:ARG:H	2.23	0.47
1:AA:939:G:H2'	1:AA:940:C:H6	1.79	0.47
1:AA:1028(A):C:H2'	1:AA:1028(B):C:H6	1.79	0.47
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.15	0.47
3:AF:23:TYR:CD2	3:AF:23:TYR:C	2.93	0.47
5:AH:39:GLY:HA2	5:AH:113:ALA:O	2.15	0.47
8:AK:94:TYR:HE1	8:AK:132:GLU:HB2	1.79	0.47
9:AL:79:LEU:HD22	9:AL:83:ARG:CG	2.45	0.47
12:AO:89:ARG:HH11	12:AO:89:ARG:HG3	1.80	0.47
20:AW:71:THR:O	20:AW:72:LEU:C	2.58	0.47
23:AC:1:C:P	23:AC:1:C:O4'	2.73	0.47
23:AD:37:U:O4	23:AD:38:A:N6	2.48	0.47
25:BA:10:G:C2	25:BA:2629:A:C2	3.03	0.47
25:BA:994:C:H5"	25:BA:995:C:P	2.55	0.47
25:BA:1056:G:O4'	25:BA:1086:A:C8	2.65	0.47
25:BA:1079:C:N4	25:BA:1080:A:N6	2.63	0.47
25:BA:2243:U:H2'	25:BA:2244:U:C6	2.50	0.47
25:BA:2415:G:O3'	35:BO:66:GLY:CA	2.59	0.47
27:BD:35:LYS:HA	27:BD:64:ILE:CG2	2.41	0.47
27:BD:35:LYS:CE	27:BD:65:ILE:HG22	2.45	0.47
28:BE:111:ARG:CD	28:BE:160:TYR:CE1	2.93	0.47
28:BE:115:GLY:O	28:BE:119:ARG:HB2	2.15	0.47
32:BK:21:VAL:HG22	32:BK:22:LYS:N	2.30	0.47
35:BO:50:ARG:HH21	35:BO:50:ARG:HB2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:100:LEU:HD23	35:BO:112:LEU:HD11	1.96	0.47
38:BQ:48:LEU:HD22	38:BQ:82:ILE:HD11	1.96	0.47
38:BQ:106:ARG:CB	38:BQ:110:LEU:HD21	2.44	0.47
39:BR:23:ARG:HG3	39:BR:120:ARG:NH1	2.30	0.47
45:BV:10:ARG:HD3	45:BV:18:LEU:CD2	2.44	0.47
45:BV:142:SER:HB3	45:BV:143:GLY:CA	2.45	0.47
45:BV:152:ALA:CB	45:BV:167:PRO:O	2.60	0.47
50:B4:53:GLU:O	50:B4:54:GLY:C	2.57	0.47
53:B7:9:ARG:HH21	53:B7:48:LYS:HG3	1.79	0.47
1:CA:545:C:C2'	1:CA:546:G:H5'	2.45	0.47
1:CA:589:C:H42	1:CA:650:G:H1	1.62	0.47
1:CA:634:C:H3'	1:CA:634:C:H6	1.79	0.47
1:CA:784:C:H4'	25:DA:1837:C:OP1	2.15	0.47
1:CA:1157:A:N6	1:CA:1178:G:N2	2.63	0.47
1:CA:1176:A:N6	1:CA:1177:G:N1	2.63	0.47
1:CA:1187:G:P	9:CL:113:LYS:NZ	2.87	0.47
1:CA:1194:U:H4'	5:CH:22:GLY:O	2.15	0.47
1:CA:1243:C:OP1	21:CX:8:THR:HG21	2.15	0.47
1:CA:1286:A:H2	21:CX:18:TYR:HH	1.56	0.47
1:CA:1325:C:C4'	21:CX:17:THR:HG21	2.43	0.47
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.49	0.47
8:CK:69:ARG:HD3	8:CK:75:ARG:O	2.15	0.47
13:CP:15:VAL:O	13:CP:19:LEU:HD23	2.15	0.47
13:CP:110:ARG:HH11	13:CP:110:ARG:HG2	1.80	0.47
20:CW:49:ALA:HA	20:CW:52:ALA:CB	2.43	0.47
22:CB:67:C:H2'	22:CB:67:C:O2	2.13	0.47
23:CC:51:U:H2'	23:CC:52:C:H6	1.80	0.47
23:CD:48:U:H2'	23:CD:49:C:OP1	2.15	0.47
25:DA:85:G:P	44:DU:30:VAL:HB	2.55	0.47
25:DA:310:A:P	44:DU:18:GLY:HA2	2.54	0.47
25:DA:581:C:C2	25:DA:582:G:C8	3.02	0.47
25:DA:857:C:H2'	25:DA:858:U:H6	1.80	0.47
25:DA:881:G:C6	25:DA:895:U:O2	2.68	0.47
25:DA:990:A:H5'	25:DA:990:A:C8	2.34	0.47
25:DA:996:A:H4'	40:D1:92:ARG:CZ	2.45	0.47
25:DA:1174:A:C6	25:DA:1175:U:O2'	2.68	0.47
25:DA:1535:U:H5'	25:DA:1536:A:OP2	2.15	0.47
26:DB:11:C:OP2	26:DB:12:C:H5	1.98	0.47
30:DG:36:LYS:HG2	30:DG:38:VAL:HG23	1.96	0.47
30:DG:37:VAL:HG23	30:DG:99:MET:HE3	1.96	0.47
32:DK:5:LEU:H	32:DK:5:LEU:HD12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DM:10:GLU:HG3	33:DM:11:PRO:HD2	1.97	0.47
36:DP:87:LYS:HG3	36:DP:88:GLY:N	2.27	0.47
38:DQ:88:ASP:O	38:DQ:89:ARG:CB	2.48	0.47
45:DV:146:ILE:HG23	45:DV:147:GLY:N	2.29	0.47
46:D3:48:GLY:HA3	46:D3:80:HIS:ND1	2.30	0.47
52:D6:51:GLU:HG2	52:D6:52:VAL:N	2.29	0.47
1:AA:129(A):G:H5'	1:AA:191(A):G:H5'	1.97	0.47
1:AA:448:A:C4	1:AA:487:A:C2	3.03	0.47
1:AA:727:G:N1	1:AA:731:G:C6	2.83	0.47
1:AA:813:U:H6	1:AA:813:U:OP2	1.98	0.47
1:AA:918:A:H2'	1:AA:919:A:C8	2.50	0.47
1:AA:959:A:C2	1:AA:1222:G:O4'	2.68	0.47
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.50	0.47
1:AA:1321:C:C3'	1:AA:1322:C:H5"	2.37	0.47
1:AA:1331:G:OP2	13:AP:23:TYR:CD2	2.68	0.47
2:AE:21:ARG:HB2	2:AE:39:ILE:N	2.30	0.47
4:AG:154:ASN:N	4:AG:154:ASN:OD1	2.48	0.47
8:AK:91:ARG:HB2	12:AO:7:ILE:HG21	1.97	0.47
23:AD:50:G:N2	23:AD:66:C:O2	2.47	0.47
23:AD:53:G:C4	23:AD:64:G:N2	2.83	0.47
25:BA:330:A:H2	25:BA:1210:A:C2'	2.28	0.47
25:BA:484:C:H2'	25:BA:485:C:C6	2.50	0.47
25:BA:557:U:H2'	25:BA:558:G:H8	1.80	0.47
25:BA:646:A:C2'	25:BA:647:G:O5'	2.63	0.47
25:BA:1206:G:C6	25:BA:1207:C:C4	3.03	0.47
25:BA:2027:G:C5	25:BA:2028:U:C5	3.02	0.47
25:BA:2308:G:H3'	25:BA:2310:A:OP2	2.15	0.47
25:BA:2355:C:O2	46:B3:39:ARG:NH2	2.47	0.47
25:BA:2620:C:OP1	28:BE:152:LYS:O	2.33	0.47
26:BB:7:G:H8	26:BB:7:G:H5"	1.79	0.47
27:BD:65:ILE:HG13	27:BD:67:PHE:CE1	2.50	0.47
27:BD:70:TRP:O	27:BD:73:VAL:HG23	2.15	0.47
38:BQ:41:ASP:OD2	38:BQ:44:LYS:HD2	2.15	0.47
40:B1:69:CYS:SG	40:B1:79:PHE:CD1	3.02	0.47
41:B2:32:THR:CG2	41:B2:58:VAL:HG13	2.45	0.47
41:B2:91:TYR:CD1	41:B2:91:TYR:C	2.93	0.47
43:BT:24:GLY:HA3	43:BT:82:GLN:HE22	1.80	0.47
1:CA:689:C:H2'	1:CA:690:G:C5'	2.45	0.47
1:CA:692:U:O2	1:CA:695:A:C8	2.67	0.47
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.50	0.47
2:CE:97:TRP:CE3	2:CE:98:LEU:O	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:166:ASP:OD2	2:CE:169:LYS:HB2	2.15	0.47
3:CF:50:ALA:O	3:CF:70:VAL:HG13	2.15	0.47
3:CF:119:ARG:HA	3:CF:122:GLU:OE2	2.15	0.47
5:CH:79:GLU:OE1	8:CK:104:ARG:HA	2.15	0.47
10:CM:4:ILE:HD13	10:CM:100:THR:HG22	1.97	0.47
13:CP:53:VAL:HG12	13:CP:57:ARG:HH21	1.80	0.47
14:CQ:15:LYS:HB3	14:CQ:15:LYS:HZ3	1.80	0.47
16:CS:8:ARG:CG	16:CS:8:ARG:NH1	2.58	0.47
18:CU:44:LEU:HD21	18:CU:79:LEU:HD13	1.97	0.47
22:CB:44:G:C6	22:CB:45:U:C2	3.02	0.47
25:DA:528:A:C2	25:DA:2042:A:H2'	2.50	0.47
25:DA:993:G:H1'	41:D2:87:HIS:CE1	2.49	0.47
25:DA:1034:G:H2'	25:DA:1035:U:O4'	2.15	0.47
25:DA:1042:G:H2'	25:DA:1043:C:O4'	2.15	0.47
25:DA:2076:U:H6	25:DA:2076:U:O5'	1.97	0.47
25:DA:2131:G:H22	25:DA:2158:A:H2'	1.80	0.47
25:DA:2289:G:H1'	25:DA:2346:A:H2	1.80	0.47
25:DA:2314:C:H5'	30:DG:38:VAL:HG11	1.96	0.47
25:DA:2895:U:H2'	25:DA:2896:C:O4'	2.15	0.47
28:DE:48:GLN:O	28:DE:49:LEU:HD12	2.15	0.47
29:DF:125:LEU:HD12	29:DF:196:LEU:CD2	2.45	0.47
30:DG:72:ARG:HD2	30:DG:85:GLY:O	2.15	0.47
31:DH:25:LYS:HG3	31:DH:25:LYS:O	2.15	0.47
33:DM:111:PRO:HA	33:DM:114:ARG:NH1	2.30	0.47
35:DO:68:GLN:HG2	54:D8:12:LYS:HD3	1.97	0.47
35:DO:101:VAL:HG21	35:DO:108:LYS:H	1.80	0.47
40:D1:76:TYR:CD2	40:D1:76:TYR:C	2.93	0.47
44:DU:57:GLN:HB3	44:DU:58:GLY:H	1.58	0.47
44:DU:94:LYS:O	44:DU:101:LYS:HB2	2.14	0.47
49:DX:5:LYS:HE3	49:DX:59:VAL:HG21	1.97	0.47
1:AA:160:A:C6	1:AA:161:A:C2	3.03	0.46
1:AA:618:C:H3'	1:AA:619:U:C5'	2.45	0.46
1:AA:720:C:N4	1:AA:721:G:C2	2.82	0.46
1:AA:875:C:C4	1:AA:876:G:N7	2.83	0.46
1:AA:928:G:C2	1:AA:1390:U:O2	2.68	0.46
1:AA:954:G:C2	1:AA:955:U:C2	3.03	0.46
1:AA:1058:G:C6	1:AA:1059:C:N3	2.83	0.46
4:AG:23:GLY:HA2	4:AG:112:VAL:HG22	1.97	0.46
4:AG:65:ARG:HH11	4:AG:65:ARG:HG2	1.80	0.46
8:AK:8:ASP:O	8:AK:12:ARG:HG3	2.15	0.46
18:AU:26:LEU:HD13	18:AU:39:VAL:HG13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AB:2:C:H2'	22:AB:3:C:C6	2.50	0.46
25:BA:498:G:C6	25:BA:499:U:C4	3.03	0.46
25:BA:671:C:O2'	25:BA:672:C:H5'	2.15	0.46
25:BA:705:A:H2'	25:BA:706:A:O4'	2.15	0.46
25:BA:991:C:H2'	25:BA:992:C:H6	1.81	0.46
25:BA:1299:G:C5	25:BA:1639:U:C5	3.03	0.46
25:BA:2383:G:C2'	25:BA:2384:G:H5'	2.45	0.46
27:BD:26:LYS:O	27:BD:27:THR:OG1	2.25	0.46
27:BD:35:LYS:HG2	27:BD:64:ILE:CG2	2.43	0.46
28:BE:35:GLN:C	28:BE:36:ARG:HG2	2.41	0.46
28:BE:80:GLU:C	28:BE:82:ARG:H	2.23	0.46
28:BE:179:GLU:O	28:BE:180:ASN:HB2	2.14	0.46
29:BF:33:LEU:HD12	29:BF:33:LEU:HA	1.76	0.46
30:BG:94:LEU:HD23	30:BG:94:LEU:N	2.29	0.46
31:BH:115:VAL:O	31:BH:115:VAL:CG1	2.59	0.46
32:BK:110:ASP:HB3	32:BK:112:LYS:N	2.30	0.46
33:BM:18:ALA:HA	33:BM:21:LYS:HG3	1.97	0.46
35:BO:55:ARG:O	35:BO:55:ARG:HG3	2.14	0.46
39:BR:53:ARG:O	39:BR:59:THR:OG1	2.32	0.46
40:B1:60:LEU:HD13	40:B1:64:ARG:HD2	1.97	0.46
44:BU:63:LYS:HD2	44:BU:64:GLU:H	1.80	0.46
45:BV:27:VAL:HG22	45:BV:28:MET:N	2.30	0.46
46:B3:27:GLU:CG	46:B3:68:GLU:HA	2.41	0.46
48:BW:24:LEU:HD13	48:BW:60:LEU:CD1	2.46	0.46
54:B8:52:LYS:H	54:B8:53:PRO:CD	2.28	0.46
1:CA:253:U:H2'	1:CA:254:G:C8	2.49	0.46
1:CA:358:U:C4	1:CA:359:U:C5	3.03	0.46
1:CA:468:A:C2'	1:CA:474:G:H5'	2.44	0.46
1:CA:547:A:H4'	1:CA:548:G:O5'	2.15	0.46
1:CA:686:U:O4	1:CA:703:G:H1'	2.15	0.46
1:CA:1158:C:C4	1:CA:1160:G:N7	2.82	0.46
1:CA:1207:G:C5	1:CA:1208:C:C5	3.03	0.46
3:CF:63:ASN:CB	3:CF:98:ASN:HB3	2.42	0.46
5:CH:110:LEU:HD23	5:CH:110:LEU:HA	1.74	0.46
7:CJ:76:ARG:HG2	7:CJ:76:ARG:NH1	2.27	0.46
8:CK:4:ASP:OD2	8:CK:7:ALA:HB2	2.15	0.46
11:CN:115:PRO:C	11:CN:117:ASN:H	2.22	0.46
18:CU:43:PHE:O	18:CU:51:LEU:HD12	2.15	0.46
19:CV:74:PHE:N	19:CV:74:PHE:CD2	2.83	0.46
25:DA:296:C:C2'	25:DA:297:C:H5'	2.45	0.46
25:DA:889:C:H2'	25:DA:890:A:H4'	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1473:G:H2'	25:DA:1474:C:O4'	2.16	0.46
25:DA:2187:G:C6	25:DA:2188:C:N3	2.83	0.46
25:DA:2335:A:C8	25:DA:2337:G:N7	2.83	0.46
25:DA:2552:U:H2'	25:DA:2554:U:H5"	1.97	0.46
25:DA:2773:C:H5"	28:DE:164:ARG:HG2	1.97	0.46
27:DD:176:ARG:HA	27:DD:181:GLU:O	2.15	0.46
30:DG:109:VAL:HG13	50:D4:33:VAL:HG11	1.96	0.46
31:DH:71:LEU:HD12	31:DH:71:LEU:HA	1.81	0.46
33:DM:67:LEU:O	33:DM:88:GLU:HG3	2.14	0.46
35:DO:55:ARG:O	35:DO:55:ARG:HG3	2.13	0.46
35:DO:107:LYS:O	35:DO:109:GLY:N	2.46	0.46
38:DQ:29:PHE:CD2	38:DQ:30:ARG:N	2.83	0.46
38:DQ:67:ARG:HB2	38:DQ:67:ARG:NH1	2.30	0.46
43:DT:54:VAL:O	43:DT:55:ASN:ND2	2.36	0.46
48:DW:10:LEU:O	48:DW:14:ARG:N	2.36	0.46
50:D4:56:VAL:CA	50:D4:60:GLN:HE21	2.24	0.46
51:D5:57:VAL:HG12	51:D5:58:LEU:O	2.14	0.46
54:D8:30:ARG:HD2	54:D8:30:ARG:HA	1.57	0.46
1:AA:299:G:H2'	1:AA:300:A:C8	2.50	0.46
1:AA:342:C:N3	1:AA:348:G:C2	2.83	0.46
4:AG:25:ARG:O	4:AG:28:SER:N	2.43	0.46
4:AG:138:TYR:HD2	4:AG:139:ARG:H	1.61	0.46
8:AK:42:GLU:HG3	8:AK:109:ILE:HD12	1.97	0.46
9:AL:17:VAL:CG1	9:AL:81:ILE:HD13	2.44	0.46
12:AO:89:ARG:HG3	12:AO:89:ARG:NH1	2.30	0.46
13:AP:10:PRO:HB2	13:AP:18:ALA:HB1	1.97	0.46
16:AS:22:THR:OG1	16:AS:31:LYS:O	2.33	0.46
17:AT:100:LYS:O	17:AT:101:ARG:HB2	2.14	0.46
19:AV:40:ILE:HG12	19:AV:41:VAL:CG1	2.42	0.46
20:AW:21:LYS:O	20:AW:25:ARG:HB2	2.16	0.46
25:BA:574:C:N3	28:BE:145:LYS:NZ	2.45	0.46
25:BA:612:G:N2	25:BA:616:A:O2'	2.48	0.46
25:BA:654(R):C:C2'	25:BA:654(S):G:H5'	2.46	0.46
25:BA:819:A:C4	25:BA:1189:A:C2	3.03	0.46
25:BA:1065:U:C5	25:BA:1066:U:C6	3.00	0.46
25:BA:1140:C:OP1	33:BM:23:LEU:HB3	2.15	0.46
25:BA:1162:G:O4'	41:B2:23:GLU:HG3	2.15	0.46
25:BA:1188:U:C5'	41:B2:79:VAL:HG22	2.45	0.46
25:BA:1324:G:C4	25:BA:1328:G:O6	2.69	0.46
25:BA:1344:G:H4'	25:BA:1384:A:C5	2.49	0.46
25:BA:2171:A:H2'	25:BA:2172:U:C6	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2330:G:H2'	25:BA:2331:G:O4'	2.15	0.46
25:BA:2439:A:H3'	25:BA:2439:A:P	2.55	0.46
25:BA:2850:A:C2	25:BA:2851:A:C4	3.04	0.46
26:BB:28:C:O2'	26:BB:29:A:H5'	2.14	0.46
28:BE:4:ILE:C	28:BE:5:LEU:HD23	2.40	0.46
32:BK:78:THR:HG23	32:BK:141:LYS:HZ3	1.79	0.46
39:BR:94:ALA:O	39:BR:95:ARG:CB	2.63	0.46
40:B1:76:TYR:CZ	40:B1:80:ILE:HG13	2.51	0.46
42:BS:14:PRO:CB	42:BS:18:ARG:HH21	2.27	0.46
45:BV:10:ARG:HD3	45:BV:18:LEU:HD22	1.97	0.46
45:BV:117:LEU:HD13	45:BV:118:GLN:H	1.80	0.46
54:B8:36:LYS:HB2	54:B8:40:GLU:CB	2.45	0.46
1:CA:77:C:N4	1:CA:92:G:H1	2.12	0.46
1:CA:152:A:N6	1:CA:170:U:C2	2.84	0.46
1:CA:544:G:C6	1:CA:545:C:C4	3.03	0.46
1:CA:1239:A:H4'	1:CA:1240:U:C5'	2.45	0.46
1:CA:1289:A:P	21:CX:9:ARG:HH22	2.38	0.46
2:CE:144:ARG:CD	2:CE:148:TYR:HE2	2.27	0.46
4:CG:31:CYS:HB3	4:CG:33:MET:HB2	1.97	0.46
7:CJ:16:LEU:CD1	9:CL:45:ALA:HB2	2.37	0.46
10:CM:99:LYS:CE	10:CM:100:THR:H	2.27	0.46
11:CN:59:TYR:CZ	11:CN:63:LEU:HD21	2.50	0.46
14:CQ:7:ILE:HG22	14:CQ:23:ARG:CD	2.46	0.46
14:CQ:29:ARG:HE	14:CQ:40:CYS:HB2	1.80	0.46
20:CW:26:ASN:HB3	20:CW:71:THR:OG1	2.15	0.46
21:CX:6:ARG:CD	21:CX:15:ARG:HH21	2.29	0.46
24:C1:15:U:H2'	24:C1:16:A:C8	2.51	0.46
25:DA:675:A:N6	25:DA:676:A:N6	2.64	0.46
25:DA:830:G:H4'	25:DA:831:G:OP2	2.15	0.46
25:DA:883:G:C6	25:DA:884:C:N4	2.83	0.46
25:DA:1007:C:OP1	33:DM:37:LYS:NZ	2.45	0.46
25:DA:1056:G:H5"	25:DA:1057:A:C5'	2.43	0.46
25:DA:1163:G:H2'	25:DA:1164:G:H8	1.81	0.46
25:DA:1578:U:H2'	25:DA:1578:U:O2	2.15	0.46
25:DA:1638:C:H5"	25:DA:2710:C:O2'	2.16	0.46
25:DA:1688:U:H1'	25:DA:1701:A:C6	2.49	0.46
25:DA:2846:G:H2'	25:DA:2847:U:C6	2.50	0.46
26:DB:24:G:H4'	26:DB:25:A:C8	2.50	0.46
26:DB:45:A:H1'	30:DG:95:ARG:CZ	2.44	0.46
27:DD:145:VAL:HG11	27:DD:175:LEU:HD11	1.98	0.46
28:DE:120:TRP:CD2	28:DE:155:LYS:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:3:GLU:HG3	29:DF:20:LEU:C	2.40	0.46
29:DF:136:THR:HG23	29:DF:166:ALA:O	2.15	0.46
30:DG:139:LEU:C	30:DG:139:LEU:HD12	2.41	0.46
32:DK:100:ALA:O	32:DK:104:GLN:HB3	2.14	0.46
35:DO:106:LEU:HD13	35:DO:112:LEU:HD23	1.97	0.46
37:D0:84:ALA:N	37:D0:85:PRO:CD	2.78	0.46
43:DT:26:TYR:OH	43:DT:88:LYS:HB2	2.15	0.46
45:DV:13:GLU:HA	45:DV:14:LYS:HZ3	1.80	0.46
1:AA:475:G:H2'	1:AA:476:G:H8	1.80	0.46
1:AA:872:A:H2'	1:AA:872:A:N3	2.30	0.46
1:AA:1003:G:N2	1:AA:1004:A:O2'	2.48	0.46
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.14	0.46
1:AA:1291:G:O2'	1:AA:1292:U:H5'	2.15	0.46
1:AA:1317:C:H5"	1:AA:1318:A:OP2	2.16	0.46
3:AF:150:LYS:HE3	3:AF:152:ILE:HD11	1.98	0.46
4:AG:58:LEU:HD22	4:AG:58:LEU:O	2.15	0.46
4:AG:114:ARG:HG3	4:AG:114:ARG:NH1	2.31	0.46
8:AK:53:VAL:HB	8:AK:58:TYR:CE1	2.50	0.46
9:AL:22:GLY:HA3	9:AL:60:ASP:OD2	2.15	0.46
12:AO:47:LYS:CA	12:AO:49:ASN:H	2.28	0.46
16:AS:20:VAL:CG2	16:AS:32:TYR:CB	2.93	0.46
25:BA:27:G:N2	25:BA:512:G:H1'	2.29	0.46
25:BA:851:U:H5'	49:BX:46:ASN:ND2	2.31	0.46
25:BA:1429:G:H2'	25:BA:1430:C:C6	2.50	0.46
25:BA:1478:G:O2'	25:BA:1558:A:C2	2.68	0.46
25:BA:1480:G:C6	25:BA:1482:U:N3	2.83	0.46
25:BA:1847:A:H4'	25:BA:1848:A:OP2	2.16	0.46
27:BD:77:ALA:HB1	27:BD:96:HIS:O	2.15	0.46
28:BE:59:VAL:CG1	28:BE:63:LEU:CB	2.94	0.46
30:BG:39:ILE:HG13	30:BG:94:LEU:HD21	1.96	0.46
31:BH:41:MET:HE2	31:BH:41:MET:HB2	1.60	0.46
32:BK:29:TYR:CD2	32:BK:30:LEU:HD23	2.50	0.46
32:BK:135:GLU:H	32:BK:135:GLU:CD	2.22	0.46
42:BS:18:ARG:CG	42:BS:76:VAL:HG13	2.45	0.46
44:BU:42:VAL:HB	44:BU:67:LEU:HD11	1.96	0.46
44:BU:76:CYS:CB	44:BU:77:PRO:HD3	2.45	0.46
45:BV:122:ARG:HE	45:BV:122:ARG:HB2	1.60	0.46
49:BX:59:VAL:HG22	49:BX:60:GLU:H	1.80	0.46
50:B4:12:ALA:HB2	50:B4:29:PRO:HA	1.97	0.46
1:CA:275:G:H5'	17:CT:14:LYS:HB3	1.97	0.46
1:CA:410:G:OP2	4:CG:25:ARG:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:641:U:O3'	1:CA:642:A:H8	1.98	0.46
1:CA:683:G:H2'	1:CA:684:A:O4'	2.15	0.46
1:CA:763:G:H2'	1:CA:764:C:C6	2.51	0.46
1:CA:833:U:H2'	1:CA:834:C:H6	1.80	0.46
1:CA:1060:C:O2'	1:CA:1061:G:H5'	2.15	0.46
1:CA:1072:G:H2'	1:CA:1073:U:O4'	2.15	0.46
2:CE:24:TRP:CD1	2:CE:24:TRP:O	2.69	0.46
2:CE:32:ILE:O	2:CE:32:ILE:HG13	2.06	0.46
13:CP:29:ARG:HB3	13:CP:64:TRP:CZ2	2.50	0.46
14:CQ:37:PHE:CZ	14:CQ:56:VAL:HG21	2.48	0.46
22:CB:37:G:C4	22:CB:38:G:C8	3.03	0.46
23:CC:68:C:H2'	23:CC:69:C:C6	2.50	0.46
25:DA:148:C:C5'	25:DA:148:C:C6	2.91	0.46
25:DA:529:A:N3	25:DA:529:A:C2'	2.79	0.46
25:DA:592:G:O2'	54:D8:4:MET:HB2	2.16	0.46
25:DA:1146:C:O2'	25:DA:1147:C:H5'	2.15	0.46
25:DA:1479:G:N2	25:DA:1480:G:H1'	2.30	0.46
25:DA:1668:A:C8	25:DA:1674:G:C6	3.03	0.46
25:DA:2167:U:P	25:DA:2167:U:H6	2.38	0.46
25:DA:2212:A:H1'	25:DA:2215:G:C4	2.50	0.46
25:DA:2312:U:O2'	25:DA:2313:C:H5'	2.16	0.46
25:DA:2507:C:H2'	25:DA:2508:G:O4'	2.15	0.46
25:DA:2611:U:H5'	25:DA:2611:U:C6	2.44	0.46
26:DB:43:C:H4'	30:DG:66:GLN:NE2	2.30	0.46
27:DD:30:GLU:HG3	27:DD:63:ARG:CZ	2.45	0.46
27:DD:34:VAL:C	27:DD:35:LYS:O	2.56	0.46
29:DF:122:LYS:HG3	29:DF:191:ARG:HG2	1.97	0.46
30:DG:86:MET:O	30:DG:88:ILE:HG22	2.14	0.46
31:DH:109:PHE:CZ	31:DH:152:ARG:HD3	2.50	0.46
31:DH:169:VAL:O	31:DH:170:ARG:HG2	2.16	0.46
35:DO:144:GLU:O	35:DO:144:GLU:CD	2.59	0.46
36:DP:26:TYR:C	36:DP:26:TYR:CD2	2.91	0.46
41:D2:21:ARG:HG3	41:D2:21:ARG:HH11	1.80	0.46
45:DV:130:PRO:HA	45:DV:133:ILE:HD11	1.96	0.46
1:AA:328:C:O2	1:AA:328:C:H2'	2.15	0.46
1:AA:397:A:C6	1:AA:548:G:N7	2.83	0.46
1:AA:929:G:N2	1:AA:1389:C:C2	2.84	0.46
1:AA:1169:A:N6	1:AA:1170:A:N1	2.63	0.46
1:AA:1305:G:H8	1:AA:1305:G:OP2	1.98	0.46
3:AF:69:HIS:CD2	3:AF:69:HIS:N	2.83	0.46
11:AN:17:GLY:O	11:AN:80:VAL:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AO:24:VAL:HG11	12:AO:27:LEU:CD1	2.45	0.46
13:AP:44:ARG:HD3	13:AP:44:ARG:N	2.31	0.46
22:AB:42:U:H3'	22:AB:43:A:C8	2.50	0.46
25:BA:224:G:C6	25:BA:225:A:C5	3.02	0.46
25:BA:507:A:H5"	25:BA:508:G:H5'	1.98	0.46
25:BA:633:A:H2'	25:BA:634:C:H5'	1.98	0.46
25:BA:654(L):G:H2'	25:BA:654(M):C:O4'	2.15	0.46
25:BA:676:A:N1	25:BA:802:A:N1	2.63	0.46
25:BA:850:C:H5"	49:BX:18:ASP:HB2	1.96	0.46
25:BA:900:A:N3	25:BA:900:A:H2'	2.30	0.46
25:BA:953:A:O2'	25:BA:2266:A:OP2	2.26	0.46
25:BA:1071:G:O6	25:BA:1091:G:O6	2.34	0.46
25:BA:1406:U:H2'	25:BA:1407:C:C6	2.50	0.46
25:BA:1655:A:H3'	25:BA:1656:C:C6	2.50	0.46
25:BA:2695:C:H2'	25:BA:2696:U:C6	2.51	0.46
25:BA:2860:A:N7	25:BA:2861:G:H1'	2.30	0.46
26:BB:31:C:C2'	26:BB:32:C:H5'	2.45	0.46
27:BD:183:ARG:HG2	27:BD:269:PHE:O	2.16	0.46
28:BE:181:LEU:HD11	39:BR:7:ILE:HD13	1.97	0.46
32:BK:77:LEU:HD12	32:BK:140:LEU:HB2	1.97	0.46
34:BN:35:VAL:CG2	34:BN:69:ILE:HG12	2.45	0.46
35:BO:34:GLY:O	35:BO:35:HIS:HB2	2.14	0.46
40:B1:13:LYS:H	40:B1:13:LYS:HG2	1.61	0.46
40:B1:13:LYS:HB3	40:B1:13:LYS:HE3	1.72	0.46
42:BS:24:ILE:HG21	42:BS:36:LEU:HD21	1.96	0.46
42:BS:79:GLY:C	42:BS:100:THR:HG22	2.40	0.46
45:BV:109:ALA:HB1	45:BV:144:LEU:HB2	1.96	0.46
45:BV:132:ASN:ND2	45:BV:132:ASN:N	2.62	0.46
50:B4:6:HIS:HD1	50:B4:7:PRO:HD2	1.81	0.46
1:CA:437:U:C5'	4:CG:155:LEU:HD21	2.46	0.46
1:CA:1053:G:C5	1:CA:1199:U:C6	3.02	0.46
1:CA:1124:G:O2'	1:CA:1145:C:C4	2.62	0.46
1:CA:1147:C:O2	9:CL:16:ARG:NE	2.49	0.46
1:CA:1363:A:H1'	1:CA:1365:G:N7	2.31	0.46
2:CE:165:VAL:HG23	2:CE:166:ASP:H	1.80	0.46
4:CG:30:LYS:HE2	4:CG:30:LYS:H	1.80	0.46
4:CG:50:ARG:NH1	5:CH:10:MET:HE3	2.29	0.46
8:CK:29:SER:HB3	8:CK:32:LYS:CG	2.45	0.46
20:CW:54:LYS:HA	20:CW:57:ARG:NH2	2.31	0.46
21:CX:3:LYS:O	21:CX:14:TRP:CE3	2.69	0.46
22:CB:17:U:C5'	22:CB:18:G:C8	2.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:218:A:C2	25:DA:235:U:H4'	2.50	0.46
25:DA:492:A:C2'	25:DA:493:G:H5'	2.45	0.46
25:DA:547:A:C5	25:DA:548:A:N6	2.83	0.46
25:DA:553:U:C4	25:DA:554:U:C4	3.04	0.46
25:DA:829:A:N7	25:DA:2248:C:H5'	2.31	0.46
25:DA:847:U:O4	25:DA:933:A:N1	2.49	0.46
25:DA:1138:G:H21	33:DM:106:MET:CE	2.19	0.46
25:DA:1486:A:C4	25:DA:1487:G:C8	3.04	0.46
25:DA:2116:G:P	25:DA:2165:G:H22	2.38	0.46
25:DA:2180:U:H2'	25:DA:2181:G:O4'	2.15	0.46
25:DA:2287:A:N1	25:DA:2346:A:H2	2.10	0.46
25:DA:2303:G:C2	25:DA:2314:C:N3	2.84	0.46
25:DA:2567:G:H2'	25:DA:2568:C:C6	2.49	0.46
25:DA:2729:G:H1'	28:DE:187:ALA:HB3	1.98	0.46
27:DD:17:THR:O	27:DD:211:ARG:NH2	2.49	0.46
27:DD:32:SER:HA	27:DD:36:PRO:HD2	1.98	0.46
28:DE:182:LEU:C	28:DE:183:LEU:HD12	2.40	0.46
29:DF:67:GLN:O	29:DF:68:LYS:HB2	2.14	0.46
30:DG:102:PHE:CE2	30:DG:141:PHE:CE1	3.00	0.46
45:DV:131:ARG:HD2	45:DV:131:ARG:N	2.30	0.46
50:D4:36:CYS:HB3	50:D4:41:PRO:CD	2.45	0.46
1:AA:267:C:OP1	17:AT:67:LYS:HB2	2.15	0.46
1:AA:408:A:H2'	1:AA:409:G:O4'	2.16	0.46
1:AA:486:U:H2'	1:AA:487:A:H8	1.78	0.46
1:AA:942:G:N3	1:AA:943:U:C6	2.84	0.46
1:AA:949:A:C4	1:AA:1233:G:N2	2.84	0.46
1:AA:1389:C:H2'	1:AA:1390:U:O4'	2.15	0.46
3:AF:114:PRO:O	3:AF:118:GLN:HG3	2.16	0.46
4:AG:28:SER:HB3	4:AG:29:PRO:CD	2.45	0.46
4:AG:209:ARG:NE	4:AG:209:ARG:HA	2.31	0.46
6:AI:21:LEU:HD13	6:AI:21:LEU:HA	1.78	0.46
9:AL:111:ARG:HH22	10:AM:62:HIS:CE1	2.32	0.46
10:AM:55:LYS:O	10:AM:56:HIS:CD2	2.68	0.46
10:AM:89:ASP:HB3	10:AM:91:PRO:HD3	1.97	0.46
11:AN:105:VAL:O	11:AN:105:VAL:HG23	2.15	0.46
13:AP:23:TYR:HD1	13:AP:67:GLU:HA	1.80	0.46
14:AQ:21:TYR:CE2	14:AQ:23:ARG:NE	2.80	0.46
15:AR:63:ARG:O	15:AR:67:LEU:HD12	2.16	0.46
17:AT:18:THR:CG2	17:AT:69:LYS:HD2	2.44	0.46
20:AW:30:LYS:NZ	20:AW:80:ARG:NH1	2.64	0.46
25:BA:332:A:C2	25:BA:335:C:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:880:G:C6	25:BA:881:G:N7	2.84	0.46
25:BA:1313:U:H2'	25:BA:1610:A:C2	2.50	0.46
25:BA:1376:C:C2'	25:BA:1377:G:O5'	2.64	0.46
25:BA:1547:C:H2'	25:BA:1548:C:C6	2.51	0.46
25:BA:1797:C:H2'	25:BA:1798:U:H5'	1.96	0.46
25:BA:1803:A:O3'	27:BD:259:THR:HG23	2.15	0.46
25:BA:1935:G:H1'	25:BA:1964:G:N2	2.30	0.46
25:BA:2208:U:H4'	27:BD:151:LYS:HG2	1.96	0.46
25:BA:2321:G:H5"	25:BA:2322:A:OP2	2.15	0.46
25:BA:2461:C:H2'	25:BA:2462:U:C6	2.50	0.46
25:BA:2820:A:C4	37:B0:4:LEU:HD21	2.50	0.46
27:BD:226:MET:O	27:BD:234:GLY:HA2	2.15	0.46
39:BR:90:GLN:HE21	39:BR:116:ALA:HA	1.81	0.46
43:BT:57:LEU:HD12	43:BT:57:LEU:N	2.31	0.46
46:B3:36:ILE:CD1	46:B3:39:ARG:HG2	2.46	0.46
47:BZ:87:PRO:O	47:BZ:90:ILE:N	2.48	0.46
53:B7:36:GLN:O	53:B7:36:GLN:HG2	2.15	0.46
1:CA:192:U:H4'	20:CW:103:GLY:HA3	1.98	0.46
1:CA:265:G:O3'	17:CT:66:SER:HA	2.16	0.46
1:CA:565:U:OP2	1:CA:566:G:O2'	2.32	0.46
1:CA:692:U:O2'	1:CA:694:A:N7	2.39	0.46
1:CA:1047:G:C2'	1:CA:1048:G:H5'	2.45	0.46
3:CF:70:VAL:O	3:CF:106:VAL:HG23	2.14	0.46
4:CG:196:LEU:HB3	4:CG:197:PRO:HD2	1.97	0.46
5:CH:147:ASP:O	5:CH:151:LEU:HG	2.15	0.46
8:CK:4:ASP:HB2	8:CK:89:PRO:HG3	1.97	0.46
13:CP:36:LYS:HB3	13:CP:36:LYS:HE2	1.72	0.46
14:CQ:4:LYS:HA	14:CQ:7:ILE:HG12	1.97	0.46
19:CV:14:HIS:HD2	19:CV:15:LEU:N	2.12	0.46
25:DA:128:C:H2'	25:DA:129:C:H6	1.79	0.46
25:DA:234:C:H2'	25:DA:235:U:C6	2.47	0.46
25:DA:239:U:C2'	25:DA:240:G:H5'	2.45	0.46
25:DA:910:A:N7	36:DP:12:GLN:HB2	2.30	0.46
25:DA:921:G:H4'	25:DA:2269:A:C5	2.51	0.46
25:DA:957:A:N6	25:DA:959:A:C2	2.84	0.46
25:DA:2337:G:H2'	25:DA:2337:G:N3	2.31	0.46
25:DA:2360:A:OP1	54:D8:50:LEU:HA	2.15	0.46
26:DB:65:C:N4	26:DB:108:C:C2	2.84	0.46
28:DE:11:MET:HG3	28:DE:24:THR:HA	1.96	0.46
29:DF:31:HIS:ND1	35:DO:9:ASN:OD1	2.47	0.46
30:DG:108:ASN:HA	50:D4:38:LYS:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DM:4:TYR:O	40:D1:64:ARG:NH1	2.46	0.46
33:DM:17:ASP:O	33:DM:18:ALA:HB3	2.15	0.46
33:DM:17:ASP:O	33:DM:55:VAL:O	2.34	0.46
36:DP:31:ASP:O	36:DP:133:ARG:O	2.33	0.46
43:DT:57:LEU:HD23	43:DT:57:LEU:H	1.77	0.46
46:D3:53:MET:HG3	46:D3:59:LEU:HD23	1.98	0.46
49:DX:59:VAL:CG1	49:DX:60:GLU:H	2.21	0.46
1:AA:925:G:N2	1:AA:1503:A:OP1	2.47	0.46
1:AA:1256:A:C2	1:AA:1277:C:C5	3.03	0.46
7:AJ:77:SER:OG	23:AD:33:C:H4'	2.15	0.46
8:AK:121:ASP:HB2	8:AK:125:ARG:NH2	2.31	0.46
9:AL:4:TYR:CZ	9:AL:88:TYR:HD2	2.33	0.46
9:AL:89:ASN:OD1	9:AL:89:ASN:N	2.47	0.46
9:AL:114:TYR:HD2	9:AL:114:TYR:H	1.62	0.46
13:AP:80:ARG:NH1	19:AV:65:ASN:O	2.49	0.46
23:AD:49:C:H6	23:AD:49:C:P	2.39	0.46
25:BA:46:C:OP2	25:BA:215:G:H2'	2.16	0.46
25:BA:645:C:C2'	25:BA:646:A:OP1	2.64	0.46
25:BA:851:U:H5'	49:BX:46:ASN:HD21	1.81	0.46
25:BA:958:U:OP2	36:BP:14:ARG:NH1	2.48	0.46
25:BA:1077:A:OP1	25:BA:1077:A:H4'	2.14	0.46
25:BA:1169:G:H1	25:BA:1180:C:H42	1.63	0.46
25:BA:1639:U:H4'	25:BA:2699:C:H4'	1.97	0.46
25:BA:1718:G:C2	25:BA:1725:G:C8	3.03	0.46
25:BA:2117:A:H62	25:BA:2172:U:H3	1.60	0.46
25:BA:2675:A:H5'	34:BN:29:ASN:O	2.15	0.46
26:BB:79:C:H2'	26:BB:80:U:O4'	2.16	0.46
28:BE:6:GLY:CA	28:BE:27:LEU:O	2.64	0.46
28:BE:81:ILE:HD13	28:BE:81:ILE:H	1.81	0.46
28:BE:167:VAL:HG22	28:BE:170:LEU:HD12	1.98	0.46
29:BF:127:GLU:OE1	29:BF:128:ALA:N	2.49	0.46
31:BH:152:ARG:HB3	31:BH:153:LYS:HD2	1.98	0.46
33:BM:36:GLY:O	33:BM:42:TRP:HB2	2.15	0.46
38:BQ:41:ASP:OD1	38:BQ:41:ASP:C	2.58	0.46
43:BT:87:GLN:HE21	43:BT:87:GLN:HB2	1.62	0.46
47:BZ:45:ASN:O	47:BZ:47:GLN:HG2	2.16	0.46
47:BZ:72:GLU:O	47:BZ:76:ARG:HD2	2.15	0.46
49:BX:22:ALA:C	49:BX:24:LYS:N	2.73	0.46
1:CA:177:C:H2'	1:CA:178:C:H6	1.80	0.46
1:CA:218:C:O2'	1:CA:219:C:H5'	2.15	0.46
1:CA:624:C:O3'	16:CS:10:GLY:HA2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:625:G:H2'	1:CA:626:U:H6	1.81	0.46
1:CA:1086:U:OP2	1:CA:1086:U:H6	1.99	0.46
1:CA:1305:G:O2'	1:CA:1306:A:O5'	2.33	0.46
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.15	0.46
2:CE:89:GLY:O	2:CE:154:LEU:HD11	2.15	0.46
2:CE:163:PHE:HA	2:CE:185:ILE:O	2.15	0.46
3:CF:157:ILE:CD1	3:CF:166:GLU:HB2	2.45	0.46
4:CG:24:GLU:CD	4:CG:112:VAL:HG21	2.41	0.46
4:CG:105:VAL:HG13	4:CG:110:PHE:HB2	1.98	0.46
9:CL:99:LEU:HB3	9:CL:101:PHE:HE1	1.80	0.46
10:CM:81:THR:C	10:CM:83:GLU:N	2.69	0.46
13:CP:82:MET:HE2	25:DA:887:A:N3	2.31	0.46
13:CP:87:TYR:CD2	13:CP:87:TYR:C	2.93	0.46
17:CT:59:ILE:CG2	17:CT:71:PHE:CD1	2.99	0.46
23:CC:19:G:N2	23:CC:58:A:H2'	2.31	0.46
23:CD:15:G:C2'	23:CD:60:A:C2	2.91	0.46
25:DA:274:G:OP1	25:DA:274:G:O4'	2.34	0.46
25:DA:565:C:H2'	25:DA:566:U:O4'	2.16	0.46
25:DA:977:G:C6	25:DA:987:G:C6	3.04	0.46
25:DA:1022:G:N2	25:DA:1142(A):A:C2	2.74	0.46
25:DA:1084:A:H3'	25:DA:1085:A:C8	2.50	0.46
25:DA:1084:A:H5"	25:DA:1085:A:OP2	2.16	0.46
25:DA:1235:G:C6	25:DA:1236:G:N1	2.83	0.46
25:DA:1509:C:OP2	25:DA:1509:C:H4'	2.15	0.46
25:DA:2798:C:H5	25:DA:2799:A:H62	1.63	0.46
26:DB:73:A:H2'	26:DB:73:A:N3	2.30	0.46
26:DB:73:A:H3'	26:DB:74:U:H6	1.80	0.46
26:DB:91:C:H6	26:DB:91:C:O5'	1.99	0.46
27:DD:35:LYS:CD	27:DD:63:ARG:HB3	2.45	0.46
28:DE:16:ARG:HD2	28:DE:16:ARG:O	2.16	0.46
28:DE:36:ARG:CG	28:DE:36:ARG:NH1	2.77	0.46
33:DM:33:LEU:CD1	33:DM:38:HIS:CD2	2.98	0.46
34:DN:7:TYR:HE1	34:DN:20:MET:HG3	1.80	0.46
35:DO:19:VAL:HG22	35:DO:20:GLY:N	2.23	0.46
39:DR:29:ARG:HH11	39:DR:29:ARG:CG	2.28	0.46
45:DV:108:PRO:HA	45:DV:143:GLY:CA	2.45	0.46
45:DV:150:LEU:CD2	45:DV:154:ASP:HB2	2.46	0.46
52:D6:26:ASN:OD1	52:D6:28:ARG:HB2	2.15	0.46
54:D8:35:GLN:C	54:D8:36:LYS:HG3	2.41	0.46
1:AA:218:C:C2'	1:AA:219:C:H5'	2.46	0.46
1:AA:329:A:C2	1:AA:332:G:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1014:A:H2	1:AA:1219:U:O2	1.98	0.46
1:AA:1033:G:H2'	1:AA:1034:G:H5'	1.97	0.46
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.51	0.46
1:AA:1190:G:C5'	3:AF:176:HIS:CE1	2.99	0.46
1:AA:1368:G:OP1	10:AM:62:HIS:HE1	1.98	0.46
2:AE:130:ARG:HE	2:AE:138:LEU:HD11	1.80	0.46
7:AJ:51:GLN:HA	7:AJ:51:GLN:OE1	2.16	0.46
8:AK:64:LYS:C	8:AK:65:TYR:CD1	2.94	0.46
9:AL:121:ARG:NH1	9:AL:122:ALA:O	2.39	0.46
15:AR:18:PHE:CZ	15:AR:21:ASP:HB2	2.51	0.46
25:BA:86:C:H4'	25:BA:104:U:H1'	1.97	0.46
25:BA:565:C:H2'	25:BA:566:U:O4'	2.16	0.46
25:BA:954:G:N3	25:BA:2274:A:C2	2.84	0.46
25:BA:1060:U:C5	25:BA:1062:G:H4'	2.51	0.46
25:BA:1083:U:H3'	25:BA:1084:A:H5"	1.98	0.46
25:BA:1655:A:H3'	25:BA:1656:C:H6	1.80	0.46
25:BA:1948:G:O2'	25:BA:1949:G:H5'	2.16	0.46
25:BA:2141:G:H2'	25:BA:2142:C:C6	2.50	0.46
25:BA:2315:G:H2'	25:BA:2316:C:C6	2.51	0.46
25:BA:2393:A:H4'	35:BO:62:LEU:N	2.30	0.46
25:BA:2394:C:OP1	35:BO:63:PRO:CD	2.45	0.46
25:BA:2555:U:H2'	25:BA:2556:C:H5'	1.97	0.46
25:BA:2563:U:O2	25:BA:2565:A:H8	1.97	0.46
25:BA:2566:A:H4'	25:BA:2567:G:O5'	2.15	0.46
25:BA:2766:G:H5"	25:BA:2767:C:OP2	2.16	0.46
27:BD:218:ARG:HB3	27:BD:219:PRO:HD2	1.95	0.46
30:BG:64:THR:HG23	30:BG:66:GLN:N	2.29	0.46
31:BH:94:TYR:CE2	31:BH:160:LYS:HD3	2.51	0.46
31:BH:159:GLU:HG2	31:BH:170:ARG:HH11	1.74	0.46
31:BH:169:VAL:HG12	31:BH:170:ARG:N	2.31	0.46
33:BM:38:HIS:HE1	33:BM:50:ASP:OD2	1.98	0.46
34:BN:71:ARG:HG3	34:BN:71:ARG:NH1	2.20	0.46
34:BN:107:ARG:NH1	39:BR:36:GLU:OE2	2.48	0.46
36:BP:136:ALA:HB2	45:BV:52:SER:HB2	1.98	0.46
39:BR:99:LEU:HB3	39:BR:101:PHE:CE1	2.51	0.46
41:B2:35:LEU:HB2	41:B2:37:VAL:HG23	1.97	0.46
42:BS:37:ARG:HG2	42:BS:38:TYR:CE2	2.51	0.46
1:CA:194:C:C2'	1:CA:195:A:H5"	2.46	0.46
1:CA:683:G:C6	1:CA:684:A:C6	3.04	0.46
1:CA:686:U:H2'	1:CA:687:A:C8	2.51	0.46
1:CA:870:U:H5'	1:CA:870:U:H6	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1095:U:OP1	1:CA:1108:G:N1	2.48	0.46
1:CA:1171:G:H2'	1:CA:1172:C:C6	2.51	0.46
1:CA:1504:G:H4'	1:CA:1505:G:O5'	2.16	0.46
2:CE:95:GLN:O	2:CE:96:ARG:C	2.59	0.46
2:CE:237:ALA:H	2:CE:239:VAL:HB	1.80	0.46
3:CF:70:VAL:HG11	3:CF:76:VAL:CG1	2.46	0.46
3:CF:188:LEU:HD12	3:CF:195:VAL:CG1	2.45	0.46
5:CH:93:PRO:HG2	8:CK:105:ARG:NE	2.31	0.46
7:CJ:13:GLN:HG2	7:CJ:14:PRO:HD2	1.97	0.46
17:CT:44:ALA:HA	17:CT:71:PHE:O	2.16	0.46
25:DA:85:G:H5'	44:DU:32:PRO:HD3	1.97	0.46
25:DA:1062:G:H2'	25:DA:1063:G:H8	1.80	0.46
25:DA:1111:A:O2'	25:DA:1112:G:H4'	2.16	0.46
25:DA:1215:G:C2'	25:DA:1216:G:H5'	2.46	0.46
25:DA:1347:G:C2'	25:DA:1348:G:H5'	2.46	0.46
25:DA:1686:C:H2'	25:DA:1687:G:H5'	1.98	0.46
25:DA:2562:U:O2'	34:DN:23:ARG:HD3	2.16	0.46
28:DE:37:ARG:CD	28:DE:44:TYR:CE2	2.93	0.46
28:DE:120:TRP:CD1	28:DE:155:LYS:HB3	2.51	0.46
29:DF:117:ARG:HH12	35:DO:1:MET:H2	1.62	0.46
30:DG:97:ASP:H	30:DG:100:TRP:HD1	1.64	0.46
31:DH:26:VAL:HG13	31:DH:27:LYS:N	2.31	0.46
31:DH:102:ALA:CA	31:DH:117:PRO:HD3	2.45	0.46
33:DM:68:GLU:HG2	33:DM:88:GLU:OE1	2.15	0.46
36:DP:20:ALA:O	36:DP:21:THR:HB	2.15	0.46
36:DP:78:PRO:O	36:DP:79:LEU:O	2.34	0.46
38:DQ:44:LYS:O	38:DQ:46:VAL:HG23	2.14	0.46
41:D2:44:LYS:HG3	41:D2:45:THR:OG1	2.15	0.46
44:DU:72:VAL:O	44:DU:73:ARG:HG3	2.15	0.46
45:DV:30:ASN:OD1	45:DV:90:VAL:HB	2.15	0.46
47:DZ:7:ILE:CD1	47:DZ:70:VAL:HG22	2.45	0.46
47:DZ:20:ARG:HB3	47:DZ:32:LYS:HE2	1.98	0.46
49:DX:29:ARG:N	49:DX:33:GLN:HE22	2.04	0.46
1:AA:22:G:C5	1:AA:23:C:C4	3.03	0.46
1:AA:264:U:O2'	17:AT:64:PRO:HD2	2.16	0.46
1:AA:353:A:H5'	1:AA:353:A:C8	2.44	0.46
1:AA:406:G:C5'	4:AG:5:ILE:HD13	2.46	0.46
1:AA:429:U:H1'	1:AA:430:A:H5"	1.97	0.46
1:AA:763:G:H2'	1:AA:764:C:C6	2.50	0.46
3:AF:26:LYS:HD3	3:AF:26:LYS:H	1.80	0.46
16:AS:14:ASN:O	16:AS:14:ASN:OD1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AS:19:ILE:HA	16:AS:19:ILE:HD12	1.68	0.46
25:BA:232:G:OP2	25:BA:232:G:C8	2.67	0.46
25:BA:539:G:H2'	25:BA:539:G:N3	2.30	0.46
25:BA:588:U:H1'	29:BF:90:PHE:CD1	2.51	0.46
25:BA:650:C:H2'	25:BA:651:G:O5'	2.16	0.46
25:BA:885:C:H2'	25:BA:890:A:N6	2.27	0.46
25:BA:887:A:H5'	25:BA:888:C:OP1	2.15	0.46
25:BA:1069:A:H5"	25:BA:1070:A:OP1	2.16	0.46
25:BA:1101:U:O2'	25:BA:1102:C:H5'	2.15	0.46
25:BA:1473:G:O2'	25:BA:1474:C:H5'	2.15	0.46
25:BA:1754:C:OP1	39:BR:96:ARG:NH1	2.48	0.46
25:BA:2156:G:H5"	25:BA:2157:G:P	2.56	0.46
25:BA:2301:C:H3'	25:BA:2301:C:C6	2.51	0.46
25:BA:2666:C:H42	31:BH:109:PHE:HA	1.81	0.46
26:BB:70:C:N3	26:BB:71:C:C5	2.83	0.46
27:BD:33:LEU:HD13	27:BD:34:VAL:N	2.31	0.46
28:BE:49:LEU:HD12	28:BE:49:LEU:HA	1.82	0.46
30:BG:131:TYR:HE2	30:BG:133:LEU:HD13	1.81	0.46
37:B0:97:VAL:HG22	37:B0:114:VAL:HG22	1.98	0.46
38:BQ:67:ARG:CB	38:BQ:67:ARG:HH11	2.28	0.46
38:BQ:106:ARG:HB3	38:BQ:110:LEU:HD21	1.98	0.46
39:BR:54:ARG:HA	39:BR:59:THR:HB	1.98	0.46
39:BR:58:ASN:HD22	39:BR:58:ASN:H	1.62	0.46
41:B2:99:ILE:N	41:B2:99:ILE:HD13	2.30	0.46
45:BV:48:PHE:CZ	45:BV:74:VAL:HG21	2.51	0.46
51:B5:51:TYR:O	51:B5:56:LYS:HE3	2.15	0.46
1:CA:31:G:H2'	1:CA:48:C:N4	2.31	0.46
1:CA:195:A:C6	1:CA:196:A:N1	2.84	0.46
1:CA:300:A:H8	1:CA:300:A:O5'	1.99	0.46
1:CA:313:A:H2'	1:CA:314:C:C6	2.51	0.46
1:CA:511:C:C2	1:CA:512:U:C5	3.04	0.46
1:CA:938:A:C2	1:CA:1376:U:H1'	2.51	0.46
1:CA:979:C:C5	1:CA:980:C:C5	3.04	0.46
1:CA:1175:G:C2	1:CA:1176:A:C5	3.04	0.46
2:CE:12:GLU:CD	2:CE:12:GLU:C	2.83	0.46
2:CE:73:THR:O	2:CE:74:LYS:C	2.58	0.46
3:CF:196:LEU:HD23	3:CF:196:LEU:N	2.31	0.46
4:CG:172:PRO:HD2	4:CG:173:TRP:CZ3	2.51	0.46
5:CH:101:ILE:HD11	5:CH:119:LEU:CD2	2.43	0.46
6:CI:61:LEU:HB3	6:CI:63:TYR:CE2	2.50	0.46
7:CJ:78:ARG:NH1	7:CJ:80:VAL:HB	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CM:31:GLY:O	10:CM:32:ALA:HB2	2.16	0.46
13:CP:60:VAL:HG13	13:CP:64:TRP:HE1	1.80	0.46
19:CV:43:GLU:H	19:CV:45:VAL:HG22	1.80	0.46
23:CD:13:C:C2'	23:CD:14:A:OP1	2.64	0.46
25:DA:205:G:C1'	25:DA:206:U:OP2	2.60	0.46
25:DA:633:A:O5'	25:DA:633:A:H8	1.98	0.46
25:DA:709:U:H2'	25:DA:710:G:C8	2.50	0.46
25:DA:717:G:H2'	25:DA:718:A:O4'	2.15	0.46
25:DA:912:C:N3	25:DA:913:U:C5	2.83	0.46
25:DA:953:A:OP2	36:DP:16:ARG:HD3	2.16	0.46
25:DA:1809:A:N6	25:DA:1810:A:N1	2.63	0.46
25:DA:2584:U:C5'	25:DA:2585:U:OP2	2.64	0.46
28:DE:91:VAL:HG23	28:DE:95:ILE:HD11	1.98	0.46
31:DH:85:LYS:HA	31:DH:85:LYS:HD2	1.73	0.46
35:DO:39:LYS:HB2	35:DO:45:LEU:HD21	1.96	0.46
38:DQ:3:ARG:HD2	38:DQ:4:LEU:H	1.81	0.46
47:DZ:67:ILE:N	47:DZ:68:PRO:HD2	2.31	0.46
47:DZ:78:LYS:O	47:DZ:78:LYS:CD	2.61	0.46
48:DW:53:LEU:O	48:DW:56:GLN:HB2	2.16	0.46
49:DX:6:VAL:HG22	49:DX:35:ARG:O	2.16	0.46
52:D6:52:VAL:HG22	52:D6:53:LYS:N	2.25	0.46
1:AA:686:U:H2'	1:AA:687:A:C8	2.51	0.46
1:AA:827:U:H5	1:AA:872:A:C6	2.33	0.46
3:AF:23:TYR:CD2	3:AF:24:ALA:N	2.84	0.46
4:AG:61:LYS:HA	4:AG:203:VAL:HG22	1.98	0.46
4:AG:155:LEU:O	4:AG:156:GLU:C	2.59	0.46
7:AJ:26:PHE:HE2	7:AJ:30:ILE:HD11	1.78	0.46
8:AK:109:ILE:HD11	8:AK:120:THR:CG2	2.46	0.46
9:AL:114:TYR:HD1	10:AM:60:ARG:HB2	1.80	0.46
10:AM:42:THR:HG23	10:AM:68:HIS:HA	1.98	0.46
11:AN:121:PRO:CG	11:AN:126:ARG:HG3	2.38	0.46
18:AU:29:PHE:CE1	18:AU:31:LEU:HB3	2.51	0.46
22:AB:18:G:C8	22:AB:18:G:OP2	2.69	0.46
23:AC:21:U:C3'	23:AC:22:A:H5'	2.46	0.46
23:AD:18:C:OP1	25:BA:2180:U:O3'	2.34	0.46
23:AD:69:C:H2'	23:AD:70:C:O4'	2.16	0.46
25:BA:128:C:H4'	53:B7:49:ARG:HH21	1.81	0.46
25:BA:478:A:C6	25:BA:480:A:C6	3.04	0.46
25:BA:654(H):G:H2'	25:BA:654(H):G:N3	2.31	0.46
25:BA:774:A:H2	25:BA:787:U:C2'	2.29	0.46
25:BA:806:C:OP2	35:BO:41:ARG:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:911:A:H2'	36:BP:9:TYR:OH	2.15	0.46
25:BA:1069:A:H5"	25:BA:1070:A:P	2.55	0.46
25:BA:1750:G:C2	25:BA:1751:C:C6	3.04	0.46
25:BA:2134:A:N7	25:BA:2158:A:H2	2.13	0.46
25:BA:2161:C:H2'	25:BA:2162:G:H5'	1.98	0.46
25:BA:2287:A:C2	25:BA:2346:A:C2	3.04	0.46
25:BA:2481:G:C2'	25:BA:2482:G:OP2	2.64	0.46
25:BA:2592:G:C6	25:BA:2593:U:C4	3.04	0.46
25:BA:2701:C:H2'	25:BA:2702:U:OP1	2.15	0.46
25:BA:2785:C:O2'	28:BE:64:LYS:HD3	2.16	0.46
26:BB:43:C:P	30:BG:67:LYS:HZ1	2.38	0.46
35:BO:15:ARG:NH1	35:BO:15:ARG:CB	2.75	0.46
35:BO:50:ARG:HG3	35:BO:50:ARG:NH2	2.24	0.46
35:BO:61:ARG:HG3	54:B8:27:THR:HG22	1.97	0.46
36:BP:10:ARG:H	36:BP:10:ARG:HG2	1.45	0.46
36:BP:85:LYS:HG2	36:BP:86:GLY:N	2.31	0.46
40:B1:112:ARG:NH1	40:B1:112:ARG:HG3	2.27	0.46
45:BV:59:LEU:O	45:BV:60:GLU:C	2.59	0.46
51:B5:40:LYS:CE	51:B5:46:CYS:HB3	2.45	0.46
1:CA:16:A:H2	1:CA:1080:A:N3	2.13	0.46
1:CA:242:C:H2'	1:CA:243:A:H5'	1.98	0.46
1:CA:577:G:H2'	1:CA:578:C:H6	1.81	0.46
1:CA:608:A:H2'	1:CA:609:A:O4'	2.16	0.46
1:CA:644:G:C2'	1:CA:645:C:H5'	2.46	0.46
1:CA:943:U:H1'	9:CL:124:GLN:HE22	1.81	0.46
1:CA:1348:U:H3	1:CA:1374:A:H2	1.64	0.46
1:CA:1468:A:H2'	1:CA:1469:G:O4'	2.16	0.46
6:CI:8:ILE:HD11	6:CI:79:LEU:HD13	1.97	0.46
8:CK:120:THR:H	8:CK:123:GLU:HG3	1.81	0.46
13:CP:3:ARG:NH1	30:DG:113:ARG:HH21	2.09	0.46
20:CW:96:GLY:O	20:CW:97:ALA:HB3	2.16	0.46
25:DA:68:G:H2'	25:DA:69:C:O4'	2.15	0.46
25:DA:362:U:H3'	25:DA:362:U:C6	2.50	0.46
25:DA:492:A:H2'	25:DA:493:G:H5'	1.97	0.46
25:DA:547:A:H2'	25:DA:548:A:C8	2.51	0.46
25:DA:922:U:H2'	25:DA:923:C:C6	2.50	0.46
25:DA:1097:U:OP2	25:DA:1097:U:H6	1.98	0.46
25:DA:1264:G:H5'	51:D5:11:THR:OG1	2.16	0.46
25:DA:1396:U:O2	25:DA:1396:U:H2'	2.14	0.46
25:DA:1434:A:N6	25:DA:1558:A:N6	2.57	0.46
25:DA:1536:A:C8	25:DA:1537:C:H1'	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2271:G:C5	25:DA:2272:U:C5	3.04	0.46
25:DA:2410:G:H2'	25:DA:2411:A:O4'	2.16	0.46
25:DA:2815:C:O2'	51:D5:43:HIS:HD2	1.99	0.46
25:DA:2876:G:O5'	39:DR:3:ARG:HA	2.16	0.46
25:DA:2896:C:H5'	25:DA:2897:U:OP2	2.16	0.46
27:DD:68:LYS:HB2	27:DD:70:TRP:CZ3	2.51	0.46
28:DE:25:VAL:O	28:DE:26:ILE:HG13	2.16	0.46
29:DF:93:LYS:HE2	29:DF:93:LYS:HB3	1.57	0.46
30:DG:6:ALA:O	30:DG:9:ARG:N	2.49	0.46
31:DH:169:VAL:HG22	31:DH:170:ARG:N	2.30	0.46
35:DO:47:ASP:O	35:DO:48:PRO:C	2.59	0.46
41:D2:81:TYR:C	41:D2:82:ARG:CG	2.70	0.46
44:DU:46:LYS:O	44:DU:47:LYS:C	2.58	0.46
50:D4:38:LYS:C	50:D4:40:HIS:N	2.74	0.46
1:AA:166:G:H2'	1:AA:167:G:C8	2.50	0.46
1:AA:380:G:N2	1:AA:384:G:C4	2.84	0.46
1:AA:491:G:H2'	1:AA:492:G:O4'	2.16	0.46
1:AA:578:C:H2'	1:AA:579:G:O5'	2.16	0.46
1:AA:663:A:H5"	18:AU:61:LYS:HE3	1.97	0.46
1:AA:729:A:O2'	1:AA:730:G:H5'	2.16	0.46
1:AA:864:A:C2	1:AA:917:G:N3	2.84	0.46
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.15	0.46
2:AE:80:ILE:CG2	2:AE:212:GLN:HA	2.40	0.46
23:AC:77:A:O2'	25:BA:2602:A:N7	2.46	0.46
24:A1:20:U:H2'	24:A1:21:U:C6	2.51	0.46
25:BA:404:C:O2'	25:BA:405:U:OP2	2.27	0.46
25:BA:442:G:O4'	29:BF:46:ARG:HD3	2.15	0.46
25:BA:481:G:H4'	25:BA:482:A:O5'	2.16	0.46
25:BA:1203:G:H5'	35:BO:3:LEU:CD1	2.46	0.46
25:BA:1701:A:C3'	25:BA:1702:G:H5'	2.46	0.46
25:BA:1845:G:O2'	25:BA:1846:G:H5'	2.15	0.46
25:BA:2283:C:C2	25:BA:2389:G:C2	3.04	0.46
25:BA:2760:C:O2'	25:BA:2761:G:H5'	2.16	0.46
25:BA:2788:C:O2'	25:BA:2809:A:N3	2.46	0.46
25:BA:2789:C:O2'	25:BA:2892:A:C2	2.68	0.46
25:BA:2881:C:C4	25:BA:2882:A:N7	2.84	0.46
26:BB:116:G:C5'	38:BQ:55:ALA:HB2	2.46	0.46
28:BE:107:THR:HG22	28:BE:107:THR:O	2.15	0.46
30:BG:93:THR:O	30:BG:93:THR:HG22	2.15	0.46
31:BH:152:ARG:C	31:BH:153:LYS:HD2	2.41	0.46
32:BK:99:GLU:O	32:BK:100:ALA:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BM:23:LEU:C	33:BM:23:LEU:HD12	2.41	0.46
39:BR:16:ARG:HG2	39:BR:18:ASP:OD1	2.16	0.46
41:B2:5:VAL:O	41:B2:11:GLN:HA	2.15	0.46
42:BS:1:MET:CG	42:BS:64:MET:HE2	2.45	0.46
42:BS:7:ALA:HB2	42:BS:50:VAL:HG22	1.97	0.46
44:BU:78:ALA:CB	44:BU:81:LYS:HZ1	2.22	0.46
52:B6:52:VAL:HG22	52:B6:53:LYS:N	2.31	0.46
1:CA:409:G:OP1	4:CG:24:GLU:HG2	2.16	0.46
1:CA:922:G:N3	1:CA:1398:A:H2	2.14	0.46
1:CA:1055:A:C8	1:CA:1206:G:C2	3.04	0.46
1:CA:1091:U:O2	1:CA:1093:A:C8	2.67	0.46
1:CA:1151:A:C6	1:CA:1152:A:C6	3.04	0.46
1:CA:1153:C:C4	1:CA:1154:G:N7	2.84	0.46
1:CA:1392:G:C2'	1:CA:1393:U:H5'	2.46	0.46
4:CG:119:GLN:O	4:CG:123:HIS:CD2	2.69	0.46
7:CJ:40:ALA:O	7:CJ:44:TYR:CD1	2.69	0.46
11:CN:54:ARG:HB3	11:CN:54:ARG:CZ	2.46	0.46
14:CQ:53:LEU:HA	14:CQ:54:PRO:HD3	1.84	0.46
18:CU:32:ARG:HA	18:CU:69:THR:HG21	1.98	0.46
19:CV:9:VAL:HB	19:CV:11:VAL:HG12	1.98	0.46
21:CX:9:ARG:HG3	21:CX:10:ARG:N	2.31	0.46
25:DA:154:G:H3'	25:DA:155:C:C6	2.51	0.46
25:DA:270(H):C:H2'	25:DA:270(I):G:C8	2.51	0.46
25:DA:1012:U:N3	25:DA:1143:A:C6	2.82	0.46
25:DA:1058:U:H3	25:DA:1080:A:N6	2.11	0.46
25:DA:1416:G:H1	25:DA:1582:C:H42	1.62	0.46
25:DA:1439:A:C2	25:DA:1553:A:C4	3.04	0.46
25:DA:1922:G:H2'	25:DA:1923:U:O4'	2.16	0.46
25:DA:2115:G:H2'	25:DA:2116:G:N7	2.30	0.46
25:DA:2129:C:N4	25:DA:2130:U:O4	2.49	0.46
25:DA:2261:C:C2'	25:DA:2262:U:H5'	2.46	0.46
25:DA:2411:A:H2'	25:DA:2411:A:N3	2.30	0.46
27:DD:268:ARG:HG2	27:DD:268:ARG:NH1	2.31	0.46
30:DG:45:GLU:H	30:DG:45:GLU:HG2	1.35	0.46
34:DN:22:ILE:HA	34:DN:22:ILE:HD13	1.41	0.46
38:DQ:38:GLN:HG3	38:DQ:47:THR:CG2	2.46	0.46
39:DR:136:GLN:HE21	39:DR:136:GLN:HB3	1.53	0.46
40:D1:98:LEU:C	40:D1:100:VAL:N	2.69	0.46
41:D2:46:VAL:HG22	41:D2:46:VAL:O	2.16	0.46
44:DU:97:ARG:HD3	44:DU:97:ARG:N	2.29	0.46
52:D6:15:GLU:OE2	52:D6:41:PRO:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:102:G:C5	1:AA:103:C:C5	3.04	0.45
1:AA:297:G:H4'	1:AA:557:G:H4'	1.98	0.45
1:AA:428:G:C8	1:AA:430:A:C5	3.04	0.45
1:AA:942:G:C2	1:AA:1342:C:C2	3.04	0.45
1:AA:1002:G:C2'	1:AA:1003:G:H5'	2.46	0.45
1:AA:1308:U:H5"	13:AP:98:VAL:CG2	2.46	0.45
3:AF:35:GLU:O	3:AF:39:ILE:N	2.43	0.45
3:AF:92:ALA:HB2	3:AF:99:VAL:HG22	1.97	0.45
4:AG:50:ARG:NH1	5:AH:10:MET:HE3	2.30	0.45
10:AM:16:LEU:HD12	10:AM:70:ARG:HE	1.80	0.45
11:AN:32:ILE:CG2	11:AN:77:MET:HE2	2.46	0.45
18:AU:25:THR:C	18:AU:26:LEU:HD23	2.41	0.45
21:AX:2:GLY:O	21:AX:4:GLY:N	2.49	0.45
23:AC:6:G:C2'	23:AC:6:G:N3	2.78	0.45
25:BA:139:G:N2	25:BA:141:A:N1	2.63	0.45
25:BA:250:G:H2'	25:BA:251:A:C8	2.51	0.45
25:BA:547:A:C3'	25:BA:548:A:C8	2.99	0.45
25:BA:654(V):A:C2	25:BA:655:A:C2	2.99	0.45
25:BA:1022:G:H4'	25:BA:1023:U:O5'	2.16	0.45
25:BA:1829:A:H2'	25:BA:1830:C:H5'	1.99	0.45
25:BA:2224:G:H4'	25:BA:2226:C:C2	2.51	0.45
25:BA:2235:G:H2'	25:BA:2236:C:C6	2.51	0.45
31:BH:137:ASP:HB3	31:BH:140:LYS:HB3	1.98	0.45
32:BK:102:SER:HB3	32:BK:103:ARG:HE	1.81	0.45
33:BM:112:LEU:O	33:BM:116:LEU:HG	2.17	0.45
35:BO:96:THR:C	35:BO:98:GLU:N	2.74	0.45
38:BQ:78:LEU:HD12	38:BQ:107:GLU:O	2.16	0.45
45:BV:5:LEU:HD22	45:BV:47:VAL:HG21	1.98	0.45
45:BV:121:HIS:C	45:BV:123:ASP:H	2.24	0.45
1:CA:393:A:C6	1:CA:394:G:N7	2.84	0.45
1:CA:488:C:O2'	1:CA:489:C:H5'	2.16	0.45
1:CA:600:C:O2'	1:CA:601:C:H5'	2.16	0.45
1:CA:974:A:P	14:CQ:41:ARG:HH12	2.39	0.45
1:CA:1107:C:OP1	3:CF:172:ARG:HB3	2.16	0.45
1:CA:1132:C:C2'	1:CA:1133:G:H5'	2.46	0.45
3:CF:7:PRO:O	3:CF:11:ARG:NH1	2.50	0.45
3:CF:75:VAL:O	3:CF:75:VAL:HG12	2.16	0.45
3:CF:79:ARG:C	3:CF:81:GLY:H	2.23	0.45
3:CF:120:VAL:HA	3:CF:123:GLN:HE21	1.81	0.45
11:CN:38:ASN:H	11:CN:38:ASN:HD22	1.63	0.45
13:CP:3:ARG:HB2	50:D4:34:GLU:CD	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CP:102:ARG:HG2	13:CP:103:THR:N	2.31	0.45
16:CS:52:ASP:OD1	16:CS:55:ARG:HG3	2.16	0.45
19:CV:31:ILE:HG23	19:CV:33:THR:HG22	1.98	0.45
23:CC:41:C:C2	23:CC:42:C:C5	3.04	0.45
25:DA:322:A:H3'	29:DF:169:ASN:HD21	1.78	0.45
25:DA:349:G:H2'	25:DA:350:U:O4'	2.16	0.45
25:DA:606:U:H4'	25:DA:658:C:H4'	1.97	0.45
25:DA:753:C:H2'	25:DA:754:C:C6	2.46	0.45
25:DA:1005:C:O4'	25:DA:1143:A:C2	2.68	0.45
25:DA:1292:U:H2'	25:DA:1293:C:C6	2.50	0.45
25:DA:1540:G:H2'	25:DA:1541:U:O4'	2.15	0.45
25:DA:1820:U:H4'	25:DA:1821:A:OP2	2.16	0.45
25:DA:1999:C:H5"	25:DA:2723:C:O2'	2.16	0.45
25:DA:2017:U:H5"	25:DA:2018:G:P	2.56	0.45
25:DA:2032:G:H21	28:DE:146:THR:CG2	2.20	0.45
25:DA:2168:G:C6	25:DA:2171:A:N1	2.84	0.45
25:DA:2304:G:C2'	25:DA:2305:A:O5'	2.64	0.45
25:DA:2315:G:H2'	25:DA:2316:C:C6	2.51	0.45
25:DA:2364:C:H4'	46:D3:56:ASP:OD2	2.16	0.45
26:DB:60:C:H2'	26:DB:61:G:C8	2.51	0.45
29:DF:18:ARG:HG2	29:DF:19:GLU:H	1.80	0.45
30:DG:97:ASP:H	30:DG:100:TRP:CD1	2.34	0.45
31:DH:102:ALA:HB1	31:DH:116:GLU:HA	1.98	0.45
36:DP:64:ILE:HD13	36:DP:64:ILE:H	1.77	0.45
36:DP:64:ILE:HG22	36:DP:65:PHE:H	1.81	0.45
38:DQ:88:ASP:CG	38:DQ:89:ARG:N	2.72	0.45
38:DQ:104:GLY:C	38:DQ:106:ARG:H	2.24	0.45
39:DR:29:ARG:HH11	39:DR:29:ARG:HB3	1.80	0.45
43:DT:11:PRO:CB	43:DT:92:LEU:HD21	2.46	0.45
44:DU:50:ARG:CG	44:DU:53:PRO:HG3	2.46	0.45
45:DV:53:ILE:HG22	45:DV:71:VAL:HG13	1.97	0.45
48:DW:17:SER:HB3	48:DW:21:LEU:HG	1.98	0.45
52:D6:39:TYR:CD1	52:D6:40:CYS:N	2.84	0.45
1:AA:22:G:H4'	1:AA:885:G:C8	2.51	0.45
1:AA:90:C:C5	1:AA:91:C:H5	2.33	0.45
1:AA:660:G:C2	1:AA:746:A:C2	3.05	0.45
1:AA:687:A:C4'	1:AA:688:G:O5'	2.59	0.45
1:AA:1078:U:C5	1:AA:1079:G:C5	3.04	0.45
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.52	0.45
1:AA:1118:C:P	9:AL:104:ARG:HH11	2.39	0.45
1:AA:1159:U:N3	1:AA:1182:G:N1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1248:A:C5	1:AA:1249:C:C5	3.04	0.45
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.97	0.45
1:AA:1489:G:H2'	1:AA:1490:C:O4'	2.15	0.45
2:AE:72:GLY:HA3	2:AE:165:VAL:HG22	1.98	0.45
3:AF:138:VAL:HG12	3:AF:139:GLN:N	2.31	0.45
11:AN:41:THR:HG23	11:AN:42:TRP:N	2.31	0.45
16:AS:50:LYS:HD3	16:AS:50:LYS:C	2.40	0.45
16:AS:51:VAL:HG11	16:AS:74:LEU:CD2	2.45	0.45
20:AW:73:HIS:O	20:AW:76:ALA:HB3	2.16	0.45
22:AB:19:G:C4'	22:AB:20:U:OP2	2.65	0.45
23:AD:49:C:C2	23:AD:60:A:O4'	2.70	0.45
25:BA:988:A:H4'	25:BA:1155:A:N1	2.31	0.45
25:BA:1014:U:C2'	25:BA:1015:G:H5"	2.42	0.45
25:BA:1181:C:O2'	25:BA:1182:A:H5'	2.16	0.45
25:BA:1244:G:OP1	35:BO:7:ARG:HD3	2.16	0.45
25:BA:1278:A:OP1	37:B0:36:THR:CG2	2.64	0.45
25:BA:1728:G:H2'	25:BA:1731:G:O6	2.16	0.45
25:BA:2102:U:H3	25:BA:2187:G:H1	1.64	0.45
25:BA:2113:U:C5'	25:BA:2114:A:C8	2.94	0.45
25:BA:2131:G:C1'	25:BA:2158:A:H62	2.29	0.45
25:BA:2344:U:OP1	52:B6:38:LYS:HE3	2.16	0.45
25:BA:2472:G:H2'	25:BA:2475:C:H42	1.81	0.45
25:BA:2753:A:O2'	25:BA:2754:U:H5'	2.17	0.45
28:BE:167:VAL:HG22	28:BE:170:LEU:CD1	2.45	0.45
28:BE:174:ASP:OD2	28:BE:175:VAL:N	2.49	0.45
29:BF:32:LEU:HD21	29:BF:108:LYS:HB3	1.97	0.45
32:BK:135:GLU:N	32:BK:135:GLU:CD	2.74	0.45
33:BM:30:ILE:HG23	33:BM:52:VAL:HG11	1.97	0.45
33:BM:55:VAL:HG12	33:BM:127:ASP:O	2.16	0.45
35:BO:113:LYS:HA	35:BO:129:ALA:O	2.16	0.45
35:BO:114:ILE:HG12	35:BO:130:PHE:CD1	2.52	0.45
38:BQ:25:ARG:HD2	38:BQ:88:ASP:OD2	2.16	0.45
39:BR:108:ARG:O	39:BR:111:ARG:HB2	2.16	0.45
40:B1:61:TRP:CE2	40:B1:94:ASN:HA	2.51	0.45
41:B2:64:HIS:CG	41:B2:92:THR:HG22	2.52	0.45
45:BV:14:LYS:HA	45:BV:15:PRO:HD3	1.83	0.45
50:B4:37:SER:HB3	50:B4:42:PHE:CB	2.42	0.45
52:B6:9:LEU:HD13	52:B6:9:LEU:O	2.16	0.45
53:B7:5:TRP:CD1	53:B7:7:PRO:HG3	2.50	0.45
54:B8:26:LYS:HE2	54:B8:47:LYS:HG2	1.98	0.45
1:CA:201:C:H4'	1:CA:208:U:OP1	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:485:G:C2'	1:CA:486:U:OP2	2.64	0.45
1:CA:1321:C:C5	1:CA:1322:C:C5	3.04	0.45
5:CH:100:VAL:O	5:CH:100:VAL:CG1	2.65	0.45
7:CJ:115:ARG:O	7:CJ:118:VAL:HG13	2.16	0.45
9:CL:47:LEU:C	9:CL:49:PRO:HD2	2.41	0.45
11:CN:95:ILE:HG21	11:CN:108:ILE:HD13	1.97	0.45
16:CS:9:PHE:HB2	16:CS:16:HIS:O	2.17	0.45
20:CW:14:LYS:HB2	20:CW:17:ARG:NH2	2.32	0.45
22:CB:87:A:O3'	25:DA:2506:U:O2'	2.21	0.45
23:CC:20:G:HO2'	23:CC:21:U:H6	1.64	0.45
23:CD:24:C:H2'	23:CD:25:U:C6	2.52	0.45
23:CD:31:G:H2'	23:CD:32:G:C8	2.50	0.45
25:DA:273(D):C:N4	25:DA:363(B):G:H1	2.09	0.45
25:DA:529:A:H8	25:DA:530:G:N1	2.13	0.45
25:DA:534:U:O2'	40:D1:49:HIS:CD2	2.69	0.45
25:DA:634:C:H2'	25:DA:635:C:H6	1.82	0.45
25:DA:708:C:H5'	25:DA:709:U:OP2	2.16	0.45
25:DA:847:U:C5	25:DA:933:A:H61	1.65	0.45
25:DA:1069:A:H4'	25:DA:1070:A:H5"	1.98	0.45
25:DA:2304:G:C2	25:DA:2313:C:N3	2.84	0.45
25:DA:2520:C:C6	25:DA:2567:G:H1'	2.51	0.45
25:DA:2657:A:C2	25:DA:2665:A:C8	3.04	0.45
25:DA:2713:A:C3'	25:DA:2714:G:C5'	2.94	0.45
25:DA:2801:A:H2'	25:DA:2802:G:O4'	2.16	0.45
27:DD:24:ILE:HD11	27:DD:91:ARG:CD	2.37	0.45
28:DE:26:ILE:HG22	28:DE:28:ALA:N	2.32	0.45
29:DF:128:ALA:O	29:DF:129:PHE:C	2.59	0.45
29:DF:178:PRO:HB2	29:DF:201:VAL:CG1	2.40	0.45
30:DG:102:PHE:HE2	30:DG:141:PHE:CZ	2.34	0.45
37:D0:82:GLU:C	37:D0:85:PRO:HD2	2.41	0.45
40:D1:68:ALA:O	40:D1:71:GLN:HB2	2.16	0.45
41:D2:85:LYS:CD	41:D2:86:GLY:H	2.28	0.45
1:AA:73:G:C2	1:AA:74:C:H5	2.33	0.45
1:AA:130:A:C8	17:AT:63:ARG:HD3	2.51	0.45
1:AA:195:A:C5	1:AA:196:A:C2	3.04	0.45
1:AA:689:C:C4	1:AA:690:G:C2	3.04	0.45
1:AA:725:G:O2'	1:AA:726:C:H5'	2.16	0.45
1:AA:948:C:O2'	1:AA:949:A:H5'	2.16	0.45
1:AA:1009:G:C2	1:AA:1010:G:C8	3.04	0.45
1:AA:1211:U:H1'	1:AA:1213:A:C2	2.51	0.45
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:70:VAL:CG1	3:AF:72:LYS:H	2.27	0.45
4:AG:138:TYR:CE2	4:AG:139:ARG:O	2.70	0.45
22:AB:50:A:H3'	22:AB:51:A:H5"	1.98	0.45
22:AB:60:A:N3	22:AB:60:A:H2'	2.30	0.45
25:BA:760:G:H2'	25:BA:761:A:O4'	2.17	0.45
25:BA:973:A:O4'	25:BA:1188:U:C6	2.69	0.45
25:BA:2035:G:C4'	25:BA:2036:C:OP2	2.64	0.45
25:BA:2159:G:O2'	25:BA:2160:G:H5'	2.17	0.45
25:BA:2168:G:P	25:BA:2168:G:O4'	2.74	0.45
25:BA:2259:G:C2	25:BA:2282:G:C6	3.05	0.45
25:BA:2704:C:H2'	25:BA:2705:A:C8	2.51	0.45
28:BE:33:VAL:HG23	28:BE:35:GLN:O	2.16	0.45
28:BE:169:ASN:O	28:BE:169:ASN:ND2	2.49	0.45
29:BF:7:TYR:HA	29:BF:22:ALA:H	1.81	0.45
32:BK:81:VAL:HG21	32:BK:88:ILE:HD13	1.98	0.45
32:BK:106:GLY:O	32:BK:107:VAL:CG2	2.50	0.45
37:B0:60:LEU:O	37:B0:64:ARG:HG3	2.16	0.45
44:BU:78:ALA:HB3	44:BU:81:LYS:CE	2.46	0.45
45:BV:80:ARG:H	45:BV:80:ARG:HG2	1.60	0.45
46:B3:72:ARG:HB3	46:B3:75:LEU:HB2	1.97	0.45
51:B5:16:ARG:HD2	51:B5:20:ARG:NH1	2.31	0.45
54:B8:36:LYS:CD	54:B8:40:GLU:CG	2.93	0.45
1:CA:843:U:OP1	1:CA:843:U:H6	1.98	0.45
1:CA:941:G:H2'	1:CA:942:G:O5'	2.16	0.45
1:CA:1057:G:O2'	1:CA:1058:G:H5'	2.16	0.45
1:CA:1124:G:O2'	1:CA:1125:U:OP2	2.34	0.45
1:CA:1141:C:H2'	1:CA:1142:G:H8	1.81	0.45
1:CA:1235:U:H2'	1:CA:1236:A:O4'	2.17	0.45
2:CE:28:PHE:CE2	2:CE:31:TYR:HD1	2.35	0.45
3:CF:18:TRP:HB3	3:CF:20:SER:H	1.82	0.45
4:CG:119:GLN:O	4:CG:123:HIS:HD2	1.99	0.45
9:CL:4:TYR:HA	9:CL:88:TYR:HE1	1.80	0.45
11:CN:38:ASN:HA	11:CN:39:PRO:HD3	1.86	0.45
23:CD:9:G:O6	23:CD:23:G:N7	2.50	0.45
25:DA:11:G:C2'	25:DA:12:U:H5'	2.45	0.45
25:DA:271(B):G:N7	25:DA:421:U:H2'	2.31	0.45
25:DA:330:A:O2'	25:DA:331:A:H8	1.99	0.45
25:DA:1009:A:C4'	40:D1:59:ARG:HG3	2.46	0.45
25:DA:2258:C:H4'	25:DA:2259:G:OP2	2.15	0.45
25:DA:2286:A:H5'	52:D6:28:ARG:HE	1.80	0.45
25:DA:2298:A:H61	25:DA:2318:G:H1'	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2443:C:O2'	25:DA:2444:G:H5'	2.16	0.45
25:DA:2687:U:H2'	25:DA:2688:U:O4'	2.17	0.45
25:DA:2875:C:HO2'	39:DR:3:ARG:HG3	1.81	0.45
26:DB:60:C:H2'	26:DB:61:G:H8	1.82	0.45
27:DD:244:ARG:HB2	27:DD:245:PRO:CD	2.45	0.45
27:DD:244:ARG:HB2	27:DD:245:PRO:HD2	1.98	0.45
31:DH:32:GLU:O	31:DH:33:LEU:HD23	2.17	0.45
35:DO:50:ARG:HB2	54:D8:59:LYS:HD3	1.98	0.45
38:DQ:83:LYS:HE3	38:DQ:83:LYS:HB3	1.74	0.45
44:DU:47:LYS:CA	44:DU:60:PHE:HB3	2.46	0.45
46:D3:82:ARG:HA	46:D3:83:PRO:HD2	1.82	0.45
52:D6:17:LYS:HA	52:D6:17:LYS:HZ3	1.80	0.45
54:D8:30:ARG:O	54:D8:30:ARG:HG3	2.16	0.45
1:AA:165:C:O2'	1:AA:166:G:H5'	2.15	0.45
1:AA:291:C:O2	1:AA:310:G:C2	2.70	0.45
1:AA:451:A:H4'	1:AA:452:A:O4'	2.17	0.45
1:AA:723:U:O2	1:AA:723:U:C2'	2.64	0.45
1:AA:1035:A:N6	1:AA:1036:G:C8	2.84	0.45
7:AJ:78:ARG:NH2	7:AJ:156:TRP:HB3	2.30	0.45
17:AT:27:PHE:CZ	17:AT:36:ILE:HD11	2.52	0.45
25:BA:340:A:H2'	25:BA:341:G:H5'	1.97	0.45
25:BA:637:A:H4'	25:BA:638:G:O5'	2.16	0.45
25:BA:756:C:C2'	25:BA:757:U:O5'	2.63	0.45
25:BA:850:C:O2'	49:BX:46:ASN:ND2	2.49	0.45
25:BA:1385:G:O2'	25:BA:1396:U:H6	1.99	0.45
25:BA:1465:G:C4	25:BA:1466:G:C8	3.04	0.45
25:BA:1677:A:H2'	25:BA:1678:G:C8	2.50	0.45
25:BA:1794:U:H1'	25:BA:1900:A:N3	2.31	0.45
25:BA:2115:G:O6	25:BA:2118:U:OP2	2.34	0.45
25:BA:2168:G:H2'	25:BA:2169:A:OP1	2.16	0.45
29:BF:34:TRP:HB2	35:BO:6:LEU:HG	1.98	0.45
38:BQ:93:LYS:CG	38:BQ:94:TYR:N	2.80	0.45
45:BV:112:ARG:C	45:BV:114:GLY:HA2	2.40	0.45
48:BW:32:LEU:HG	48:BW:53:LEU:HD13	1.96	0.45
1:CA:626:U:C2	1:CA:627:G:C8	3.05	0.45
1:CA:777:A:C2	11:CN:119:CYS:HB3	2.50	0.45
1:CA:799:G:O6	1:CA:800:G:C2	2.70	0.45
1:CA:940:C:O2'	1:CA:941:G:H5'	2.17	0.45
1:CA:994:A:C2	1:CA:995:C:C5	3.04	0.45
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.52	0.45
1:CA:1239:A:H4'	1:CA:1240:U:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1298:C:P	7:CJ:114:ARG:HH22	2.39	0.45
3:CF:100:ALA:O	3:CF:101:LEU:HB2	2.16	0.45
3:CF:150:LYS:CG	3:CF:169:ALA:HB2	2.40	0.45
17:CT:18:THR:OG1	17:CT:69:LYS:NZ	2.45	0.45
18:CU:21:LYS:HE2	18:CU:54:ARG:O	2.17	0.45
22:CB:21:A:C4	22:CB:22:G:H4'	2.51	0.45
22:CB:33:U:C4	22:CB:34:U:C4	3.04	0.45
25:DA:30:G:H2'	25:DA:31:C:C6	2.51	0.45
25:DA:225:A:N6	25:DA:226:G:N1	2.64	0.45
25:DA:329:G:O6	44:DU:19:LYS:CG	2.61	0.45
25:DA:593:G:C1'	54:D8:4:MET:HE1	2.47	0.45
25:DA:654(B):C:C2	25:DA:654(T):A:C2	3.05	0.45
25:DA:1585:C:O2	25:DA:1585:C:H2'	2.15	0.45
25:DA:2695:C:H2'	25:DA:2696:U:C6	2.51	0.45
26:DB:9:G:N2	26:DB:112:G:C4	2.85	0.45
29:DF:24:LEU:HB3	29:DF:25:PRO:HD2	1.97	0.45
29:DF:57:VAL:HG13	29:DF:58:ALA:N	2.32	0.45
29:DF:177:ALA:HB1	29:DF:178:PRO:HD2	1.99	0.45
30:DG:142:PRO:HG2	30:DG:143:GLU:CD	2.41	0.45
32:DK:44:LEU:HD23	32:DK:44:LEU:HA	1.75	0.45
38:DQ:66:ALA:HA	38:DQ:69:VAL:HG12	1.98	0.45
43:DT:18:TYR:CD1	43:DT:21:PHE:CE2	3.05	0.45
44:DU:43:ASN:HD22	44:DU:43:ASN:H	1.64	0.45
48:DW:38:GLN:O	48:DW:41:ILE:HG12	2.17	0.45
53:D7:16:HIS:HB2	53:D7:44:PRO:HG2	1.98	0.45
1:AA:342:C:C2	1:AA:348:G:N2	2.84	0.45
1:AA:438:G:HO2'	1:AA:439:A:H5"	1.82	0.45
1:AA:684:A:N6	1:AA:685:G:C6	2.85	0.45
1:AA:1211:U:C5'	1:AA:1212:U:OP1	2.64	0.45
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.15	0.45
1:AA:1299:A:H2'	1:AA:1301:U:C1'	2.47	0.45
1:AA:1333:A:C2'	1:AA:1334:G:O5'	2.64	0.45
3:AF:141:VAL:CG1	3:AF:202:ILE:HG23	2.46	0.45
5:AH:48:ALA:HB1	5:AH:49:PRO:CD	2.47	0.45
11:AN:85:ARG:HD3	11:AN:113:PRO:HD3	1.99	0.45
14:AQ:13:THR:N	14:AQ:14:PRO:CD	2.80	0.45
22:AB:1:G:N3	22:AB:1:G:H2'	2.31	0.45
23:AC:6:G:N3	23:AC:6:G:H2'	2.31	0.45
23:AC:20:G:C2	23:AC:58:A:C2	3.04	0.45
23:AD:8:U:OP2	23:AD:13:C:H5	1.99	0.45
25:BA:288:C:H2'	25:BA:289:A:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:320:A:H2'	29:BF:136:THR:CG2	2.46	0.45
25:BA:338:G:N2	25:BA:339:U:H1'	2.32	0.45
25:BA:613:U:H5'	25:BA:616:A:N6	2.31	0.45
25:BA:627:A:N1	25:BA:636:G:O2'	2.48	0.45
25:BA:848:G:H2'	25:BA:849:A:C8	2.51	0.45
25:BA:1063:G:C2	25:BA:1064:C:C2	3.04	0.45
25:BA:1332:G:N2	25:BA:1609:A:C2'	2.80	0.45
25:BA:1336:A:H2'	25:BA:1337:G:H8	1.81	0.45
25:BA:1536:A:H2'	25:BA:1537:C:OP1	2.17	0.45
25:BA:1885:A:H2'	25:BA:1886:C:O4'	2.17	0.45
25:BA:2169:A:OP1	25:BA:2169:A:N3	2.49	0.45
25:BA:2183:C:H2'	25:BA:2184:G:O4'	2.17	0.45
25:BA:2544:G:H8	25:BA:2544:G:O5'	1.99	0.45
25:BA:2615:U:H2'	25:BA:2616:C:C6	2.51	0.45
25:BA:2660:A:C2	25:BA:2661:G:H1'	2.52	0.45
26:BB:13:A:O2'	26:BB:14:U:H3'	2.16	0.45
26:BB:80:U:H2'	26:BB:81:G:H21	1.81	0.45
26:BB:116:G:H2'	26:BB:117:G:O4'	2.16	0.45
28:BE:49:LEU:HB3	28:BE:50:GLY:H	1.47	0.45
29:BF:129:PHE:HA	29:BF:142:TRP:NE1	2.31	0.45
32:BK:21:VAL:HG21	32:BK:25:TYR:HD1	1.82	0.45
32:BK:101:LEU:HD23	32:BK:107:VAL:HB	1.98	0.45
32:BK:112:LYS:HE2	32:BK:112:LYS:HB3	1.85	0.45
45:BV:68:PRO:HB2	45:BV:91:LEU:HD23	1.98	0.45
47:BZ:78:LYS:O	47:BZ:80:LEU:HD13	2.16	0.45
49:BX:21:ALA:O	49:BX:24:LYS:HB3	2.17	0.45
50:B4:47:GLN:O	50:B4:48:ARG:CB	2.64	0.45
52:B6:15:GLU:OE2	52:B6:44:ARG:CZ	2.64	0.45
54:B8:26:LYS:CB	54:B8:44:LYS:HG3	2.44	0.45
54:B8:29:LYS:HB2	54:B8:44:LYS:HG2	1.98	0.45
1:CA:131:C:H2'	1:CA:132:C:C6	2.52	0.45
1:CA:333:G:H4'	20:CW:16:HIS:CE1	2.51	0.45
1:CA:719:C:O2'	18:CU:49:LYS:HB3	2.15	0.45
1:CA:987:G:N2	1:CA:1219:U:N3	2.65	0.45
1:CA:1028(B):C:H3'	1:CA:1029:G:C5'	2.47	0.45
1:CA:1105:A:C2	1:CA:1106:G:C5	3.05	0.45
1:CA:1270:C:H2'	1:CA:1271:G:H8	1.81	0.45
1:CA:1323:G:H4'	1:CA:1362(A):C:C2	2.52	0.45
2:CE:5:ILE:O	2:CE:5:ILE:CG2	2.64	0.45
2:CE:7:VAL:HG13	2:CE:8:LYS:HG3	1.99	0.45
9:CL:27:THR:HG23	9:CL:31:GLN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CL:79:LEU:CD1	9:CL:83:ARG:HD2	2.44	0.45
9:CL:114:TYR:C	9:CL:116:LYS:N	2.74	0.45
12:CO:28:LYS:O	12:CO:29:GLY:C	2.57	0.45
14:CQ:44:LEU:C	14:CQ:44:LEU:HD12	2.41	0.45
19:CV:74:PHE:N	19:CV:74:PHE:HD2	2.15	0.45
22:CB:26:C:N4	22:CB:27:G:C2	2.85	0.45
22:CB:30:A:C6	22:CB:31:C:N3	2.85	0.45
23:CC:17:C:OP1	23:CC:62:C:H5'	2.16	0.45
23:CD:20:G:H1'	23:CD:58:A:N1	2.31	0.45
23:CD:62:C:C5	23:CD:63:C:N4	2.85	0.45
25:DA:269:U:C5	25:DA:270(Z):U:C5	3.04	0.45
25:DA:414:C:O2'	25:DA:415:A:H5'	2.16	0.45
25:DA:547:A:C5	25:DA:548:A:C6	3.04	0.45
25:DA:654(J):A:N3	25:DA:654(J):A:H2'	2.31	0.45
25:DA:660:G:H5'	29:DF:99:TYR:CE2	2.51	0.45
25:DA:856:C:C2'	25:DA:857:C:O5'	2.65	0.45
25:DA:882:G:H2'	25:DA:883:G:O4'	2.17	0.45
25:DA:1214:A:H8	25:DA:1214:A:O5'	1.99	0.45
25:DA:1542:G:O6	25:DA:1543:A:N6	2.49	0.45
25:DA:1705:G:C2'	25:DA:1706:U:H5'	2.47	0.45
25:DA:2168:G:N2	25:DA:2170:A:O5'	2.48	0.45
25:DA:2188:C:H2'	25:DA:2189:U:O4'	2.17	0.45
25:DA:2320:A:H1'	25:DA:2321:G:C6	2.51	0.45
25:DA:2401:U:O2'	25:DA:2402:C:C6	2.64	0.45
25:DA:2749:A:H5'	31:DH:62:LYS:O	2.16	0.45
25:DA:2777:G:OP2	25:DA:2781:A:O2'	2.28	0.45
25:DA:2838:G:C6	25:DA:2839:G:C5	3.05	0.45
27:DD:14:ARG:HD3	27:DD:15:PHE:CZ	2.52	0.45
31:DH:102:ALA:HB2	31:DH:117:PRO:HD3	1.97	0.45
32:DK:7:GLU:O	32:DK:9:LEU:HD23	2.16	0.45
33:DM:94:HIS:O	33:DM:97:ARG:HB2	2.16	0.45
33:DM:127:ASP:O	33:DM:128:HIS:HB3	2.16	0.45
35:DO:124:LYS:HE3	35:DO:145:PRO:HD3	1.97	0.45
36:DP:3:MET:H	36:DP:70:PRO:HG2	1.81	0.45
36:DP:31:ASP:N	36:DP:107:ALA:HB2	2.30	0.45
38:DQ:41:ASP:OD1	38:DQ:41:ASP:C	2.58	0.45
38:DQ:59:LYS:HD2	38:DQ:60:GLY:H	1.82	0.45
38:DQ:83:LYS:C	38:DQ:109:GLY:HA3	2.42	0.45
40:D1:100:VAL:C	40:D1:101:ARG:HG2	2.40	0.45
42:DS:76:VAL:HG22	42:DS:76:VAL:O	2.17	0.45
46:D3:50:ASN:C	46:D3:62:LEU:HD12	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D5:6:VAL:CG1	51:D5:7:PRO:N	2.75	0.45
1:AA:90:C:N4	1:AA:91:C:H41	2.14	0.45
1:AA:173:U:C6	1:AA:197:A:C2	3.05	0.45
1:AA:268:C:C4	1:AA:269:C:C5	3.05	0.45
1:AA:464:G:H21	1:AA:468:A:H62	1.65	0.45
1:AA:621:A:O2'	1:AA:622:A:H5'	2.16	0.45
1:AA:814:A:C8	1:AA:816:A:C8	3.05	0.45
1:AA:857:C:C5	1:AA:858:G:N7	2.84	0.45
1:AA:1083:U:C5	1:AA:1084:G:C6	3.04	0.45
4:AG:176:LEU:HD12	4:AG:182:LYS:O	2.16	0.45
5:AH:31:LEU:HD23	5:AH:31:LEU:HA	1.82	0.45
15:AR:29:VAL:HB	15:AR:81:LEU:HD21	1.98	0.45
20:AW:16:HIS:O	20:AW:19:SER:HB2	2.17	0.45
20:AW:87:LYS:HD2	20:AW:87:LYS:HA	1.73	0.45
22:AB:15:A:N1	22:AB:70:G:C5	2.85	0.45
22:AB:27:G:H3'	22:AB:28:C:C6	2.51	0.45
25:BA:28:A:C5	25:BA:29:U:C5	3.04	0.45
25:BA:77:C:OP1	48:BW:59:ARG:HD3	2.17	0.45
25:BA:483:A:O4'	44:BU:47:LYS:HB3	2.17	0.45
25:BA:712:G:H2'	25:BA:713:G:O5'	2.16	0.45
25:BA:835:A:C2'	25:BA:836:G:O5'	2.65	0.45
25:BA:989:G:N7	49:BX:13:ILE:HD12	2.31	0.45
25:BA:1545:A:C6	25:BA:1545(A):A:C2	3.05	0.45
25:BA:1705:G:C2'	25:BA:1706:U:H5'	2.46	0.45
25:BA:1975:G:C2	25:BA:1976:U:C2	3.05	0.45
25:BA:2259:G:C2	25:BA:2282:G:N1	2.85	0.45
25:BA:2395:C:H2'	25:BA:2396:G:O4'	2.17	0.45
25:BA:2468:G:H5"	36:BP:120:ILE:HD12	1.98	0.45
25:BA:2667:C:H2'	25:BA:2668:G:O4'	2.15	0.45
26:BB:45:A:O4'	30:BG:95:ARG:NH1	2.50	0.45
27:BD:35:LYS:HE2	27:BD:65:ILE:HG22	1.99	0.45
27:BD:44:ASN:HB3	27:BD:48:ARG:C	2.41	0.45
31:BH:137:ASP:O	31:BH:138:LYS:HB3	2.16	0.45
32:BK:112:LYS:H	32:BK:112:LYS:HG2	1.57	0.45
34:BN:7:TYR:OH	34:BN:44:LYS:HG3	2.17	0.45
37:B0:18:LEU:HD23	37:B0:18:LEU:HA	1.74	0.45
37:B0:41:ALA:HB1	37:B0:114:VAL:CG2	2.47	0.45
41:B2:9:GLY:O	41:B2:10:LYS:HG3	2.17	0.45
41:B2:76:LYS:HG3	41:B2:81:TYR:HD1	1.81	0.45
45:BV:61:LEU:HD21	45:BV:67:LEU:HD12	1.99	0.45
46:B3:36:ILE:HD13	46:B3:39:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:45:U:H2'	1:CA:46:G:H8	1.80	0.45
1:CA:146:G:N2	1:CA:177:C:C2	2.85	0.45
1:CA:171:A:C6	1:CA:172:A:C6	3.05	0.45
1:CA:498:A:C4'	1:CA:500:G:OP1	2.63	0.45
1:CA:619:U:C2	4:CG:135:LEU:HD22	2.51	0.45
1:CA:671:G:C5	1:CA:672:U:C5	3.05	0.45
1:CA:677:U:H1'	11:CN:119:CYS:SG	2.57	0.45
1:CA:691:G:H1'	1:CA:696:A:N6	2.31	0.45
1:CA:1047:G:H5"	14:CQ:4:LYS:HE3	1.98	0.45
1:CA:1170:A:H2'	1:CA:1171:G:O4'	2.17	0.45
1:CA:1187:G:H2'	1:CA:1187:G:N3	2.32	0.45
1:CA:1320:C:C2	1:CA:1321:C:C5	3.04	0.45
1:CA:1361:G:C2'	1:CA:1362:C:H5'	2.47	0.45
1:CA:1372:U:H2'	1:CA:1373:G:O4'	2.16	0.45
2:CE:28:PHE:CE2	2:CE:189:ASP:O	2.70	0.45
2:CE:36:ARG:HB3	2:CE:41:ILE:HD11	1.97	0.45
2:CE:112:VAL:O	2:CE:115:LEU:HB3	2.15	0.45
3:CF:29:TYR:CD1	14:CQ:36:PHE:CE1	3.05	0.45
15:CR:48:LYS:HD3	15:CR:48:LYS:HA	1.50	0.45
16:CS:70:ALA:O	16:CS:74:LEU:HB2	2.16	0.45
18:CU:87:ARG:O	18:CU:88:LYS:HG3	2.16	0.45
25:DA:259:G:N2	25:DA:621:A:C8	2.73	0.45
25:DA:333:G:H5"	25:DA:334:C:OP2	2.17	0.45
25:DA:999:U:C5	25:DA:1154:G:C5	3.05	0.45
25:DA:1467:C:C5	25:DA:1546:C:H2'	2.52	0.45
25:DA:1784:A:H4'	25:DA:1785:A:O5'	2.16	0.45
25:DA:2564:A:C2	25:DA:2647:U:H4'	2.52	0.45
25:DA:2849:U:OP2	39:DR:95:ARG:NH1	2.47	0.45
27:DD:45:ASN:OD1	27:DD:45:ASN:C	2.60	0.45
30:DG:31:VAL:HA	30:DG:32:PRO:HD3	1.83	0.45
30:DG:181:ARG:O	30:DG:182:LYS:HB2	2.16	0.45
31:DH:154:PRO:O	31:DH:155:SER:CB	2.61	0.45
36:DP:27:VAL:HG11	36:DP:134:ARG:HB2	1.99	0.45
40:D1:50:ARG:CB	40:D1:50:ARG:HH21	2.30	0.45
40:D1:76:TYR:CZ	40:D1:80:ILE:HG13	2.52	0.45
45:DV:120:ILE:HG21	45:DV:170:THR:HG23	1.98	0.45
54:D8:22:VAL:HB	54:D8:50:LEU:HD13	1.97	0.45
54:D8:39:LYS:C	54:D8:41:ILE:N	2.70	0.45
1:AA:370:C:H2'	1:AA:371:G:O4'	2.16	0.45
1:AA:373:A:H2'	1:AA:374:A:O4'	2.17	0.45
1:AA:601:C:H2'	1:AA:602:A:H8	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:621:A:C2'	1:AA:622:A:H5'	2.47	0.45
1:AA:975:A:C5'	1:AA:976:G:H5"	2.47	0.45
1:AA:977:A:O2'	1:AA:979:C:OP2	2.32	0.45
1:AA:1076:C:C2	1:AA:1082:G:C2	3.04	0.45
1:AA:1091:U:O2	1:AA:1093:A:H8	2.00	0.45
1:AA:1102:A:C2'	1:AA:1103:C:H5'	2.47	0.45
1:AA:1128:C:H5'	9:AL:16:ARG:HH12	1.80	0.45
1:AA:1171:G:C2'	1:AA:1172:C:H5'	2.47	0.45
1:AA:1288:A:H1'	1:AA:1352:C:O2'	2.16	0.45
1:AA:1393:U:O4'	1:AA:1502:A:H5'	2.17	0.45
2:AE:87:ARG:NH2	2:AE:233:SER:OG	2.45	0.45
9:AL:47:LEU:O	9:AL:50:LEU:HB2	2.16	0.45
20:AW:10:LEU:HD22	20:AW:12:ALA:HB3	1.78	0.45
25:BA:571:A:C8	25:BA:2030:A:N6	2.85	0.45
25:BA:654(B):C:C2	25:BA:654(T):A:C2	3.04	0.45
25:BA:856:C:C6	25:BA:856:C:C3'	3.00	0.45
25:BA:960:A:C8	25:BA:962:G:C8	3.04	0.45
25:BA:1385:G:H1'	25:BA:1386:C:C6	2.52	0.45
25:BA:1794:U:O2'	25:BA:1795:C:H5'	2.17	0.45
25:BA:1796:U:H2'	25:BA:1797:C:H6	1.77	0.45
25:BA:1903:G:P	27:BD:241:PRO:HB2	2.57	0.45
25:BA:1998:G:O2'	25:BA:1999:C:H5'	2.17	0.45
25:BA:2109:U:O2	25:BA:2181:G:C2	2.70	0.45
25:BA:2285:C:P	52:B6:28:ARG:HD3	2.56	0.45
34:BN:73:ASP:OD1	34:BN:73:ASP:C	2.59	0.45
37:B0:2:ARG:CG	37:B0:5:LYS:HZ2	2.29	0.45
37:B0:9:LYS:H	37:B0:9:LYS:HG2	1.61	0.45
40:B1:92:ARG:NH2	41:B2:11:GLN:H	2.13	0.45
42:BS:84:ARG:HB2	42:BS:96:ILE:HD13	1.99	0.45
45:BV:142:SER:H	45:BV:143:GLY:HA2	1.80	0.45
45:BV:155:LEU:HD23	45:BV:155:LEU:HA	1.75	0.45
1:CA:393:A:C2	1:CA:394:G:C8	3.05	0.45
1:CA:922:G:C6	1:CA:923:A:C6	3.05	0.45
1:CA:1231:G:C2'	1:CA:1232:U:H5'	2.47	0.45
4:CG:60:GLU:HG2	4:CG:202:LEU:HB2	1.99	0.45
10:CM:24:VAL:HG21	10:CM:37:PRO:HG3	1.98	0.45
22:CB:55:G:C6	22:CB:56:G:C6	3.05	0.45
23:CD:63:C:H6	23:CD:63:C:H3'	1.82	0.45
25:DA:858:U:O2	25:DA:2268:A:N3	2.50	0.45
25:DA:951:C:C2'	25:DA:952:G:H5'	2.47	0.45
25:DA:1043:C:H2'	25:DA:1044:G:H5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2336:A:H61	46:D3:43:THR:HB	1.82	0.45
25:DA:2378:A:H5"	38:DQ:23:ARG:NH1	2.31	0.45
25:DA:2593:U:H2'	25:DA:2594:C:H6	1.81	0.45
25:DA:2607:G:H2'	25:DA:2608:G:O4'	2.17	0.45
25:DA:2861:G:C2'	25:DA:2862:G:H5'	2.46	0.45
27:DD:33:LEU:CD2	27:DD:34:VAL:H	2.30	0.45
27:DD:141:VAL:HG23	27:DD:162:SER:HB2	1.99	0.45
27:DD:186:HIS:HD2	27:DD:187:GLY:N	2.13	0.45
28:DE:5:LEU:N	28:DE:5:LEU:HD23	2.31	0.45
28:DE:8:LYS:C	28:DE:9:VAL:HG13	2.41	0.45
30:DG:99:MET:HG3	30:DG:100:TRP:N	2.31	0.45
30:DG:150:ASP:CG	30:DG:151:ALA:N	2.75	0.45
34:DN:2:ILE:HD12	34:DN:6:THR:HG21	1.99	0.45
36:DP:38:GLU:HB2	36:DP:127:ILE:CG2	2.46	0.45
40:D1:50:ARG:HH12	41:D2:72:VAL:HG22	1.81	0.45
41:D2:75:PHE:CE2	41:D2:81:TYR:CE1	3.04	0.45
42:DS:59:VAL:O	42:DS:63:ASP:HA	2.16	0.45
43:DT:50:LYS:O	43:DT:51:VAL:HB	2.15	0.45
44:DU:17:SER:HB3	44:DU:71:LYS:HB3	1.97	0.45
45:DV:30:ASN:HA	45:DV:89:PHE:HE2	1.82	0.45
50:D4:25:TYR:O	50:D4:26:SER:OG	2.31	0.45
1:AA:139:G:N2	1:AA:225:C:C2	2.85	0.45
1:AA:149:A:C2	1:AA:150:C:C4	3.05	0.45
1:AA:181:G:N2	1:AA:195:A:C4	2.85	0.45
1:AA:775:G:O2'	1:AA:776:G:H5'	2.17	0.45
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.64	0.45
1:AA:1090:U:O2'	1:AA:1091:U:H5'	2.16	0.45
1:AA:1305:G:N2	1:AA:1331:G:C2'	2.73	0.45
1:AA:1358:U:H2'	1:AA:1359:C:O4'	2.17	0.45
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.82	0.45
2:AE:58:ILE:HD11	2:AE:185:ILE:CD1	2.46	0.45
7:AJ:27:ILE:HD12	7:AJ:40:ALA:HB2	1.99	0.45
9:AL:114:TYR:HD1	10:AM:60:ARG:CB	2.29	0.45
11:AN:124:LYS:HD2	11:AN:125:PHE:CZ	2.52	0.45
12:AO:75:HIS:HD2	12:AO:77:LEU:N	2.14	0.45
17:AT:68:ARG:H	17:AT:70:ARG:NH1	2.14	0.45
20:AW:82:SER:O	20:AW:86:ARG:HB2	2.17	0.45
23:AC:19:G:N3	23:AC:59:A:C2	2.85	0.45
23:AC:59:A:C8	23:AC:62:C:N4	2.85	0.45
23:AC:73:A:C6	23:AC:74:A:C6	3.05	0.45
25:BA:250:G:C6	25:BA:251:A:C6	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1006:C:C2	25:BA:1138:G:N2	2.85	0.45
25:BA:1026:U:C1'	25:BA:1027:A:P	3.05	0.45
25:BA:1478:G:N2	25:BA:1516:U:C2	2.84	0.45
25:BA:1568:G:H5"	27:BD:61:LEU:CD2	2.46	0.45
25:BA:1885:A:H5'	25:BA:1885:A:C8	2.42	0.45
25:BA:2415:G:C3'	35:BO:66:GLY:HA3	2.47	0.45
25:BA:2619:C:H4'	28:BE:151:TYR:O	2.17	0.45
26:BB:89:G:C6	26:BB:89(A):A:C6	3.04	0.45
27:BD:108:PRO:HG3	27:BD:143:HIS:CE1	2.51	0.45
27:BD:270:ILE:CG2	27:BD:271:ILE:H	2.30	0.45
28:BE:2:LYS:HB3	28:BE:95:ILE:HG21	1.99	0.45
28:BE:61:ARG:N	28:BE:62:PRO:HD2	2.30	0.45
28:BE:81:ILE:O	28:BE:82:ARG:O	2.35	0.45
32:BK:77:LEU:HD23	32:BK:101:LEU:HA	1.99	0.45
33:BM:59:LYS:NZ	33:BM:61:ARG:HH22	2.15	0.45
33:BM:115:ARG:N	33:BM:118:LYS:HE3	2.31	0.45
35:BO:82:GLY:HA2	35:BO:113:LYS:O	2.16	0.45
38:BQ:34:HIS:CB	38:BQ:36:TYR:CE1	2.96	0.45
40:B1:5:LYS:H	40:B1:5:LYS:HG3	1.55	0.45
40:B1:60:LEU:HD21	40:B1:64:ARG:NH2	2.32	0.45
45:BV:7:ALA:O	45:BV:8:TYR:CG	2.70	0.45
1:CA:273:A:H1'	17:CT:16:GLN:OE1	2.17	0.45
1:CA:439:A:C2'	1:CA:440:A:O5'	2.65	0.45
1:CA:561:U:O2'	1:CA:562:C:P	2.75	0.45
1:CA:963:G:N2	10:CM:55:LYS:HG2	2.32	0.45
1:CA:1156:G:H5"	1:CA:1157:A:OP2	2.17	0.45
1:CA:1200:C:H5'	1:CA:1201:A:H5'	1.99	0.45
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.52	0.45
2:CE:42:ILE:HD13	2:CE:203:GLY:N	2.32	0.45
3:CF:66:VAL:O	3:CF:66:VAL:HG12	2.17	0.45
5:CH:10:MET:HA	5:CH:32:VAL:HG22	1.98	0.45
13:CP:108:ARG:HG3	13:CP:108:ARG:NH1	2.31	0.45
14:CQ:40:CYS:SG	14:CQ:43:CYS:HB2	2.57	0.45
19:CV:68:GLY:HA3	50:D4:59:PHE:CE1	2.49	0.45
23:CC:43:G:O2'	23:CC:44:A:H5'	2.17	0.45
23:CD:54:G:H2'	23:CD:55:U:C5	2.51	0.45
25:DA:137(A):G:H2'	25:DA:139:G:N7	2.31	0.45
25:DA:259:G:C2'	25:DA:621:A:O2'	2.64	0.45
25:DA:315:G:H2'	25:DA:316:C:C6	2.52	0.45
25:DA:998:C:H2'	25:DA:999:U:O5'	2.17	0.45
25:DA:1666:G:H2'	25:DA:1667:G:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2494:G:C4	25:DA:2495:G:C8	3.05	0.45
29:DF:102:PRO:HB2	29:DF:105:VAL:HG23	1.98	0.45
29:DF:134:GLY:CA	29:DF:166:ALA:HB2	2.38	0.45
33:DM:30:ILE:HG21	33:DM:120:LEU:HD12	1.99	0.45
33:DM:99:LEU:HD22	33:DM:99:LEU:O	2.17	0.45
34:DN:1:MET:HE3	34:DN:67:LYS:HE2	1.99	0.45
35:DO:19:VAL:HG21	35:DO:32:THR:HG23	1.99	0.45
41:D2:21:ARG:HG3	41:D2:21:ARG:NH1	2.32	0.45
44:DU:75:ILE:HA	44:DU:80:GLY:HA2	1.98	0.45
50:D4:11:PRO:HA	50:D4:25:TYR:N	2.30	0.45
50:D4:16:CYS:HB3	50:D4:20:ASN:N	2.31	0.45
51:D5:6:VAL:HG22	51:D5:7:PRO:HD2	1.98	0.45
52:D6:15:GLU:OE2	52:D6:41:PRO:HB3	2.17	0.45
1:AA:164:U:H2'	1:AA:165:C:C6	2.51	0.45
1:AA:187:C:O2	1:AA:191(A):G:C2	2.70	0.45
1:AA:281:G:H8	1:AA:281:G:OP2	2.00	0.45
1:AA:658:G:C4	1:AA:659:U:C6	3.05	0.45
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.51	0.45
1:AA:1079:G:C6	1:AA:1080:A:N6	2.85	0.45
4:AG:103:ASN:OD1	4:AG:114:ARG:NH2	2.39	0.45
17:AT:48:GLU:HB2	17:AT:50:LYS:HG2	1.99	0.45
20:AW:69:GLY:O	20:AW:73:HIS:CE1	2.70	0.45
20:AW:104:LEU:HD12	20:AW:105:SER:N	2.32	0.45
25:BA:164:U:H5"	25:BA:165:U:O2	2.16	0.45
25:BA:997:G:C2'	25:BA:998:C:H5'	2.47	0.45
25:BA:1113:U:H2'	25:BA:1114:G:C8	2.51	0.45
25:BA:2312:U:O2'	25:BA:2313:C:H5'	2.16	0.45
25:BA:2591:C:H2'	25:BA:2592:G:C8	2.52	0.45
25:BA:2631:G:C6	25:BA:2632:A:N7	2.85	0.45
25:BA:2716:U:O2'	25:BA:2717:G:H5'	2.16	0.45
26:BB:66:A:C6	26:BB:108:C:C6	3.04	0.45
27:BD:70:TRP:CZ3	27:BD:150:LYS:HA	2.52	0.45
27:BD:228:PRO:HD3	27:BD:235:GLY:CA	2.47	0.45
30:BG:112:PRO:HB3	50:B4:37:SER:H	1.80	0.45
33:BM:12:ARG:HG2	33:BM:13:TRP:N	2.31	0.45
38:BQ:58:LEU:HD23	38:BQ:58:LEU:N	2.31	0.45
38:BQ:86:ALA:O	38:BQ:87:PHE:CB	2.64	0.45
39:BR:1:MET:O	39:BR:2:ASN:C	2.60	0.45
40:B1:89:GLU:O	40:B1:89:GLU:HG3	2.15	0.45
48:BW:24:LEU:HD22	48:BW:24:LEU:O	2.17	0.45
48:BW:42:GLY:C	48:BW:44:LEU:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:411:A:H62	1:CA:413:G:N2	2.13	0.45
1:CA:433:C:O2'	1:CA:434:U:H5'	2.17	0.45
1:CA:485:G:O2'	1:CA:486:U:O5'	2.34	0.45
1:CA:502:G:H2'	1:CA:503:C:O4'	2.17	0.45
1:CA:536:C:O2	1:CA:536:C:H2'	2.16	0.45
1:CA:791:G:C5	1:CA:792:A:N7	2.84	0.45
1:CA:803:G:C6	1:CA:804:U:N3	2.85	0.45
1:CA:957:U:H2'	1:CA:959:A:OP2	2.16	0.45
1:CA:1055:A:C8	1:CA:1206:G:N2	2.85	0.45
1:CA:1058:G:H2'	1:CA:1059:C:O4'	2.17	0.45
1:CA:1321:C:H4'	13:CP:87:TYR:CZ	2.52	0.45
1:CA:1321:C:C3'	1:CA:1322:C:H5"	2.46	0.45
2:CE:69:LEU:HD23	2:CE:69:LEU:C	2.42	0.45
2:CE:102:LEU:HD12	2:CE:102:LEU:N	2.31	0.45
3:CF:64:VAL:HG22	3:CF:66:VAL:HG23	1.99	0.45
4:CG:23:GLY:O	4:CG:27:TYR:CD1	2.70	0.45
6:CI:11:ASN:OD1	6:CI:12:PRO:HD2	2.17	0.45
8:CK:38:ILE:HD12	8:CK:118:VAL:HG12	1.98	0.45
9:CL:48:GLU:HB3	9:CL:101:PHE:HE2	1.81	0.45
9:CL:95:LYS:HE2	9:CL:95:LYS:HB2	1.56	0.45
16:CS:15:PRO:O	16:CS:16:HIS:ND1	2.50	0.45
20:CW:11:SER:HA	20:CW:13:LEU:H	1.82	0.45
23:CC:12:G:C6	23:CC:13:C:C4	3.05	0.45
25:DA:372:G:O2'	25:DA:373:U:P	2.74	0.45
25:DA:444:C:C4'	29:DF:49:ALA:HB2	2.47	0.45
25:DA:848:G:C4	25:DA:933:A:C8	3.04	0.45
25:DA:1011:G:H1	25:DA:1150:C:N4	2.15	0.45
25:DA:1726:G:C6	25:DA:1727:U:C4	3.05	0.45
25:DA:1869:G:N2	25:DA:1872:A:C8	2.85	0.45
25:DA:2057:A:H2'	25:DA:2058:A:O4'	2.17	0.45
25:DA:2296:U:H4'	25:DA:2297:C:OP1	2.17	0.45
25:DA:2371:G:H4'	52:D6:45:LYS:CD	2.47	0.45
25:DA:2582:G:C2	25:DA:2583:G:C8	3.05	0.45
29:DF:25:PRO:C	29:DF:27:GLU:N	2.74	0.45
29:DF:34:TRP:CH2	35:DO:8:PRO:HB3	2.51	0.45
30:DG:73:ALA:HB2	30:DG:82:LEU:HD21	1.99	0.45
31:DH:69:ARG:NH1	31:DH:73:ALA:HB2	2.31	0.45
35:DO:15:ARG:NH1	35:DO:15:ARG:CB	2.75	0.45
35:DO:111:ARG:HG3	35:DO:128:HIS:CD2	2.51	0.45
40:D1:25:TRP:CD1	40:D1:26:GLY:N	2.85	0.45
41:D2:70:ILE:CB	41:D2:86:GLY:O	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DV:158:PRO:HB2	45:DV:159:PRO:CD	2.46	0.45
50:D4:21:VAL:HG22	50:D4:22:ILE:N	2.21	0.45
54:D8:30:ARG:C	54:D8:32:LEU:H	2.24	0.45
1:AA:791:G:C2'	1:AA:792:A:C5'	2.92	0.45
1:AA:1164:G:H2'	1:AA:1165:C:H6	1.81	0.45
1:AA:1195:C:H5"	1:AA:1196:U:O5'	2.17	0.45
1:AA:1320:C:H42	19:AV:36:ARG:HG3	1.82	0.45
1:AA:1364:U:O5'	1:AA:1364:U:H6	2.00	0.45
1:AA:1392:G:H21	1:AA:1502:A:H8	1.65	0.45
2:AE:59:GLU:HB2	2:AE:221:LEU:HD11	1.98	0.45
2:AE:160:ASP:O	2:AE:183:PRO:HD2	2.17	0.45
5:AH:152:ARG:HA	8:AK:64:LYS:HZ2	1.82	0.45
7:AJ:50:ILE:HB	7:AJ:58:PRO:HG3	1.99	0.45
13:AP:90:LEU:HA	13:AP:93:ARG:HG3	1.98	0.45
25:BA:850:C:O3'	49:BX:49:LYS:HE2	2.17	0.45
25:BA:1095:A:N3	25:BA:1095:A:C2'	2.79	0.45
25:BA:1578:U:C2'	25:BA:1579:A:H5'	2.47	0.45
25:BA:1638:C:H4'	25:BA:2710:C:O2	2.17	0.45
25:BA:2125:G:H1	25:BA:2172:U:P	2.40	0.45
25:BA:2168:G:H21	25:BA:2169:A:H3'	1.82	0.45
25:BA:2266:A:H4'	25:BA:2267:A:N3	2.32	0.45
25:BA:2309:A:C3'	25:BA:2310:A:C5'	2.95	0.45
25:BA:2392:A:H8	35:BO:60:MET:HB3	1.77	0.45
25:BA:2481:G:H2'	25:BA:2482:G:OP2	2.17	0.45
28:BE:96:PHE:O	28:BE:175:VAL:HG11	2.17	0.45
30:BG:44:GLY:C	30:BG:46:ALA:N	2.72	0.45
30:BG:83:ARG:N	30:BG:86:MET:HE2	2.08	0.45
30:BG:114:ILE:HG22	30:BG:115:ARG:O	2.17	0.45
32:BK:11:ASN:O	32:BK:12:LEU:HD22	2.17	0.45
38:BQ:56:LEU:HB2	38:BQ:58:LEU:HD21	1.99	0.45
42:BS:80:PRO:O	42:BS:100:THR:HB	2.17	0.45
45:BV:164:ALA:C	45:BV:165:VAL:CG1	2.76	0.45
47:BZ:11:ARG:HB2	47:BZ:12:PRO:HD2	1.99	0.45
54:B8:57:ARG:O	54:B8:61:LEU:HG	2.17	0.45
1:CA:1149:C:O2'	1:CA:1280:A:C2	2.67	0.45
2:CE:237:ALA:O	2:CE:238:LEU:HD23	2.17	0.45
4:CG:162:LEU:HD23	4:CG:162:LEU:HA	1.65	0.45
5:CH:103:GLY:C	5:CH:106:PRO:HD2	2.42	0.45
5:CH:147:ASP:HA	5:CH:150:ARG:CB	2.47	0.45
6:CI:100:ASN:HB2	18:CU:23:LYS:CD	2.47	0.45
10:CM:78:ASN:HB2	10:CM:81:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CT:9:VAL:HG21	17:CT:84:LEU:HD13	1.98	0.45
19:CV:51:VAL:HG23	19:CV:60:VAL:CG1	2.47	0.45
22:CB:47:C:C2	22:CB:56:G:N2	2.85	0.45
23:CD:49:C:H5"	23:CD:50:G:H5"	1.99	0.45
25:DA:389:G:H22	35:DO:72:PRO:HD3	1.82	0.45
25:DA:571:A:C5	25:DA:575:A:C8	3.04	0.45
25:DA:858:U:O2	25:DA:2268:A:H2'	2.17	0.45
25:DA:1080:A:H2'	25:DA:1081:U:C6	2.52	0.45
25:DA:1392:A:N6	25:DA:1393:A:H61	2.14	0.45
25:DA:1416:G:H2'	25:DA:1417:C:C6	2.52	0.45
25:DA:1925:C:O2'	25:DA:1926:U:H5'	2.17	0.45
25:DA:2211:G:H2'	25:DA:2211:G:N3	2.32	0.45
25:DA:2420:C:O5'	25:DA:2420:C:H6	2.00	0.45
27:DD:145:VAL:HG13	27:DD:191:ALA:HB2	1.99	0.45
30:DG:86:MET:O	30:DG:88:ILE:N	2.50	0.45
31:DH:9:ILE:HB	31:DH:49:VAL:HB	1.99	0.45
32:DK:31:LEU:N	32:DK:32:PRO:HD2	2.30	0.45
33:DM:15:LEU:HD13	33:DM:16:ILE:N	2.32	0.45
33:DM:35:ARG:HB2	33:DM:42:TRP:CZ3	2.52	0.45
35:DO:65:ARG:HE	54:D8:15:LYS:HB2	1.82	0.45
35:DO:110:TYR:HB3	35:DO:111:ARG:H	1.66	0.45
36:DP:35:VAL:CG2	36:DP:130:LYS:HE2	2.47	0.45
37:D0:37:THR:HB	37:D0:40:LYS:HE3	1.98	0.45
43:DT:53:LYS:NZ	43:DT:55:ASN:HD21	2.15	0.45
48:DW:17:SER:HB2	48:DW:18:PRO:O	2.15	0.45
48:DW:28:LYS:HE3	48:DW:56:GLN:OE1	2.17	0.45
50:D4:53:GLU:OE2	50:D4:58:ARG:HB2	2.16	0.45
1:AA:386:C:C2'	1:AA:387:U:H5'	2.47	0.44
1:AA:626:U:N3	1:AA:627:G:N7	2.65	0.44
1:AA:648:A:C6	1:AA:649:G:C5	3.05	0.44
1:AA:901:A:C5	1:AA:902:G:H1'	2.52	0.44
1:AA:909:A:H2'	1:AA:910:C:O4'	2.18	0.44
1:AA:968:A:H4'	1:AA:969:A:OP2	2.17	0.44
1:AA:1280:A:C8	10:AM:41:PRO:HD3	2.51	0.44
1:AA:1371:G:C6	1:AA:1372:U:C4	3.05	0.44
3:AF:70:VAL:CG1	3:AF:71:ALA:N	2.79	0.44
16:AS:75:ARG:NH2	16:AS:80:PHE:CD2	2.85	0.44
17:AT:65:ILE:HD12	17:AT:65:ILE:H	1.82	0.44
23:AC:1:C:H6	23:AC:1:C:H3'	1.83	0.44
23:AD:53:G:N3	23:AD:64:G:N2	2.65	0.44
25:BA:558:G:P	33:BM:111:PRO:HG2	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:649:G:C6	25:BA:650:C:N3	2.85	0.44
25:BA:1064:C:O2	25:BA:1075:C:C2	2.70	0.44
25:BA:1161:C:H4'	41:B2:8:GLY:HA2	1.99	0.44
25:BA:1299:G:H5"	25:BA:1300:U:P	2.57	0.44
25:BA:2355:C:H1'	46:B3:39:ARG:HH21	1.82	0.44
25:BA:2371:G:H4'	52:B6:45:LYS:HG3	1.98	0.44
26:BB:29:A:C2	26:BB:30:C:C2	3.05	0.44
27:BD:26:LYS:C	27:BD:27:THR:HG1	2.19	0.44
28:BE:57:LYS:O	28:BE:57:LYS:HD3	2.17	0.44
33:BM:54:VAL:HB	33:BM:122:VAL:HG22	1.99	0.44
33:BM:95:PRO:O	33:BM:96:GLU:O	2.34	0.44
34:BN:35:VAL:HG11	34:BN:103:ALA:HB2	1.98	0.44
34:BN:71:ARG:HD3	34:BN:105:GLU:OE2	2.17	0.44
35:BO:50:ARG:CG	35:BO:50:ARG:NH2	2.71	0.44
37:B0:2:ARG:HG3	37:B0:5:LYS:HZ2	1.81	0.44
38:BQ:67:ARG:NH1	38:BQ:67:ARG:CB	2.79	0.44
39:BR:107:ASP:OD1	39:BR:107:ASP:N	2.51	0.44
39:BR:124:ASP:O	39:BR:125:ARG:C	2.59	0.44
42:BS:4:LYS:HB2	42:BS:106:ILE:HG22	1.99	0.44
44:BU:96:ILE:N	44:BU:99:CYS:O	2.50	0.44
48:BW:41:ILE:HD11	48:BW:44:LEU:HD12	1.99	0.44
48:BW:53:LEU:O	48:BW:57:ILE:HG13	2.18	0.44
1:CA:412:A:O2'	1:CA:413:G:OP2	2.23	0.44
1:CA:723:U:C2'	1:CA:724:G:OP1	2.64	0.44
1:CA:1158:C:C2	1:CA:1160:G:N7	2.85	0.44
1:CA:1288:A:H1'	1:CA:1352:C:O2'	2.16	0.44
2:CE:87:ARG:NH1	2:CE:220:ASP:OD1	2.40	0.44
2:CE:166:ASP:OD1	2:CE:205:ASP:OD2	2.35	0.44
2:CE:237:ALA:O	2:CE:238:LEU:CB	2.65	0.44
3:CF:60:ALA:HA	10:CM:93:GLY:HA2	2.00	0.44
5:CH:141:GLN:HE21	5:CH:141:GLN:HB2	1.66	0.44
10:CM:56:HIS:O	10:CM:58:ASP:N	2.50	0.44
18:CU:50:ILE:HG22	18:CU:51:LEU:N	2.32	0.44
25:DA:250:G:C6	25:DA:251:A:C6	3.05	0.44
25:DA:445:C:OP1	40:D1:2:PRO:HA	2.17	0.44
25:DA:660:G:H21	35:DO:12:ALA:CA	2.22	0.44
25:DA:676:A:H2	25:DA:802:A:H61	1.63	0.44
25:DA:962:G:O2'	25:DA:963:U:H5'	2.16	0.44
25:DA:1336:A:H2'	25:DA:1337:G:C8	2.53	0.44
25:DA:1483:G:C2	25:DA:1484:G:C8	3.05	0.44
25:DA:2523:G:C2'	25:DA:2524:G:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DB:80:U:O2'	26:DB:81:G:H5"	2.18	0.44
27:DD:43:ARG:NH1	27:DD:44:ASN:HD22	2.00	0.44
28:DE:7:VAL:HG21	39:DR:1:MET:HE3	1.98	0.44
28:DE:27:LEU:CD2	39:DR:1:MET:HE3	2.45	0.44
28:DE:50:GLY:CA	28:DE:74:PRO:HG3	2.47	0.44
29:DF:31:HIS:NE2	29:DF:35:GLU:OE1	2.48	0.44
31:DH:12:PRO:HB3	31:DH:17:VAL:HG21	1.99	0.44
35:DO:58:THR:O	35:DO:58:THR:CG2	2.62	0.44
37:D0:78:LYS:O	37:D0:82:GLU:HB2	2.17	0.44
40:D1:17:ILE:HD12	40:D1:32:PHE:CE2	2.52	0.44
40:D1:92:ARG:NH1	41:D2:11:GLN:H	2.15	0.44
45:DV:4:ARG:HA	45:DV:58:VAL:HB	1.99	0.44
45:DV:10:ARG:NH2	45:DV:26:GLY:H	2.14	0.44
47:DZ:88:LYS:HB3	47:DZ:88:LYS:HE2	1.68	0.44
1:AA:68:G:C2	1:AA:69:G:C4	3.05	0.44
1:AA:428:G:H4'	1:AA:429:U:O5'	2.17	0.44
1:AA:1037:C:H2'	1:AA:1038:C:C5	2.52	0.44
1:AA:1055:A:C8	1:AA:1206:G:N2	2.85	0.44
1:AA:1179:A:C6	1:AA:1180:A:C2	3.05	0.44
1:AA:1502:A:H2	1:AA:1505:G:N1	2.13	0.44
2:AE:87:ARG:HE	2:AE:233:SER:CB	2.30	0.44
2:AE:165:VAL:O	2:AE:187:LEU:O	2.35	0.44
4:AG:173:TRP:CD2	4:AG:189:PRO:HB3	2.52	0.44
5:AH:71:LEU:HD11	5:AH:114:GLY:HA3	1.98	0.44
8:AK:49:GLU:O	8:AK:51:VAL:HG13	2.17	0.44
16:AS:53:VAL:HG12	16:AS:79:VAL:HG22	1.99	0.44
23:AD:8:U:C2	23:AD:15:G:O6	2.70	0.44
25:BA:635:C:O2'	25:BA:639:U:OP1	2.30	0.44
25:BA:782:A:H5'	25:BA:783:A:C2	2.52	0.44
25:BA:890:A:H2'	25:BA:892:G:O4'	2.17	0.44
25:BA:1043:C:H2'	25:BA:1044:G:H5'	1.98	0.44
25:BA:1049:C:C2'	25:BA:1050:A:H5'	2.40	0.44
25:BA:1528:A:N1	25:BA:1543:A:C2	2.85	0.44
25:BA:1784:A:H4'	25:BA:1785:A:O5'	2.17	0.44
25:BA:2732:G:H3'	25:BA:2733:A:O4'	2.17	0.44
27:BD:10:THR:OG1	27:BD:13:ARG:HB2	2.17	0.44
27:BD:33:LEU:CD1	27:BD:34:VAL:H	2.30	0.44
27:BD:221:VAL:HG22	27:BD:226:MET:CE	2.47	0.44
28:BE:35:GLN:CD	28:BE:37:ARG:HH12	2.23	0.44
28:BE:84:PHE:CZ	28:BE:86:PRO:HB3	2.52	0.44
29:BF:182:ASN:HD21	29:BF:185:ASP:CG	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:4:ILE:HD11	32:BK:44:LEU:HD12	1.99	0.44
33:BM:107:LEU:HD12	33:BM:117:PHE:HB2	1.99	0.44
33:BM:115:ARG:O	33:BM:116:LEU:C	2.60	0.44
35:BO:3:LEU:HD23	35:BO:3:LEU:HA	1.74	0.44
40:B1:34:LYS:HA	40:B1:34:LYS:HE3	1.99	0.44
40:B1:66:ASN:CB	40:B1:76:TYR:HB2	2.42	0.44
41:B2:22:VAL:CG1	41:B2:23:GLU:N	2.80	0.44
43:BT:84:ALA:HB1	43:BT:85:PRO:CD	2.38	0.44
45:BV:140:ASP:OD1	45:BV:156:LYS:NZ	2.50	0.44
47:BZ:7:ILE:HD12	47:BZ:62:VAL:HG11	1.98	0.44
52:B6:14:THR:HG21	52:B6:19:ARG:HH21	1.83	0.44
54:B8:31:HIS:O	54:B8:32:LEU:C	2.61	0.44
1:CA:134:A:H61	16:CS:25:ARG:NH1	2.15	0.44
1:CA:527:G:O2'	1:CA:535:A:N1	2.47	0.44
1:CA:585:G:C6	1:CA:586:C:C4	3.06	0.44
1:CA:616:G:C2	1:CA:617:G:C8	3.04	0.44
1:CA:649:G:O2'	1:CA:650:G:H5'	2.16	0.44
1:CA:718:G:O6	18:CU:74:ARG:NH1	2.50	0.44
1:CA:793:U:C6	1:CA:1516:G:O2'	2.71	0.44
1:CA:978:A:H8	1:CA:978:A:OP1	2.00	0.44
1:CA:1204:A:P	14:CQ:3:ARG:HH12	2.40	0.44
2:CE:85:ALA:HB3	2:CE:92:TYR:CD1	2.51	0.44
2:CE:120:ALA:O	2:CE:124:SER:OG	2.33	0.44
3:CF:15:THR:HG21	3:CF:181:ASN:HA	1.99	0.44
3:CF:52:LEU:H	3:CF:52:LEU:HD23	1.82	0.44
3:CF:164:ARG:HG2	3:CF:165:THR:N	2.30	0.44
4:CG:162:LEU:HD22	4:CG:178:VAL:HG13	1.99	0.44
9:CL:114:TYR:C	9:CL:114:TYR:CD2	2.96	0.44
11:CN:17:GLY:O	11:CN:80:VAL:HA	2.17	0.44
13:CP:92:HIS:CE1	13:CP:98:VAL:HG21	2.52	0.44
13:CP:117:VAL:O	13:CP:117:VAL:HG12	2.17	0.44
14:CQ:43:CYS:HA	14:CQ:46:GLU:HB2	1.98	0.44
23:CD:6:G:O2'	23:CD:7:G:H5'	2.18	0.44
25:DA:323:G:O2'	25:DA:1205:U:N3	2.37	0.44
25:DA:566:U:H5"	35:DO:29:LYS:HE2	1.99	0.44
25:DA:637:A:H5"	35:DO:117:GLU:HG3	1.98	0.44
25:DA:1021:A:C2	25:DA:1023:U:C2	3.06	0.44
25:DA:1110:G:O2'	25:DA:1111:A:O4'	2.35	0.44
25:DA:1771:C:H1'	25:DA:1786:A:H8	1.72	0.44
25:DA:2271:G:C6	25:DA:2272:U:C4	3.05	0.44
25:DA:2505:G:O2'	25:DA:2506:U:C6	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DB:8:U:O2'	38:DQ:40:ILE:HD13	2.18	0.44
26:DB:44:G:OP1	30:DG:98:ARG:NH2	2.42	0.44
30:DG:111:LEU:HD13	30:DG:120:LEU:HD21	1.99	0.44
31:DH:4:ILE:CG1	31:DH:6:ARG:HG2	2.45	0.44
31:DH:149:ARG:CG	31:DH:162:ILE:O	2.64	0.44
33:DM:46:VAL:O	33:DM:47:ALA:HB3	2.17	0.44
35:DO:41:ARG:N	35:DO:41:ARG:HD2	2.32	0.44
36:DP:135:ASP:OD1	36:DP:137:TYR:CD2	2.66	0.44
39:DR:90:GLN:NE2	39:DR:121:ILE:HD11	2.33	0.44
40:D1:102:GLU:O	40:D1:105:VAL:HG23	2.16	0.44
44:DU:24:VAL:HG12	44:DU:25:GLY:N	2.32	0.44
44:DU:83:THR:HG23	44:DU:94:LYS:HG2	1.99	0.44
46:D3:36:ILE:CD1	46:D3:36:ILE:H	2.30	0.44
48:DW:15:LYS:HE2	48:DW:67:LYS:CE	2.47	0.44
51:D5:4:HIS:CB	51:D5:5:PRO:HD2	2.35	0.44
1:AA:167:G:H2'	1:AA:168:G:H5'	1.99	0.44
1:AA:310:G:OP2	16:AS:27:LYS:NZ	2.42	0.44
1:AA:686:U:O2'	1:AA:687:A:C5'	2.65	0.44
1:AA:760:G:O2'	17:AT:98:LEU:HD23	2.16	0.44
1:AA:864:A:H5"	1:AA:865:A:OP2	2.17	0.44
1:AA:926:G:H5"	1:AA:927:G:O5'	2.18	0.44
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.53	0.44
1:AA:1260:C:O5'	1:AA:1284:C:H4'	2.17	0.44
8:AK:15:ASN:O	8:AK:19:VAL:HG22	2.17	0.44
11:AN:99:GLN:HG2	11:AN:105:VAL:CG2	2.48	0.44
16:AS:26:ARG:HD2	16:AS:31:LYS:O	2.17	0.44
20:AW:33:ILE:CG2	20:AW:63:ILE:HG12	2.47	0.44
20:AW:42:GLN:O	20:AW:46:GLU:HG2	2.18	0.44
25:BA:142:G:C1'	43:BT:37:THR:HG21	2.47	0.44
25:BA:445:C:C2'	25:BA:446:G:H5'	2.48	0.44
25:BA:580:C:O2'	25:BA:581:C:H5'	2.18	0.44
25:BA:639:U:C2'	25:BA:640:C:H5'	2.47	0.44
25:BA:991:C:C5	25:BA:1185:C:N4	2.85	0.44
25:BA:1264:G:H5'	51:B5:11:THR:HG23	1.96	0.44
25:BA:1299:G:H3'	25:BA:1639:U:O4	2.18	0.44
25:BA:1510:A:H2'	25:BA:1510:A:N3	2.33	0.44
25:BA:1558:A:H1'	25:BA:1559:G:OP2	2.17	0.44
25:BA:1699:G:H4'	25:BA:1700:A:OP2	2.17	0.44
25:BA:1899:G:O2'	25:BA:1900:A:O5'	2.31	0.44
25:BA:2086:U:H2'	25:BA:2087:G:C8	2.52	0.44
25:BA:2156:G:C2	25:BA:2157:G:N2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2168:G:C2	25:BA:2170:A:OP2	2.70	0.44
25:BA:2250:G:C5	36:BP:82:ARG:CD	3.00	0.44
25:BA:2746:U:H2'	25:BA:2747:G:H5'	1.98	0.44
26:BB:43:C:P	30:BG:67:LYS:NZ	2.90	0.44
27:BD:28:GLU:O	27:BD:29:PRO:O	2.35	0.44
27:BD:85:ASP:HB2	27:BD:92:ILE:HD13	2.00	0.44
27:BD:147:LEU:HD13	27:BD:155:LEU:HD21	1.99	0.44
28:BE:1:MET:HB3	28:BE:200:GLU:CD	2.41	0.44
28:BE:7:VAL:CG2	39:BR:1:MET:HE3	2.47	0.44
28:BE:26:ILE:HD11	28:BE:198:VAL:CG2	2.38	0.44
45:BV:107:THR:HB	45:BV:108:PRO:CD	2.46	0.44
46:B3:11:ARG:HB2	46:B3:11:ARG:HH11	1.83	0.44
51:B5:56:LYS:HD2	51:B5:56:LYS:N	2.25	0.44
52:B6:24:GLU:HG3	52:B6:25:LYS:N	2.31	0.44
1:CA:373:A:C4	1:CA:374:A:C8	3.06	0.44
1:CA:411:A:C2	1:CA:431:A:N6	2.85	0.44
1:CA:1153:C:N3	1:CA:1154:G:C8	2.85	0.44
1:CA:1302:U:P	13:CP:13:LYS:HZ1	2.40	0.44
2:CE:167:PRO:HG2	2:CE:192:SER:OG	2.17	0.44
12:CO:53:ARG:HH12	12:CO:92:ASP:HB3	1.81	0.44
18:CU:22:VAL:CG1	18:CU:56:THR:HA	2.44	0.44
20:CW:80:ARG:O	20:CW:84:LEU:HB2	2.18	0.44
25:DA:1075:C:H2'	25:DA:1076:C:H6	1.81	0.44
25:DA:1229:G:N2	25:DA:1229(A):G:H1'	2.33	0.44
25:DA:1404:C:O2	25:DA:1404:C:C2'	2.65	0.44
25:DA:1416:G:C2'	25:DA:1417:C:C6	3.01	0.44
25:DA:1443:G:H5"	25:DA:1443:G:H8	1.81	0.44
25:DA:1652:A:H2'	25:DA:1653:G:H5'	1.98	0.44
25:DA:1797:C:H4'	27:DD:257:LEU:O	2.18	0.44
25:DA:1864:U:C3'	25:DA:1869:G:H5"	2.46	0.44
25:DA:2107:C:H42	25:DA:2182:G:H1	1.65	0.44
25:DA:2198:A:C2	32:DK:29:TYR:HB2	2.53	0.44
27:DD:27:THR:HG23	27:DD:28:GLU:N	2.32	0.44
32:DK:85:GLU:O	32:DK:85:GLU:HG2	2.18	0.44
36:DP:41:TRP:HZ3	36:DP:74:TYR:HE1	1.66	0.44
39:DR:51:ARG:CG	39:DR:98:LYS:HG3	2.47	0.44
41:D2:20:LEU:O	41:D2:93:GLU:HA	2.17	0.44
41:D2:72:VAL:O	41:D2:72:VAL:HG12	2.16	0.44
44:DU:84:ARG:O	44:DU:85:VAL:C	2.59	0.44
45:DV:150:LEU:O	45:DV:170:THR:O	2.35	0.44
48:DW:68:ARG:HH11	48:DW:68:ARG:HG3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:D6:41:PRO:HD3	52:D6:47:THR:HG22	1.99	0.44
1:AA:218:C:O2'	1:AA:219:C:H5'	2.17	0.44
1:AA:742:G:H5"	15:AR:58:MET:HE1	2.00	0.44
1:AA:1098:C:C2	1:AA:1099:G:C8	3.05	0.44
1:AA:1160:G:C6	1:AA:1181:G:O6	2.69	0.44
1:AA:1202:G:C2	14:AQ:42:ILE:HG21	2.52	0.44
3:AF:34:LEU:CD2	3:AF:38:ARG:HH11	2.29	0.44
10:AM:8:LEU:CD2	10:AM:96:ILE:HG22	2.47	0.44
10:AM:25:GLU:H	10:AM:25:GLU:HG2	1.64	0.44
16:AS:34:GLU:HG2	16:AS:35:LYS:N	2.32	0.44
25:BA:229:A:O2'	25:BA:230:U:P	2.75	0.44
25:BA:631:A:H2'	25:BA:632:A:O4'	2.17	0.44
25:BA:1021:A:H3'	25:BA:1021:A:C8	2.53	0.44
25:BA:1464:C:O2'	25:BA:1528:A:C8	2.66	0.44
25:BA:1564:C:O2'	25:BA:1565:C:H5'	2.17	0.44
25:BA:1844:C:H5"	27:BD:258:LYS:HG3	1.98	0.44
25:BA:2468:G:O2'	25:BA:2469:A:OP2	2.30	0.44
25:BA:2470:G:H8	25:BA:2470:G:O5'	2.00	0.44
26:BB:94:C:O2'	26:BB:95:U:H5'	2.17	0.44
28:BE:3:GLY:O	28:BE:4:ILE:HB	2.17	0.44
30:BG:45:GLU:H	30:BG:45:GLU:HG2	1.50	0.44
34:BN:106:LEU:HA	34:BN:106:LEU:HD23	1.63	0.44
35:BO:88:LEU:HD23	35:BO:88:LEU:C	2.43	0.44
42:BS:45:TYR:CE2	42:BS:49:LYS:HD2	2.51	0.44
44:BU:81:LYS:HG2	44:BU:97:ARG:HD3	1.99	0.44
46:B3:23:VAL:HG13	46:B3:38:VAL:CG2	2.47	0.44
1:CA:197:A:H8	1:CA:198:G:C1'	2.30	0.44
1:CA:448:A:C4	1:CA:487:A:C2	3.05	0.44
1:CA:719:C:N4	18:CU:71:LYS:HE2	2.32	0.44
1:CA:775:G:H2'	1:CA:776:G:O4'	2.17	0.44
1:CA:961:U:OP2	1:CA:1223:C:O2'	2.17	0.44
1:CA:1028(B):C:N4	1:CA:1032(B):G:N1	2.65	0.44
1:CA:1129:C:N4	1:CA:1139:G:N2	2.66	0.44
1:CA:1130:A:O5'	1:CA:1131:G:OP2	2.35	0.44
2:CE:164:VAL:O	2:CE:186:ALA:HB1	2.17	0.44
3:CF:73:PRO:HA	3:CF:76:VAL:HG22	1.99	0.44
5:CH:94:ALA:HB1	5:CH:98:THR:OG1	2.17	0.44
8:CK:49:GLU:O	8:CK:51:VAL:HG13	2.18	0.44
10:CM:4:ILE:HB	10:CM:74:ILE:HG13	1.99	0.44
13:CP:81:LEU:HD22	13:CP:88:ARG:NH1	2.33	0.44
18:CU:58:LEU:HD12	18:CU:58:LEU:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CB:22:G:C8	22:CB:22:G:H3'	2.53	0.44
25:DA:57:C:H2'	25:DA:58:G:O5'	2.17	0.44
25:DA:84:A:P	44:DU:8:LYS:HD3	2.58	0.44
25:DA:686:G:O6	53:D7:12:ARG:HG3	2.17	0.44
25:DA:1060:U:N3	25:DA:1088:A:C8	2.85	0.44
25:DA:1109:C:C5	25:DA:1110:G:C6	3.06	0.44
25:DA:1301:A:H2'	25:DA:1301:A:N3	2.33	0.44
25:DA:1359:A:H2'	25:DA:1360:A:H5'	2.00	0.44
25:DA:1542:G:H5"	25:DA:1543:A:O5'	2.17	0.44
25:DA:2548:G:H2'	25:DA:2549:G:O5'	2.18	0.44
25:DA:2881:C:C4	25:DA:2882:A:N7	2.86	0.44
27:DD:96:HIS:CE1	27:DD:102:LYS:HE2	2.53	0.44
29:DF:64:ILE:HD11	29:DF:83:PHE:HZ	1.82	0.44
29:DF:132:VAL:HG22	29:DF:133:ASN:N	2.24	0.44
29:DF:162:LEU:HD12	29:DF:162:LEU:N	2.33	0.44
30:DG:137:GLU:HB3	30:DG:152:LEU:HD22	1.99	0.44
32:DK:54:GLN:HE21	32:DK:54:GLN:HB2	1.52	0.44
34:DN:23:ARG:HG3	34:DN:24:VAL:N	2.32	0.44
35:DO:125:VAL:O	35:DO:125:VAL:HG22	2.17	0.44
38:DQ:19:LYS:O	38:DQ:20:ARG:HB3	2.17	0.44
40:D1:50:ARG:NH1	41:D2:72:VAL:HG22	2.32	0.44
40:D1:62:ILE:HG13	40:D1:76:TYR:CZ	2.52	0.44
44:DU:81:LYS:HD3	44:DU:97:ARG:NH2	2.31	0.44
53:D7:8:ASN:HD21	53:D7:11:LYS:H	1.51	0.44
1:AA:575:G:H4'	1:AA:576:G:OP1	2.17	0.44
1:AA:659:U:O2'	1:AA:660:G:H5'	2.17	0.44
1:AA:723:U:H5'	1:AA:724:G:OP2	2.17	0.44
1:AA:1111:A:N1	3:AF:177:THR:HG23	2.32	0.44
1:AA:1160:G:C2	1:AA:1177:G:N2	2.82	0.44
1:AA:1301:U:C3'	1:AA:1302:U:H5'	2.46	0.44
1:AA:1331:G:OP2	13:AP:23:TYR:HD2	2.01	0.44
4:AG:111:ALA:HB2	4:AG:120:LEU:CD1	2.45	0.44
7:AJ:15:ASP:OD2	7:AJ:16:LEU:N	2.51	0.44
7:AJ:17:VAL:HG12	7:AJ:18:TYR:CD1	2.52	0.44
9:AL:16:ARG:NH2	9:AL:64:THR:HG21	2.33	0.44
9:AL:17:VAL:HG11	9:AL:81:ILE:HD13	2.00	0.44
13:AP:8:GLU:OE1	13:AP:67:GLU:HG3	2.18	0.44
23:AC:17:C:C2'	23:AC:17:C:O2	2.64	0.44
25:BA:130:C:O3'	25:BA:1349:A:H1'	2.18	0.44
25:BA:529:A:H8	25:BA:530:G:O6	2.00	0.44
25:BA:643:A:H2'	25:BA:644:A:O5'	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:657:U:H2'	25:BA:658:C:C6	2.52	0.44
25:BA:1047:G:H2'	25:BA:1110:G:H1	1.82	0.44
25:BA:1060:U:H3	25:BA:1088:A:H8	1.66	0.44
25:BA:1847:A:H8	25:BA:1847:A:OP1	2.00	0.44
25:BA:2108:C:H2'	25:BA:2109:U:O4'	2.18	0.44
25:BA:2194:G:H2'	25:BA:2195:C:C6	2.53	0.44
25:BA:2751:G:C6	31:BH:3:ARG:HB3	2.53	0.44
25:BA:2801:A:OP1	25:BA:2895:U:O2'	2.36	0.44
25:BA:2850:A:H5'	25:BA:2868:A:H2	1.80	0.44
27:BD:30:GLU:CG	27:BD:63:ARG:HH21	2.30	0.44
27:BD:228:PRO:HD3	27:BD:235:GLY:N	2.31	0.44
28:BE:197:ILE:HD11	28:BE:199:ARG:HE	1.83	0.44
33:BM:4:TYR:O	40:B1:64:ARG:NH1	2.51	0.44
33:BM:35:ARG:HB3	33:BM:116:LEU:CD1	2.47	0.44
39:BR:53:ARG:O	39:BR:59:THR:CB	2.66	0.44
42:BS:78:GLU:OE1	42:BS:99:ARG:HG2	2.17	0.44
43:BT:84:ALA:HB3	43:BT:87:GLN:HE22	1.80	0.44
46:B3:31:VAL:CG1	46:B3:67:VAL:HG23	2.47	0.44
47:BZ:94:LEU:HD23	47:BZ:94:LEU:HA	1.78	0.44
54:B8:36:LYS:CB	54:B8:40:GLU:CG	2.88	0.44
1:CA:408:A:C2	1:CA:409:G:C4	3.05	0.44
1:CA:505:G:C6	1:CA:535:A:C2	3.04	0.44
1:CA:526:C:OP2	12:CO:91:LYS:HE2	2.17	0.44
1:CA:584:G:OP1	17:CT:91:ARG:NH1	2.50	0.44
1:CA:785:G:N2	1:CA:798:G:C4	2.86	0.44
1:CA:1023:G:C6	1:CA:1024:G:N7	2.86	0.44
1:CA:1129:C:N3	1:CA:1139:G:N1	2.66	0.44
1:CA:1165:C:H42	1:CA:1171:G:H1	1.64	0.44
1:CA:1238:A:C8	1:CA:1303:C:H1'	2.52	0.44
1:CA:1480:G:C4	1:CA:1481:U:C6	3.06	0.44
1:CA:1502:A:H2	1:CA:1505:G:N1	2.09	0.44
3:CF:71:ALA:HA	3:CF:106:VAL:HB	1.99	0.44
10:CM:99:LYS:CD	10:CM:100:THR:H	2.31	0.44
12:CO:60:LEU:HD12	12:CO:60:LEU:HA	1.86	0.44
13:CP:39:ILE:CD1	13:CP:56:LEU:HG	2.47	0.44
16:CS:40:ASP:O	16:CS:48:TRP:HB2	2.18	0.44
23:CD:77:A:C2	25:DA:2421:G:C6	3.06	0.44
25:DA:872:A:C6	25:DA:906:G:C2	3.05	0.44
25:DA:997:G:C2	25:DA:998:C:C6	3.05	0.44
25:DA:1057:A:H61	25:DA:1080:A:N6	2.16	0.44
25:DA:1171:G:C8	25:DA:1173:G:N3	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1432:C:H2'	25:DA:1433:U:O4'	2.18	0.44
25:DA:1658:C:H2'	25:DA:1659:U:C6	2.52	0.44
25:DA:1771:C:O2'	25:DA:1786:A:H8	2.01	0.44
25:DA:1810:A:C2'	25:DA:1811:G:H5'	2.46	0.44
25:DA:2286:A:C8	25:DA:2287:A:N6	2.86	0.44
25:DA:2893:G:H8	25:DA:2893:G:OP2	2.00	0.44
27:DD:33:LEU:HD23	27:DD:34:VAL:H	1.83	0.44
29:DF:205:ARG:HB2	29:DF:205:ARG:NH1	2.33	0.44
30:DG:117:PHE:HE1	30:DG:119:GLY:HA2	1.83	0.44
34:DN:1:MET:HE3	34:DN:67:LYS:HG2	2.00	0.44
34:DN:66:LYS:HA	34:DN:79:PHE:O	2.17	0.44
36:DP:47:ILE:HG22	36:DP:48:GLU:N	2.33	0.44
42:DS:4:LYS:HE3	42:DS:6:ILE:HD11	2.00	0.44
44:DU:43:ASN:N	44:DU:43:ASN:ND2	2.64	0.44
45:DV:72:ARG:HA	45:DV:72:ARG:HD2	1.83	0.44
46:D3:36:ILE:HD13	46:D3:36:ILE:C	2.37	0.44
48:DW:43:GLN:O	48:DW:44:LEU:HD23	2.17	0.44
1:AA:104:G:C2	1:AA:105:G:C8	3.05	0.44
1:AA:658:G:O2'	1:AA:659:U:H5'	2.18	0.44
1:AA:703:G:H4'	1:AA:704:A:O5'	2.16	0.44
1:AA:819:A:C4'	1:AA:820:U:OP2	2.60	0.44
1:AA:1206:G:C5	1:AA:1207:G:N7	2.85	0.44
2:AE:178:ARG:HH11	2:AE:178:ARG:CG	2.31	0.44
3:AF:84:ILE:HG13	3:AF:101:LEU:HD22	1.99	0.44
6:AI:12:PRO:HG3	6:AI:57:GLN:O	2.18	0.44
7:AJ:16:LEU:HD11	9:AL:45:ALA:HB2	2.00	0.44
9:AL:118:LYS:O	9:AL:119:ALA:CB	2.64	0.44
16:AS:59:TRP:O	16:AS:64:ALA:CB	2.66	0.44
20:AW:55:ILE:HD13	20:AW:55:ILE:HA	1.89	0.44
25:BA:453:C:H4'	25:BA:472:A:N6	2.33	0.44
25:BA:775:G:C4	25:BA:794:G:C8	3.06	0.44
25:BA:892:G:H2'	25:BA:893:C:C6	2.52	0.44
25:BA:1078:U:H3'	25:BA:1078:U:H6	1.83	0.44
25:BA:1124:C:H2'	25:BA:1125:G:O4'	2.18	0.44
25:BA:1337:G:H2'	25:BA:1338:G:H8	1.81	0.44
25:BA:1443:G:C2	25:BA:1549:C:C2	3.06	0.44
25:BA:1639:U:O2'	25:BA:1640:C:H5"	2.18	0.44
25:BA:2602:A:H4'	25:BA:2603:G:C5'	2.47	0.44
26:BB:35:U:H2'	26:BB:36:C:C6	2.53	0.44
26:BB:71:C:C4	26:BB:72:G:N7	2.86	0.44
27:BD:35:LYS:NZ	27:BD:64:ILE:C	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:77:ALA:CB	27:BD:97:TYR:HA	2.48	0.44
28:BE:11:MET:HG2	28:BE:24:THR:HA	1.99	0.44
30:BG:99:MET:HG3	30:BG:100:TRP:N	2.31	0.44
32:BK:63:ALA:HA	32:BK:66:GLU:HG2	1.98	0.44
32:BK:130:TYR:CG	32:BK:131:LYS:N	2.86	0.44
33:BM:42:TRP:CD1	40:B1:63:VAL:CG1	3.00	0.44
36:BP:88:GLY:O	36:BP:89:ASN:C	2.57	0.44
38:BQ:106:ARG:HB2	38:BQ:106:ARG:CZ	2.48	0.44
39:BR:88:ILE:O	39:BR:88:ILE:HG13	2.18	0.44
40:B1:57:PHE:O	40:B1:58:ARG:C	2.60	0.44
40:B1:61:TRP:CD2	40:B1:94:ASN:HA	2.53	0.44
41:B2:72:VAL:O	41:B2:72:VAL:HG22	2.17	0.44
43:BT:57:LEU:HD13	43:BT:57:LEU:O	2.18	0.44
46:B3:43:THR:O	46:B3:43:THR:HG23	2.18	0.44
52:B6:26:ASN:OD1	52:B6:26:ASN:C	2.61	0.44
1:CA:29:G:O2'	1:CA:295:C:H4'	2.18	0.44
1:CA:197:A:C8	1:CA:198:G:H1'	2.53	0.44
1:CA:287:U:O2'	1:CA:288:A:H5'	2.17	0.44
1:CA:292:G:N7	1:CA:293:G:H1'	2.33	0.44
1:CA:448:A:H2'	1:CA:449:C:O2	2.17	0.44
1:CA:501:C:H2'	1:CA:502:G:C8	2.51	0.44
1:CA:736:C:H2'	1:CA:737:A:H8	1.81	0.44
1:CA:892:A:H2'	1:CA:893:C:C6	2.53	0.44
1:CA:1203:C:O5'	1:CA:1203:C:H6	2.01	0.44
1:CA:1305:G:OP2	1:CA:1305:G:C8	2.71	0.44
1:CA:1378:C:H5	1:CA:1379:G:C8	2.36	0.44
2:CE:108:ILE:HG22	2:CE:108:ILE:O	2.18	0.44
4:CG:18:LYS:HD2	4:CG:20:TYR:CZ	2.53	0.44
4:CG:39:PRO:O	4:CG:44:GLY:HA3	2.17	0.44
5:CH:50:GLU:HA	5:CH:50:GLU:OE2	2.15	0.44
13:CP:65:LYS:HB3	50:D4:49:PHE:HD1	1.82	0.44
25:DA:65:C:O2'	43:DT:69:TYR:CD2	2.69	0.44
25:DA:405:U:H2'	25:DA:405:U:O2	2.17	0.44
25:DA:1070:A:C8	25:DA:1096:A:O2'	2.61	0.44
25:DA:1323:U:C2'	25:DA:1324:G:H5'	2.47	0.44
25:DA:1466:G:H5'	25:DA:1467:C:OP1	2.17	0.44
25:DA:1475:G:C2	25:DA:1519:G:C2	3.06	0.44
25:DA:1582:C:O2'	25:DA:1586:A:H8	2.00	0.44
25:DA:2287:A:C2	25:DA:2289:G:C8	3.05	0.44
25:DA:2300:G:N2	25:DA:2317:C:O2	2.51	0.44
25:DA:2847:U:C3'	25:DA:2848:G:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2859:G:H3'	25:DA:2859:G:H8	1.83	0.44
26:DB:38:C:O4'	38:DQ:95:HIS:CE1	2.71	0.44
27:DD:28:GLU:OE2	27:DD:29:PRO:HD2	2.17	0.44
30:DG:43:LEU:HD12	30:DG:45:GLU:CG	2.48	0.44
30:DG:128:ARG:HD3	30:DG:128:ARG:HA	1.84	0.44
31:DH:102:ALA:CB	31:DH:116:GLU:HA	2.47	0.44
44:DU:49:VAL:HG12	44:DU:50:ARG:H	1.82	0.44
46:D3:69:PHE:CE2	46:D3:79:VAL:HG22	2.52	0.44
51:D5:46:CYS:HB3	51:D5:49:CYS:SG	2.58	0.44
52:D6:31:PRO:O	52:D6:32:ASN:CB	2.65	0.44
1:AA:64:G:H4'	1:AA:65:U:H5'	2.00	0.44
1:AA:587:G:N2	1:AA:755:G:C5	2.86	0.44
1:AA:724:G:C2'	1:AA:725:G:H5'	2.47	0.44
1:AA:827:U:C4	1:AA:870:U:C4	3.06	0.44
1:AA:856:C:C2'	1:AA:857:C:H5'	2.47	0.44
1:AA:914:A:C6	1:AA:915:A:C5	3.06	0.44
1:AA:1092:A:C6	1:AA:1093:A:C6	3.05	0.44
1:AA:1176:A:N1	1:AA:1177:G:C2	2.86	0.44
1:AA:1378:C:H1'	7:AJ:76:ARG:HH12	1.83	0.44
9:AL:83:ARG:CA	9:AL:86:VAL:HG12	2.47	0.44
11:AN:74:ALA:C	11:AN:76:GLY:H	2.26	0.44
12:AO:46:LYS:HG3	12:AO:47:LYS:H	1.83	0.44
15:AR:47:LYS:HE2	15:AR:47:LYS:HB3	1.79	0.44
16:AS:21:VAL:O	16:AS:33:ILE:N	2.44	0.44
23:AC:50:G:N2	23:AC:67:C:C2	2.86	0.44
23:AD:8:U:O5'	23:AD:8:U:H6	2.01	0.44
25:BA:1355:G:H8	25:BA:1355:G:O5'	2.01	0.44
25:BA:2115:G:N1	25:BA:2117:A:C8	2.86	0.44
25:BA:2138:C:N3	25:BA:2154:G:N2	2.65	0.44
25:BA:2219:G:H2'	25:BA:2224:G:H5'	1.99	0.44
25:BA:2323:G:H2'	25:BA:2324:C:O4'	2.18	0.44
25:BA:2348:U:O4	25:BA:2382:G:N1	2.51	0.44
25:BA:2468:G:H22	25:BA:2481:G:H2'	1.83	0.44
25:BA:2633:G:H5'	25:BA:2811:G:O2'	2.17	0.44
25:BA:2656:U:O2	25:BA:2656:U:H2'	2.18	0.44
27:BD:149:PRO:O	27:BD:150:LYS:HB2	2.18	0.44
28:BE:59:VAL:O	28:BE:59:VAL:HG13	2.16	0.44
29:BF:9:ILE:HD11	29:BF:125:LEU:CD1	2.48	0.44
33:BM:78:TYR:N	33:BM:78:TYR:CD1	2.86	0.44
44:BU:49:VAL:O	44:BU:51:VAL:N	2.51	0.44
45:BV:136:PHE:C	45:BV:136:PHE:CD1	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BV:143:GLY:HA3	45:BV:144:LEU:CG	2.48	0.44
46:B3:12:ASN:HA	46:B3:14:ARG:HH21	1.82	0.44
51:B5:40:LYS:HB2	51:B5:46:CYS:SG	2.57	0.44
52:B6:33:LYS:HD3	52:B6:33:LYS:HA	1.69	0.44
1:CA:167:G:O2'	1:CA:168:G:H5'	2.18	0.44
1:CA:587:G:N2	1:CA:754:C:OP2	2.50	0.44
1:CA:864:A:H2	1:CA:917:G:N3	2.16	0.44
1:CA:977:A:N3	1:CA:977:A:H2'	2.31	0.44
1:CA:980:C:H3'	1:CA:981:U:O4'	2.18	0.44
1:CA:1061:G:C1'	10:CM:56:HIS:CE1	3.00	0.44
1:CA:1176:A:H2'	1:CA:1177:G:O4'	2.18	0.44
1:CA:1489:G:H2'	1:CA:1490:C:O4'	2.17	0.44
2:CE:16:HIS:HB2	2:CE:210:SER:HB2	2.00	0.44
2:CE:128:GLU:O	2:CE:129:GLU:HB2	2.18	0.44
6:CI:14:LEU:O	6:CI:14:LEU:HD23	2.16	0.44
7:CJ:23:VAL:HG13	7:CJ:43:PHE:CE2	2.52	0.44
7:CJ:38:LEU:O	7:CJ:42:ILE:HG13	2.18	0.44
8:CK:61:VAL:HG12	8:CK:63:LEU:CD1	2.47	0.44
9:CL:55:ALA:O	9:CL:56:LEU:C	2.59	0.44
9:CL:89:ASN:ND2	9:CL:89:ASN:N	2.66	0.44
9:CL:92:TYR:HA	9:CL:95:LYS:HG3	1.99	0.44
25:DA:1021:A:C6	25:DA:1023:U:C5	3.05	0.44
25:DA:1152:C:O2'	25:DA:1153:C:H5'	2.16	0.44
25:DA:1638:C:H2'	25:DA:1639:U:O5'	2.18	0.44
25:DA:1832:C:N4	25:DA:1833:U:C4	2.86	0.44
25:DA:2149:G:C6	25:DA:2150:U:C4	3.06	0.44
25:DA:2196:C:O2'	25:DA:2197:U:H5'	2.17	0.44
25:DA:2219:G:H2'	25:DA:2224:G:C5'	2.46	0.44
25:DA:2309:A:O5'	25:DA:2310:A:OP2	2.36	0.44
25:DA:2386:C:H4'	46:D3:55:ARG:O	2.18	0.44
25:DA:2530:A:C8	31:DH:157:TYR:OH	2.71	0.44
25:DA:2864:G:C6	25:DA:2865:U:N3	2.86	0.44
27:DD:34:VAL:HG22	27:DD:35:LYS:HG3	1.99	0.44
28:DE:25:VAL:CG1	28:DE:26:ILE:H	2.23	0.44
29:DF:78:ILE:C	29:DF:80:ALA:H	2.26	0.44
35:DO:128:HIS:O	35:DO:147:LEU:HB3	2.16	0.44
38:DQ:110:LEU:HD22	38:DQ:112:PHE:H	1.82	0.44
39:DR:78:LEU:HD23	39:DR:78:LEU:C	2.43	0.44
40:D1:91:ASP:CG	40:D1:96:ALA:HB2	2.38	0.44
54:D8:52:LYS:C	54:D8:54:GLU:N	2.76	0.44
1:AA:90:C:C5	1:AA:91:C:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:380:G:N2	1:AA:384:G:C5	2.86	0.44
1:AA:383:A:H8	1:AA:383:A:O5'	2.00	0.44
1:AA:600:C:O2	1:AA:600:C:H2'	2.17	0.44
1:AA:725:G:C2	1:AA:726:C:C6	3.05	0.44
1:AA:741:G:H2'	1:AA:742:G:O4'	2.18	0.44
1:AA:960:U:O2	1:AA:960:U:C2'	2.66	0.44
1:AA:1026:G:O6	1:AA:1036:G:C2	2.71	0.44
1:AA:1245:A:C2	1:AA:1293:G:C2	3.06	0.44
1:AA:1493:A:H5"	1:AA:1494:G:OP2	2.18	0.44
2:AE:14:GLY:CA	2:AE:209:ARG:HH21	2.27	0.44
5:AH:147:ASP:HA	5:AH:150:ARG:NH1	2.32	0.44
7:AJ:46:ALA:HA	7:AJ:49:ILE:HG13	1.98	0.44
7:AJ:104:LEU:HD13	7:AJ:104:LEU:HA	1.71	0.44
8:AK:37:ARG:HE	8:AK:37:ARG:HB3	1.39	0.44
12:AO:71:PRO:O	12:AO:102:ARG:HD3	2.17	0.44
12:AO:104:VAL:HG12	12:AO:105:TYR:CD1	2.53	0.44
20:AW:30:LYS:HZ3	20:AW:80:ARG:NH1	2.15	0.44
25:BA:317:G:N2	25:BA:318:C:O2	2.51	0.44
25:BA:580:C:H2'	25:BA:581:C:C6	2.52	0.44
25:BA:646:A:H2'	25:BA:647:G:O4'	2.18	0.44
25:BA:654(M):C:H3'	25:BA:654(N):G:C8	2.53	0.44
25:BA:1063:G:C5	25:BA:1064:C:C5	3.06	0.44
25:BA:1069:A:C4'	25:BA:1070:A:O5'	2.66	0.44
25:BA:1111:A:O2'	25:BA:1112:G:C4'	2.66	0.44
25:BA:1385:G:HO2'	25:BA:1396:U:H6	1.58	0.44
25:BA:1773:A:H2'	25:BA:1774:C:H5'	1.99	0.44
25:BA:2210:G:H2'	25:BA:2210:G:N3	2.33	0.44
25:BA:2767:C:H2'	25:BA:2768:C:H6	1.82	0.44
28:BE:21:VAL:CG2	28:BE:21:VAL:O	2.64	0.44
1:CA:197:A:H8	1:CA:198:G:N9	2.16	0.44
1:CA:201:C:C4'	1:CA:208:U:OP1	2.66	0.44
1:CA:421:U:O2	1:CA:421:U:C2'	2.65	0.44
1:CA:509:A:H5"	4:CG:55:ALA:HB2	1.99	0.44
1:CA:513:C:N4	1:CA:538:G:H1	2.16	0.44
1:CA:843:U:H3'	1:CA:848:C:O4'	2.17	0.44
1:CA:1190:G:H3'	3:CF:3:ASN:HD21	1.78	0.44
4:CG:146:ILE:HD12	4:CG:146:ILE:H	1.83	0.44
6:CI:6:VAL:HG22	6:CI:90:VAL:HG22	1.99	0.44
7:CJ:113:GLU:HB2	7:CJ:119:ARG:CG	2.39	0.44
13:CP:84:ILE:O	13:CP:84:ILE:HG22	2.18	0.44
16:CS:74:LEU:HD22	16:CS:74:LEU:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CT:31:LEU:HA	17:CT:31:LEU:HD12	1.78	0.44
19:CV:27:GLU:O	19:CV:47:HIS:CE1	2.70	0.44
23:CD:23:G:N2	23:CD:24:C:O2	2.51	0.44
25:DA:740:U:H2'	25:DA:741:G:C8	2.53	0.44
25:DA:1436:G:O2'	25:DA:1477:A:H4'	2.17	0.44
25:DA:1921:G:O2'	25:DA:1922:G:H5'	2.17	0.44
25:DA:2130:U:O2'	25:DA:2133:G:O2'	2.34	0.44
25:DA:2328:A:H2'	25:DA:2329:G:O4'	2.18	0.44
26:DB:35:U:O2'	26:DB:36:C:H5'	2.18	0.44
28:DE:6:GLY:HA2	28:DE:51:PHE:CZ	2.53	0.44
31:DH:69:ARG:HH12	31:DH:73:ALA:HB2	1.83	0.44
32:DK:110:ASP:OD1	32:DK:130:TYR:OH	2.33	0.44
33:DM:29:LYS:HE2	33:DM:29:LYS:CA	2.45	0.44
34:DN:120:GLU:HG2	34:DN:122:LEU:HG	1.99	0.44
38:DQ:66:ALA:HA	38:DQ:69:VAL:CG1	2.47	0.44
39:DR:26:ASP:HB3	39:DR:91:ARG:HA	1.97	0.44
42:DS:26:GLY:HA2	42:DS:71:VAL:O	2.17	0.44
44:DU:49:VAL:O	44:DU:50:ARG:C	2.61	0.44
44:DU:90:LEU:H	44:DU:90:LEU:CD2	2.30	0.44
45:DV:30:ASN:ND2	45:DV:32:HIS:H	2.16	0.44
1:AA:200:G:H1	1:AA:217:C:N4	2.13	0.44
1:AA:344:A:H5"	1:AA:345:C:P	2.58	0.44
1:AA:474:G:C2	1:AA:475:G:C5	3.06	0.44
1:AA:929:G:C2	1:AA:1389:C:C2	3.05	0.44
1:AA:1387:G:C6	1:AA:1388:C:N4	2.86	0.44
3:AF:64:VAL:HG21	3:AF:99:VAL:HG12	1.98	0.44
6:AI:72:VAL:HG13	6:AI:73:ASN:N	2.32	0.44
7:AJ:69:VAL:CG1	7:AJ:69:VAL:O	2.66	0.44
9:AL:23:ASN:OD1	9:AL:25:LYS:HB3	2.18	0.44
9:AL:50:LEU:HD22	9:AL:55:ALA:HB3	1.99	0.44
9:AL:111:ARG:NH2	10:AM:62:HIS:HE1	2.16	0.44
15:AR:61:GLY:C	15:AR:65:ARG:HH11	2.26	0.44
25:BA:70:G:H4'	25:BA:71:A:OP1	2.16	0.44
25:BA:101:G:H3'	25:BA:102:G:H5'	2.00	0.44
25:BA:270(L):U:C2	32:BK:50:ARG:HD2	2.53	0.44
25:BA:602:G:H3'	25:BA:654(V):A:H61	1.83	0.44
25:BA:1000:A:C6	25:BA:1001:A:C6	3.06	0.44
25:BA:1668:A:OP1	34:BN:5:GLN:HG3	2.18	0.44
25:BA:1799:G:C5'	25:BA:1819:A:H61	2.29	0.44
25:BA:1800:C:OP1	27:BD:266:SER:OG	2.33	0.44
25:BA:2361:A:O5'	54:B8:27:THR:OG1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2590:A:H2'	25:BA:2591:C:H6	1.83	0.44
25:BA:2688:U:H1'	25:BA:2721:A:N6	2.33	0.44
27:BD:123:ALA:HB1	27:BD:131:LEU:HG	2.00	0.44
28:BE:51:PHE:N	28:BE:76:ARG:O	2.47	0.44
28:BE:101:ARG:HA	28:BE:101:ARG:HD2	1.55	0.44
29:BF:29:ASN:CB	29:BF:112:MET:HE1	2.48	0.44
30:BG:63:ILE:HD12	30:BG:141:PHE:CE2	2.53	0.44
30:BG:82:LEU:HD22	30:BG:83:ARG:N	2.33	0.44
30:BG:115:ARG:HH11	30:BG:115:ARG:HB3	1.82	0.44
33:BM:15:LEU:C	33:BM:15:LEU:HD13	2.43	0.44
33:BM:15:LEU:O	33:BM:136:GLU:HA	2.18	0.44
33:BM:108:PRO:O	33:BM:113:GLY:HA3	2.18	0.44
38:BQ:34:HIS:CB	38:BQ:36:TYR:HE1	2.19	0.44
38:BQ:70:GLY:CA	38:BQ:101:LEU:HD13	2.47	0.44
42:BS:70:TYR:N	42:BS:70:TYR:CD2	2.83	0.44
50:B4:48:ARG:HD2	50:B4:48:ARG:HA	1.73	0.44
1:CA:358:U:C5	1:CA:359:U:C5	3.05	0.44
1:CA:538:G:OP2	12:CO:115:LYS:HB2	2.18	0.44
1:CA:706:A:C4'	11:CN:29:ILE:HD11	2.48	0.44
1:CA:742:G:OP1	15:CR:35:ARG:NH2	2.51	0.44
1:CA:888:G:O2'	1:CA:1488:G:O2'	2.34	0.44
1:CA:1127:G:C2	1:CA:1145:C:C2	3.06	0.44
1:CA:1191:A:OP1	3:CF:3:ASN:ND2	2.50	0.44
1:CA:1288:A:H2'	1:CA:1289:A:H8	1.82	0.44
2:CE:71:VAL:HG13	2:CE:93:VAL:HB	1.99	0.44
2:CE:72:GLY:HA3	2:CE:165:VAL:CG2	2.48	0.44
7:CJ:69:VAL:HG22	7:CJ:135:VAL:CG2	2.48	0.44
7:CJ:72:ARG:HB2	7:CJ:142:GLU:OE2	2.18	0.44
10:CM:81:THR:O	10:CM:84:GLN:N	2.51	0.44
16:CS:1:MET:HE3	16:CS:1:MET:HB2	1.58	0.44
20:CW:20:LEU:HD23	20:CW:20:LEU:HA	1.81	0.44
20:CW:53:LEU:CB	20:CW:102:GLY:HA3	2.48	0.44
25:DA:653:A:H5"	25:DA:654:A:P	2.57	0.44
25:DA:729:G:C5	27:DD:208:LYS:HB2	2.53	0.44
25:DA:954:G:O2'	25:DA:2274:A:N1	2.41	0.44
25:DA:981:A:N1	25:DA:2027:G:O2'	2.48	0.44
25:DA:1009:A:OP2	25:DA:1010:A:OP2	2.36	0.44
25:DA:1027:A:C2	25:DA:2488:A:H5'	2.53	0.44
25:DA:1341:U:OP2	25:DA:1394:U:O2'	2.21	0.44
25:DA:1349:A:H5'	25:DA:1350:C:C5'	2.47	0.44
25:DA:1585:C:O2	25:DA:1585:C:C2'	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1716:U:H2'	25:DA:1717:G:H8	1.83	0.44
25:DA:2064:C:H2'	25:DA:2065:C:C6	2.53	0.44
25:DA:2351:G:H8	25:DA:2351:G:O5'	2.01	0.44
25:DA:2351:G:H1'	25:DA:2366:A:H61	1.83	0.44
25:DA:2419:U:O4	54:D8:31:HIS:CD2	2.70	0.44
25:DA:2516:G:C6	25:DA:2517:C:N4	2.86	0.44
25:DA:2612:C:C5	25:DA:2613:U:H5	2.35	0.44
26:DB:4:C:N3	26:DB:117:G:N2	2.66	0.44
26:DB:14:U:O3'	26:DB:107:U:O2'	2.32	0.44
27:DD:35:LYS:HD3	27:DD:63:ARG:CB	2.46	0.44
32:DK:47:LEU:HA	32:DK:50:ARG:HG2	1.99	0.44
35:DO:147:LEU:CD2	35:DO:148:LEU:H	2.31	0.44
43:DT:49:VAL:HB	43:DT:83:VAL:HG21	1.99	0.44
44:DU:71:LYS:HZ3	44:DU:71:LYS:HG3	1.59	0.44
44:DU:75:ILE:HG13	44:DU:76:CYS:N	2.32	0.44
45:DV:30:ASN:ND2	45:DV:30:ASN:C	2.76	0.44
45:DV:131:ARG:HD2	45:DV:131:ARG:H	1.82	0.44
54:D8:33:ASN:O	54:D8:34:TRP:C	2.61	0.44
1:AA:101:A:C4	1:AA:102:G:C8	3.06	0.43
1:AA:132:C:N3	1:AA:231:G:C2	2.86	0.43
1:AA:191:G:N3	20:AW:105:SER:HB2	2.33	0.43
1:AA:406:G:N2	1:AA:437:U:O2	2.51	0.43
1:AA:487:A:H5"	1:AA:488:C:OP2	2.18	0.43
1:AA:1162:C:O5'	1:AA:1162:C:H6	2.00	0.43
5:AH:47:LYS:HE2	5:AH:47:LYS:HB2	1.90	0.43
5:AH:57:LYS:H	5:AH:57:LYS:HG2	1.52	0.43
7:AJ:36:LYS:HB2	7:AJ:36:LYS:NZ	2.34	0.43
9:AL:25:LYS:HB2	9:AL:25:LYS:HE3	1.79	0.43
13:AP:55:ARG:HG3	13:AP:55:ARG:HH11	1.83	0.43
22:AB:27:G:H5'	22:AB:28:C:OP2	2.18	0.43
23:AC:24:C:H2'	23:AC:25:U:H6	1.82	0.43
25:BA:155:C:H6	25:BA:155:C:H5"	1.83	0.43
25:BA:270(P):C:O2'	25:BA:270(Q):C:H5'	2.18	0.43
25:BA:654(S):G:H4'	25:BA:654(T):A:OP1	2.17	0.43
25:BA:815:C:H2'	25:BA:816:C:C6	2.50	0.43
25:BA:881:G:H3'	25:BA:882:G:H4'	1.98	0.43
25:BA:999:U:H5"	25:BA:1154:G:O6	2.18	0.43
25:BA:1063:G:C4	25:BA:1064:C:C6	3.06	0.43
25:BA:1479:G:C2	25:BA:1480:G:C4	3.05	0.43
25:BA:1582:C:O2'	25:BA:1586:A:C8	2.67	0.43
25:BA:2212:A:H1'	25:BA:2215:G:C4	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2331:G:C4'	46:B3:42:GLY:HA3	2.48	0.43
25:BA:2505:G:H2'	25:BA:2576:G:O6	2.17	0.43
25:BA:2533:A:H2'	25:BA:2534:A:H5'	1.99	0.43
26:BB:11:C:O5'	26:BB:12:C:H5	2.01	0.43
26:BB:43:C:H5'	30:BG:66:GLN:NE2	2.32	0.43
27:BD:181:GLU:CA	27:BD:272:ALA:HB2	2.39	0.43
28:BE:7:VAL:HG21	39:BR:1:MET:HE3	2.01	0.43
31:BH:111:HIS:HB2	31:BH:112:PRO:HD2	2.00	0.43
31:BH:129:THR:O	31:BH:129:THR:OG1	2.33	0.43
32:BK:77:LEU:HD12	32:BK:77:LEU:O	2.18	0.43
33:BM:43:THR:HG23	40:B1:64:ARG:HH22	1.82	0.43
36:BP:88:GLY:O	36:BP:90:VAL:N	2.51	0.43
38:BQ:93:LYS:HG3	38:BQ:94:TYR:N	2.33	0.43
43:BT:70:LEU:HD23	43:BT:70:LEU:H	1.82	0.43
49:BX:4:LEU:O	49:BX:36:VAL:HA	2.17	0.43
52:B6:46:HIS:O	52:B6:47:THR:OG1	2.26	0.43
1:CA:408:A:H2'	1:CA:409:G:O4'	2.18	0.43
1:CA:510:A:H5"	1:CA:511:C:OP2	2.18	0.43
1:CA:926:G:C6	1:CA:1505:G:C5	3.06	0.43
1:CA:1067:A:H4'	1:CA:1068:G:O5'	2.18	0.43
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.99	0.43
2:CE:95:GLN:HB2	2:CE:148:TYR:HA	2.00	0.43
3:CF:18:TRP:N	3:CF:18:TRP:CE3	2.85	0.43
4:CG:61:LYS:CA	4:CG:203:VAL:HG22	2.47	0.43
6:CI:19:LEU:HD11	6:CI:59:TYR:CE1	2.53	0.43
9:CL:53:VAL:HG11	9:CL:92:TYR:CD2	2.53	0.43
10:CM:8:LEU:HG	10:CM:96:ILE:HG23	1.99	0.43
25:DA:84:A:H2'	25:DA:99:U:O4	2.18	0.43
25:DA:280:C:C2	25:DA:361:G:N2	2.86	0.43
25:DA:639:U:H2'	25:DA:640:C:H6	1.78	0.43
25:DA:723:G:H2'	25:DA:724:U:O4'	2.18	0.43
25:DA:869:G:C2	25:DA:870:A:C8	3.06	0.43
25:DA:873:G:N2	25:DA:905:U:O2	2.50	0.43
25:DA:1069:A:H5'	25:DA:1070:A:C8	2.53	0.43
25:DA:1152:C:H4'	40:D1:77:SER:HA	1.99	0.43
25:DA:1181:C:H2'	25:DA:1182:A:H8	1.83	0.43
25:DA:1759:A:C8	25:DA:2696:U:O2	2.71	0.43
25:DA:2544:G:H8	25:DA:2544:G:O5'	2.01	0.43
27:DD:43:ARG:HG2	27:DD:54:ARG:O	2.18	0.43
27:DD:48:ARG:HH11	27:DD:48:ARG:CG	2.30	0.43
28:DE:48:GLN:HG2	28:DE:78:LEU:HB2	1.93	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:188:VAL:HG23	28:DE:189:PRO:HD2	1.99	0.43
29:DF:178:PRO:HG2	29:DF:179:GLU:OE1	2.18	0.43
30:DG:125:PHE:HB3	30:DG:166:ASP:HB2	1.99	0.43
31:DH:99:VAL:HG12	31:DH:100:GLY:N	2.33	0.43
31:DH:131:VAL:HG12	31:DH:132:ARG:N	2.33	0.43
35:DO:83:VAL:HG11	35:DO:112:LEU:HD21	1.99	0.43
39:DR:99:LEU:O	39:DR:100:TYR:C	2.59	0.43
41:D2:77:ALA:O	41:D2:79:VAL:HG22	2.18	0.43
44:DU:41:GLY:O	44:DU:64:GLU:HB3	2.17	0.43
46:D3:25:ARG:HD2	46:D3:29:GLN:HE22	1.82	0.43
1:AA:317:G:C6	1:AA:318:G:C5	3.06	0.43
1:AA:453:A:C6	1:AA:454:C:C4	3.06	0.43
1:AA:515:G:N2	1:AA:537:G:C4	2.86	0.43
1:AA:1032(B):G:H2'	1:AA:1033:G:H8	1.83	0.43
8:AK:27:PRO:HG3	8:AK:58:TYR:HE2	1.82	0.43
9:AL:4:TYR:CD2	9:AL:88:TYR:HB2	2.54	0.43
11:AN:82:VAL:CG2	11:AN:98:LEU:HD13	2.48	0.43
15:AR:18:PHE:O	15:AR:19:PRO:C	2.61	0.43
15:AR:56:LEU:HD12	15:AR:60:VAL:HG23	1.99	0.43
23:AC:77:A:C8	23:AC:77:A:C5'	3.02	0.43
23:AD:10:G:N1	23:AD:27:G:C2	2.87	0.43
25:BA:101:G:H3'	25:BA:102:G:C5'	2.48	0.43
25:BA:304:G:N2	25:BA:314:A:C4	2.86	0.43
25:BA:658:C:H2'	25:BA:659:C:C6	2.53	0.43
25:BA:900:A:H3'	25:BA:901:A:H8	1.83	0.43
25:BA:1279:G:N2	25:BA:1292:U:C2	2.86	0.43
25:BA:1281:G:O2'	25:BA:1282:U:H5'	2.18	0.43
25:BA:2205:C:O2	25:BA:2205:C:H2'	2.18	0.43
25:BA:2312:U:O5'	25:BA:2312:U:C6	2.70	0.43
25:BA:2345:G:N3	25:BA:2381:C:H2'	2.32	0.43
25:BA:2749:A:O3'	31:BH:62:LYS:HE3	2.18	0.43
29:BF:155:LEU:HD13	29:BF:174:VAL:CG2	2.48	0.43
30:BG:121:ASN:HA	30:BG:122:PRO:HD2	1.83	0.43
33:BM:133:GLN:C	33:BM:134:ARG:HG2	2.43	0.43
34:BN:115:VAL:HG23	34:BN:116:SER:N	2.33	0.43
38:BQ:4:LEU:HB3	38:BQ:5:THR:H	1.71	0.43
39:BR:115:ARG:O	39:BR:116:ALA:C	2.60	0.43
47:BZ:92:LYS:HA	47:BZ:95:LEU:HD12	2.00	0.43
48:BW:15:LYS:H	48:BW:67:LYS:CE	2.31	0.43
49:BX:19:GLN:NE2	49:BX:52:HIS:CE1	2.84	0.43
1:CA:39:G:N7	1:CA:547:A:C8	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:529:G:O2'	1:CA:533:A:C6	2.67	0.43
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.99	0.43
1:CA:838:G:C2'	1:CA:841:U:H5'	2.47	0.43
1:CA:983:A:H5'	14:CQ:2:ALA:CB	2.48	0.43
1:CA:1071:C:O2	1:CA:1072:G:C8	2.71	0.43
1:CA:1305:G:H5"	21:CX:4:GLY:CA	2.49	0.43
2:CE:67:THR:HA	2:CE:90:MET:HE2	2.00	0.43
4:CG:73:ARG:HD2	4:CG:73:ARG:HA	1.84	0.43
5:CH:140:ARG:O	5:CH:143:ARG:NH2	2.51	0.43
5:CH:143:ARG:NH1	8:CK:77:GLU:CD	2.76	0.43
9:CL:43:ALA:HA	9:CL:74:ILE:HD13	2.00	0.43
9:CL:95:LYS:CD	9:CL:96:LEU:N	2.73	0.43
11:CN:45:GLY:O	11:CN:50:TYR:HB2	2.18	0.43
13:CP:3:ARG:N	50:D4:34:GLU:HG3	2.33	0.43
19:CV:78:ARG:NH1	19:CV:79:THR:HA	2.33	0.43
20:CW:67:ALA:O	20:CW:73:HIS:CE1	2.71	0.43
23:CC:15:G:N3	23:CC:60:A:C2	2.87	0.43
25:DA:26:G:C6	25:DA:27:G:N1	2.85	0.43
25:DA:277:C:OP2	25:DA:278:A:N6	2.40	0.43
25:DA:1464:C:C2	25:DA:1465:G:C8	3.06	0.43
25:DA:1639:U:H4'	25:DA:2699:C:H4'	1.99	0.43
25:DA:2517:C:C6	25:DA:2542:A:C2	3.05	0.43
31:DH:20:ALA:HB1	31:DH:21:PRO:HD2	1.99	0.43
31:DH:105:LEU:H	31:DH:105:LEU:HD22	1.82	0.43
31:DH:143:GLN:HE21	31:DH:143:GLN:CA	2.31	0.43
34:DN:79:PHE:CD2	39:DR:72:VAL:HG22	2.53	0.43
43:DT:5:TYR:HB3	48:DW:33:MET:SD	2.58	0.43
44:DU:39:VAL:O	44:DU:40:GLU:CD	2.61	0.43
44:DU:54:LYS:HD2	44:DU:55:TYR:CZ	2.54	0.43
44:DU:81:LYS:HZ2	44:DU:97:ARG:HH12	1.66	0.43
1:AA:254:G:H21	17:AT:16:GLN:HE21	1.66	0.43
1:AA:313:A:H2'	1:AA:314:C:C6	2.53	0.43
1:AA:690:G:N2	11:AN:55:LYS:NZ	2.67	0.43
1:AA:1030:C:H2'	1:AA:1031:G:O4'	2.18	0.43
1:AA:1159:U:O2	1:AA:1160:G:O6	2.36	0.43
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.51	0.43
3:AF:131:ARG:HG3	3:AF:131:ARG:HH11	1.83	0.43
4:AG:8:VAL:HG11	4:AG:21:LEU:HB2	2.01	0.43
4:AG:155:LEU:C	4:AG:157:LEU:N	2.76	0.43
5:AH:43:LEU:HD13	5:AH:109:ILE:HD11	2.00	0.43
7:AJ:155:ARG:O	7:AJ:155:ARG:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:26:VAL:O	8:AK:27:PRO:C	2.61	0.43
10:AM:42:THR:HG22	10:AM:67:THR:O	2.18	0.43
12:AO:60:LEU:HD21	12:AO:66:VAL:HG22	2.01	0.43
25:BA:59:U:O2'	25:BA:73:A:H2'	2.18	0.43
25:BA:120:U:O2	25:BA:120:U:O4'	2.35	0.43
25:BA:185:U:H4'	25:BA:218:A:H4'	2.00	0.43
25:BA:299:A:H5'	25:BA:300:A:OP2	2.19	0.43
25:BA:299:A:H62	25:BA:300:A:N6	2.16	0.43
25:BA:307:G:N2	25:BA:310:A:C8	2.86	0.43
25:BA:371:A:O3'	25:BA:372:G:H4'	2.18	0.43
25:BA:503:A:C6	25:BA:505:A:C6	3.06	0.43
25:BA:612:G:C6	25:BA:613:U:C4	3.06	0.43
25:BA:1359:A:N1	25:BA:1372:U:O4	2.51	0.43
25:BA:2275:C:H5'	25:BA:2275:C:H6	1.83	0.43
25:BA:2314:C:O2'	25:BA:2315:G:H5'	2.19	0.43
25:BA:2389:G:H5"	25:BA:2390:U:C5'	2.47	0.43
27:BD:68:LYS:HB3	27:BD:70:TRP:CH2	2.53	0.43
28:BE:116:VAL:HG13	28:BE:122:PHE:CD2	2.54	0.43
30:BG:83:ARG:CG	30:BG:86:MET:HE1	2.43	0.43
32:BK:7:GLU:HA	32:BK:15:VAL:HG12	1.98	0.43
33:BM:85:ILE:HA	33:BM:86:PRO:HD3	1.84	0.43
35:BO:106:LEU:HD23	35:BO:106:LEU:HA	1.48	0.43
36:BP:81:VAL:O	36:BP:82:ARG:NE	2.50	0.43
37:B0:44:LEU:HD22	37:B0:48:VAL:HG22	2.00	0.43
42:BS:70:TYR:CE2	42:BS:108:GLY:HA3	2.54	0.43
43:BT:80:ILE:HG13	43:BT:80:ILE:O	2.18	0.43
44:BU:97:ARG:HH21	44:BU:98:VAL:CG2	2.31	0.43
45:BV:61:LEU:HD12	45:BV:62:PRO:O	2.19	0.43
1:CA:105:G:H2'	1:CA:106:C:C6	2.53	0.43
1:CA:171:A:N6	1:CA:172:A:N6	2.67	0.43
1:CA:837:G:C2	1:CA:850:U:O2	2.71	0.43
1:CA:926:G:C5'	1:CA:927:G:O5'	2.66	0.43
1:CA:973:G:H3'	1:CA:974:A:H5"	2.00	0.43
1:CA:1004:A:C5'	1:CA:1025:U:N3	2.81	0.43
1:CA:1028(A):C:C2	1:CA:1028(B):C:C5	3.06	0.43
1:CA:1054:C:O2'	1:CA:1055:A:C5'	2.66	0.43
1:CA:1213:A:C6	1:CA:1215:G:H1'	2.52	0.43
1:CA:1227:A:OP2	13:CP:111:LYS:HD3	2.17	0.43
1:CA:1299:A:C6	1:CA:1301:U:C2	3.06	0.43
1:CA:1372:U:H2'	1:CA:1373:G:H5'	1.99	0.43
1:CA:1486:G:H2'	1:CA:1487:G:C1'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:178:ARG:HH11	2:CE:178:ARG:CB	2.24	0.43
3:CF:69:HIS:HA	3:CF:104:GLN:HB2	1.99	0.43
3:CF:121:ALA:HB2	3:CF:198:VAL:HG21	2.01	0.43
5:CH:13:ILE:O	5:CH:13:ILE:HG12	2.18	0.43
9:CL:14:VAL:O	9:CL:14:VAL:HG12	2.18	0.43
9:CL:17:VAL:HG22	9:CL:63:ILE:HG12	1.99	0.43
9:CL:18:PHE:CD1	9:CL:62:TYR:HD2	2.30	0.43
10:CM:24:VAL:HG21	10:CM:37:PRO:HD3	1.99	0.43
11:CN:99:GLN:HG2	11:CN:105:VAL:CG2	2.46	0.43
15:CR:25:THR:HG21	15:CR:70:LEU:HB2	2.00	0.43
22:CB:69:A:H4'	22:CB:70:G:OP1	2.18	0.43
23:CD:20:G:N3	23:CD:20:G:C2'	2.79	0.43
25:DA:460:A:OP1	53:D7:41:ARG:NH2	2.47	0.43
25:DA:608:A:H2'	25:DA:609:A:C8	2.54	0.43
25:DA:654(S):G:C1'	25:DA:654(T):A:OP1	2.66	0.43
25:DA:747:U:C5	51:D5:3:LYS:CB	2.88	0.43
25:DA:971:C:H2'	25:DA:972:G:H5'	2.00	0.43
25:DA:2250:G:OP1	25:DA:2275:C:H2'	2.18	0.43
25:DA:2275:C:O2'	36:DP:84:GLY:HA2	2.14	0.43
25:DA:2320:A:H4'	25:DA:2321:G:N7	2.33	0.43
25:DA:2324:C:H5"	25:DA:2325:G:O5'	2.17	0.43
25:DA:2342:C:O2'	25:DA:2374:C:H5"	2.18	0.43
25:DA:2375:G:O2'	25:DA:2377:A:N7	2.47	0.43
25:DA:2629:A:O2'	25:DA:2630:G:C5'	2.65	0.43
25:DA:2820:A:C6	37:D0:4:LEU:HD11	2.53	0.43
28:DE:169:ASN:OD1	28:DE:201:THR:HG21	2.18	0.43
29:DF:161:GLU:HB3	29:DF:162:LEU:HD12	2.00	0.43
1:AA:18:C:H2'	1:AA:19:C:O4'	2.18	0.43
1:AA:158:G:H2'	1:AA:159:G:C8	2.54	0.43
1:AA:396:G:O2'	1:AA:398:C:OP1	2.27	0.43
1:AA:455:C:H42	1:AA:477:G:H1	1.66	0.43
1:AA:516:U:C4	1:AA:517:G:C6	3.06	0.43
1:AA:622:A:C8	1:AA:623:C:C6	3.07	0.43
1:AA:1055:A:C5	1:AA:1206:G:C2	3.06	0.43
1:AA:1175:G:C2	1:AA:1176:A:C6	3.07	0.43
1:AA:1277:C:HO2'	1:AA:1279:A:C1'	2.32	0.43
1:AA:1406:U:O2	1:AA:1517:G:N2	2.52	0.43
1:AA:1504:G:H1'	1:AA:1505:G:OP2	2.18	0.43
1:AA:1530:G:H2'	1:AA:1531:A:C8	2.52	0.43
3:AF:92:ALA:O	3:AF:95:THR:O	2.36	0.43
3:AF:147:LYS:HB3	3:AF:203:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:99:SER:O	4:AG:140:VAL:HG22	2.18	0.43
9:AL:42:ARG:HE	9:AL:42:ARG:HB2	1.44	0.43
20:AW:49:ALA:O	20:AW:52:ALA:HB3	2.18	0.43
22:AB:28:C:H2'	22:AB:29:U:H6	1.83	0.43
23:AC:34:U:O2	23:AC:36:A:C8	2.72	0.43
23:AC:75:C:O2	25:BA:2252:G:N2	2.45	0.43
25:BA:299:A:C5'	25:BA:300:A:OP2	2.66	0.43
25:BA:318:C:O2'	25:BA:319:C:H5'	2.18	0.43
25:BA:459:U:H2'	25:BA:460:A:H8	1.84	0.43
25:BA:528:A:N1	25:BA:2043:C:H4'	2.33	0.43
25:BA:727:A:C6	25:BA:728:G:C6	3.06	0.43
25:BA:893:C:N4	25:BA:894:C:N4	2.66	0.43
25:BA:2172:U:H5'	25:BA:2173:A:OP2	2.18	0.43
25:BA:2189:U:H3'	25:BA:2190:G:H5"	2.00	0.43
25:BA:2206:C:H2'	25:BA:2207:C:C6	2.51	0.43
25:BA:2590:A:H2'	25:BA:2591:C:C6	2.53	0.43
25:BA:2688:U:O2	25:BA:2688:U:O5'	2.35	0.43
25:BA:2830:G:N3	25:BA:2883:A:H2	2.17	0.43
27:BD:118:VAL:HG22	27:BD:119:ALA:N	2.33	0.43
32:BK:93:THR:O	32:BK:96:ASP:HB2	2.18	0.43
36:BP:104:PHE:O	36:BP:105:GLU:HB3	2.19	0.43
40:B1:85:LYS:C	40:B1:87:GLY:H	2.25	0.43
41:B2:81:TYR:C	41:B2:82:ARG:HD2	2.43	0.43
1:CA:689:C:O2'	1:CA:690:G:H5'	2.17	0.43
1:CA:783:C:H2'	1:CA:784:C:H6	1.83	0.43
1:CA:812:C:C2'	1:CA:813:U:OP2	2.66	0.43
1:CA:853:G:H2'	1:CA:854:G:H8	1.83	0.43
1:CA:1095:U:H2'	1:CA:1096:C:O4'	2.18	0.43
1:CA:1483:A:H1'	25:DA:1948:G:H1'	2.01	0.43
3:CF:21:ARG:HH11	3:CF:21:ARG:CB	2.31	0.43
3:CF:27:LYS:HB3	3:CF:27:LYS:HZ2	1.83	0.43
10:CM:13:HIS:HB3	10:CM:68:HIS:NE2	2.34	0.43
13:CP:7:VAL:HG23	30:DG:115:ARG:NH2	2.33	0.43
14:CQ:4:LYS:HG3	14:CQ:7:ILE:HD11	1.99	0.43
17:CT:29:HIS:CG	17:CT:30:PRO:HD2	2.53	0.43
19:CV:78:ARG:CD	19:CV:79:THR:N	2.81	0.43
20:CW:49:ALA:O	20:CW:50:GLU:C	2.59	0.43
25:DA:375:C:H2'	25:DA:376:C:H6	1.80	0.43
25:DA:669:G:O2'	25:DA:670:A:OP1	2.35	0.43
25:DA:867:C:C5	25:DA:868:U:H5	2.35	0.43
25:DA:1122:G:H2'	25:DA:1122:G:N3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2126:A:H4'	25:DA:2127:G:OP1	2.18	0.43
25:DA:2135:A:N6	25:DA:2156:G:H21	2.15	0.43
25:DA:2239:G:H5'	27:DD:251:GLY:CA	2.48	0.43
26:DB:40:U:C4	26:DB:43:C:OP2	2.71	0.43
26:DB:88:C:C6	26:DB:89:G:C8	3.07	0.43
28:DE:137:HIS:CB	28:DE:138:PRO:HD2	2.48	0.43
29:DF:29:ASN:N	29:DF:112:MET:CE	2.81	0.43
29:DF:36:VAL:HG11	29:DF:183:VAL:CG1	2.48	0.43
29:DF:86:GLY:O	29:DF:87:GLY:C	2.62	0.43
30:DG:64:THR:OG1	30:DG:94:LEU:HD13	2.18	0.43
38:DQ:83:LYS:HB3	38:DQ:84:GLN:HG2	1.99	0.43
39:DR:3:ARG:NE	39:DR:6:LEU:HD13	2.34	0.43
39:DR:21:GLU:O	39:DR:91:ARG:NH2	2.52	0.43
39:DR:61:PHE:CE2	39:DR:76:PHE:HB2	2.53	0.43
39:DR:99:LEU:C	39:DR:101:PHE:N	2.75	0.43
53:D7:34:ARG:NH1	53:D7:41:ARG:O	2.51	0.43
1:AA:439:A:C4	1:AA:496:A:C2	3.06	0.43
1:AA:562:C:C4	1:AA:884:U:C5	3.06	0.43
1:AA:619:U:C2	4:AG:135:LEU:HD22	2.53	0.43
1:AA:655:A:C2	1:AA:754:C:N4	2.87	0.43
1:AA:835:U:P	18:AU:60:ALA:HB3	2.58	0.43
1:AA:985:C:C2	1:AA:1221:G:C2	3.06	0.43
1:AA:1176:A:N6	1:AA:1177:G:C5	2.87	0.43
2:AE:147:LYS:HE2	2:AE:148:TYR:CE1	2.53	0.43
7:AJ:24:THR:HA	7:AJ:27:ILE:HG13	2.01	0.43
7:AJ:35:LYS:O	7:AJ:38:LEU:N	2.51	0.43
7:AJ:72:ARG:HG3	7:AJ:142:GLU:OE1	2.19	0.43
13:AP:25:ILE:HD11	13:AP:60:VAL:HG11	2.00	0.43
19:AV:9:VAL:O	19:AV:9:VAL:CG1	2.66	0.43
19:AV:41:VAL:HG23	19:AV:67:VAL:HG22	2.01	0.43
23:AC:19:G:C2	23:AC:59:A:C4	3.06	0.43
25:BA:50:U:H3'	25:BA:51:G:H5'	2.00	0.43
25:BA:142:G:H1'	43:BT:37:THR:HG22	1.99	0.43
25:BA:270(P):C:H2'	25:BA:270(Q):C:C6	2.53	0.43
25:BA:525:U:H5'	25:BA:556:G:OP1	2.19	0.43
25:BA:1049:C:C4	25:BA:1050:A:N1	2.87	0.43
25:BA:1680:U:C4	25:BA:1681:G:C6	3.07	0.43
25:BA:2025:C:H2'	25:BA:2026:C:H6	1.83	0.43
25:BA:2097:C:H2'	25:BA:2098:U:O4'	2.18	0.43
25:BA:2124:G:H2'	25:BA:2125:G:H5'	1.99	0.43
25:BA:2194:G:H2'	25:BA:2195:C:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2312:U:H5'	30:BG:88:ILE:CG2	2.48	0.43
25:BA:2364:C:O2'	25:BA:2365:G:H5'	2.18	0.43
25:BA:2771:C:H2'	25:BA:2772:C:C6	2.53	0.43
25:BA:2850:A:C2'	25:BA:2851:A:O5'	2.67	0.43
26:BB:89:G:C6	26:BB:89(A):A:N1	2.87	0.43
27:BD:25:THR:HG21	27:BD:81:ALA:HA	2.01	0.43
28:BE:64:LYS:O	28:BE:70:ALA:HB2	2.18	0.43
28:BE:116:VAL:HG13	28:BE:122:PHE:HB2	1.99	0.43
35:BO:18:ARG:NH1	35:BO:21:ARG:HH11	2.16	0.43
36:BP:34:LEU:HD23	36:BP:104:PHE:HD1	1.83	0.43
36:BP:115:MET:HE2	36:BP:115:MET:HB3	1.91	0.43
36:BP:137:TYR:C	36:BP:139:GLU:N	2.74	0.43
37:B0:74:LYS:H	37:B0:74:LYS:HG2	1.49	0.43
38:BQ:56:LEU:C	38:BQ:58:LEU:HD23	2.44	0.43
39:BR:50:ILE:HD12	39:BR:50:ILE:HA	1.66	0.43
39:BR:53:ARG:NH1	39:BR:60:THR:OG1	2.51	0.43
42:BS:32:ALA:O	42:BS:36:LEU:HG	2.17	0.43
47:BZ:87:PRO:HG2	47:BZ:88:LYS:H	1.82	0.43
51:B5:40:LYS:CB	51:B5:46:CYS:SG	3.06	0.43
1:CA:87:A:C2	1:CA:88:C:C5	3.06	0.43
1:CA:652:U:C5	1:CA:752:G:N3	2.86	0.43
1:CA:983:A:H2	1:CA:984:C:C5	2.37	0.43
1:CA:1060:C:H4'	10:CM:51:ARG:HB3	1.99	0.43
1:CA:1380:U:C2	7:CJ:3:ARG:NH1	2.87	0.43
1:CA:1531:A:H8	1:CA:1531:A:H5"	1.84	0.43
2:CE:5:ILE:O	2:CE:6:THR:C	2.61	0.43
2:CE:129:GLU:O	2:CE:130:ARG:C	2.61	0.43
4:CG:109:GLY:C	4:CG:111:ALA:N	2.75	0.43
4:CG:178:VAL:CG1	4:CG:179:GLU:H	2.31	0.43
5:CH:83:GLU:HB3	5:CH:88:LYS:CG	2.34	0.43
9:CL:3:GLN:NE2	9:CL:20:ARG:NH1	2.66	0.43
13:CP:17:VAL:O	13:CP:20:THR:N	2.46	0.43
17:CT:68:ARG:H	17:CT:70:ARG:NH1	2.17	0.43
19:CV:29:ARG:O	19:CV:30:LEU:HG	2.17	0.43
25:DA:138:G:C2'	25:DA:139:G:H5'	2.49	0.43
25:DA:374:A:C2	25:DA:401:A:C4	3.06	0.43
25:DA:609:A:H2'	25:DA:609(A):G:O4'	2.18	0.43
25:DA:833:U:H1'	35:DO:55:ARG:NH1	2.34	0.43
25:DA:856:C:O2'	25:DA:857:C:P	2.76	0.43
25:DA:1342:A:N1	25:DA:1397:U:C4	2.86	0.43
25:DA:1608:A:H1'	25:DA:1610:A:OP2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2154:G:C2	25:DA:2155:G:C5	3.06	0.43
25:DA:2272:U:H5"	25:DA:2273:A:OP1	2.19	0.43
25:DA:2303:G:C2	25:DA:2314:C:C2	3.06	0.43
25:DA:2554:U:H6	25:DA:2554:U:C5'	2.30	0.43
26:DB:8:U:H6	26:DB:8:U:C5'	2.31	0.43
26:DB:88:C:H3'	26:DB:88:C:H6	1.84	0.43
27:DD:71:ASP:N	27:DD:71:ASP:OD2	2.52	0.43
28:DE:48:GLN:CD	28:DE:78:LEU:CB	2.91	0.43
29:DF:25:PRO:HB2	29:DF:27:GLU:N	2.32	0.43
31:DH:4:ILE:HG12	31:DH:7:LEU:HG	2.01	0.43
34:DN:68:GLU:CB	34:DN:78:ARG:HB3	2.48	0.43
37:D0:23:ASN:N	37:D0:23:ASN:ND2	2.66	0.43
37:D0:102:GLU:HG2	37:D0:102:GLU:O	2.17	0.43
38:DQ:25:ARG:NH2	38:DQ:40:ILE:HD12	2.33	0.43
39:DR:19:LEU:HA	39:DR:20:PRO:HD3	1.81	0.43
40:D1:94:ASN:O	40:D1:97:ASP:HB3	2.18	0.43
45:DV:19:ARG:NH1	45:DV:84:GLU:O	2.51	0.43
48:DW:14:ARG:C	48:DW:15:LYS:HG2	2.44	0.43
1:AA:66:G:H22	1:AA:172:A:H2	1.65	0.43
1:AA:273:A:N6	1:AA:274:A:C6	2.87	0.43
1:AA:345:C:O2'	1:AA:346:G:N2	2.51	0.43
1:AA:611:A:H61	1:AA:629:G:H1	1.67	0.43
1:AA:834:C:O2'	1:AA:835:U:H5'	2.19	0.43
1:AA:958:A:C6	1:AA:959:A:N1	2.87	0.43
1:AA:1036:G:C8	1:AA:1037:C:C4	3.07	0.43
1:AA:1275:A:C6	1:AA:1276:G:C5	3.07	0.43
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.83	0.43
8:AK:103:VAL:HG21	8:AK:110:ALA:HB2	2.01	0.43
14:AQ:8:GLU:C	14:AQ:10:ALA:N	2.75	0.43
15:AR:66:LEU:HD12	15:AR:66:LEU:HA	1.82	0.43
18:AU:43:PHE:O	18:AU:51:LEU:HG	2.19	0.43
21:AX:15:ARG:CG	21:AX:15:ARG:NH1	2.66	0.43
22:AB:85:C:C5	25:BA:2555:U:C2	3.07	0.43
25:BA:411:G:H4'	25:BA:412:A:OP1	2.19	0.43
25:BA:611:C:C2'	25:BA:612:G:H5'	2.49	0.43
25:BA:989:G:N7	49:BX:13:ILE:HD11	2.34	0.43
25:BA:996:A:H4'	40:B1:92:ARG:NE	2.34	0.43
25:BA:1087:G:C5	25:BA:1089:G:H1'	2.53	0.43
25:BA:1271:G:O3'	25:BA:1272:A:H4'	2.18	0.43
25:BA:2283:C:N3	25:BA:2389:G:C2	2.86	0.43
25:BA:2309:A:N6	25:BA:2310:A:N6	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2318:G:N2	38:BQ:2:ALA:CA	2.82	0.43
25:BA:2424:C:O2	25:BA:2429:G:O2'	2.29	0.43
25:BA:2517:C:C2	25:BA:2542:A:N6	2.87	0.43
25:BA:2645:G:N2	25:BA:2767:C:OP2	2.51	0.43
27:BD:92:ILE:HD12	27:BD:104:TYR:CD2	2.54	0.43
27:BD:172:TYR:CD1	27:BD:186:HIS:HA	2.53	0.43
29:BF:40:GLN:OE1	29:BF:184:TYR:CB	2.67	0.43
30:BG:67:LYS:CE	50:B4:6:HIS:NE2	2.82	0.43
33:BM:89:LYS:O	33:BM:93:THR:HG22	2.17	0.43
33:BM:114:ARG:O	33:BM:115:ARG:HB2	2.18	0.43
36:BP:66:ILE:O	36:BP:104:PHE:N	2.51	0.43
37:B0:72:ASP:O	37:B0:76:VAL:HG23	2.19	0.43
37:B0:104:ARG:HD3	37:B0:111:LEU:HD21	2.01	0.43
39:BR:22:PHE:CE1	39:BR:52:ILE:HD11	2.53	0.43
41:B2:3:ALA:HB1	41:B2:38:LEU:HD11	2.01	0.43
43:BT:9:LEU:O	48:BW:36:ARG:NE	2.51	0.43
44:BU:33:LYS:H	44:BU:33:LYS:HG3	1.58	0.43
45:BV:6:LYS:O	45:BV:7:ALA:HB2	2.17	0.43
45:BV:82:ARG:O	45:BV:82:ARG:HG3	2.17	0.43
1:CA:38:G:H4'	1:CA:547:A:N6	2.33	0.43
1:CA:115:G:H1'	1:CA:116:A:N7	2.34	0.43
1:CA:126:G:O2'	1:CA:634:C:O2'	2.34	0.43
1:CA:853:G:C2	1:CA:854:G:C8	3.07	0.43
1:CA:949:A:H1'	1:CA:1364:U:H3	1.83	0.43
1:CA:961:U:O2	1:CA:1201:A:N1	2.51	0.43
1:CA:1057:G:C5	1:CA:1204:A:C2	3.06	0.43
1:CA:1162:C:C2	1:CA:1175:G:N2	2.86	0.43
1:CA:1324:A:C6	1:CA:1325:C:C4	3.07	0.43
2:CE:21:ARG:HB3	2:CE:39:ILE:HA	1.98	0.43
7:CJ:78:ARG:HB2	7:CJ:156:TRP:HZ3	1.82	0.43
9:CL:14:VAL:O	9:CL:65:VAL:HA	2.18	0.43
10:CM:3:LYS:HE2	10:CM:77:PRO:CD	2.48	0.43
10:CM:16:LEU:O	10:CM:20:ALA:HB3	2.19	0.43
10:CM:75:ILE:HG13	10:CM:76:ASN:N	2.33	0.43
12:CO:46:LYS:NZ	12:CO:47:LYS:HD3	2.20	0.43
16:CS:34:GLU:OE2	16:CS:55:ARG:HD3	2.19	0.43
20:CW:36:LEU:HD13	20:CW:36:LEU:HA	1.92	0.43
23:CD:22:A:N1	23:CD:47:G:H2'	2.33	0.43
23:CD:59:A:O2'	23:CD:61:U:H5	2.02	0.43
25:DA:66:C:C4	25:DA:67:U:C5	3.07	0.43
25:DA:460:A:P	53:D7:41:ARG:HH22	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:527:C:H4'	25:DA:528:A:O5'	2.19	0.43
25:DA:807:U:C2	25:DA:808:G:C8	3.06	0.43
25:DA:986:C:O2'	25:DA:987:G:H5'	2.19	0.43
25:DA:1006:C:C2	25:DA:1138:G:C2	3.07	0.43
25:DA:1006:C:H1'	33:DM:106:MET:HE3	2.00	0.43
25:DA:1168:G:C2	25:DA:1182:A:C2	3.05	0.43
25:DA:1239:G:H2'	25:DA:1240:U:O4'	2.17	0.43
25:DA:1593:G:C2	25:DA:1594:G:C4	3.06	0.43
25:DA:2571:C:H6	25:DA:2571:C:H5"	1.84	0.43
27:DD:61:LEU:HD12	27:DD:61:LEU:HA	1.82	0.43
28:DE:3:GLY:HA3	28:DE:81:ILE:HD13	2.01	0.43
28:DE:33:VAL:HG11	28:DE:88:GLY:CA	2.48	0.43
30:DG:23:PHE:HB2	30:DG:25:TYR:CZ	2.54	0.43
35:DO:68:GLN:CG	54:D8:12:LYS:HG2	2.48	0.43
35:DO:97:PRO:HB3	35:DO:106:LEU:HD21	2.00	0.43
36:DP:112:GLU:H	36:DP:112:GLU:HG2	1.51	0.43
43:DT:67:GLY:O	43:DT:69:TYR:N	2.47	0.43
44:DU:12:THR:OG1	44:DU:26:LYS:HE2	2.17	0.43
1:AA:241:C:H42	1:AA:285:G:H1	1.66	0.43
1:AA:406:G:C6	1:AA:495:A:C8	3.06	0.43
1:AA:606:G:H2'	1:AA:606:G:N3	2.34	0.43
1:AA:691:G:H1'	1:AA:696:A:N6	2.34	0.43
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.18	0.43
1:AA:1320:C:N4	19:AV:36:ARG:HG3	2.33	0.43
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.53	0.43
1:AA:1449:C:H2'	1:AA:1450:U:O4'	2.18	0.43
2:AE:82:ARG:HG2	2:AE:92:TYR:CE1	2.54	0.43
2:AE:82:ARG:HG2	2:AE:92:TYR:OH	2.18	0.43
3:AF:15:THR:O	3:AF:15:THR:HG23	2.19	0.43
8:AK:100:ILE:HA	8:AK:101:PRO:HD3	1.89	0.43
9:AL:111:ARG:O	9:AL:113:LYS:HD2	2.18	0.43
19:AV:37:ARG:H	19:AV:37:ARG:HG3	1.48	0.43
23:AC:59:A:N6	23:AC:62:C:O2	2.52	0.43
25:BA:404:C:C1'	25:BA:405:U:OP2	2.66	0.43
25:BA:898:C:C3'	25:BA:899:A:H5'	2.49	0.43
25:BA:943:U:OP2	35:BO:36:LYS:HE3	2.19	0.43
25:BA:1818:U:H4'	25:BA:1821:A:H1'	2.00	0.43
25:BA:2115:G:H2'	25:BA:2116:G:C8	2.43	0.43
25:BA:2364:C:H2'	25:BA:2365:G:O4'	2.18	0.43
25:BA:2389:G:H5"	25:BA:2390:U:O4'	2.18	0.43
25:BA:2591:C:P	27:BD:239:ARG:HG3	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:33:LEU:CD1	27:BD:34:VAL:N	2.82	0.43
27:BD:48:ARG:O	27:BD:50:THR:HG23	2.18	0.43
28:BE:61:ARG:C	28:BE:63:LEU:N	2.73	0.43
30:BG:32:PRO:HG3	30:BG:163:ALA:HB2	2.01	0.43
30:BG:145:THR:O	30:BG:146:TYR:HB3	2.18	0.43
31:BH:30:LYS:NZ	31:BH:83:TYR:HE2	2.16	0.43
33:BM:58:ASP:OD1	33:BM:58:ASP:C	2.61	0.43
35:BO:29:LYS:HB3	35:BO:30:THR:H	1.47	0.43
39:BR:16:ARG:HG3	39:BR:16:ARG:NH1	2.33	0.43
39:BR:91:ARG:O	39:BR:116:ALA:HA	2.18	0.43
1:CA:15:G:H4'	5:CH:24:ARG:HH12	1.83	0.43
1:CA:24:U:H2'	1:CA:25:C:C6	2.54	0.43
1:CA:39:G:N7	1:CA:547:A:H8	2.16	0.43
1:CA:123:C:O5'	1:CA:123:C:H6	2.00	0.43
1:CA:586:C:O2'	1:CA:878:G:H4'	2.19	0.43
1:CA:1002:G:H1	1:CA:1038:C:N4	2.17	0.43
1:CA:1252:A:H2'	1:CA:1253:G:O5'	2.19	0.43
3:CF:54:ARG:HB2	3:CF:69:HIS:CG	2.54	0.43
6:CI:2:ARG:NH2	6:CI:69:GLU:HG3	2.33	0.43
12:CO:47:LYS:CB	12:CO:48:PRO:CD	2.95	0.43
18:CU:87:ARG:HD3	18:CU:87:ARG:HA	1.70	0.43
19:CV:45:VAL:HA	19:CV:62:ILE:CG2	2.47	0.43
19:CV:48:THR:HG22	19:CV:61:TYR:CD1	2.54	0.43
20:CW:41:ILE:HG13	20:CW:41:ILE:H	1.59	0.43
23:CC:18:C:O2'	23:CC:19:G:C5'	2.66	0.43
25:DA:26:G:O2'	25:DA:27:G:H5'	2.19	0.43
25:DA:184:C:H2'	25:DA:185:U:C6	2.54	0.43
25:DA:479:A:N3	25:DA:481:G:H5"	2.33	0.43
25:DA:577:G:O2'	25:DA:1254:A:OP1	2.37	0.43
25:DA:590:A:H2'	25:DA:591:C:O4'	2.19	0.43
25:DA:616:A:C4	29:DF:180:GLY:HA2	2.54	0.43
25:DA:778:G:H2'	25:DA:779:U:H6	1.83	0.43
25:DA:797:C:H2'	25:DA:798:G:O4'	2.19	0.43
25:DA:1041:C:H2'	25:DA:1042:G:H8	1.83	0.43
25:DA:1225:C:H5"	41:D2:85:LYS:HD3	1.99	0.43
25:DA:1247:A:C2	25:DA:1249:U:C6	3.07	0.43
25:DA:1262:A:C2	51:D5:10:LYS:HE3	2.54	0.43
25:DA:1356:G:C6	25:DA:1357:U:C4	3.06	0.43
25:DA:1545:A:N7	25:DA:1545(A):A:C6	2.87	0.43
25:DA:1559:G:O2'	25:DA:1560:G:H5'	2.18	0.43
25:DA:2015:A:N3	51:D5:6:VAL:HG23	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2211:G:H3'	25:DA:2212:A:C2	2.52	0.43
25:DA:2656:U:C4	25:DA:2664:G:N2	2.86	0.43
25:DA:2658:C:H5"	31:DH:158:HIS:HE1	1.82	0.43
25:DA:2682:U:H5'	28:DE:11:MET:HB3	2.00	0.43
25:DA:2721:A:H1'	25:DA:2873:A:O2'	2.19	0.43
27:DD:85:ASP:HA	27:DD:86:PRO:HD2	1.85	0.43
28:DE:47:VAL:O	28:DE:80:GLU:CB	2.67	0.43
29:DF:102:PRO:O	29:DF:105:VAL:N	2.52	0.43
29:DF:182:ASN:O	29:DF:186:ILE:HG12	2.19	0.43
30:DG:161:THR:HG22	30:DG:163:ALA:N	2.13	0.43
31:DH:102:ALA:HB1	31:DH:115:VAL:C	2.42	0.43
32:DK:76:THR:CG2	32:DK:139:GLN:O	2.66	0.43
32:DK:128:LEU:HD13	32:DK:128:LEU:HA	1.85	0.43
34:DN:68:GLU:HB3	34:DN:78:ARG:HB3	2.00	0.43
36:DP:139:GLU:OE1	45:DV:76:LEU:HD21	2.18	0.43
43:DT:65:ARG:HB3	43:DT:70:LEU:HA	2.01	0.43
47:DZ:67:ILE:N	47:DZ:68:PRO:CD	2.80	0.43
51:D5:34:PRO:HG2	51:D5:35:GLU:OE2	2.19	0.43
54:D8:30:ARG:O	54:D8:30:ARG:CG	2.67	0.43
1:AA:31:G:O2'	1:AA:48:C:N4	2.51	0.43
1:AA:376:G:C5'	16:AS:5:ARG:HD2	2.45	0.43
1:AA:475:G:H2'	1:AA:476:G:C8	2.54	0.43
1:AA:560:U:H5'	1:AA:566:G:N2	2.34	0.43
1:AA:874:G:C6	1:AA:875:C:C4	3.07	0.43
1:AA:1279:A:H5'	10:AM:7:LYS:NZ	2.34	0.43
2:AE:80:ILE:CD1	2:AE:208:ILE:HG23	2.46	0.43
5:AH:100:VAL:HG23	5:AH:116:THR:O	2.18	0.43
9:AL:95:LYS:HE2	9:AL:95:LYS:HB2	1.67	0.43
10:AM:48:THR:HG23	10:AM:62:HIS:CG	2.54	0.43
20:AW:45:GLN:HB2	20:AW:91:LEU:HD13	2.00	0.43
22:AB:13:G:N2	22:AB:23:A:C8	2.87	0.43
23:AD:10:G:N1	23:AD:27:G:N2	2.67	0.43
23:AD:39:A:H2'	23:AD:40:C:O5'	2.19	0.43
25:BA:271(C):U:C2'	25:BA:271:G:OP1	2.66	0.43
25:BA:583:G:OP2	40:B1:10:ARG:HD2	2.19	0.43
25:BA:609:A:H2'	25:BA:609(A):G:O4'	2.18	0.43
25:BA:755:C:C2'	25:BA:756:C:H5'	2.49	0.43
25:BA:817:C:O2'	25:BA:839:U:H5"	2.19	0.43
25:BA:950:G:H2'	25:BA:951:C:C6	2.54	0.43
25:BA:1136:G:H2'	25:BA:1136:G:N3	2.34	0.43
25:BA:1474:C:H2'	25:BA:1475:G:H8	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1510:A:H2'	25:BA:1511:A:OP2	2.19	0.43
25:BA:1701:A:H2'	25:BA:1702:G:H5'	2.01	0.43
25:BA:1728:G:H5'	25:BA:1729:A:OP2	2.19	0.43
25:BA:1742:C:H5'	25:BA:1743:G:OP2	2.19	0.43
25:BA:2134:A:N6	25:BA:2157:G:C1'	2.79	0.43
25:BA:2401:U:H2'	25:BA:2402:C:H5"	2.01	0.43
25:BA:2699:C:H2'	25:BA:2700:C:O4'	2.19	0.43
25:BA:2749:A:O2'	31:BH:59:ARG:NE	2.52	0.43
25:BA:2810:A:H61	25:BA:2891:G:C2'	2.32	0.43
26:BB:24:G:N7	26:BB:56:G:H2'	2.33	0.43
27:BD:120:GLY:O	27:BD:123:ALA:HB2	2.18	0.43
28:BE:13:ARG:HG3	28:BE:13:ARG:H	1.65	0.43
28:BE:34:VAL:O	28:BE:34:VAL:HG23	2.19	0.43
30:BG:67:LYS:HE2	50:B4:6:HIS:NE2	2.27	0.43
30:BG:112:PRO:HB3	50:B4:37:SER:OG	2.18	0.43
30:BG:112:PRO:CB	50:B4:37:SER:H	2.32	0.43
36:BP:4:PRO:HD3	36:BP:70:PRO:O	2.19	0.43
51:B5:3:LYS:O	51:B5:4:HIS:O	2.37	0.43
52:B6:15:GLU:OE1	52:B6:41:PRO:HB3	2.18	0.43
1:CA:160:A:H1'	1:CA:344:A:C5	2.54	0.43
1:CA:413:G:N2	1:CA:429:U:C6	2.86	0.43
1:CA:633:G:C6	1:CA:634:C:N3	2.86	0.43
1:CA:1157:A:N6	1:CA:1178:G:C2	2.87	0.43
2:CE:144:ARG:HG3	2:CE:145:LEU:N	2.33	0.43
2:CE:212:GLN:O	2:CE:216:SER:HB3	2.19	0.43
3:CF:180:ALA:HB1	3:CF:203:PHE:CE1	2.43	0.43
9:CL:70:LYS:O	9:CL:74:ILE:HG13	2.18	0.43
17:CT:11:VAL:HG11	17:CT:88:TYR:CD2	2.53	0.43
17:CT:65:ILE:HG22	17:CT:65:ILE:O	2.18	0.43
18:CU:53:ARG:HH21	18:CU:60:ALA:N	2.17	0.43
20:CW:64:ASP:OD1	20:CW:81:LYS:CD	2.67	0.43
23:CC:18:C:O2'	23:CC:19:G:H5"	2.19	0.43
24:C1:20:U:H2'	24:C1:21:U:C6	2.53	0.43
25:DA:818:G:H4'	25:DA:838:C:O3'	2.18	0.43
25:DA:846:C:N1	25:DA:847:U:C5	2.87	0.43
25:DA:1244:G:C2'	25:DA:1245:G:H5'	2.48	0.43
25:DA:1345:C:C2'	25:DA:1346:G:H5'	2.49	0.43
25:DA:1356:G:C5	25:DA:1357:U:C5	3.07	0.43
25:DA:1528:A:H2'	25:DA:1529:A:O4'	2.19	0.43
25:DA:2322:A:H2'	25:DA:2323:G:O4'	2.19	0.43
25:DA:2563:U:O2	25:DA:2565:A:H8	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2629:A:C8	25:DA:2895:U:C5	3.07	0.43
26:DB:89(A):A:C8	26:DB:90:C:H1'	2.53	0.43
27:DD:89:SER:HB2	27:DD:159:ALA:CB	2.49	0.43
27:DD:125:ILE:O	27:DD:126:GLN:HG3	2.18	0.43
29:DF:157:VAL:HA	29:DF:176:LEU:O	2.18	0.43
31:DH:109:PHE:CZ	31:DH:152:ARG:CD	3.01	0.43
32:DK:97:ILE:HD13	32:DK:140:LEU:HD22	2.01	0.43
33:DM:56:ASN:HA	33:DM:125:GLY:H	1.83	0.43
36:DP:23:GLY:HA2	36:DP:24:GLY:HA3	1.74	0.43
48:DW:50:ILE:O	48:DW:54:LYS:HB2	2.18	0.43
52:D6:28:ARG:HD2	52:D6:30:THR:O	2.19	0.43
54:D8:55:ALA:O	54:D8:58:ILE:HG12	2.18	0.43
1:AA:36:C:OP1	12:AO:123:LYS:NZ	2.35	0.43
1:AA:38:G:H4'	1:AA:547:A:N6	2.34	0.43
1:AA:431:A:H2'	1:AA:432:A:O4'	2.19	0.43
1:AA:509:A:H5"	4:AG:55:ALA:HB2	2.01	0.43
1:AA:856:C:H2'	1:AA:857:C:H5'	2.01	0.43
1:AA:1023:G:C3'	1:AA:1024:G:H5"	2.45	0.43
1:AA:1118:C:OP1	9:AL:9:ARG:HD3	2.19	0.43
1:AA:1263:C:O2'	1:AA:1264:C:H5'	2.19	0.43
2:AE:48:MET:HE3	2:AE:48:MET:HB3	1.89	0.43
3:AF:95:THR:HG22	3:AF:96:GLY:H	1.84	0.43
4:AG:79:PHE:HE1	4:AG:204:ILE:CG1	2.29	0.43
5:AH:91:LEU:HD12	5:AH:120:THR:CG2	2.48	0.43
12:AO:24:VAL:CG1	12:AO:98:TYR:HE2	2.32	0.43
13:AP:64:TRP:CD1	13:AP:64:TRP:N	2.87	0.43
14:AQ:3:ARG:HD3	14:AQ:3:ARG:HA	1.49	0.43
16:AS:12:LYS:O	16:AS:13:HIS:HB2	2.18	0.43
16:AS:21:VAL:HG23	16:AS:34:GLU:C	2.43	0.43
22:AB:53:A:H5"	22:AB:54:G:OP2	2.18	0.43
23:AD:53:G:H1	23:AD:63:C:H42	1.67	0.43
25:BA:8:A:H2'	25:BA:9:U:O4'	2.18	0.43
25:BA:67:U:O4	25:BA:74:A:N1	2.52	0.43
25:BA:382:G:N2	25:BA:393:C:C2	2.86	0.43
25:BA:986:C:C2'	25:BA:987:G:H5'	2.48	0.43
25:BA:1021:A:H3'	25:BA:1021:A:H8	1.83	0.43
25:BA:1263:U:H1'	51:B5:10:LYS:HG3	2.00	0.43
25:BA:1952:A:C6	34:BN:22:ILE:CD1	3.02	0.43
25:BA:2037:G:H2'	25:BA:2038:G:H8	1.83	0.43
25:BA:2147:G:H2'	25:BA:2148:G:O4'	2.19	0.43
25:BA:2212:A:N3	25:BA:2215:G:C2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2262:U:H4'	25:BA:2328:A:H2	1.83	0.43
25:BA:2279:G:OP2	46:B3:11:ARG:NH2	2.51	0.43
25:BA:2881:C:O2'	37:B0:96:ARG:HA	2.18	0.43
26:BB:6:C:H2'	26:BB:7:G:H5"	2.01	0.43
27:BD:69:ARG:HH12	27:BD:117:VAL:HG13	1.84	0.43
27:BD:158:ALA:HB3	27:BD:161:THR:HG21	2.01	0.43
28:BE:75:VAL:CG2	28:BE:76:ARG:H	2.16	0.43
29:BF:34:TRP:CH2	35:BO:8:PRO:HB3	2.54	0.43
32:BK:88:ILE:HG22	32:BK:90:GLY:N	2.34	0.43
33:BM:130:HIS:HB3	33:BM:134:ARG:NH1	2.20	0.43
35:BO:26:GLY:O	35:BO:28:GLY:N	2.52	0.43
35:BO:64:LYS:CD	54:B8:25:MET:CE	2.81	0.43
36:BP:58:PHE:O	36:BP:58:PHE:CD1	2.72	0.43
37:B0:107:ASP:OD2	37:B0:107:ASP:C	2.62	0.43
44:BU:38:ILE:O	44:BU:38:ILE:HG12	2.19	0.43
44:BU:76:CYS:CB	44:BU:77:PRO:CD	2.97	0.43
46:B3:24:LYS:O	46:B3:25:ARG:HD3	2.18	0.43
50:B4:48:ARG:O	50:B4:51:ASP:HB3	2.18	0.43
1:CA:17:U:H2'	1:CA:18:C:C6	2.53	0.43
1:CA:197:A:N1	1:CA:221:C:H4'	2.33	0.43
1:CA:406:G:H5'	4:CG:5:ILE:CG2	2.49	0.43
1:CA:915:A:H2'	1:CA:916:G:O5'	2.19	0.43
1:CA:1205:U:C6	1:CA:1205:U:H3'	2.54	0.43
1:CA:1220:G:O3'	19:CV:36:ARG:HD3	2.18	0.43
1:CA:1327:C:H2'	1:CA:1328:C:H6	1.82	0.43
12:CO:117:ARG:NH2	12:CO:124:LYS:HA	2.33	0.43
16:CS:47:ASP:O	16:CS:47:ASP:CG	2.62	0.43
25:DA:270(Q):C:H5'	25:DA:270(R):G:OP2	2.19	0.43
25:DA:464:U:H4'	53:D7:5:TRP:CZ3	2.54	0.43
25:DA:675:A:C4	25:DA:804:A:C2	3.07	0.43
25:DA:1000:A:N6	25:DA:1155:A:C8	2.87	0.43
25:DA:1225:C:O3'	41:D2:85:LYS:HD3	2.18	0.43
25:DA:1386:C:OP2	25:DA:1396:U:H5	2.02	0.43
25:DA:1418:G:OP1	25:DA:1588:C:O2'	2.36	0.43
25:DA:2115:G:H1'	25:DA:2171:A:C6	2.54	0.43
25:DA:2688:U:H1'	25:DA:2721:A:N6	2.33	0.43
25:DA:2773:C:OP1	28:DE:166:THR:OG1	2.36	0.43
26:DB:75:G:N1	26:DB:102:G:N2	2.67	0.43
27:DD:35:LYS:CE	27:DD:65:ILE:HG22	2.49	0.43
28:DE:8:LYS:CE	28:DE:188:VAL:HG13	2.48	0.43
28:DE:36:ARG:NH2	28:DE:88:GLY:CA	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:4:VAL:CG1	29:DF:17:ARG:HE	2.31	0.43
30:DG:111:LEU:O	30:DG:117:PHE:CD2	2.71	0.43
32:DK:41:GLU:H	32:DK:41:GLU:HG3	1.53	0.43
33:DM:128:HIS:HE2	33:DM:134:ARG:CD	2.30	0.43
34:DN:79:PHE:HD2	39:DR:72:VAL:HG22	1.84	0.43
39:DR:16:ARG:HH21	39:DR:19:LEU:HD11	1.83	0.43
40:D1:58:ARG:HA	40:D1:61:TRP:CE3	2.54	0.43
42:DS:59:VAL:HG13	42:DS:60:ASN:N	2.33	0.43
47:DZ:4:VAL:HG12	47:DZ:11:ARG:CB	2.46	0.43
54:D8:58:ILE:HG12	54:D8:58:ILE:H	1.66	0.43
1:AA:24:U:O2'	1:AA:25:C:H5'	2.19	0.43
1:AA:102:G:C6	1:AA:103:C:C4	3.07	0.43
1:AA:232:G:H1'	1:AA:262:A:N1	2.33	0.43
1:AA:547:A:OP2	4:AG:2:GLY:HA2	2.18	0.43
1:AA:974:A:O2'	1:AA:975:A:OP2	2.34	0.43
1:AA:1028(A):C:N3	1:AA:1028(B):C:N4	2.66	0.43
1:AA:1111:A:N6	3:AF:177:THR:HA	2.33	0.43
3:AF:108:ASN:ND2	3:AF:144:SER:OG	2.51	0.43
4:AG:4:TYR:CZ	4:AG:5:ILE:O	2.72	0.43
6:AI:23:LYS:HB2	6:AI:23:LYS:NZ	2.34	0.43
6:AI:75:LEU:HD22	6:AI:79:LEU:HG	2.00	0.43
9:AL:22:GLY:O	9:AL:57:GLY:O	2.37	0.43
11:AN:99:GLN:HG2	11:AN:105:VAL:HG21	2.01	0.43
12:AO:38:THR:O	12:AO:79:GLU:HG3	2.18	0.43
14:AQ:26:ARG:HD2	14:AQ:47:LEU:HD11	2.00	0.43
16:AS:20:VAL:HG22	16:AS:32:TYR:HB2	2.01	0.43
17:AT:26:GLN:HG2	17:AT:37:LYS:HG2	2.00	0.43
19:AV:30:LEU:H	19:AV:30:LEU:CD1	2.31	0.43
19:AV:42:PRO:HD3	50:B4:63:TYR:CE1	2.54	0.43
19:AV:44:MET:O	19:AV:47:HIS:HB2	2.19	0.43
23:AD:8:U:C5	23:AD:13:C:N4	2.86	0.43
25:BA:455:C:N3	25:BA:472:A:H2'	2.34	0.43
25:BA:495:G:H1'	42:BS:57:ASN:HD21	1.83	0.43
25:BA:618:G:H2'	25:BA:618(A):C:O4'	2.19	0.43
25:BA:834:C:C2'	25:BA:835:A:H5'	2.49	0.43
25:BA:856:C:H2'	25:BA:857:C:O5'	2.18	0.43
25:BA:989:G:C5	49:BX:13:ILE:HD12	2.54	0.43
25:BA:1026:U:O2	25:BA:1027:A:H3'	2.18	0.43
25:BA:1448:G:N2	25:BA:1449:A:N6	2.67	0.43
25:BA:1541:U:O2'	25:BA:1542:G:H5'	2.19	0.43
25:BA:1582:C:H2'	25:BA:1583:A:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1590:U:H2'	25:BA:1591:G:H8	1.81	0.43
25:BA:1925:C:O2'	25:BA:1926:U:H5'	2.18	0.43
25:BA:2701:C:H2'	25:BA:2702:U:H2'	2.01	0.43
25:BA:2822:G:H2'	25:BA:2823:A:H5"	2.01	0.43
25:BA:2881:C:N4	25:BA:2882:A:N6	2.66	0.43
26:BB:89(A):A:H8	26:BB:89(A):A:O5'	2.00	0.43
31:BH:161:GLY:O	31:BH:163:TYR:CD1	2.72	0.43
32:BK:73:GLU:HG3	32:BK:137:PRO:CD	2.46	0.43
34:BN:22:ILE:HD12	34:BN:22:ILE:HA	1.63	0.43
34:BN:23:ARG:HG3	34:BN:24:VAL:H	1.83	0.43
35:BO:21:ARG:HB3	35:BO:22:GLY:H	1.57	0.43
35:BO:56:SER:O	35:BO:57:THR:C	2.62	0.43
38:BQ:32:LEU:O	38:BQ:62:LYS:NZ	2.47	0.43
39:BR:124:ASP:O	39:BR:127:ALA:N	2.52	0.43
42:BS:29:LEU:O	42:BS:33:ARG:HG3	2.19	0.43
43:BT:26:TYR:HB3	43:BT:92:LEU:HD12	2.00	0.43
51:B5:36:CYS:SG	51:B5:48:GLU:O	2.77	0.43
53:B7:23:ARG:HH11	53:B7:23:ARG:HG2	1.83	0.43
54:B8:61:LEU:O	54:B8:62:LEU:HB2	2.18	0.43
1:CA:397:A:H3'	1:CA:397:A:N3	2.34	0.43
1:CA:578:C:C2	1:CA:579:G:C8	3.07	0.43
1:CA:720:C:O2	18:CU:71:LYS:NZ	2.43	0.43
1:CA:1342:C:H4'	9:CL:125:TYR:HB3	2.01	0.43
3:CF:182:ILE:HG23	3:CF:202:ILE:O	2.19	0.43
4:CG:118:ARG:HB2	4:CG:118:ARG:HH21	1.83	0.43
4:CG:126:ILE:HG22	4:CG:127:THR:N	2.34	0.43
6:CI:14:LEU:HB2	6:CI:18:GLN:OE1	2.19	0.43
9:CL:45:ALA:O	9:CL:48:GLU:HB2	2.19	0.43
9:CL:97:LYS:HG3	9:CL:98:PRO:CD	2.49	0.43
12:CO:110:VAL:HG21	12:CO:120:TYR:HB3	2.01	0.43
13:CP:19:LEU:O	13:CP:22:ILE:HG13	2.19	0.43
14:CQ:4:LYS:C	14:CQ:6:LEU:H	2.26	0.43
18:CU:70:ILE:O	18:CU:74:ARG:HG3	2.19	0.43
22:CB:70:G:C3'	22:CB:71:U:C6	3.01	0.43
23:CD:8:U:C5	23:CD:13:C:C4	3.06	0.43
23:CD:23:G:C2	23:CD:24:C:C2	3.07	0.43
25:DA:5:A:H61	25:DA:2898:U:H3	1.66	0.43
25:DA:15:G:C2	25:DA:16:G:C8	3.06	0.43
25:DA:30:G:C5	25:DA:31:C:C4	3.07	0.43
25:DA:329:G:C5	44:DU:19:LYS:HG2	2.54	0.43
25:DA:392:C:H5"	25:DA:409:C:H5"	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:454:A:H4'	25:DA:455:C:OP2	2.18	0.43
25:DA:558:G:P	33:DM:111:PRO:HD2	2.59	0.43
25:DA:654(A):A:C2	25:DA:654(U):A:N3	2.87	0.43
25:DA:755:C:H2'	25:DA:756:C:H6	1.83	0.43
25:DA:1005:C:O2	25:DA:1143:A:C6	2.71	0.43
25:DA:1048:A:OP2	25:DA:1109:C:N4	2.52	0.43
25:DA:1300:U:C4'	25:DA:1301:A:H5"	2.44	0.43
25:DA:1319:G:C6	25:DA:1320:C:N4	2.87	0.43
25:DA:1416:G:C2'	25:DA:1417:C:H6	2.32	0.43
25:DA:1416:G:HO2'	25:DA:1417:C:H6	1.67	0.43
25:DA:1445:C:H2'	25:DA:1446:C:C6	2.53	0.43
25:DA:1779:U:C6	25:DA:1783:A:N7	2.87	0.43
25:DA:2092:U:H4'	25:DA:2093:G:O5'	2.19	0.43
25:DA:2134:A:O2'	25:DA:2159:G:N2	2.52	0.43
25:DA:2136:C:H2'	25:DA:2137:C:C6	2.54	0.43
25:DA:2574:G:O2'	28:DE:143:ASN:HB3	2.19	0.43
25:DA:2658:C:H5"	31:DH:158:HIS:CE1	2.54	0.43
28:DE:48:GLN:CG	28:DE:78:LEU:HB2	2.49	0.43
29:DF:51:THR:CG2	29:DF:92:PRO:HD2	2.48	0.43
31:DH:37:VAL:HG22	31:DH:38:SER:H	1.84	0.43
32:DK:145:VAL:O	32:DK:146:ALA:HB3	2.19	0.43
34:DN:2:ILE:HD11	34:DN:82:ASN:ND2	2.34	0.43
34:DN:119:PRO:HB2	39:DR:68:TYR:CE2	2.54	0.43
35:DO:97:PRO:HG3	35:DO:112:LEU:HB2	2.01	0.43
36:DP:61:GLY:HA2	36:DP:62:GLY:HA3	1.71	0.43
38:DQ:93:LYS:HB2	38:DQ:93:LYS:HE3	1.72	0.43
39:DR:33:LYS:HE2	39:DR:42:ILE:HD11	2.01	0.43
41:D2:19:LYS:H	41:D2:19:LYS:HG3	1.49	0.43
47:DZ:6:GLU:O	47:DZ:91:LYS:HE2	2.18	0.43
47:DZ:82:LEU:HB2	47:DZ:83:GLU:H	1.69	0.43
48:DW:17:SER:CB	48:DW:21:LEU:H	2.32	0.43
50:D4:32:TYR:HB3	50:D4:33:VAL:H	1.59	0.43
50:D4:42:PHE:O	50:D4:43:TYR:HB3	2.18	0.43
52:D6:34:LEU:O	52:D6:35:GLU:HB2	2.18	0.43
54:D8:60:LEU:C	54:D8:61:LEU:CG	2.87	0.43
1:AA:447:G:O6	1:AA:485:G:O2'	2.34	0.42
1:AA:687:A:H2'	1:AA:701:C:H41	1.84	0.42
1:AA:1202:G:H2'	1:AA:1203:C:O5'	2.18	0.42
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.18	0.42
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.34	0.42
3:AF:12:LEU:C	3:AF:14:ILE:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:25:ARG:C	4:AG:27:TYR:N	2.74	0.42
4:AG:108:LEU:HD12	4:AG:174:LEU:HD13	2.01	0.42
9:AL:77:ILE:O	9:AL:81:ILE:HG12	2.19	0.42
17:AT:27:PHE:CE1	17:AT:36:ILE:HD11	2.54	0.42
19:AV:43:GLU:H	19:AV:43:GLU:HG2	1.42	0.42
25:BA:96:G:C2	25:BA:97:C:C6	3.06	0.42
25:BA:221:A:C4	25:BA:266:G:N7	2.87	0.42
25:BA:343:C:O2'	25:BA:344:G:H5'	2.18	0.42
25:BA:882:G:H1	25:BA:894:C:H42	1.67	0.42
25:BA:984:A:H5"	25:BA:985:C:H5	1.84	0.42
25:BA:1062:G:C2'	25:BA:1063:G:C8	2.98	0.42
25:BA:1209:G:N2	25:BA:1210:A:H62	2.14	0.42
25:BA:1263:U:O2'	51:B5:11:THR:HG23	2.18	0.42
25:BA:1468:C:O2'	25:BA:1469:A:H5'	2.19	0.42
25:BA:1825:A:O4'	27:BD:254:THR:HG21	2.19	0.42
25:BA:2116:G:OP1	25:BA:2165:G:N2	2.50	0.42
25:BA:2156:G:H2'	25:BA:2157:G:N3	2.34	0.42
25:BA:2428:G:H5"	25:BA:2429:G:OP1	2.19	0.42
28:BE:35:GLN:CG	28:BE:36:ARG:N	2.69	0.42
32:BK:92:VAL:O	32:BK:92:VAL:HG22	2.19	0.42
33:BM:134:ARG:O	33:BM:136:GLU:N	2.52	0.42
35:BO:106:LEU:O	35:BO:106:LEU:HD22	2.19	0.42
36:BP:26:TYR:CE2	36:BP:28:ALA:HB2	2.52	0.42
38:BQ:106:ARG:HH22	38:BQ:107:GLU:HB2	1.77	0.42
41:B2:8:GLY:O	41:B2:10:LYS:HE3	2.19	0.42
43:BT:11:PRO:HB3	43:BT:92:LEU:CD2	2.49	0.42
50:B4:54:GLY:O	50:B4:55:ARG:C	2.61	0.42
1:CA:255:G:O3'	17:CT:17:LYS:HD2	2.20	0.42
1:CA:422:C:O2'	1:CA:423:G:N3	2.51	0.42
1:CA:959:A:H5"	1:CA:960:U:OP2	2.19	0.42
1:CA:974:A:P	14:CQ:41:ARG:HH22	2.42	0.42
1:CA:1084:G:C5	1:CA:1085:U:C4	3.07	0.42
1:CA:1128:C:O2'	1:CA:1129:C:P	2.73	0.42
1:CA:1294:G:C2'	1:CA:1295:G:H5'	2.49	0.42
3:CF:95:THR:O	3:CF:95:THR:HG22	2.19	0.42
9:CL:114:TYR:CE1	10:CM:60:ARG:O	2.71	0.42
18:CU:44:LEU:CD2	18:CU:79:LEU:HD13	2.49	0.42
19:CV:11:VAL:HG21	19:CV:16:LEU:HD11	2.01	0.42
23:CC:14:A:C6	23:CC:23:G:C5	3.07	0.42
25:DA:207:A:H2'	25:DA:208:C:O4'	2.19	0.42
25:DA:270(H):C:H2'	25:DA:270(I):G:H8	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:270(R):G:H2'	25:DA:270(S):G:H8	1.84	0.42
25:DA:311:A:C6	25:DA:328:U:C4	3.07	0.42
25:DA:483:A:H5"	44:DU:49:VAL:HA	2.01	0.42
25:DA:607:U:C2	25:DA:621:A:N1	2.86	0.42
25:DA:777:A:C2	25:DA:778:G:C8	3.07	0.42
25:DA:833:U:O2	35:DO:55:ARG:NH2	2.51	0.42
25:DA:909:A:C4	25:DA:912:C:C5	3.07	0.42
25:DA:943:U:OP2	35:DO:36:LYS:CE	2.66	0.42
25:DA:1043:C:H42	25:DA:1112:G:H1	1.67	0.42
25:DA:1639:U:C2'	25:DA:1640:C:H5'	2.49	0.42
25:DA:1919:A:H5"	25:DA:1920:C:OP2	2.19	0.42
25:DA:2464:C:C2	25:DA:2487:G:C2	3.07	0.42
25:DA:2548:G:C2'	25:DA:2549:G:O5'	2.67	0.42
25:DA:2667:C:N3	31:DH:110:SER:OG	2.43	0.42
25:DA:2690:C:OP2	25:DA:2690:C:H6	2.02	0.42
26:DB:80:U:H2'	26:DB:81:G:H21	1.83	0.42
29:DF:29:ASN:N	29:DF:112:MET:HE1	2.33	0.42
31:DH:89:ILE:HG21	31:DH:129:THR:HG22	2.01	0.42
38:DQ:49:VAL:HG23	38:DQ:80:LEU:HD12	2.01	0.42
40:D1:17:ILE:HG23	40:D1:39:LEU:HD12	2.01	0.42
40:D1:112:ARG:HD3	41:D2:47:VAL:HG11	2.01	0.42
43:DT:64:LYS:HD3	43:DT:73:ARG:CZ	2.49	0.42
44:DU:61:ILE:HG22	44:DU:62:GLU:OE2	2.18	0.42
45:DV:11:GLU:O	45:DV:36:LYS:NZ	2.47	0.42
48:DW:15:LYS:HA	48:DW:67:LYS:NZ	2.34	0.42
53:D7:43:THR:HG23	53:D7:44:PRO:HD2	2.01	0.42
54:D8:32:LEU:HB2	54:D8:33:ASN:H	1.64	0.42
54:D8:37:SER:O	54:D8:39:LYS:O	2.37	0.42
54:D8:39:LYS:O	54:D8:40:GLU:C	2.62	0.42
1:AA:533:A:C2	1:AA:536:C:C6	3.07	0.42
1:AA:782:A:C8	1:AA:783:C:C5	3.07	0.42
1:AA:1219:U:OP1	14:AQ:19:ARG:NH2	2.39	0.42
1:AA:1434:A:H2'	1:AA:1435:G:O4'	2.20	0.42
2:AE:178:ARG:HH11	2:AE:178:ARG:HB2	1.84	0.42
7:AJ:21:VAL:HG23	7:AJ:22:LEU:N	2.34	0.42
15:AR:74:ASP:CB	15:AR:77:ARG:HG2	2.48	0.42
22:AB:24:C:C6	22:AB:24:C:C3'	3.02	0.42
25:BA:116:C:C2'	25:BA:117:G:O5'	2.67	0.42
25:BA:908:C:O2'	25:BA:909:A:H5'	2.19	0.42
25:BA:947:G:N3	25:BA:984:A:H2	2.17	0.42
25:BA:1005:C:O2'	33:BM:28:THR:HG21	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1458:C:H4'	25:BA:1459:G:O5'	2.18	0.42
25:BA:1525:G:O2'	25:BA:1526:G:O5'	2.20	0.42
25:BA:1931:U:C5	25:BA:1969:A:N7	2.81	0.42
25:BA:1976:U:O5'	25:BA:1976:U:H6	2.02	0.42
25:BA:2050:C:H2'	25:BA:2051:A:C8	2.55	0.42
25:BA:2168:G:N2	25:BA:2170:A:C8	2.87	0.42
25:BA:2199:A:H3'	25:BA:2205:C:C6	2.49	0.42
25:BA:2250:G:C5	36:BP:82:ARG:HD3	2.54	0.42
25:BA:2286:A:H8	52:B6:37:ARG:HH11	1.66	0.42
25:BA:2401:U:O2	25:BA:2402:C:C5	2.72	0.42
25:BA:2528:U:H2'	25:BA:2530:A:O5'	2.19	0.42
25:BA:2875:C:O2'	39:BR:5:ALA:CB	2.67	0.42
30:BG:61:ALA:O	50:B4:7:PRO:HG3	2.18	0.42
31:BH:6:ARG:NE	31:BH:54:ARG:HH12	2.17	0.42
31:BH:97:ARG:HH21	31:BH:104:GLU:CD	2.27	0.42
39:BR:74:ARG:NH1	39:BR:74:ARG:CG	2.73	0.42
40:B1:92:ARG:HH21	41:B2:10:LYS:HG2	1.85	0.42
41:B2:39:LEU:O	41:B2:40:LEU:CD2	2.67	0.42
43:BT:67:GLY:C	43:BT:69:TYR:H	2.16	0.42
44:BU:96:ILE:HG23	44:BU:101:LYS:CG	2.36	0.42
45:BV:171:ILE:HG22	45:BV:171:ILE:O	2.19	0.42
50:B4:15:ILE:HG13	50:B4:32:TYR:HA	2.00	0.42
51:B5:40:LYS:CG	51:B5:46:CYS:HB3	2.48	0.42
51:B5:42:PRO:O	51:B5:44:THR:N	2.52	0.42
53:B7:15:THR:HG22	53:B7:16:HIS:CE1	2.54	0.42
1:CA:76:G:C6	1:CA:77:C:C4	3.07	0.42
1:CA:502:G:C2	1:CA:503:C:C2	3.07	0.42
1:CA:543:C:C2'	1:CA:544:G:H5'	2.48	0.42
1:CA:593:G:C2	1:CA:647:C:O2	2.72	0.42
1:CA:1097:C:OP1	2:CE:137:ARG:NH2	2.53	0.42
1:CA:1127:G:H22	1:CA:1144:G:N2	2.18	0.42
1:CA:1152:A:OP1	10:CM:68:HIS:CE1	2.72	0.42
1:CA:1199:U:H4'	10:CM:54:PHE:CD1	2.54	0.42
1:CA:1250:A:H4'	9:CL:68:GLY:H	1.83	0.42
1:CA:1300:G:C6	1:CA:1334:G:C5	3.06	0.42
1:CA:1386:G:H2'	1:CA:1387:G:H8	1.84	0.42
2:CE:168:THR:HG23	2:CE:192:SER:CB	2.49	0.42
4:CG:59:ARG:NH2	4:CG:66:ARG:HH12	2.17	0.42
4:CG:150:GLU:C	4:CG:152:SER:N	2.76	0.42
8:CK:13:ILE:O	8:CK:17:THR:HG23	2.19	0.42
8:CK:58:TYR:O	8:CK:59:LEU:HD23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CM:46:ARG:HA	10:CM:64:GLU:HA	2.01	0.42
16:CS:43:LYS:HA	16:CS:48:TRP:HB3	2.01	0.42
23:CC:14:A:C4	23:CC:23:G:C2	3.07	0.42
23:CC:50:G:N1	23:CC:51:U:O2	2.51	0.42
25:DA:362:U:C6	25:DA:362:U:C3'	3.03	0.42
25:DA:702:G:C2	25:DA:731:C:C2	3.07	0.42
25:DA:1019:U:HO2'	25:DA:1021:A:H2	1.59	0.42
25:DA:1043:C:H2'	25:DA:1044:G:C5'	2.49	0.42
25:DA:1131:G:N2	25:DA:1132:A:N3	2.67	0.42
25:DA:1140:C:H4'	25:DA:1143:A:N7	2.34	0.42
25:DA:1360:A:N6	25:DA:1371:G:H1'	2.35	0.42
25:DA:1416:G:O2'	25:DA:1417:C:C6	2.72	0.42
25:DA:1935:G:H1'	25:DA:1964:G:N2	2.34	0.42
25:DA:2015:A:N3	51:D5:6:VAL:CG2	2.83	0.42
25:DA:2209:C:C2	25:DA:2216:G:C2	3.07	0.42
25:DA:2393:A:H4'	35:DO:62:LEU:N	2.33	0.42
25:DA:2439:A:H5'	25:DA:2439:A:H8	1.75	0.42
26:DB:41:U:C4	30:DG:70:VAL:HG23	2.54	0.42
28:DE:54:GLN:NE2	28:DE:54:GLN:HA	2.34	0.42
28:DE:131:ALA:HB1	28:DE:135:HIS:CE1	2.53	0.42
29:DF:79:GLY:HA2	29:DF:86:GLY:CA	2.48	0.42
32:DK:104:GLN:HE21	32:DK:104:GLN:HB2	1.68	0.42
36:DP:28:ALA:O	36:DP:29:PHE:CG	2.71	0.42
38:DQ:97:ARG:O	38:DQ:100:ALA:HB3	2.19	0.42
43:DT:66:LEU:HD23	43:DT:66:LEU:HA	1.81	0.42
51:D5:31:VAL:CG1	51:D5:42:PRO:HG3	2.48	0.42
1:AA:60:A:H4'	1:AA:61:G:OP1	2.18	0.42
1:AA:540:G:H2'	1:AA:541:G:O4'	2.19	0.42
1:AA:1125:U:O4	10:AM:5:ARG:CD	2.68	0.42
1:AA:1149:C:P	9:AL:9:ARG:NH2	2.91	0.42
1:AA:1372:U:OP1	9:AL:72:GLY:N	2.50	0.42
2:AE:95:GLN:HE21	2:AE:147:LYS:HE3	1.84	0.42
3:AF:126:ARG:CG	3:AF:126:ARG:NH1	2.65	0.42
4:AG:100:ARG:NH1	4:AG:137:SER:HA	2.35	0.42
8:AK:10:LEU:N	8:AK:10:LEU:HD23	2.34	0.42
8:AK:51:VAL:HG23	8:AK:52:ASP:N	2.34	0.42
8:AK:64:LYS:O	8:AK:65:TYR:CD1	2.72	0.42
11:AN:91:ARG:HG3	11:AN:91:ARG:HH11	1.83	0.42
17:AT:67:LYS:O	17:AT:68:ARG:HB3	2.19	0.42
19:AV:66:MET:HB3	19:AV:74:PHE:HZ	1.83	0.42
23:AC:77:A:C5'	23:AC:77:A:H8	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:23:G:H2'	23:AD:24:C:H6	1.84	0.42
25:BA:24:G:O2'	25:BA:25:U:H5'	2.19	0.42
25:BA:783:A:C8	25:BA:783:A:C3'	3.02	0.42
25:BA:1070:A:H2'	25:BA:1097:U:OP1	2.20	0.42
25:BA:1665:A:C2'	25:BA:1666:G:H5'	2.49	0.42
25:BA:1705:G:C6	25:BA:1706:U:C4	3.07	0.42
25:BA:2169:A:C5	25:BA:2170:A:C2	3.07	0.42
25:BA:2401:U:H2'	25:BA:2402:C:H6	1.85	0.42
25:BA:2584:U:O2	25:BA:2584:U:O4'	2.37	0.42
27:BD:181:GLU:CB	27:BD:272:ALA:HB3	2.49	0.42
32:BK:14:ASP:O	32:BK:15:VAL:HG22	2.18	0.42
33:BM:39:ARG:HA	33:BM:40:PRO:HD3	1.85	0.42
36:BP:66:ILE:H	36:BP:104:PHE:HA	1.83	0.42
37:B0:98:LEU:HD11	51:B5:54:GLY:HA3	2.01	0.42
38:BQ:66:ALA:O	38:BQ:69:VAL:HG13	2.19	0.42
43:BT:66:LEU:C	43:BT:67:GLY:O	2.60	0.42
44:BU:42:VAL:CG2	44:BU:67:LEU:HD11	2.49	0.42
45:BV:105:VAL:CG1	45:BV:140:ASP:HB3	2.50	0.42
45:BV:164:ALA:O	45:BV:165:VAL:CG1	2.66	0.42
51:B5:3:LYS:HA	51:B5:3:LYS:CE	2.40	0.42
53:B7:8:ASN:ND2	53:B7:11:LYS:N	2.52	0.42
1:CA:16:A:N1	1:CA:919:A:C2	2.85	0.42
1:CA:188:U:O2'	1:CA:189:U:C5'	2.65	0.42
1:CA:302:G:H4'	12:CO:17:LYS:HE3	2.01	0.42
1:CA:342:C:H42	1:CA:347:G:H1	1.68	0.42
1:CA:450:G:H2'	1:CA:451:A:OP1	2.19	0.42
1:CA:484:G:C8	1:CA:486:U:C2	3.07	0.42
1:CA:900:A:H2'	1:CA:901:A:C8	2.54	0.42
1:CA:937:A:C2	1:CA:1379:G:O6	2.72	0.42
1:CA:1084:G:C4	1:CA:1085:U:C5	3.08	0.42
1:CA:1148:U:C4	1:CA:1149:C:C2	3.07	0.42
1:CA:1286:A:C2	21:CX:18:TYR:OH	2.72	0.42
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.50	0.42
3:CF:90:GLU:O	3:CF:93:LYS:HB3	2.19	0.42
4:CG:4:TYR:O	4:CG:4:TYR:CG	2.72	0.42
8:CK:112:LEU:HD12	8:CK:114:THR:CG2	2.50	0.42
22:CB:26:C:C4	22:CB:27:G:C2	3.08	0.42
23:CD:15:G:C5	23:CD:16:C:H5	2.36	0.42
23:CD:31:G:N2	23:CD:42:C:N3	2.66	0.42
25:DA:363(B):G:C2	25:DA:363(C):G:C4	3.08	0.42
25:DA:977:G:O6	25:DA:987:G:C6	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1204:A:N1	25:DA:1241:A:N1	2.67	0.42
25:DA:1575:C:H2'	25:DA:1576:U:C6	2.55	0.42
25:DA:2012:G:P	42:DS:11:ARG:HH22	2.42	0.42
25:DA:2121:G:H2'	25:DA:2122:U:C6	2.54	0.42
25:DA:2335:A:N7	25:DA:2337:G:C5	2.87	0.42
26:DB:40:U:H1'	26:DB:46:A:N1	2.34	0.42
28:DE:66:HIS:CE1	28:DE:71:GLY:HA2	2.54	0.42
28:DE:71:GLY:C	28:DE:73:GLU:N	2.70	0.42
32:DK:76:THR:HG23	32:DK:77:LEU:N	2.34	0.42
35:DO:21:ARG:HE	35:DO:21:ARG:CA	2.20	0.42
35:DO:97:PRO:HG3	35:DO:112:LEU:HD12	1.99	0.42
36:DP:43:THR:HG22	36:DP:94:VAL:HG12	2.00	0.42
36:DP:102:VAL:O	36:DP:102:VAL:CG1	2.66	0.42
43:DT:63:LYS:H	43:DT:63:LYS:CE	2.27	0.42
47:DZ:92:LYS:O	47:DZ:94:LEU:N	2.52	0.42
53:D7:1:MET:HA	53:D7:1:MET:CE	2.49	0.42
1:AA:647:C:C4	1:AA:648:A:N7	2.88	0.42
1:AA:685:G:H5'	11:AN:39:PRO:O	2.19	0.42
1:AA:690:G:H22	11:AN:55:LYS:NZ	2.17	0.42
1:AA:799:G:C6	1:AA:800:G:C4	3.07	0.42
1:AA:858:G:N1	1:AA:870:U:OP2	2.48	0.42
1:AA:967:C:H4'	9:AL:125:TYR:CE2	2.53	0.42
1:AA:1060:C:P	14:AQ:45:ARG:HH22	2.42	0.42
1:AA:1123:A:O2'	10:AM:37:PRO:O	2.37	0.42
1:AA:1254:C:H41	10:AM:43:ARG:NH1	2.12	0.42
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.55	0.42
1:AA:1368:G:H5"	9:AL:112:LYS:HB3	2.00	0.42
4:AG:19:LEU:HD21	4:AG:21:LEU:HD12	2.01	0.42
4:AG:86:LYS:HD2	4:AG:86:LYS:N	2.34	0.42
4:AG:162:LEU:CD1	4:AG:181:MET:HB3	2.49	0.42
7:AJ:23:VAL:HG13	7:AJ:43:PHE:CE2	2.55	0.42
11:AN:30:VAL:HG21	11:AN:65:ALA:HA	2.00	0.42
23:AC:19:G:C6	23:AC:59:A:C6	3.07	0.42
25:BA:540:G:H3'	25:BA:541:C:H6	1.84	0.42
25:BA:1063:G:C4	25:BA:1064:C:C5	3.07	0.42
25:BA:1449:A:H8	25:BA:1449:A:OP2	2.00	0.42
25:BA:1471:A:H2'	25:BA:1471:A:N3	2.35	0.42
25:BA:1498:C:O4'	25:BA:1577:C:H4'	2.19	0.42
25:BA:2205:C:H42	25:BA:2219:G:H1	1.68	0.42
25:BA:2219:G:H2'	25:BA:2224:G:C5'	2.50	0.42
25:BA:2394:C:OP1	35:BO:62:LEU:CA	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2525:G:N3	25:BA:2525:G:H2'	2.34	0.42
25:BA:2697:G:H2'	25:BA:2698:U:O4'	2.19	0.42
25:BA:2746:U:C2'	25:BA:2747:G:H5'	2.50	0.42
26:BB:59:A:H2'	26:BB:60:C:C6	2.51	0.42
26:BB:82:G:C2'	26:BB:83:G:H5'	2.49	0.42
28:BE:8:LYS:HD2	28:BE:188:VAL:HG22	2.00	0.42
28:BE:152:LYS:HD3	33:BM:77:GLY:HA3	2.02	0.42
31:BH:154:PRO:O	31:BH:155:SER:CB	2.67	0.42
34:BN:26:LYS:O	34:BN:27:GLY:O	2.38	0.42
35:BO:75:ILE:CG1	35:BO:77:ARG:NH1	2.82	0.42
37:B0:117:VAL:HG13	37:B0:118:GLU:N	2.35	0.42
38:BQ:70:GLY:HA2	38:BQ:101:LEU:HD13	2.01	0.42
39:BR:11:GLU:OE1	39:BR:11:GLU:CA	2.67	0.42
43:BT:29:TRP:CZ3	43:BT:78:LYS:CG	3.02	0.42
44:BU:45:VAL:HG12	44:BU:60:PHE:CD1	2.54	0.42
46:B3:64:ASP:HB2	46:B3:85:ALA:HB2	2.02	0.42
52:B6:28:ARG:HH12	52:B6:30:THR:HG22	1.84	0.42
1:CA:189:U:C4	17:CT:72:ARG:CZ	3.03	0.42
1:CA:720:C:O5'	1:CA:720:C:H6	2.03	0.42
1:CA:754:C:H1'	15:CR:69:TYR:CG	2.54	0.42
1:CA:1252:A:C2'	1:CA:1253:G:O5'	2.67	0.42
1:CA:1281:U:H3'	1:CA:1282:C:H5	1.83	0.42
2:CE:163:PHE:HE1	2:CE:215:LEU:HD22	1.85	0.42
3:CF:136:GLN:O	3:CF:137:ALA:C	2.61	0.42
3:CF:173:VAL:HG12	3:CF:175:LEU:CD2	2.49	0.42
4:CG:24:GLU:OE1	4:CG:112:VAL:HG21	2.19	0.42
4:CG:110:PHE:CZ	4:CG:182:LYS:HA	2.54	0.42
5:CH:147:ASP:N	5:CH:147:ASP:OD2	2.49	0.42
8:CK:5:PRO:O	8:CK:8:ASP:HB3	2.19	0.42
9:CL:114:TYR:C	9:CL:114:TYR:HD2	2.27	0.42
12:CO:47:LYS:HB3	12:CO:48:PRO:CD	2.42	0.42
12:CO:100:ILE:HG22	12:CO:101:VAL:N	2.33	0.42
13:CP:29:ARG:HD3	13:CP:64:TRP:CE2	2.54	0.42
13:CP:34:LEU:HD13	13:CP:41:PRO:HA	2.02	0.42
23:CC:15:G:C4	23:CC:60:A:C2	3.08	0.42
23:CC:61:U:H6	23:CC:61:U:H2'	1.65	0.42
25:DA:319:C:C2	25:DA:333:G:N2	2.87	0.42
25:DA:1484:G:C6	25:DA:1485:G:C5	3.07	0.42
25:DA:1614:A:H61	42:DS:88:ARG:H	1.67	0.42
25:DA:1915:U:H2'	25:DA:1916:A:O4'	2.20	0.42
25:DA:1952:A:C6	34:DN:22:ILE:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2211:G:N3	25:DA:2211:G:C2'	2.82	0.42
25:DA:2324:C:H5"	25:DA:2325:G:H5'	2.02	0.42
25:DA:2415:G:C3'	35:DO:66:GLY:HA3	2.50	0.42
26:DB:75:G:C5'	26:DB:75:G:C8	2.98	0.42
28:DE:47:VAL:HG23	28:DE:84:PHE:O	2.20	0.42
29:DF:66:PRO:O	29:DF:67:GLN:CG	2.67	0.42
29:DF:116:ASP:OD2	35:DO:1:MET:N	2.53	0.42
30:DG:4:ASP:O	30:DG:5:VAL:HB	2.19	0.42
30:DG:116:ASP:O	30:DG:117:PHE:HB3	2.19	0.42
32:DK:101:LEU:CD2	32:DK:101:LEU:N	2.82	0.42
33:DM:73:THR:HA	33:DM:83:LYS:O	2.20	0.42
35:DO:147:LEU:O	35:DO:148:LEU:HD23	2.19	0.42
36:DP:75:THR:CG2	36:DP:88:GLY:HA3	2.49	0.42
39:DR:3:ARG:HG2	39:DR:6:LEU:HB2	2.01	0.42
40:D1:92:ARG:NE	41:D2:11:GLN:HB2	2.34	0.42
44:DU:61:ILE:CG2	44:DU:62:GLU:H	2.29	0.42
45:DV:76:LEU:N	45:DV:76:LEU:CD2	2.81	0.42
45:DV:115:GLY:N	45:DV:177:PRO:HG2	2.34	0.42
50:D4:16:CYS:C	50:D4:18:CYS:H	2.27	0.42
1:AA:789:U:O2	1:AA:789:U:O4'	2.34	0.42
1:AA:1038:C:C2'	1:AA:1039:C:H5'	2.50	0.42
1:AA:1128:C:C5	1:AA:1139:G:C5	3.07	0.42
1:AA:1346:A:O3'	1:AA:1347:G:H4'	2.19	0.42
2:AE:21:ARG:HB2	2:AE:39:ILE:CA	2.50	0.42
2:AE:112:VAL:O	2:AE:115:LEU:N	2.52	0.42
6:AI:43:LEU:N	6:AI:43:LEU:CD1	2.82	0.42
7:AJ:9:VAL:HG13	7:AJ:94:ARG:NE	2.34	0.42
8:AK:94:TYR:CE1	8:AK:132:GLU:HB2	2.53	0.42
17:AT:17:LYS:CG	17:AT:47:PRO:HA	2.48	0.42
18:AU:53:ARG:HH21	18:AU:60:ALA:N	2.17	0.42
23:AD:15:G:C2	23:AD:49:C:O2	2.72	0.42
25:BA:270(B):A:N7	25:BA:270(X):G:N2	2.63	0.42
25:BA:280:C:N3	25:BA:361:G:C2	2.87	0.42
25:BA:879:G:OP2	25:BA:879:G:C8	2.73	0.42
25:BA:1188:U:C4'	41:B2:79:VAL:CG2	2.97	0.42
25:BA:1533:C:H3'	25:BA:1534:G:H5"	2.01	0.42
25:BA:1789:A:H2'	25:BA:1790:C:O4'	2.19	0.42
25:BA:2212:A:H2'	25:BA:2213:U:OP2	2.19	0.42
25:BA:2335:A:O2'	25:BA:2336:A:OP2	2.29	0.42
25:BA:2751:G:N1	31:BH:3:ARG:HB3	2.34	0.42
26:BB:42:C:O3'	30:BG:67:LYS:CE	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BB:90:C:OP2	36:BP:16:ARG:NH2	2.51	0.42
27:BD:79:VAL:HG12	27:BD:113:VAL:HA	2.01	0.42
27:BD:147:LEU:HD13	27:BD:155:LEU:HD11	2.01	0.42
28:BE:55:ASN:C	28:BE:57:LYS:H	2.26	0.42
30:BG:62:LEU:HD12	30:BG:62:LEU:HA	1.80	0.42
32:BK:86:THR:HA	32:BK:123:LEU:HD12	2.01	0.42
33:BM:22:THR:O	33:BM:61:ARG:O	2.37	0.42
37:B0:70:LEU:C	37:B0:72:ASP:H	2.28	0.42
38:BQ:65:VAL:O	38:BQ:69:VAL:HG12	2.20	0.42
39:BR:16:ARG:HG3	39:BR:16:ARG:HH11	1.85	0.42
41:B2:24:LYS:HA	41:B2:92:THR:HG23	2.00	0.42
41:B2:47:VAL:O	41:B2:48:GLY:O	2.37	0.42
45:BV:172:ALA:O	45:BV:173:ALA:HB2	2.20	0.42
54:B8:58:ILE:HA	54:B8:61:LEU:HD11	2.01	0.42
1:CA:219:C:H2'	1:CA:220:G:O4'	2.20	0.42
1:CA:298:A:H5"	1:CA:299:G:OP2	2.20	0.42
1:CA:1127:G:C1'	1:CA:1147:C:H42	2.31	0.42
1:CA:1225:A:OP2	1:CA:1225:A:C8	2.71	0.42
2:CE:114:ARG:O	2:CE:118:LEU:HG	2.20	0.42
3:CF:47:LEU:HD13	3:CF:47:LEU:C	2.44	0.42
4:CG:32:ALA:HA	4:CG:35:ARG:HB2	2.01	0.42
4:CG:178:VAL:C	4:CG:180:GLY:N	2.77	0.42
9:CL:3:GLN:O	9:CL:88:TYR:HE1	2.03	0.42
10:CM:69:ASN:O	10:CM:70:ARG:CG	2.66	0.42
12:CO:23:LYS:H	12:CO:23:LYS:CE	2.32	0.42
12:CO:24:VAL:C	12:CO:26:ALA:N	2.78	0.42
12:CO:97:ARG:C	12:CO:98:TYR:CD1	2.98	0.42
13:CP:88:ARG:O	13:CP:92:HIS:ND1	2.46	0.42
14:CQ:34:TYR:CE2	14:CQ:44:LEU:HD21	2.55	0.42
17:CT:89:LEU:HD23	17:CT:89:LEU:HA	1.91	0.42
23:CD:23:G:N2	23:CD:24:C:C2	2.87	0.42
25:DA:125:G:H1'	53:D7:13:ALA:HB1	2.01	0.42
25:DA:146:G:H2'	25:DA:147:U:O4'	2.19	0.42
25:DA:311:A:H2	25:DA:331:A:H5"	1.85	0.42
25:DA:360:G:O2'	25:DA:361:G:H5'	2.20	0.42
25:DA:669:G:O2'	25:DA:670:A:O5'	2.36	0.42
25:DA:729:G:H2'	25:DA:1775:U:H1'	2.00	0.42
25:DA:867:C:C4	25:DA:868:U:C5	3.08	0.42
25:DA:892:G:N7	25:DA:893:C:N4	2.67	0.42
25:DA:1005:C:C2	25:DA:1143:A:C2	3.07	0.42
25:DA:1088:A:H3'	25:DA:1088:A:N3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1204:A:HO2'	25:DA:1205:U:P	2.42	0.42
25:DA:1835:G:H5"	25:DA:1836:C:OP2	2.19	0.42
25:DA:2141:G:C2'	25:DA:2142:C:H5'	2.50	0.42
25:DA:2572:A:N7	28:DE:144:ARG:HD2	2.35	0.42
26:DB:10:C:C2'	26:DB:11:C:H5'	2.49	0.42
26:DB:109:G:C4	26:DB:110:G:C8	3.08	0.42
27:DD:132:PRO:HG3	27:DD:190:TYR:CE1	2.55	0.42
28:DE:3:GLY:HA3	28:DE:81:ILE:HD11	2.01	0.42
30:DG:67:LYS:HE3	50:D4:6:HIS:CD2	2.54	0.42
31:DH:136:ILE:H	31:DH:136:ILE:CD1	2.31	0.42
35:DO:56:SER:O	35:DO:57:THR:C	2.62	0.42
35:DO:64:LYS:HD2	54:D8:25:MET:HE2	2.01	0.42
36:DP:3:MET:HA	36:DP:4:PRO:HD3	1.89	0.42
36:DP:42:ILE:HD13	36:DP:97:VAL:CG2	2.50	0.42
38:DQ:18:ILE:O	38:DQ:21:THR:CG2	2.68	0.42
38:DQ:35:ILE:CD1	38:DQ:101:LEU:HD23	2.41	0.42
42:DS:27:LYS:O	42:DS:71:VAL:HG23	2.20	0.42
42:DS:72:LYS:HB3	42:DS:106:ILE:O	2.20	0.42
43:DT:81:VAL:O	43:DT:81:VAL:HG23	2.19	0.42
46:D3:77:ARG:C	46:D3:78:TYR:CD1	2.98	0.42
1:AA:49:U:O2'	1:AA:50:A:OP1	2.36	0.42
1:AA:652:U:O2'	1:AA:653:A:C5'	2.68	0.42
1:AA:745:C:OP1	1:AA:851:G:O2'	2.37	0.42
1:AA:1256:A:N6	1:AA:1278:U:OP2	2.52	0.42
3:AF:70:VAL:HG12	3:AF:71:ALA:N	2.34	0.42
3:AF:91:LEU:HD23	3:AF:91:LEU:HA	1.88	0.42
5:AH:60:TYR:C	5:AH:60:TYR:CD1	2.97	0.42
7:AJ:26:PHE:CB	7:AJ:62:PHE:HZ	2.32	0.42
9:AL:29:ASN:OD1	9:AL:65:VAL:N	2.48	0.42
9:AL:114:TYR:HD1	10:AM:60:ARG:H	1.61	0.42
10:AM:33:GLN:HB2	10:AM:75:ILE:HD11	2.01	0.42
11:AN:104:GLN:O	11:AN:104:GLN:HG3	2.18	0.42
23:AD:15:G:C2'	23:AD:60:A:C2	3.03	0.42
25:BA:21:A:C2'	25:BA:22:C:H5'	2.49	0.42
25:BA:288:C:H2'	25:BA:289:A:C8	2.55	0.42
25:BA:322:A:C5	25:BA:340:A:C2	3.08	0.42
25:BA:674:G:H1'	29:BF:74:ARG:HH11	1.85	0.42
25:BA:760:G:H4'	25:BA:1776:G:OP1	2.20	0.42
25:BA:879:G:N2	25:BA:898:C:N3	2.59	0.42
25:BA:962:G:H2'	25:BA:963:U:C6	2.54	0.42
25:BA:1028:A:N3	25:BA:2486:G:O2'	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1162:G:H1'	41:B2:23:GLU:OE2	2.19	0.42
25:BA:1171:G:C6	25:BA:1174:A:N6	2.87	0.42
25:BA:1475:G:C2	25:BA:1519:G:C2	3.08	0.42
25:BA:2312:U:O2'	30:BG:40:ASN:ND2	2.45	0.42
25:BA:2681:C:C1'	25:BA:2682:U:OP2	2.67	0.42
25:BA:2877:G:O2'	25:BA:2878:U:H5'	2.18	0.42
26:BB:13:A:N6	26:BB:70:C:H5'	2.35	0.42
28:BE:1:MET:HE2	28:BE:1:MET:H1	1.82	0.42
28:BE:72:VAL:O	28:BE:73:GLU:C	2.63	0.42
28:BE:111:ARG:HG2	37:B0:1:MET:SD	2.60	0.42
31:BH:68:THR:O	31:BH:72:ILE:HG13	2.19	0.42
34:BN:98:VAL:HG23	34:BN:99:PHE:N	2.34	0.42
35:BO:19:VAL:HG21	35:BO:32:THR:HB	2.00	0.42
37:B0:74:LYS:O	37:B0:76:VAL:N	2.50	0.42
42:BS:8:ARG:O	42:BS:9:TYR:HB2	2.19	0.42
44:BU:42:VAL:CG1	44:BU:65:ALA:HB3	2.49	0.42
44:BU:56:PRO:C	44:BU:57:GLN:HG3	2.44	0.42
47:BZ:92:LYS:O	47:BZ:93:GLU:C	2.61	0.42
52:B6:21:TYR:N	52:B6:21:TYR:CD2	2.88	0.42
54:B8:34:TRP:O	54:B8:35:GLN:CD	2.63	0.42
1:CA:52:G:O2'	1:CA:53:A:H5'	2.20	0.42
1:CA:914:A:C2'	1:CA:915:A:H5'	2.49	0.42
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.19	0.42
1:CA:1177:G:H2'	1:CA:1178:G:N3	2.34	0.42
2:CE:7:VAL:HG22	2:CE:8:LYS:N	2.27	0.42
2:CE:197:VAL:HG12	2:CE:200:ILE:CG1	2.49	0.42
5:CH:79:GLU:HA	5:CH:91:LEU:O	2.20	0.42
10:CM:63:PHE:CD1	14:CQ:57:ARG:O	2.70	0.42
12:CO:26:ALA:O	12:CO:27:LEU:HD12	2.20	0.42
16:CS:8:ARG:C	16:CS:9:PHE:CD2	2.98	0.42
22:CB:5:A:H61	22:CB:79:U:H3	1.66	0.42
22:CB:37:G:C5	22:CB:38:G:N7	2.88	0.42
23:CD:4:G:N2	23:CD:71:G:C4	2.88	0.42
25:DA:329:G:N7	44:DU:19:LYS:HG2	2.35	0.42
25:DA:383:U:O2	25:DA:385:C:N4	2.53	0.42
25:DA:817:C:O2'	25:DA:839:U:OP1	2.36	0.42
25:DA:1005:C:C1'	25:DA:1143:A:H2	2.21	0.42
25:DA:1060:U:O4'	25:DA:1062:G:H5'	2.20	0.42
25:DA:1067:A:H5"	25:DA:1068:G:OP2	2.18	0.42
25:DA:1914:C:O2	25:DA:1914:C:O4'	2.37	0.42
25:DA:1944:U:O2	25:DA:1955:U:H5"	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2300:G:C2	25:DA:2317:C:O2	2.73	0.42
25:DA:2332:U:H5'	46:D3:43:THR:CG2	2.50	0.42
25:DA:2348:U:O4	25:DA:2382:G:N1	2.52	0.42
25:DA:2625:G:H2'	25:DA:2626:C:C6	2.55	0.42
26:DB:15:A:H1'	26:DB:109:G:N9	2.34	0.42
26:DB:79:C:H2'	26:DB:80:U:O4'	2.20	0.42
31:DH:41:MET:HB3	31:DH:42:ARG:H	1.68	0.42
31:DH:109:PHE:HZ	31:DH:152:ARG:CD	2.32	0.42
34:DN:2:ILE:HG13	34:DN:8:LEU:HD11	2.01	0.42
35:DO:15:ARG:C	35:DO:16:ARG:O	2.63	0.42
36:DP:4:PRO:HD3	36:DP:70:PRO:O	2.19	0.42
40:D1:75:ASN:HD22	40:D1:78:THR:HG23	1.83	0.42
43:DT:7:VAL:HG12	43:DT:30:VAL:HG12	2.00	0.42
43:DT:64:LYS:HE2	43:DT:64:LYS:HB3	1.68	0.42
46:D3:56:ASP:OD1	46:D3:58:THR:OG1	2.38	0.42
1:AA:5:U:H1'	1:AA:6:G:C6	2.54	0.42
1:AA:31:G:H2'	1:AA:48:C:N4	2.35	0.42
1:AA:255:G:O6	1:AA:266:G:O6	2.37	0.42
1:AA:1256:A:N3	1:AA:1277:C:C4	2.88	0.42
1:AA:1498:U:H1'	1:AA:1499:A:OP2	2.19	0.42
2:AE:88:ALA:O	2:AE:226:ARG:NH1	2.51	0.42
2:AE:134:GLU:O	2:AE:138:LEU:HG	2.18	0.42
3:AF:188:LEU:HD22	3:AF:188:LEU:HA	1.77	0.42
5:AH:152:ARG:HA	8:AK:64:LYS:NZ	2.35	0.42
6:AI:1:MET:HB3	6:AI:66:GLU:HG3	2.01	0.42
8:AK:104:ARG:HD2	8:AK:138:TRP:CG	2.54	0.42
10:AM:35:SER:HG	10:AM:73:ASP:HB2	1.85	0.42
19:AV:65:ASN:HD22	19:AV:65:ASN:N	2.04	0.42
23:AD:19:G:N2	23:AD:56:U:O2	2.53	0.42
23:AD:57:C:H2'	23:AD:58:A:O4'	2.20	0.42
25:BA:116:C:H2'	25:BA:117:G:O5'	2.20	0.42
25:BA:249:C:H4'	25:BA:250:G:O5'	2.20	0.42
25:BA:901:A:H5'	25:BA:902:C:OP2	2.20	0.42
25:BA:986:C:O2'	25:BA:987:G:H5'	2.20	0.42
25:BA:1060:U:C4	25:BA:1062:G:H4'	2.54	0.42
25:BA:1265:A:C8	25:BA:1267:U:C2	3.08	0.42
25:BA:1591:G:H2'	25:BA:1592:C:C6	2.55	0.42
25:BA:1701:A:C2'	25:BA:1702:G:H5'	2.50	0.42
25:BA:1773:A:C2'	25:BA:1774:C:H5'	2.50	0.42
25:BA:1870:C:O2	25:BA:1870:C:C2'	2.63	0.42
25:BA:1973:G:H2'	25:BA:1974:C:C6	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2061:G:N2	25:BA:2062:A:C2	2.85	0.42
25:BA:2063:C:O2	25:BA:2450:A:N1	2.53	0.42
25:BA:2147:G:H3'	25:BA:2147:G:H8	1.83	0.42
25:BA:2334:G:H4'	25:BA:2335:A:OP2	2.20	0.42
26:BB:13:A:C6	26:BB:70:C:H5'	2.54	0.42
28:BE:181:LEU:HA	28:BE:181:LEU:HD12	1.70	0.42
32:BK:101:LEU:HA	32:BK:104:GLN:HB2	2.02	0.42
35:BO:10:PRO:HB2	35:BO:11:GLY:H	1.64	0.42
36:BP:26:TYR:C	36:BP:27:VAL:HG23	2.45	0.42
45:BV:139:VAL:HG13	45:BV:155:LEU:HD21	2.01	0.42
48:BW:17:SER:CB	48:BW:18:PRO:CD	2.98	0.42
48:BW:47:ASN:O	48:BW:48:HIS:C	2.62	0.42
52:B6:28:ARG:HB3	52:B6:30:THR:H	1.83	0.42
54:B8:8:LYS:HA	54:B8:8:LYS:HD2	1.67	0.42
1:CA:485:G:H2'	1:CA:486:U:OP2	2.20	0.42
1:CA:787:A:C2'	1:CA:788:U:H5'	2.49	0.42
1:CA:812:C:H4'	1:CA:813:U:H5'	2.01	0.42
1:CA:1103:C:O2'	2:CE:108:ILE:HD13	2.20	0.42
1:CA:1104:G:C4	1:CA:1105:A:C8	3.07	0.42
1:CA:1145:C:H5'	1:CA:1146:A:OP1	2.18	0.42
1:CA:1414:U:H2'	1:CA:1415:G:C8	2.55	0.42
2:CE:17:PHE:HD1	2:CE:17:PHE:HA	1.71	0.42
2:CE:168:THR:HG23	2:CE:192:SER:HB3	2.00	0.42
3:CF:28:GLN:CB	3:CF:32:LEU:HD12	2.49	0.42
4:CG:100:ARG:O	4:CG:101:LEU:C	2.62	0.42
5:CH:9:LYS:HD2	5:CH:9:LYS:HA	1.81	0.42
7:CJ:149:ARG:HD3	11:CN:59:TYR:CZ	2.55	0.42
9:CL:53:VAL:C	9:CL:55:ALA:H	2.28	0.42
10:CM:28:ARG:CZ	10:CM:34:VAL:HB	2.49	0.42
11:CN:31:THR:O	11:CN:31:THR:HG23	2.20	0.42
13:CP:62:ASN:C	50:D4:49:PHE:HZ	2.28	0.42
15:CR:56:LEU:HD21	25:DA:715:G:C2	2.55	0.42
22:CB:76:U:O4	22:CB:77:C:C4	2.73	0.42
23:CC:27:G:H1	23:CC:46:G:N2	2.17	0.42
25:DA:273(E):U:C2'	25:DA:273(F):C:H5'	2.50	0.42
25:DA:384:U:H2'	25:DA:385:C:H6	1.84	0.42
25:DA:459:U:H5"	53:D7:40:TRP:CG	2.55	0.42
25:DA:953:A:H2'	25:DA:954:G:H8	1.85	0.42
25:DA:977:G:C2	25:DA:978:G:C8	3.07	0.42
25:DA:1093:G:H2'	25:DA:1094:U:H5'	2.02	0.42
25:DA:1639:U:O2'	25:DA:1640:C:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1729:A:C2	25:DA:1730:U:H5	2.38	0.42
25:DA:1758:G:C2	25:DA:2696:U:H5'	2.54	0.42
25:DA:1777:U:C2	25:DA:1778:U:C5	3.08	0.42
25:DA:2292:C:P	38:DQ:17:ARG:NH2	2.93	0.42
25:DA:2311:A:O2'	30:DG:88:ILE:HD12	2.18	0.42
25:DA:2681:C:C5	25:DA:2727:G:C2	3.07	0.42
29:DF:38:ARG:HG3	29:DF:38:ARG:HH11	1.84	0.42
30:DG:81:LYS:HB3	30:DG:82:LEU:H	1.68	0.42
30:DG:146:TYR:CD2	30:DG:146:TYR:O	2.73	0.42
32:DK:107:VAL:HG13	32:DK:108:THR:N	2.35	0.42
33:DM:30:ILE:HG21	33:DM:120:LEU:CD1	2.49	0.42
37:D0:21:TYR:OH	37:D0:43:GLU:HG2	2.19	0.42
44:DU:102:CYS:HB3	44:DU:103:GLY:H	1.41	0.42
52:D6:16:CYS:O	52:D6:44:ARG:NH2	2.52	0.42
53:D7:26:GLY:O	53:D7:30:VAL:HG23	2.20	0.42
1:AA:5:U:O2	1:AA:5:U:C2'	2.61	0.42
1:AA:49:U:O2'	1:AA:50:A:P	2.78	0.42
1:AA:201:C:N4	1:AA:209:U:C2	2.87	0.42
1:AA:1054:C:O2'	1:AA:1055:A:O5'	2.32	0.42
1:AA:1240:U:OP2	7:AJ:116:ALA:N	2.41	0.42
2:AE:158:LEU:O	2:AE:158:LEU:HD12	2.20	0.42
4:AG:13:ARG:HG2	4:AG:13:ARG:H	1.35	0.42
4:AG:70:ILE:HG23	4:AG:75:PHE:HB2	2.02	0.42
4:AG:107:ARG:NH2	4:AG:194:LEU:HD11	2.33	0.42
7:AJ:51:GLN:O	7:AJ:54:THR:O	2.38	0.42
7:AJ:113:GLU:H	7:AJ:113:GLU:HG2	1.62	0.42
7:AJ:115:ARG:O	7:AJ:118:VAL:HG12	2.20	0.42
8:AK:120:THR:O	8:AK:121:ASP:C	2.62	0.42
9:AL:18:PHE:HB2	9:AL:62:TYR:HB3	2.02	0.42
9:AL:111:ARG:NH2	10:AM:62:HIS:CE1	2.88	0.42
10:AM:45:ARG:O	10:AM:64:GLU:HA	2.18	0.42
11:AN:34:ASP:HA	11:AN:40:ILE:HD11	2.01	0.42
13:AP:45:VAL:O	13:AP:48:LEU:HD22	2.20	0.42
13:AP:116:THR:C	13:AP:117:VAL:CG1	2.92	0.42
16:AS:14:ASN:O	16:AS:15:PRO:O	2.38	0.42
24:A1:13:U:O2	24:A1:13:U:C2'	2.63	0.42
25:BA:107:C:H2'	25:BA:108:U:C6	2.55	0.42
25:BA:278:A:H2'	25:BA:279:C:C6	2.54	0.42
25:BA:654(B):C:H2'	25:BA:654(C):G:O4'	2.19	0.42
25:BA:878:A:N1	25:BA:879:G:C2	2.88	0.42
25:BA:883:G:H2'	25:BA:884:C:C4'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:931:G:C4	25:BA:933:A:C8	3.07	0.42
25:BA:1083:U:H3'	25:BA:1083:U:H6	1.85	0.42
25:BA:1241:A:N3	25:BA:1241:A:O4'	2.53	0.42
25:BA:1266:G:C8	42:BS:15:ARG:NH2	2.88	0.42
25:BA:1337:G:C4	25:BA:1338:G:C8	3.08	0.42
25:BA:1502:C:O2'	25:BA:1503:U:H5'	2.19	0.42
25:BA:1734:C:C3'	25:BA:1735:C:H5"	2.50	0.42
25:BA:1735:C:O2'	25:BA:1741:C:H5'	2.20	0.42
25:BA:2346:A:H5"	25:BA:2383:G:C1'	2.49	0.42
25:BA:2361:A:OP1	54:B8:27:THR:HG23	2.19	0.42
27:BD:133:LEU:HD13	27:BD:173:VAL:HG22	2.01	0.42
29:BF:64:ILE:HG23	29:BF:65:TRP:NE1	2.35	0.42
30:BG:165:THR:OG1	30:BG:168:GLU:HG3	2.20	0.42
32:BK:92:VAL:HG13	32:BK:120:ILE:CG2	2.34	0.42
33:BM:128:HIS:HD2	33:BM:129:PRO:C	2.27	0.42
35:BO:16:ARG:NH1	35:BO:16:ARG:CG	2.80	0.42
36:BP:80:GLU:OE2	36:BP:80:GLU:CA	2.67	0.42
37:B0:17:ARG:O	37:B0:20:LEU:HB3	2.20	0.42
41:B2:35:LEU:HB2	41:B2:37:VAL:CG2	2.49	0.42
43:BT:57:LEU:HD11	43:BT:78:LYS:HB2	2.02	0.42
45:BV:27:VAL:HG12	45:BV:87:ASP:CB	2.46	0.42
47:BZ:25:LYS:HE3	47:BZ:25:LYS:HB2	1.59	0.42
1:CA:450:G:N7	1:CA:481:G:C6	2.88	0.42
1:CA:485:G:O2'	1:CA:486:U:P	2.77	0.42
1:CA:978:A:H1'	1:CA:1322:C:C2	2.55	0.42
1:CA:1128:C:H4'	9:CL:16:ARG:NH2	2.35	0.42
1:CA:1158:C:N3	1:CA:1160:G:N7	2.67	0.42
1:CA:1349:A:P	9:CL:118:LYS:NZ	2.92	0.42
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.19	0.42
3:CF:186:PHE:HE1	3:CF:197:GLY:HA2	1.84	0.42
3:CF:186:PHE:HD1	3:CF:198:VAL:O	2.01	0.42
4:CG:192:GLU:H	4:CG:192:GLU:HG3	1.65	0.42
5:CH:102:ALA:HB1	5:CH:106:PRO:HG2	2.02	0.42
6:CI:60:PHE:C	6:CI:61:LEU:HD12	2.45	0.42
13:CP:3:ARG:H	50:D4:34:GLU:HG3	1.85	0.42
14:CQ:7:ILE:HG22	14:CQ:23:ARG:HD2	2.01	0.42
15:CR:74:ASP:HB3	15:CR:77:ARG:HG2	2.02	0.42
23:CC:31:G:H2'	23:CC:32:G:O5'	2.19	0.42
25:DA:26:G:C6	25:DA:27:G:C6	3.08	0.42
25:DA:52:A:O2'	25:DA:53:A:H5'	2.19	0.42
25:DA:249:C:H4'	25:DA:250:G:O5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1010:A:H5'	40:D1:62:ILE:HG21	2.01	0.42
25:DA:1041:C:H2'	25:DA:1042:G:C8	2.55	0.42
25:DA:1153:C:H2'	25:DA:1154:G:O4'	2.19	0.42
25:DA:1165:U:O2'	25:DA:1166:C:H5'	2.20	0.42
25:DA:1277:G:O2'	37:D0:24:GLN:HG2	2.20	0.42
25:DA:1750:G:C2'	25:DA:1751:C:H5'	2.50	0.42
25:DA:1844:C:C2	25:DA:1897:G:C2	3.08	0.42
25:DA:2126:A:H1'	25:DA:2127:G:H5"	2.02	0.42
25:DA:2282:G:OP1	25:DA:2283:C:H1'	2.19	0.42
25:DA:2699:C:H2'	25:DA:2700:C:O4'	2.20	0.42
26:DB:13:A:H5"	26:DB:15:A:N6	2.34	0.42
28:DE:3:GLY:CA	28:DE:81:ILE:CD1	2.97	0.42
28:DE:5:LEU:CD2	28:DE:79:ARG:HG2	2.49	0.42
31:DH:153:LYS:HA	31:DH:153:LYS:HD2	1.38	0.42
32:DK:123:LEU:HD22	32:DK:143:SER:CB	2.49	0.42
33:DM:36:GLY:N	33:DM:42:TRP:CZ3	2.88	0.42
33:DM:133:GLN:NE2	33:DM:135:PRO:HG3	2.34	0.42
42:DS:51:LEU:O	42:DS:54:ALA:HB3	2.20	0.42
43:DT:67:GLY:C	43:DT:69:TYR:N	2.77	0.42
46:D3:68:GLU:OE1	46:D3:82:ARG:HG3	2.19	0.42
52:D6:25:LYS:CB	54:D8:34:TRP:CZ3	2.85	0.42
1:AA:91:C:H2'	1:AA:92:G:O4'	2.20	0.42
1:AA:960:U:C2	1:AA:1225:A:C5	3.08	0.42
3:AF:12:LEU:C	3:AF:14:ILE:H	2.28	0.42
9:AL:4:TYR:CE1	9:AL:88:TYR:HB2	2.54	0.42
13:AP:37:THR:OG1	13:AP:39:ILE:HG13	2.20	0.42
15:AR:88:ARG:H	15:AR:88:ARG:HG2	1.57	0.42
23:AC:41:C:C2'	23:AC:42:C:H5'	2.50	0.42
23:AD:8:U:C1'	23:AD:49:C:H4'	2.49	0.42
24:A1:20:U:H2'	24:A1:21:U:H6	1.85	0.42
25:BA:265:A:C8	25:BA:266:G:H1'	2.54	0.42
25:BA:1187:G:H5"	41:B2:81:TYR:CE2	2.55	0.42
25:BA:1595:G:C2'	25:BA:1596:A:H5'	2.50	0.42
25:BA:2094:G:OP1	32:BK:22:LYS:HG3	2.19	0.42
25:BA:2180:U:H2'	25:BA:2181:G:O4'	2.19	0.42
26:BB:95:U:C2	26:BB:96:G:C8	3.08	0.42
27:BD:35:LYS:HE2	27:BD:104:TYR:HB2	2.01	0.42
28:BE:5:LEU:O	28:BE:28:ALA:HA	2.20	0.42
28:BE:45:THR:O	28:BE:83:ASP:N	2.51	0.42
29:BF:67:GLN:HB2	29:BF:67:GLN:HE21	1.72	0.42
29:BF:165:ARG:HG3	29:BF:165:ARG:HH11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:92:ILE:C	31:BH:94:TYR:H	2.28	0.42
33:BM:40:PRO:HA	40:B1:67:ALA:HB3	2.01	0.42
37:B0:1:MET:HB3	37:B0:2:ARG:H	1.60	0.42
37:B0:42:LYS:HA	37:B0:45:ARG:HD2	2.00	0.42
39:BR:17:THR:O	39:BR:17:THR:OG1	2.38	0.42
39:BR:45:PHE:CZ	39:BR:65:LYS:HG2	2.55	0.42
44:BU:97:ARG:HD3	44:BU:97:ARG:N	2.35	0.42
46:B3:25:ARG:HG3	46:B3:37:LEU:HD23	2.02	0.42
51:B5:58:LEU:HB2	51:B5:60:VAL:HB	2.01	0.42
52:B6:50:ARG:HB3	52:B6:51:GLU:H	1.48	0.42
1:CA:437:U:H5'	4:CG:155:LEU:HD21	2.00	0.42
1:CA:586:C:H1'	1:CA:878:G:O2'	2.20	0.42
1:CA:625:G:H2'	1:CA:626:U:C6	2.55	0.42
1:CA:784:C:H2'	1:CA:785:G:O4'	2.20	0.42
1:CA:833:U:H2'	1:CA:834:C:C6	2.55	0.42
1:CA:1057:G:C4	1:CA:1204:A:C2	3.08	0.42
1:CA:1162:C:C2	1:CA:1175:G:C2	3.07	0.42
2:CE:185:ILE:CG2	2:CE:199:TYR:HD1	2.31	0.42
3:CF:47:LEU:HD22	3:CF:47:LEU:HA	1.93	0.42
7:CJ:139:GLU:O	7:CJ:143:ARG:HB2	2.20	0.42
8:CK:1:MET:HE2	8:CK:1:MET:N	2.35	0.42
9:CL:17:VAL:CG1	9:CL:81:ILE:HD13	2.49	0.42
9:CL:17:VAL:HG11	9:CL:81:ILE:HD13	2.01	0.42
13:CP:116:THR:O	13:CP:117:VAL:C	2.63	0.42
15:CR:17:ARG:CG	15:CR:17:ARG:NH1	2.62	0.42
25:DA:497:A:H2'	25:DA:498:G:O4'	2.20	0.42
25:DA:560:C:H2'	25:DA:561:G:O4'	2.20	0.42
25:DA:654(A):A:C2	25:DA:654(T):A:N1	2.88	0.42
25:DA:1133:U:H2'	25:DA:1137:G:OP1	2.20	0.42
25:DA:2065:C:H1'	25:DA:2449:U:H3	1.85	0.42
25:DA:2665:A:H2'	25:DA:2666:C:O4'	2.20	0.42
26:DB:55:U:HO2'	26:DB:56:G:H5'	1.82	0.42
26:DB:109:G:C5	26:DB:110:G:N7	2.88	0.42
28:DE:32:PRO:O	28:DE:49:LEU:HA	2.20	0.42
28:DE:33:VAL:O	28:DE:67:PHE:CZ	2.73	0.42
28:DE:98:PRO:HD3	28:DE:175:VAL:CG1	2.50	0.42
28:DE:120:TRP:O	28:DE:121:ASN:HB2	2.18	0.42
28:DE:203:LYS:O	28:DE:204:ALA:HB3	2.19	0.42
29:DF:122:LYS:O	29:DF:123:LEU:HB3	2.19	0.42
30:DG:38:VAL:O	30:DG:38:VAL:HG12	2.18	0.42
31:DH:3:ARG:HG3	31:DH:4:ILE:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:131:LYS:H	32:DK:131:LYS:HD2	1.84	0.42
39:DR:94:ALA:C	39:DR:96:ARG:H	2.28	0.42
40:D1:83:LEU:HG	40:D1:88:ILE:HD11	2.00	0.42
41:D2:21:ARG:HD3	41:D2:91:TYR:HB3	2.01	0.42
42:DS:82:LEU:HB2	42:DS:98:LYS:HB2	2.01	0.42
42:DS:110:LYS:HA	42:DS:110:LYS:HD2	1.79	0.42
43:DT:8:ILE:O	48:DW:36:ARG:NH2	2.53	0.42
43:DT:41:ASN:O	43:DT:45:THR:HG23	2.19	0.42
45:DV:146:ILE:CG1	45:DV:147:GLY:N	2.59	0.42
52:D6:53:LYS:H	52:D6:53:LYS:HG3	1.49	0.42
1:AA:57:G:C5	1:AA:58:C:C4	3.08	0.42
1:AA:95:G:C6	1:AA:96:G:C6	3.07	0.42
1:AA:303:A:C5	1:AA:304:U:C5	3.08	0.42
1:AA:421:U:H3	3:AF:127:ARG:HH21	1.67	0.42
1:AA:439:A:C2'	1:AA:440:A:O5'	2.68	0.42
1:AA:686:U:C1'	11:AN:42:TRP:HE1	2.19	0.42
1:AA:711:G:O2'	1:AA:712:A:H5'	2.20	0.42
1:AA:1129:C:C4	1:AA:1139:G:C6	3.08	0.42
1:AA:1349:A:P	9:AL:118:LYS:NZ	2.93	0.42
1:AA:1489:G:C2'	1:AA:1490:C:H5'	2.49	0.42
4:AG:121:VAL:O	4:AG:134:ASP:HA	2.20	0.42
6:AI:63:TYR:CD2	6:AI:63:TYR:N	2.88	0.42
7:AJ:40:ALA:O	7:AJ:44:TYR:CD1	2.73	0.42
12:AO:70:ILE:HD13	12:AO:77:LEU:HD12	2.01	0.42
13:AP:49:THR:C	13:AP:51:ALA:N	2.77	0.42
13:AP:115:LYS:O	13:AP:116:THR:O	2.38	0.42
17:AT:92:ARG:HA	17:AT:92:ARG:HD3	1.88	0.42
19:AV:41:VAL:HG12	19:AV:44:MET:CA	2.50	0.42
25:BA:847:U:H5	25:BA:933:A:C2	2.38	0.42
25:BA:917:A:H2'	25:BA:918:A:H5'	2.01	0.42
25:BA:1077:A:N3	25:BA:1077:A:C2'	2.82	0.42
25:BA:1261:C:C2'	25:BA:1262:A:O5'	2.67	0.42
25:BA:1382:G:C2'	25:BA:1383:C:H5'	2.50	0.42
25:BA:1400:G:H2'	25:BA:1401:G:C8	2.55	0.42
25:BA:1433:U:O2	25:BA:1561:G:C2	2.73	0.42
25:BA:1537:C:C2'	25:BA:1538:G:O4'	2.68	0.42
25:BA:1612:C:H5"	53:B7:7:PRO:HG2	2.02	0.42
25:BA:1671:U:O2'	25:BA:1673:U:H5	2.02	0.42
25:BA:1686:C:H2'	25:BA:1687:G:O4'	2.20	0.42
25:BA:1777:U:C2'	25:BA:1778:U:H5'	2.50	0.42
25:BA:2318:G:N2	38:BQ:2:ALA:N	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2745:C:C4	25:BA:2746:U:C4	3.08	0.42
26:BB:60:C:C2	26:BB:61:G:C8	3.07	0.42
28:BE:31:CYS:HA	28:BE:32:PRO:HD3	1.75	0.42
28:BE:52:LEU:O	28:BE:74:PRO:CB	2.68	0.42
30:BG:52:ILE:HD13	30:BG:52:ILE:HA	1.84	0.42
32:BK:144:VAL:HG22	32:BK:145:VAL:H	1.85	0.42
33:BM:7:LYS:HE3	33:BM:7:LYS:HB3	1.92	0.42
34:BN:35:VAL:HG11	34:BN:103:ALA:CB	2.50	0.42
37:B0:54:LEU:HD12	37:B0:54:LEU:HA	1.78	0.42
37:B0:81:ASP:O	37:B0:85:PRO:HG2	2.20	0.42
40:B1:59:ARG:O	40:B1:63:VAL:HG23	2.20	0.42
47:BZ:84:GLY:C	47:BZ:86:SER:H	2.28	0.42
53:B7:15:THR:HG22	53:B7:16:HIS:ND1	2.35	0.42
1:CA:78:G:H2'	1:CA:79:G:O4'	2.20	0.42
1:CA:229:U:H2'	1:CA:230:G:O4'	2.20	0.42
1:CA:606:G:H21	1:CA:631:G:H2'	1.84	0.42
1:CA:1027:C:O2'	1:CA:1028:C:C6	2.72	0.42
1:CA:1053:G:C4	1:CA:1199:U:C5	3.07	0.42
1:CA:1223:C:P	1:CA:1224:G:H2'	2.60	0.42
1:CA:1372:U:C2'	1:CA:1373:G:H5'	2.49	0.42
1:CA:1503:A:C1'	1:CA:1504:G:OP1	2.66	0.42
2:CE:74:LYS:HG3	2:CE:75:LYS:H	1.85	0.42
3:CF:92:ALA:HA	3:CF:95:THR:O	2.20	0.42
4:CG:9:CYS:C	4:CG:12:CYS:HB2	2.45	0.42
7:CJ:30:ILE:HG22	7:CJ:30:ILE:O	2.20	0.42
7:CJ:42:ILE:HD13	7:CJ:116:ALA:HB3	2.02	0.42
7:CJ:113:GLU:CG	7:CJ:119:ARG:HG2	2.50	0.42
8:CK:11:THR:HA	8:CK:14:ARG:NH1	2.35	0.42
9:CL:3:GLN:O	9:CL:88:TYR:CE1	2.73	0.42
9:CL:106:ALA:O	9:CL:108:VAL:HG12	2.20	0.42
11:CN:91:ARG:O	11:CN:95:ILE:HG13	2.19	0.42
15:CR:26:GLU:H	15:CR:26:GLU:HG2	1.54	0.42
17:CT:63:ARG:HG2	17:CT:64:PRO:CD	2.49	0.42
22:CB:56:G:H2'	22:CB:57:C:C6	2.55	0.42
22:CB:75:G:H2'	22:CB:76:U:C6	2.54	0.42
23:CC:23:G:C6	23:CC:24:C:N4	2.88	0.42
23:CD:9:G:O3'	23:CD:46:G:O2'	2.38	0.42
23:CD:22:A:C2	23:CD:47:G:H2'	2.54	0.42
23:CD:49:C:C6	23:CD:60:A:O4'	2.73	0.42
25:DA:84:A:H61	25:DA:102:G:C2'	2.24	0.42
25:DA:363(F):A:H8	25:DA:363(F):A:OP2	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:478:A:N1	25:DA:500:G:H4'	2.35	0.42
25:DA:886:C:H1'	25:DA:890:A:H2	1.81	0.42
25:DA:1049:C:N4	31:DH:2:SER:HB3	2.34	0.42
25:DA:1806:C:C4	25:DA:1807:G:N7	2.88	0.42
25:DA:2012:G:H8	25:DA:2012:G:O5'	2.01	0.42
25:DA:2065:C:H5"	25:DA:2252:G:H1'	2.01	0.42
25:DA:2163:C:C5	25:DA:2164:C:N4	2.88	0.42
25:DA:2271:G:C5	25:DA:2272:U:C4	3.08	0.42
25:DA:2324:C:H5"	25:DA:2325:G:C5'	2.50	0.42
25:DA:2390:U:O2'	25:DA:2391:G:H5'	2.20	0.42
25:DA:2662:A:H8	25:DA:2662:A:O5'	2.03	0.42
27:DD:32:SER:O	27:DD:33:LEU:HB3	2.20	0.42
28:DE:204:ALA:O	28:DE:205:ALA:CB	2.67	0.42
32:DK:115:ALA:HB3	32:DK:129:THR:O	2.20	0.42
33:DM:91:LEU:O	33:DM:95:PRO:HB3	2.19	0.42
35:DO:2:LYS:HE3	35:DO:2:LYS:HB2	1.85	0.42
35:DO:85:LEU:HB3	35:DO:114:ILE:HD13	2.00	0.42
42:DS:79:GLY:CA	42:DS:100:THR:HG22	2.50	0.42
45:DV:30:ASN:HD22	45:DV:32:HIS:H	1.66	0.42
52:D6:10:LEU:HD12	52:D6:10:LEU:H	1.84	0.42
54:D8:41:ILE:HG22	54:D8:42:ARG:N	2.35	0.42
1:AA:153:C:N4	1:AA:168:G:H1	2.17	0.41
1:AA:495:A:H4'	1:AA:496:A:OP1	2.20	0.41
1:AA:626:U:H2'	1:AA:627:G:H8	1.84	0.41
1:AA:748:C:C4'	1:AA:749:C:O5'	2.49	0.41
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.85	0.41
4:AG:133:VAL:HG11	4:AG:138:TYR:CD1	2.53	0.41
7:AJ:22:LEU:HD12	7:AJ:97:GLN:OE1	2.20	0.41
7:AJ:27:ILE:HD11	7:AJ:43:PHE:HD2	1.84	0.41
11:AN:34:ASP:HB2	11:AN:35:PRO:HD2	2.02	0.41
11:AN:57:THR:HG22	11:AN:58:PRO:N	2.35	0.41
17:AT:70:ARG:C	17:AT:71:PHE:CD2	2.97	0.41
19:AV:65:ASN:HA	50:B4:56:VAL:HG22	2.03	0.41
23:AD:55:U:O4	23:AD:56:U:C4	2.73	0.41
25:BA:1001:A:H2'	25:BA:1002:G:O4'	2.20	0.41
25:BA:1074:G:O2'	25:BA:1075:C:H5'	2.19	0.41
25:BA:2401:U:O2	25:BA:2402:C:H5	2.02	0.41
25:BA:2467:C:C3'	25:BA:2468:G:C5'	2.92	0.41
25:BA:2545:G:H2'	25:BA:2546:U:O4'	2.20	0.41
25:BA:2695:C:H2'	25:BA:2696:U:H6	1.84	0.41
25:BA:2810:A:H2'	25:BA:2811:G:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2811:G:OP1	28:BE:61:ARG:HG2	2.20	0.41
25:BA:2815:C:H5'	51:B5:29:THR:HG21	2.02	0.41
27:BD:27:THR:O	27:BD:28:GLU:CB	2.55	0.41
27:BD:232:PRO:HB3	27:BD:244:ARG:CZ	2.50	0.41
28:BE:60:ASN:HB2	28:BE:61:ARG:H	1.62	0.41
30:BG:99:MET:HE3	30:BG:99:MET:HB2	1.68	0.41
30:BG:104:GLU:HG2	50:B4:23:GLU:CG	2.50	0.41
32:BK:7:GLU:HG3	32:BK:8:PRO:HD2	2.02	0.41
39:BR:53:ARG:HB2	39:BR:60:THR:O	2.20	0.41
42:BS:57:ASN:O	42:BS:61:ASN:HB2	2.19	0.41
45:BV:34:ASN:OD1	45:BV:34:ASN:C	2.63	0.41
45:BV:170:THR:C	45:BV:172:ALA:H	2.28	0.41
47:BZ:21:ARG:HD3	47:BZ:35:THR:HG21	2.02	0.41
48:BW:14:ARG:NH1	48:BW:66:GLU:OE2	2.53	0.41
50:B4:2:LYS:HD3	50:B4:2:LYS:HA	1.88	0.41
51:B5:3:LYS:HB3	51:B5:4:HIS:H	1.64	0.41
54:B8:42:ARG:HH11	54:B8:42:ARG:HG2	1.85	0.41
54:B8:53:PRO:O	54:B8:54:GLU:C	2.63	0.41
1:CA:51:A:H4'	1:CA:52:G:H5"	2.02	0.41
1:CA:413:G:C2'	1:CA:414:A:OP2	2.67	0.41
1:CA:607:A:H2'	1:CA:608:A:O4'	2.19	0.41
1:CA:624:C:H4'	16:CS:10:GLY:C	2.45	0.41
1:CA:748:C:H1'	1:CA:749:C:OP2	2.19	0.41
1:CA:1263:C:N4	1:CA:1272:G:H1	2.18	0.41
1:CA:1370:G:O2'	1:CA:1371:G:H5'	2.20	0.41
2:CE:132:LYS:HA	2:CE:135:GLN:NE2	2.31	0.41
2:CE:189:ASP:OD2	2:CE:191:ASP:HB3	2.19	0.41
3:CF:67:THR:HG23	3:CF:102:ASN:HB2	2.02	0.41
8:CK:64:LYS:CD	8:CK:79:VAL:HG21	2.50	0.41
9:CL:75:ASP:O	9:CL:78:LYS:HB3	2.20	0.41
12:CO:40:VAL:HG21	12:CO:78:GLN:CA	2.50	0.41
12:CO:53:ARG:HH12	12:CO:92:ASP:CB	2.32	0.41
14:CQ:8:GLU:O	14:CQ:12:ARG:HG3	2.20	0.41
15:CR:78:TYR:O	15:CR:82:ILE:HG23	2.19	0.41
17:CT:45:HIS:O	17:CT:73:VAL:HG13	2.20	0.41
19:CV:33:THR:HG23	19:CV:50:ALA:O	2.20	0.41
22:CB:21:A:C1'	22:CB:22:G:P	3.08	0.41
23:CD:20:G:C8	23:CD:58:A:N6	2.86	0.41
25:DA:66:C:H2'	25:DA:67:U:O4'	2.19	0.41
25:DA:372:G:H5'	47:DZ:66:HIS:CE1	2.55	0.41
25:DA:699:A:C2	25:DA:1633:G:N3	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1568:G:P	27:DD:63:ARG:HH22	2.42	0.41
25:DA:1783:A:C2	25:DA:2587:A:C5	3.08	0.41
25:DA:1946:U:H2'	25:DA:1947:C:C6	2.55	0.41
25:DA:2076:U:H5	25:DA:2596:U:O2	2.03	0.41
25:DA:2489:G:C2'	25:DA:2490:G:H5'	2.50	0.41
26:DB:49:C:H2'	26:DB:50:G:C8	2.55	0.41
29:DF:29:ASN:O	29:DF:112:MET:HE1	2.19	0.41
31:DH:170:ARG:HA	31:DH:170:ARG:HD3	1.89	0.41
33:DM:33:LEU:HD12	33:DM:38:HIS:CD2	2.55	0.41
33:DM:42:TRP:HA	33:DM:48:MET:CE	2.50	0.41
34:DN:11:ALA:O	34:DN:99:PHE:N	2.46	0.41
37:D0:55:ALA:CB	37:D0:79:LEU:HD22	2.50	0.41
38:DQ:41:ASP:OD1	38:DQ:44:LYS:HE3	2.19	0.41
40:D1:112:ARG:H	40:D1:112:ARG:HG2	1.47	0.41
44:DU:17:SER:CB	44:DU:71:LYS:HD2	2.43	0.41
46:D3:36:ILE:CD1	46:D3:36:ILE:N	2.83	0.41
47:DZ:95:LEU:O	47:DZ:97:LEU:N	2.53	0.41
50:D4:60:GLN:C	50:D4:62:ARG:N	2.77	0.41
1:AA:73:G:C8	1:AA:99:C:O2	2.73	0.41
1:AA:148:G:N3	1:AA:149:A:C8	2.88	0.41
1:AA:282:A:N3	1:AA:282:A:H2'	2.34	0.41
1:AA:725:G:N3	1:AA:726:C:C6	2.88	0.41
3:AF:50:ALA:HB1	3:AF:70:VAL:CG1	2.44	0.41
4:AG:12:CYS:HA	4:AG:19:LEU:HD21	2.00	0.41
4:AG:15:GLU:OE1	4:AG:66:ARG:NH1	2.50	0.41
4:AG:24:GLU:O	4:AG:27:TYR:HB2	2.19	0.41
11:AN:57:THR:HG23	11:AN:58:PRO:HD2	2.02	0.41
14:AQ:24:CYS:HB3	14:AQ:28:GLY:H	1.85	0.41
15:AR:57:LEU:HA	15:AR:57:LEU:HD23	1.80	0.41
17:AT:13:ASP:HA	17:AT:19:VAL:HG12	2.02	0.41
23:AD:17:C:H2'	23:AD:18:C:O2	2.19	0.41
23:AD:60:A:C5	23:AD:61:U:C5	3.07	0.41
25:BA:298:G:H5"	25:BA:299:A:OP1	2.20	0.41
25:BA:616:A:C4	29:BF:180:GLY:HA3	2.55	0.41
25:BA:653:A:H3'	25:BA:654:A:H5'	2.01	0.41
25:BA:811:U:H2'	35:BO:21:ARG:O	2.19	0.41
25:BA:812:C:H5"	25:BA:1250:G:O2'	2.20	0.41
25:BA:821:A:O2'	25:BA:945:A:H3'	2.20	0.41
25:BA:994:C:OP1	40:B1:53:ARG:NH2	2.53	0.41
25:BA:996:A:OP2	40:B1:94:ASN:ND2	2.53	0.41
25:BA:1069:A:H5"	25:BA:1070:A:O5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1448:G:H1'	25:BA:1528:A:H62	1.85	0.41
25:BA:1478:G:H2'	25:BA:1479:G:C8	2.48	0.41
25:BA:1510:A:OP1	25:BA:1510:A:O3'	2.37	0.41
25:BA:1726:G:C6	25:BA:1727:U:C4	3.08	0.41
25:BA:1816:G:H8	27:BD:62:TYR:OH	2.03	0.41
25:BA:2390:U:O2'	25:BA:2391:G:H5'	2.21	0.41
25:BA:2703:C:H2'	25:BA:2703:C:O2	2.19	0.41
25:BA:2740:A:C6	25:BA:2764:A:C8	3.07	0.41
25:BA:2854:G:O2'	25:BA:2855:C:H5'	2.19	0.41
27:BD:19:ALA:HB3	27:BD:21:PHE:CZ	2.55	0.41
28:BE:6:GLY:HA3	28:BE:27:LEU:O	2.20	0.41
28:BE:116:VAL:HG13	28:BE:122:PHE:CG	2.55	0.41
30:BG:7:LEU:HD21	30:BG:176:LEU:HD22	2.02	0.41
30:BG:129:GLY:O	30:BG:161:THR:HB	2.19	0.41
35:BO:15:ARG:C	35:BO:16:ARG:O	2.63	0.41
35:BO:135:LEU:HD23	35:BO:135:LEU:HA	1.81	0.41
37:B0:34:ILE:HG22	37:B0:114:VAL:HB	2.02	0.41
38:BQ:23:ARG:HB2	38:BQ:86:ALA:HB2	2.02	0.41
40:B1:85:LYS:C	40:B1:87:GLY:N	2.77	0.41
42:BS:111:HIS:CD2	42:BS:112:GLY:H	2.38	0.41
43:BT:24:GLY:CA	43:BT:82:GLN:HE22	2.32	0.41
44:BU:74:PRO:CB	44:BU:101:LYS:HZ2	2.33	0.41
47:BZ:87:PRO:O	47:BZ:89:GLU:N	2.53	0.41
1:CA:9:G:H2'	1:CA:10:A:H8	1.86	0.41
1:CA:75:C:H2'	1:CA:76:G:O4'	2.20	0.41
1:CA:186(E):C:C2	1:CA:191(C):G:N2	2.88	0.41
1:CA:309:G:H1'	1:CA:608:A:C2	2.55	0.41
1:CA:382:A:C6	1:CA:383:A:C6	3.08	0.41
1:CA:429:U:H1'	1:CA:430:A:H5"	2.02	0.41
1:CA:585:G:H4'	12:CO:8:ASN:ND2	2.35	0.41
1:CA:799:G:C6	1:CA:800:G:C4	3.08	0.41
1:CA:1318:A:O2'	19:CV:37:ARG:HG2	2.20	0.41
1:CA:1446:A:C5	39:DR:118:ARG:CZ	3.03	0.41
2:CE:90:MET:HA	2:CE:91:PRO:HD3	1.87	0.41
3:CF:82:GLU:H	3:CF:85:ARG:HB2	1.85	0.41
4:CG:54:TYR:CE1	4:CG:206:PHE:HE1	2.38	0.41
8:CK:20:TYR:HA	8:CK:65:TYR:CZ	2.55	0.41
11:CN:48:ILE:HA	11:CN:48:ILE:HD12	1.81	0.41
13:CP:55:ARG:HH11	13:CP:55:ARG:CG	2.30	0.41
13:CP:56:LEU:HD23	13:CP:56:LEU:HA	1.93	0.41
15:CR:11:VAL:HG21	15:CR:34:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CS:19:ILE:HB	16:CS:36:ILE:O	2.19	0.41
20:CW:22:ARG:O	20:CW:26:ASN:ND2	2.53	0.41
22:CB:69:A:OP1	22:CB:69:A:H3'	2.20	0.41
25:DA:142:G:H1'	43:DT:37:THR:HG22	2.02	0.41
25:DA:363(E):U:H5'	25:DA:363(F):A:OP2	2.20	0.41
25:DA:528:A:N1	25:DA:2043:C:H5'	2.31	0.41
25:DA:568:U:O5'	25:DA:945:A:N6	2.52	0.41
25:DA:603:A:C2	25:DA:655:A:C2	3.07	0.41
25:DA:1062:G:OP1	25:DA:1062:G:C8	2.68	0.41
25:DA:1204:A:N1	25:DA:1241:A:H2	2.18	0.41
25:DA:1767:C:H2'	25:DA:1768:U:O4'	2.20	0.41
25:DA:2099:U:O2	25:DA:2099:U:H2'	2.20	0.41
25:DA:2305:A:C6	30:DG:154:GLY:CA	3.03	0.41
25:DA:2517:C:C2	25:DA:2542:A:C6	3.08	0.41
26:DB:20:C:C2'	26:DB:21:G:H5'	2.50	0.41
26:DB:88:C:H6	26:DB:89:G:C8	2.38	0.41
27:DD:85:ASP:HB2	27:DD:92:ILE:HD13	2.02	0.41
27:DD:161:THR:O	27:DD:162:SER:HB3	2.20	0.41
28:DE:57:LYS:HA	28:DE:57:LYS:HD3	1.85	0.41
28:DE:77:ILE:C	28:DE:78:LEU:HG	2.44	0.41
29:DF:188:ARG:HG3	35:DO:3:LEU:HD11	2.01	0.41
30:DG:142:PRO:HG2	30:DG:143:GLU:OE2	2.20	0.41
36:DP:18:LYS:O	36:DP:19:GLY:C	2.61	0.41
36:DP:35:VAL:HG23	36:DP:36:ALA:N	2.36	0.41
37:D0:70:LEU:C	37:D0:72:ASP:H	2.28	0.41
44:DU:2:ARG:HA	44:DU:2:ARG:HD3	1.77	0.41
45:DV:138:GLU:O	45:DV:156:LYS:HE3	2.19	0.41
45:DV:151:HIS:CD2	45:DV:151:HIS:N	2.86	0.41
49:DX:52:HIS:CE1	49:DX:53:LEU:HD23	2.56	0.41
50:D4:24:THR:O	50:D4:25:TYR:HB2	2.19	0.41
1:AA:140:A:C6	1:AA:141:A:C5	3.08	0.41
1:AA:148:G:C2	1:AA:149:A:C8	3.08	0.41
1:AA:280:C:O2	17:AT:38:ARG:HG3	2.20	0.41
1:AA:411:A:C4	1:AA:413:G:H1'	2.55	0.41
1:AA:450:G:H2'	1:AA:451:A:OP1	2.21	0.41
1:AA:836:G:C6	1:AA:851:G:C6	3.08	0.41
1:AA:926:G:C6	1:AA:1505:G:C6	3.08	0.41
1:AA:1342:C:O2'	9:AL:124:GLN:HA	2.21	0.41
2:AE:208:ILE:HA	2:AE:211:ILE:HG13	2.03	0.41
4:AG:198:VAL:HG12	4:AG:199:ASN:C	2.45	0.41
5:AH:69:VAL:HG12	5:AH:71:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AJ:62:PHE:HA	7:AJ:124:LEU:HD23	2.02	0.41
12:AO:46:LYS:CG	12:AO:47:LYS:H	2.33	0.41
15:AR:21:ASP:CG	15:AR:24:SER:HB3	2.45	0.41
17:AT:83:ASP:OD2	17:AT:84:LEU:HD23	2.20	0.41
18:AU:25:THR:HG22	18:AU:25:THR:O	2.20	0.41
25:BA:165:U:H2'	25:BA:171:G:O4'	2.20	0.41
25:BA:244:A:C2	25:BA:255:A:C4	3.08	0.41
25:BA:270(E):G:C6	25:BA:270(F):U:C4	3.08	0.41
25:BA:537:C:H3'	25:BA:539:G:H8	1.85	0.41
25:BA:807:U:O2'	25:BA:808:G:H5'	2.20	0.41
25:BA:811:U:OP2	35:BO:21:ARG:O	2.39	0.41
25:BA:1071:G:C8	25:BA:1089:G:C5	3.08	0.41
25:BA:1321:A:H2'	25:BA:1322:A:O4'	2.20	0.41
25:BA:1446:C:C2'	25:BA:1447:G:O5'	2.68	0.41
25:BA:1528:A:N6	25:BA:1545:A:C2	2.88	0.41
25:BA:1594:G:H2'	25:BA:1595:G:O4'	2.20	0.41
25:BA:1665:A:H2'	25:BA:1666:G:O4'	2.21	0.41
25:BA:2422:A:C4'	25:BA:2423:U:OP1	2.61	0.41
25:BA:2469:A:H62	25:BA:2481:G:H21	1.67	0.41
25:BA:2646:C:O5'	25:BA:2646:C:C6	2.74	0.41
25:BA:2688:U:O2	25:BA:2688:U:C3'	2.68	0.41
26:BB:81:G:O6	26:BB:95:U:O2	2.38	0.41
27:BD:77:ALA:HB2	27:BD:97:TYR:CD2	2.55	0.41
28:BE:29:GLY:N	28:BE:51:PHE:CE2	2.89	0.41
28:BE:119:ARG:HH12	28:BE:158:GLY:HA3	1.82	0.41
30:BG:77:ILE:O	30:BG:77:ILE:HG22	2.18	0.41
31:BH:3:ARG:HA	31:BH:3:ARG:NE	2.35	0.41
31:BH:38:SER:HA	31:BH:39:PRO:HD3	1.89	0.41
33:BM:120:LEU:C	33:BM:120:LEU:CD2	2.93	0.41
37:B0:28:LEU:HD23	37:B0:28:LEU:HA	1.83	0.41
37:B0:51:LEU:HD23	37:B0:51:LEU:HA	1.86	0.41
42:BS:2:GLU:CA	42:BS:64:MET:HE1	2.50	0.41
45:BV:58:VAL:HG12	45:BV:66:SER:HB3	2.01	0.41
45:BV:102:LEU:HD13	45:BV:139:VAL:HG21	2.01	0.41
49:BX:42:ALA:C	49:BX:44:ARG:N	2.78	0.41
52:B6:21:TYR:N	52:B6:21:TYR:HD2	2.19	0.41
54:B8:43:GLN:C	54:B8:44:LYS:HD2	2.44	0.41
1:CA:287:U:H2'	1:CA:288:A:C8	2.56	0.41
1:CA:438:G:H4'	4:CG:123:HIS:ND1	2.35	0.41
1:CA:628:G:C2'	1:CA:629:G:H5'	2.50	0.41
1:CA:640:A:O2'	1:CA:641:U:H5'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:681:C:C2	1:CA:710:G:N2	2.87	0.41
1:CA:814:A:H5'	1:CA:1511:G:H4'	2.02	0.41
1:CA:957:U:C3'	1:CA:958:A:H5"	2.51	0.41
1:CA:1161:C:O2'	1:CA:1162:C:H5'	2.19	0.41
1:CA:1186:G:C2	1:CA:1187:G:H1'	2.55	0.41
1:CA:1207:G:C5	1:CA:1208:C:C4	3.08	0.41
1:CA:1329:A:OP1	13:CP:25:ILE:O	2.38	0.41
1:CA:1453:G:N3	1:CA:1453:G:O4'	2.54	0.41
1:CA:1477:C:C2'	1:CA:1478:C:H5'	2.50	0.41
2:CE:132:LYS:NZ	2:CE:136:VAL:HG22	2.34	0.41
8:CK:61:VAL:HG12	8:CK:63:LEU:HD13	2.01	0.41
9:CL:52:ALA:HB3	9:CL:95:LYS:NZ	2.36	0.41
9:CL:111:ARG:O	9:CL:113:LYS:HD2	2.20	0.41
10:CM:54:PHE:CE1	10:CM:55:LYS:NZ	2.88	0.41
11:CN:69:ALA:HB1	11:CN:103:LEU:CD2	2.50	0.41
14:CQ:7:ILE:O	14:CQ:10:ALA:HB3	2.19	0.41
18:CU:37:VAL:O	18:CU:41:LYS:HB2	2.20	0.41
22:CB:65:U:H5"	36:DP:52:VAL:HG23	2.02	0.41
23:CD:37:U:H2'	23:CD:38:A:C8	2.55	0.41
25:DA:49:A:H5"	25:DA:50:U:H3'	2.01	0.41
25:DA:110:G:C2	25:DA:111:A:C8	3.08	0.41
25:DA:277:C:H3'	25:DA:278:A:C8	2.54	0.41
25:DA:704:G:H1'	25:DA:726:G:N2	2.36	0.41
25:DA:836:G:C5	25:DA:837:C:C4	3.07	0.41
25:DA:1021:A:C6	25:DA:1023:U:C4	3.08	0.41
25:DA:1111:A:H4'	31:DH:3:ARG:CD	2.40	0.41
25:DA:1330:C:O2'	25:DA:1331:A:H5'	2.21	0.41
25:DA:1475:G:H5'	25:DA:1476:C:OP2	2.20	0.41
25:DA:1599:C:N3	25:DA:1600:C:C5	2.89	0.41
25:DA:2312:U:C2'	25:DA:2313:C:H5'	2.50	0.41
25:DA:2748:A:C2	25:DA:2749:A:C8	3.08	0.41
28:DE:37:ARG:O	28:DE:45:THR:HA	2.20	0.41
28:DE:105:THR:OG1	28:DE:166:THR:HG23	2.20	0.41
30:DG:75:LYS:H	30:DG:75:LYS:HG3	1.72	0.41
32:DK:77:LEU:HG	32:DK:78:THR:OG1	2.20	0.41
38:DQ:110:LEU:HD22	38:DQ:112:PHE:N	2.35	0.41
39:DR:16:ARG:HH21	39:DR:19:LEU:HD21	1.83	0.41
41:D2:66:ARG:H	41:D2:66:ARG:HG2	1.63	0.41
42:DS:51:LEU:HD23	42:DS:105:VAL:HG11	2.02	0.41
48:DW:15:LYS:H	48:DW:67:LYS:HE2	1.84	0.41
50:D4:13:ARG:HG3	50:D4:22:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:187:C:O2	1:AA:191(A):G:C6	2.73	0.41
1:AA:562:C:N4	1:AA:884:U:C6	2.88	0.41
1:AA:656:C:C6	1:AA:656:C:H3'	2.56	0.41
1:AA:690:G:O2'	1:AA:691:G:H5'	2.21	0.41
1:AA:1310:G:N2	1:AA:1328:C:C2	2.88	0.41
2:AE:212:GLN:O	2:AE:212:GLN:NE2	2.54	0.41
2:AE:212:GLN:CD	2:AE:212:GLN:C	2.88	0.41
3:AF:29:TYR:O	3:AF:29:TYR:HD2	2.03	0.41
3:AF:116:VAL:HG21	3:AF:202:ILE:HD11	2.02	0.41
5:AH:6:PHE:CE1	5:AH:66:MET:HE1	2.56	0.41
12:AO:62:SER:HB2	12:AO:64:TYR:CD1	2.51	0.41
18:AU:18:ARG:HB3	18:AU:19:LYS:H	1.76	0.41
19:AV:40:ILE:O	19:AV:41:VAL:HG22	2.21	0.41
23:AD:20:G:C5'	23:AD:60:A:N6	2.81	0.41
23:AD:20:G:H4'	23:AD:60:A:N6	2.35	0.41
23:AD:31:G:H1	23:AD:41:C:H42	1.67	0.41
25:BA:49:A:C8	25:BA:51:G:C2	3.09	0.41
25:BA:129:C:H2'	25:BA:130:C:C6	2.56	0.41
25:BA:299:A:H62	25:BA:300:A:H61	1.67	0.41
25:BA:305:U:O5'	25:BA:305:U:H6	2.03	0.41
25:BA:607:U:C2	25:BA:621:A:N1	2.89	0.41
25:BA:755:C:H2'	25:BA:756:C:C6	2.56	0.41
25:BA:839:U:H2'	25:BA:840:C:C6	2.55	0.41
25:BA:1070:A:H3'	25:BA:1071:G:H5"	2.01	0.41
25:BA:1444:G:C2	25:BA:1548:C:N3	2.89	0.41
25:BA:1652:A:C2'	25:BA:1653:G:H5'	2.51	0.41
25:BA:2286:A:H2'	52:B6:31:PRO:HG2	2.01	0.41
25:BA:2347:C:P	52:B6:39:TYR:OH	2.78	0.41
25:BA:2518:A:C8	25:BA:2518:A:H5'	2.56	0.41
25:BA:2751:G:O5'	25:BA:2751:G:C8	2.73	0.41
27:BD:21:PHE:O	27:BD:24:ILE:HB	2.20	0.41
28:BE:16:ARG:O	28:BE:17:ASP:CB	2.60	0.41
28:BE:201:THR:HG22	28:BE:202:LYS:N	2.34	0.41
31:BH:125:VAL:HG12	31:BH:127:GLU:O	2.20	0.41
33:BM:21:LYS:O	33:BM:22:THR:O	2.38	0.41
36:BP:89:ASN:C	36:BP:90:VAL:O	2.63	0.41
37:B0:18:LEU:HD22	37:B0:18:LEU:C	2.45	0.41
41:B2:4:ILE:HB	41:B2:40:LEU:HB2	2.02	0.41
41:B2:29:PRO:HA	41:B2:61:VAL:HG22	2.00	0.41
54:B8:4:MET:HE3	54:B8:4:MET:HB2	1.83	0.41
54:B8:36:LYS:HD2	54:B8:40:GLU:CG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:79:G:H8	1:CA:79:G:OP2	2.03	0.41
1:CA:173:U:H5"	1:CA:197:A:O4'	2.21	0.41
1:CA:181:G:H4'	1:CA:182:U:H5'	2.03	0.41
1:CA:197:A:C8	1:CA:198:G:C1'	3.04	0.41
1:CA:447:G:H3'	1:CA:485:G:N2	2.35	0.41
1:CA:828:A:H5"	1:CA:859:A:H2	1.78	0.41
1:CA:859:A:OP2	1:CA:869:G:N1	2.41	0.41
1:CA:941:G:C2'	1:CA:942:G:O5'	2.68	0.41
1:CA:956:U:C2	1:CA:1225:A:C2	3.08	0.41
1:CA:973:G:C6	1:CA:974:A:N1	2.89	0.41
1:CA:1001:G:H1	1:CA:1039:C:N4	2.16	0.41
1:CA:1028(A):C:C4	1:CA:1028(B):C:N4	2.86	0.41
1:CA:1216:G:C2	1:CA:1217:C:C2	3.09	0.41
1:CA:1301:U:C4	1:CA:1303:C:C6	3.08	0.41
1:CA:1434:A:N6	1:CA:1467:G:H1'	2.33	0.41
2:CE:134:GLU:HA	2:CE:137:ARG:HB2	2.02	0.41
3:CF:73:PRO:HA	3:CF:76:VAL:HG13	2.03	0.41
4:CG:5:ILE:O	4:CG:5:ILE:HG22	2.21	0.41
5:CH:100:VAL:HA	5:CH:118:ILE:HG22	2.02	0.41
9:CL:32:ASP:O	9:CL:35:GLU:N	2.49	0.41
10:CM:15:THR:HG21	10:CM:92:THR:CG2	2.43	0.41
10:CM:16:LEU:HD22	10:CM:16:LEU:HA	1.76	0.41
12:CO:34:ARG:HD2	12:CO:82:VAL:CG1	2.49	0.41
18:CU:84:LYS:HA	18:CU:84:LYS:HE2	2.03	0.41
22:CB:8:U:H5"	22:CB:60:A:H5'	2.02	0.41
22:CB:34:U:C2	22:CB:36:A:OP2	2.73	0.41
23:CC:76:C:OP1	25:DA:2602:A:OP1	2.39	0.41
23:CD:27:G:H2'	23:CD:28:U:O4'	2.20	0.41
25:DA:80:G:C2'	25:DA:81:G:H5'	2.50	0.41
25:DA:218:A:H2	25:DA:235:U:H4'	1.84	0.41
25:DA:550:G:O2'	25:DA:1220:A:N3	2.42	0.41
25:DA:631:A:N6	25:DA:632:A:C2	2.88	0.41
25:DA:1021:A:H62	25:DA:1141:U:H3	1.68	0.41
25:DA:1142(A):A:N7	25:DA:1144:G:C5	2.89	0.41
25:DA:1309:G:C2'	25:DA:1310:G:H5'	2.49	0.41
25:DA:1601:G:C6	25:DA:1602:U:C4	3.08	0.41
25:DA:1899:G:H1	25:DA:1902:C:H41	1.69	0.41
25:DA:1939:U:OP1	25:DA:2604:U:O2'	2.38	0.41
25:DA:2149:G:C2	25:DA:2150:U:C2	3.08	0.41
25:DA:2164:C:C5	25:DA:2165:G:N7	2.88	0.41
25:DA:2857:G:N2	25:DA:2859:G:H3'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:9:TYR:CE2	27:DD:13:ARG:HG2	2.56	0.41
27:DD:68:LYS:CB	27:DD:70:TRP:CZ3	3.04	0.41
27:DD:78:LYS:HA	27:DD:115:GLN:O	2.19	0.41
30:DG:5:VAL:HG22	50:D4:25:TYR:CE2	2.55	0.41
30:DG:64:THR:HG23	30:DG:65:GLY:H	1.84	0.41
31:DH:9:ILE:HG21	31:DH:51:ARG:HG2	2.03	0.41
31:DH:130:ARG:HB3	31:DH:130:ARG:NH1	2.35	0.41
33:DM:19:GLU:HG3	33:DM:59:LYS:CB	2.49	0.41
33:DM:98:VAL:HG23	33:DM:99:LEU:N	2.36	0.41
33:DM:132:ALA:O	33:DM:133:GLN:C	2.63	0.41
37:D0:65:LEU:HD12	37:D0:65:LEU:HA	1.86	0.41
39:DR:64:ARG:O	39:DR:64:ARG:CG	2.67	0.41
40:D1:52:ARG:HB3	40:D1:52:ARG:HH11	1.85	0.41
44:DU:86:ARG:HB3	44:DU:88:LYS:NZ	2.34	0.41
45:DV:31:ARG:HE	45:DV:31:ARG:HB2	1.73	0.41
1:AA:323:U:H5'	20:AW:23:ARG:HB2	2.03	0.41
1:AA:453:A:C5	1:AA:454:C:C5	3.08	0.41
1:AA:735:C:O2'	1:AA:736:C:H5'	2.20	0.41
1:AA:1227:A:OP2	13:AP:96:LEU:HD21	2.20	0.41
1:AA:1256:A:O4'	1:AA:1258:G:C2	2.74	0.41
1:AA:1336:C:OP1	1:AA:1336:C:C4'	2.66	0.41
2:AE:167:PRO:HG3	2:AE:188:ALA:HB2	2.01	0.41
2:AE:219:VAL:HA	2:AE:222:ILE:CD1	2.51	0.41
3:AF:47:LEU:HD12	3:AF:47:LEU:HA	1.78	0.41
5:AH:99:GLY:O	5:AH:117:ASP:HA	2.20	0.41
5:AH:154:GLY:O	5:AH:155:GLU:CB	2.67	0.41
10:AM:49:VAL:HG21	14:AQ:41:ARG:HB2	1.99	0.41
13:AP:34:LEU:HD22	13:AP:34:LEU:HA	1.82	0.41
17:AT:100:LYS:O	17:AT:101:ARG:NE	2.53	0.41
19:AV:65:ASN:H	19:AV:65:ASN:ND2	2.06	0.41
23:AD:69:C:C5	23:AD:70:C:C5	3.08	0.41
25:BA:36:G:C5	25:BA:37:C:C5	3.09	0.41
25:BA:814:C:O2'	25:BA:1225:C:N3	2.49	0.41
25:BA:856:C:H2'	25:BA:857:C:C6	2.49	0.41
25:BA:1092:C:H42	25:BA:1099:G:H1	1.67	0.41
25:BA:1449(A):G:O2'	25:BA:1450:C:H5'	2.21	0.41
25:BA:1750:G:C2'	25:BA:1751:C:H5'	2.50	0.41
25:BA:1913:A:H4'	25:BA:1914:C:H5"	2.02	0.41
25:BA:2109:U:C4	25:BA:2110:G:O6	2.74	0.41
25:BA:2409:G:H2'	25:BA:2410:G:O4'	2.21	0.41
25:BA:2642:G:N2	25:BA:2773:C:C2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2663:G:C2	25:BA:2664:G:H1'	2.56	0.41
25:BA:2690:C:OP2	25:BA:2690:C:H6	2.03	0.41
25:BA:2799:A:N7	25:BA:2801:A:N6	2.68	0.41
27:BD:223:GLY:HA3	27:BD:231:HIS:CE1	2.55	0.41
29:BF:10:PRO:HG2	29:BF:124:LEU:HD12	2.03	0.41
33:BM:131:GLN:NE2	33:BM:132:ALA:N	2.63	0.41
35:BO:112:LEU:HD23	35:BO:112:LEU:HA	1.86	0.41
36:BP:87:LYS:O	36:BP:89:ASN:N	2.51	0.41
37:B0:87:TYR:CE1	37:B0:117:VAL:HG12	2.55	0.41
42:BS:2:GLU:OE1	42:BS:72:LYS:NZ	2.49	0.41
47:BZ:83:GLU:OE2	47:BZ:83:GLU:N	2.45	0.41
48:BW:61:LEU:HD23	48:BW:61:LEU:HA	1.78	0.41
1:CA:9:G:H5'	5:CH:122:GLU:OE2	2.21	0.41
1:CA:92:G:H2'	1:CA:93:U:O4'	2.21	0.41
1:CA:393:A:C4	1:CA:394:G:C8	3.08	0.41
1:CA:476:G:O2'	1:CA:477:G:H5'	2.19	0.41
1:CA:561:U:HO2'	1:CA:562:C:P	2.44	0.41
1:CA:671:G:C4	1:CA:672:U:C6	3.09	0.41
1:CA:977:A:C8	1:CA:982:U:O4	2.74	0.41
1:CA:1121:U:O2'	1:CA:1122:U:H5'	2.20	0.41
1:CA:1126:U:H1'	1:CA:1127:G:P	2.61	0.41
1:CA:1157:A:H62	1:CA:1178:G:N2	2.18	0.41
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.20	0.41
1:CA:1326:C:H2'	1:CA:1327:C:C6	2.56	0.41
1:CA:1374:A:C2'	1:CA:1375:A:H5'	2.50	0.41
2:CE:188:ALA:O	2:CE:203:GLY:O	2.39	0.41
4:CG:189:PRO:HB2	4:CG:194:LEU:HD21	2.02	0.41
5:CH:118:ILE:HD12	5:CH:118:ILE:HA	1.92	0.41
8:CK:134:ILE:O	8:CK:135:CYS:HB3	2.20	0.41
10:CM:28:ARG:NH2	10:CM:34:VAL:HB	2.35	0.41
11:CN:13:GLN:HG3	11:CN:14:VAL:N	2.35	0.41
23:CD:31:G:C2	23:CD:32:G:C5	3.08	0.41
25:DA:46:C:H42	25:DA:179:G:H1	1.68	0.41
25:DA:250:G:P	54:D8:13:ARG:HH21	2.44	0.41
25:DA:628:G:H5"	54:D8:18:ALA:HB2	2.03	0.41
25:DA:679:C:H2'	25:DA:680:G:C8	2.55	0.41
25:DA:842:G:H2'	25:DA:843:G:O4'	2.19	0.41
25:DA:866:A:C2	25:DA:867:C:C4	3.09	0.41
25:DA:1019:U:OP1	25:DA:1035:U:O2'	2.28	0.41
25:DA:1063:G:N1	25:DA:1064:C:O2	2.53	0.41
25:DA:1142:U:H5"	25:DA:1142(A):A:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1288:U:C2	25:DA:1327:C:C2	3.08	0.41
25:DA:1342:A:C6	25:DA:1602:U:N3	2.75	0.41
25:DA:1652:A:N6	37:D0:11:ASN:HD21	1.95	0.41
25:DA:1945:G:H2'	25:DA:1946:U:H6	1.85	0.41
25:DA:2060:A:P	29:DF:68:LYS:O	2.74	0.41
25:DA:2469:A:N1	25:DA:2470:G:C4	2.88	0.41
25:DA:2552:U:C2	25:DA:2554:U:H5'	2.56	0.41
26:DB:21:G:H2'	26:DB:22:U:O4'	2.21	0.41
26:DB:99:A:C5	26:DB:100:G:C8	3.09	0.41
28:DE:54:GLN:O	28:DE:75:VAL:HG22	2.21	0.41
29:DF:7:TYR:CE2	29:DF:16:GLY:HA3	2.56	0.41
29:DF:129:PHE:HA	29:DF:142:TRP:NE1	2.35	0.41
32:DK:104:GLN:CG	32:DK:105:HIS:CD2	3.03	0.41
35:DO:60:MET:O	35:DO:60:MET:HG3	2.21	0.41
35:DO:93:GLY:O	35:DO:123:LEU:HB2	2.20	0.41
36:DP:32:TYR:CD1	36:DP:114:ALA:HB3	2.55	0.41
39:DR:64:ARG:CB	39:DR:73:GLU:HG3	2.47	0.41
39:DR:88:ILE:CD1	39:DR:91:ARG:HG2	2.50	0.41
39:DR:90:GLN:HG3	39:DR:91:ARG:N	2.35	0.41
39:DR:91:ARG:HH11	39:DR:124:ASP:CG	2.24	0.41
40:D1:39:LEU:HD23	40:D1:39:LEU:HA	1.89	0.41
43:DT:12:VAL:HG22	43:DT:17:ALA:HB2	2.02	0.41
50:D4:24:THR:HB	50:D4:25:TYR:H	1.68	0.41
1:AA:108:G:C2	1:AA:109:A:C2	3.08	0.41
1:AA:877:C:H5"	8:AK:88:LYS:HD3	2.03	0.41
1:AA:937:A:C4	1:AA:938:A:C8	3.08	0.41
1:AA:988:G:C2	1:AA:1218:C:C2	3.08	0.41
2:AE:7:VAL:CG2	2:AE:8:LYS:HE2	2.50	0.41
2:AE:165:VAL:CG2	2:AE:166:ASP:N	2.82	0.41
4:AG:14:ARG:HD3	4:AG:14:ARG:HA	1.80	0.41
4:AG:19:LEU:CD2	4:AG:21:LEU:HD12	2.50	0.41
7:AJ:78:ARG:HH11	7:AJ:80:VAL:HG22	1.85	0.41
8:AK:129:VAL:HG23	8:AK:130:GLY:N	2.33	0.41
9:AL:85:LEU:O	9:AL:88:TYR:O	2.38	0.41
12:AO:113:ARG:NH2	12:AO:120:TYR:CE1	2.88	0.41
16:AS:12:LYS:HB3	16:AS:12:LYS:HE2	1.74	0.41
16:AS:74:LEU:HD23	16:AS:74:LEU:HA	1.94	0.41
22:AB:8:U:O2'	22:AB:9:G:O5'	2.38	0.41
22:AB:23:A:HO2'	22:AB:24:C:P	2.39	0.41
22:AB:50:A:H1'	22:AB:54:G:N2	2.36	0.41
23:AC:54:G:O2'	23:AC:55:U:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:301:G:C2	25:BA:302:C:N3	2.88	0.41
25:BA:412:A:N6	25:BA:2412:A:O4'	2.54	0.41
25:BA:445:C:OP1	40:B1:2:PRO:HA	2.21	0.41
25:BA:784:A:C8	25:BA:792:G:C5	3.09	0.41
25:BA:1057:A:C8	25:BA:1086:A:H2'	2.56	0.41
25:BA:1058:U:HO2'	25:BA:1059:G:H8	1.67	0.41
25:BA:1471:A:C2	25:BA:1472:A:C4	3.09	0.41
25:BA:1813:G:H4'	27:BD:44:ASN:O	2.21	0.41
25:BA:1856:G:C2'	25:BA:1857:G:H5'	2.50	0.41
25:BA:2047:U:O2'	25:BA:2823:A:N1	2.50	0.41
25:BA:2161:C:C2'	25:BA:2162:G:H5'	2.50	0.41
27:BD:264:LYS:O	27:BD:265:PRO:C	2.62	0.41
28:BE:27:LEU:HD13	39:BR:1:MET:HE2	1.93	0.41
29:BF:176:LEU:HD21	29:BF:180:GLY:C	2.44	0.41
36:BP:17:LEU:HD22	36:BP:17:LEU:HA	1.85	0.41
40:B1:88:ILE:HG22	40:B1:90:VAL:H	1.85	0.41
40:B1:92:ARG:NE	41:B2:11:GLN:H	2.19	0.41
41:B2:2:PHE:CD1	41:B2:2:PHE:C	2.98	0.41
44:BU:79:CYS:O	44:BU:81:LYS:HD2	2.20	0.41
45:BV:5:LEU:HB3	45:BV:59:LEU:HA	2.02	0.41
45:BV:142:SER:HB3	45:BV:143:GLY:C	2.46	0.41
49:BX:32:GLN:HE21	49:BX:32:GLN:HA	1.86	0.41
1:CA:89:U:C4'	1:CA:90:C:OP1	2.68	0.41
1:CA:101:A:C2'	1:CA:102:G:H5'	2.50	0.41
1:CA:436:C:H2'	1:CA:437:U:H6	1.84	0.41
1:CA:740:U:OP2	15:CR:2:PRO:HA	2.21	0.41
1:CA:940:C:H2'	1:CA:941:G:H8	1.85	0.41
1:CA:1480:G:H2'	1:CA:1481:U:C6	2.56	0.41
3:CF:98:ASN:ND2	3:CF:98:ASN:C	2.79	0.41
5:CH:92:LYS:HG2	5:CH:93:PRO:HD2	2.02	0.41
9:CL:89:ASN:N	9:CL:89:ASN:HD22	2.18	0.41
10:CM:54:PHE:CE2	10:CM:55:LYS:CD	3.01	0.41
13:CP:17:VAL:C	13:CP:19:LEU:N	2.79	0.41
19:CV:31:ILE:HG21	19:CV:33:THR:HG22	2.03	0.41
22:CB:31:C:N3	22:CB:32:C:C5	2.88	0.41
23:CC:23:G:C4	23:CC:24:C:C5	3.08	0.41
23:CC:54:G:O2'	23:CC:55:U:H5'	2.21	0.41
25:DA:946:G:O2'	25:DA:947:G:H5'	2.21	0.41
25:DA:1421:G:C2	25:DA:1422:G:N7	2.89	0.41
25:DA:1533:C:H3'	25:DA:1534:G:O4'	2.21	0.41
25:DA:1810:A:H2'	25:DA:1811:G:H5'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1870:C:N4	25:DA:1871:A:C6	2.89	0.41
25:DA:2138:C:C2	25:DA:2139:C:C5	3.08	0.41
25:DA:2579:C:H2'	25:DA:2580:U:O4'	2.20	0.41
25:DA:2602:A:H4'	25:DA:2603:G:C5'	2.49	0.41
26:DB:90:C:H6	26:DB:90:C:H5"	1.85	0.41
27:DD:27:THR:HG21	27:DD:83:GLU:CD	2.46	0.41
31:DH:35:VAL:O	31:DH:35:VAL:HG12	2.21	0.41
32:DK:78:THR:HB	32:DK:104:GLN:NE2	2.30	0.41
34:DN:103:ALA:O	34:DN:106:LEU:HB2	2.20	0.41
38:DQ:35:ILE:HD11	38:DQ:101:LEU:CD2	2.41	0.41
39:DR:45:PHE:CE1	39:DR:74:ARG:HD2	2.56	0.41
43:DT:43:VAL:HG11	43:DT:81:VAL:HG11	2.02	0.41
43:DT:44:GLU:HG2	43:DT:49:VAL:O	2.20	0.41
47:DZ:65:SER:OG	47:DZ:66:HIS:CD2	2.66	0.41
48:DW:15:LYS:HD3	48:DW:67:LYS:NZ	2.36	0.41
1:AA:103:C:C2	1:AA:104:G:C8	3.09	0.41
1:AA:186(F):C:H2'	1:AA:187:C:O4'	2.21	0.41
1:AA:258:G:H2'	1:AA:259:G:C8	2.54	0.41
1:AA:397:A:N6	1:AA:548:G:N7	2.69	0.41
1:AA:428:G:C5	1:AA:430:A:C6	3.08	0.41
1:AA:674:G:H2'	1:AA:675:A:H8	1.84	0.41
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.20	0.41
1:AA:1157:A:O2'	1:AA:1158:C:C2	2.62	0.41
1:AA:1309:G:C5	1:AA:1329:A:C2	3.09	0.41
1:AA:1381:U:O2	1:AA:1381:U:H2'	2.21	0.41
2:AE:8:LYS:HG2	2:AE:11:LEU:H	1.85	0.41
2:AE:15:VAL:C	2:AE:16:HIS:ND1	2.79	0.41
2:AE:72:GLY:CA	2:AE:165:VAL:HG22	2.50	0.41
2:AE:177:ALA:HB1	2:AE:182:ILE:HB	2.02	0.41
2:AE:224:GLN:HB2	2:AE:229:VAL:HG23	2.02	0.41
3:AF:34:LEU:HD21	3:AF:38:ARG:NH1	2.33	0.41
8:AK:94:TYR:HD1	8:AK:132:GLU:HA	1.86	0.41
15:AR:26:GLU:O	15:AR:27:VAL:C	2.64	0.41
15:AR:56:LEU:O	15:AR:56:LEU:HD12	2.20	0.41
20:AW:72:LEU:HD21	20:AW:77:ALA:N	2.36	0.41
23:AC:76:C:C5'	23:AC:77:A:OP2	2.50	0.41
23:AC:77:A:H5'	23:AC:77:A:H8	1.85	0.41
23:AD:11:A:N1	23:AD:26:C:C2	2.89	0.41
23:AD:13:C:C2'	23:AD:14:A:OP1	2.68	0.41
25:BA:404:C:C2'	25:BA:405:U:OP2	2.68	0.41
25:BA:466:A:N3	25:BA:683:C:H1'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:638:G:H2'	25:BA:639:U:O4'	2.19	0.41
25:BA:809:G:O4'	25:BA:1254:A:H1'	2.21	0.41
25:BA:847:U:H5'	25:BA:848:G:OP2	2.21	0.41
25:BA:910:A:C5	36:BP:13:GLN:HG3	2.56	0.41
25:BA:1195:G:N3	25:BA:1227:A:H2	2.18	0.41
25:BA:1446:C:H2'	25:BA:1447:G:O5'	2.20	0.41
25:BA:1535:U:N3	25:BA:1537:C:O4'	2.52	0.41
25:BA:2059:A:O2'	29:BF:69:HIS:HD2	2.03	0.41
25:BA:2082:A:H2'	25:BA:2083:G:O4'	2.21	0.41
25:BA:2163:C:C5	25:BA:2164:C:C5	3.08	0.41
25:BA:2166:G:C2'	25:BA:2167:U:OP1	2.69	0.41
25:BA:2492:U:H2'	25:BA:2493:U:H6	1.85	0.41
25:BA:2607:G:H2'	25:BA:2608:G:O4'	2.21	0.41
27:BD:269:PHE:CD2	27:BD:269:PHE:N	2.89	0.41
29:BF:191:ARG:HH11	29:BF:191:ARG:HB3	1.86	0.41
30:BG:26:GLN:HG3	30:BG:30:GLU:OE2	2.20	0.41
30:BG:44:GLY:O	30:BG:47:LYS:HE2	2.21	0.41
31:BH:13:LYS:HE2	31:BH:13:LYS:HA	2.03	0.41
31:BH:30:LYS:HG3	31:BH:79:VAL:O	2.21	0.41
31:BH:102:ALA:HB2	31:BH:116:GLU:HB2	2.03	0.41
37:B0:92:GLY:N	37:B0:94:TYR:CE2	2.89	0.41
39:BR:6:LEU:HA	39:BR:9:LEU:HB2	2.01	0.41
39:BR:93:ARG:HG3	39:BR:93:ARG:NH1	2.32	0.41
43:BT:26:TYR:O	43:BT:81:VAL:HG12	2.21	0.41
46:B3:32:ARG:HE	46:B3:32:ARG:HB3	1.67	0.41
1:CA:34:C:O2'	1:CA:35:G:H5'	2.20	0.41
1:CA:389:A:N3	1:CA:389:A:H2'	2.36	0.41
1:CA:862:C:C2	1:CA:863:U:C6	3.08	0.41
1:CA:1076:C:C2	1:CA:1082:G:N2	2.89	0.41
1:CA:1089:G:C6	1:CA:1090:U:C4	3.08	0.41
1:CA:1192:C:N4	1:CA:1193:G:C5	2.89	0.41
1:CA:1294:G:O2'	1:CA:1295:G:H5'	2.21	0.41
1:CA:1297:C:OP2	1:CA:1297:C:H6	2.04	0.41
1:CA:1347:G:C5	9:CL:107:ARG:NH2	2.89	0.41
3:CF:27:LYS:HB3	3:CF:27:LYS:HZ3	1.84	0.41
5:CH:33:VAL:HG12	5:CH:34:VAL:N	2.35	0.41
5:CH:107:ARG:HG2	5:CH:108:ALA:H	1.83	0.41
16:CS:8:ARG:HD2	16:CS:17:TYR:HE2	1.85	0.41
16:CS:81:ARG:O	16:CS:81:ARG:HG3	2.20	0.41
18:CU:25:THR:O	18:CU:25:THR:HG22	2.20	0.41
20:CW:94:ALA:O	20:CW:95:ALA:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:12:U:O2	25:DA:12:U:C2'	2.64	0.41
25:DA:204:A:H5'	25:DA:206:U:H1'	2.02	0.41
25:DA:278:A:O2'	25:DA:279:C:P	2.78	0.41
25:DA:405:U:O2	25:DA:405:U:C2'	2.68	0.41
25:DA:511:U:H4'	25:DA:1235:G:H4'	2.02	0.41
25:DA:527:C:OP2	25:DA:2779:U:C5	2.60	0.41
25:DA:565:C:H4'	25:DA:1253:A:C6	2.55	0.41
25:DA:681:G:H2'	25:DA:682:G:O4'	2.20	0.41
25:DA:944:G:H2'	25:DA:944:G:N3	2.36	0.41
25:DA:988:A:C2'	25:DA:989:G:O5'	2.69	0.41
25:DA:991:C:O2	25:DA:1164:G:C2	2.74	0.41
25:DA:1198:U:H2'	25:DA:1199:U:C6	2.55	0.41
25:DA:1424:G:H2'	25:DA:1425:G:O4'	2.21	0.41
25:DA:1932:A:H2'	25:DA:1933:G:O4'	2.21	0.41
25:DA:2157:G:O2'	25:DA:2158:A:O4'	2.27	0.41
25:DA:2173:A:H5'	25:DA:2174:C:OP2	2.20	0.41
25:DA:2387:U:H5'	25:DA:2388:A:OP2	2.20	0.41
25:DA:2464:C:H2'	25:DA:2465:C:O4'	2.20	0.41
26:DB:46:A:H2'	26:DB:47:C:H6	1.86	0.41
26:DB:90:C:O5'	36:DP:17:LEU:O	2.38	0.41
27:DD:132:PRO:HD3	27:DD:190:TYR:CZ	2.55	0.41
28:DE:181:LEU:HD11	39:DR:7:ILE:HD12	2.01	0.41
29:DF:72:ARG:HB3	29:DF:72:ARG:HH11	1.86	0.41
29:DF:206:ILE:O	29:DF:206:ILE:HG13	2.19	0.41
31:DH:94:TYR:CZ	31:DH:107:VAL:O	2.74	0.41
34:DN:22:ILE:HG22	34:DN:23:ARG:N	2.36	0.41
37:D0:29:LEU:HD12	37:D0:29:LEU:HA	1.93	0.41
41:D2:62:LEU:HB2	41:D2:93:GLU:O	2.21	0.41
43:DT:40:LYS:HG3	43:DT:51:VAL:HG11	2.03	0.41
44:DU:98:VAL:CG1	44:DU:99:CYS:H	2.29	0.41
1:AA:61:G:H2'	1:AA:62:U:O4'	2.21	0.41
1:AA:184:G:H2'	1:AA:185:A:C8	2.56	0.41
1:AA:1124:G:O2'	10:AM:38:ILE:HD13	2.21	0.41
1:AA:1162:C:C2	1:AA:1175:G:N2	2.89	0.41
1:AA:1180:A:H8	1:AA:1180:A:O5'	2.03	0.41
1:AA:1303:C:N4	1:AA:1304:G:C6	2.89	0.41
1:AA:1305:G:OP1	21:AX:2:GLY:HA3	2.21	0.41
2:AE:5:ILE:CG2	2:AE:221:LEU:HD23	2.50	0.41
2:AE:130:ARG:HA	2:AE:131:PRO:HD3	1.91	0.41
7:AJ:54:THR:OG1	7:AJ:56:GLN:HG2	2.21	0.41
8:AK:56:LYS:HA	8:AK:57:PRO:HD2	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:86:CYS:HB2	19:AV:73:GLU:HB3	2.03	0.41
14:AQ:36:PHE:C	14:AQ:36:PHE:CD1	2.98	0.41
16:AS:25:ARG:HG2	16:AS:25:ARG:H	1.61	0.41
18:AU:76:LEU:HA	18:AU:76:LEU:HD22	1.87	0.41
22:AB:87:A:HO3'	25:BA:2506:U:H1'	1.84	0.41
23:AC:48:U:H1'	23:AC:49:C:OP2	2.21	0.41
23:AD:29:C:O2'	23:AD:30:G:H5'	2.21	0.41
25:BA:729:G:OP1	27:BD:10:THR:OG1	2.36	0.41
25:BA:738:G:C6	25:BA:739:G:C2	3.09	0.41
25:BA:943:U:OP2	35:BO:36:LYS:CG	2.68	0.41
25:BA:1265:A:OP1	25:BA:1265:A:H8	2.04	0.41
25:BA:1449:A:C5'	25:BA:1449(A):G:OP2	2.68	0.41
25:BA:1889:A:N1	25:BA:2234:G:H1'	2.36	0.41
25:BA:1914:C:O2	25:BA:1914:C:O5'	2.39	0.41
25:BA:1952:A:C6	34:BN:22:ILE:HD11	2.56	0.41
25:BA:2467:C:N4	25:BA:2468:G:C6	2.89	0.41
26:BB:42:C:H4'	30:BG:67:LYS:CD	2.51	0.41
26:BB:81:G:H2'	26:BB:82:G:C5'	2.50	0.41
27:BD:35:LYS:HG2	27:BD:64:ILE:CA	2.50	0.41
28:BE:92:THR:H	28:BE:95:ILE:HD11	1.86	0.41
30:BG:70:VAL:HA	30:BG:90:LEU:HD12	2.02	0.41
31:BH:153:LYS:HG3	31:BH:161:GLY:CA	2.50	0.41
32:BK:21:VAL:HG22	32:BK:22:LYS:H	1.85	0.41
33:BM:57:ALA:O	33:BM:58:ASP:OD1	2.39	0.41
36:BP:34:LEU:HD23	36:BP:104:PHE:CD1	2.56	0.41
41:B2:18:LEU:HD22	41:B2:19:LYS:N	2.35	0.41
44:BU:54:LYS:O	44:BU:55:TYR:HB2	2.21	0.41
45:BV:61:LEU:HA	45:BV:62:PRO:HD3	1.95	0.41
52:B6:40:CYS:CA	52:B6:46:HIS:HA	2.40	0.41
1:CA:161:A:N6	1:CA:162:A:C6	2.88	0.41
1:CA:328:C:C2'	1:CA:329:A:OP2	2.68	0.41
1:CA:630:G:H5'	1:CA:631:G:OP2	2.21	0.41
1:CA:675:A:H1'	11:CN:116:HIS:CG	2.55	0.41
1:CA:828:A:H61	1:CA:858:G:C2'	2.34	0.41
1:CA:932:C:O2	1:CA:932:C:H2'	2.20	0.41
1:CA:980:C:C5	1:CA:981:U:C2	3.09	0.41
1:CA:1060:C:C2	1:CA:1198:G:C2	3.09	0.41
1:CA:1128:C:C4	1:CA:1139:G:N1	2.89	0.41
1:CA:1234:C:C2'	1:CA:1235:U:H5'	2.50	0.41
1:CA:1258:G:O2'	1:CA:1259:C:H5'	2.21	0.41
1:CA:1394:A:H4'	1:CA:1395:C:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:179:LYS:HA	8:CK:72:PRO:HG3	2.03	0.41
3:CF:134:ILE:CG2	3:CF:168:ALA:HB3	2.41	0.41
10:CM:78:ASN:HB3	10:CM:80:LYS:HB3	2.03	0.41
11:CN:29:ILE:HG22	11:CN:44:SER:CB	2.37	0.41
15:CR:59:MET:HE3	15:CR:59:MET:HB2	1.90	0.41
16:CS:82:GLN:H	16:CS:82:GLN:HG2	1.54	0.41
20:CW:53:LEU:HD21	20:CW:92:LEU:HD11	2.02	0.41
24:C1:13:U:O2	24:C1:13:U:C2'	2.52	0.41
25:DA:322:A:H5'	25:DA:340:A:C1'	2.47	0.41
25:DA:588:U:H1'	29:DF:90:PHE:HB3	2.03	0.41
25:DA:654(A):A:N1	25:DA:654(T):A:N1	2.69	0.41
25:DA:771:G:OP1	53:D7:10:ARG:HD3	2.21	0.41
25:DA:817:C:O2'	25:DA:839:U:H5"	2.21	0.41
25:DA:888:C:C4'	25:DA:889:C:OP2	2.69	0.41
25:DA:898:C:H3'	25:DA:899:A:H5"	2.03	0.41
25:DA:960:A:H61	36:DP:83:MET:HE2	1.84	0.41
25:DA:1130:U:C2	25:DA:2025:C:H5"	2.56	0.41
25:DA:1140:C:C4'	25:DA:1143:A:N7	2.84	0.41
25:DA:1190:G:H2'	25:DA:1191:G:C8	2.51	0.41
25:DA:1401:G:H2'	25:DA:1402:C:O4'	2.21	0.41
25:DA:1483:G:C6	25:DA:1507:A:C2	3.09	0.41
25:DA:2410:G:N3	25:DA:2411:A:H1'	2.35	0.41
25:DA:2415:G:C5	25:DA:2416:C:C4	3.09	0.41
27:DD:26:LYS:N	27:DD:26:LYS:HE3	2.36	0.41
28:DE:11:MET:HG3	28:DE:24:THR:CA	2.50	0.41
30:DG:103:LEU:O	30:DG:106:LEU:HB3	2.21	0.41
31:DH:35:VAL:HG11	31:DH:71:LEU:HG	2.02	0.41
31:DH:120:GLY:O	31:DH:121:ILE:HD13	2.21	0.41
36:DP:1:MET:HB3	36:DP:69:PHE:HE1	1.85	0.41
43:DT:57:LEU:N	43:DT:57:LEU:CD2	2.81	0.41
47:DZ:83:GLU:CD	47:DZ:83:GLU:C	2.87	0.41
1:AA:8:A:H5'	5:AH:101:ILE:CG2	2.49	0.41
1:AA:46:G:H2'	1:AA:366:C:H5	1.85	0.41
1:AA:55:A:C6	32:DK:89:TYR:CD1	3.09	0.41
1:AA:136:C:N4	1:AA:227:G:H1	2.18	0.41
1:AA:148:G:H2'	1:AA:149:A:H8	1.85	0.41
1:AA:198:G:O6	1:AA:220:G:C6	2.74	0.41
1:AA:545:C:O2'	1:AA:549:C:H5"	2.21	0.41
1:AA:775:G:C2'	1:AA:776:G:H5'	2.51	0.41
1:AA:1004:A:C5	1:AA:1025:U:H1'	2.55	0.41
1:AA:1131:G:C2'	1:AA:1132:C:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1242:C:O2'	1:AA:1243:C:H5'	2.21	0.41
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.36	0.41
1:AA:1301:U:C4	1:AA:1303:C:N1	2.89	0.41
1:AA:1330:U:O4	1:AA:1331:G:C2	2.74	0.41
1:AA:1502:A:H2	1:AA:1505:G:C2	2.38	0.41
2:AE:210:SER:O	2:AE:214:ILE:HG13	2.20	0.41
3:AF:43:LEU:O	3:AF:47:LEU:HB2	2.20	0.41
3:AF:69:HIS:HA	3:AF:104:GLN:O	2.20	0.41
3:AF:150:LYS:HE3	3:AF:152:ILE:CD1	2.51	0.41
4:AG:119:GLN:HG3	4:AG:123:HIS:CD2	2.56	0.41
4:AG:145:GLU:HB2	4:AG:184:LYS:HZ2	1.85	0.41
6:AI:61:LEU:HD23	6:AI:63:TYR:OH	2.21	0.41
10:AM:80:LYS:HD3	10:AM:80:LYS:O	2.21	0.41
16:AS:72:ARG:HD3	16:AS:72:ARG:C	2.46	0.41
17:AT:68:ARG:O	17:AT:68:ARG:HG3	2.19	0.41
19:AV:32:LYS:HA	19:AV:50:ALA:HB3	2.03	0.41
19:AV:40:ILE:O	19:AV:41:VAL:CG2	2.69	0.41
19:AV:41:VAL:O	50:B4:63:TYR:CE1	2.74	0.41
22:AB:45:U:C6	22:AB:45:U:C3'	3.03	0.41
23:AD:5:G:N2	23:AD:70:C:C4	2.78	0.41
23:AD:21:U:H3'	23:AD:22:A:H5'	2.02	0.41
24:A1:14:U:HO2'	24:A1:15:U:C4'	2.34	0.41
25:BA:141:A:H1'	25:BA:1408:C:O4'	2.20	0.41
25:BA:442:G:N3	29:BF:48:THR:HG23	2.35	0.41
25:BA:468:G:C6	25:BA:469:G:C4	3.09	0.41
25:BA:559:G:N2	40:B1:49:HIS:CD2	2.82	0.41
25:BA:690:G:H2'	25:BA:691:C:C6	2.56	0.41
25:BA:728:G:H4'	27:BD:13:ARG:HD3	2.03	0.41
25:BA:830:G:H4'	25:BA:831:G:OP2	2.21	0.41
25:BA:882:G:H1	25:BA:894:C:N4	2.19	0.41
25:BA:975:G:H1'	25:BA:990:A:C2	2.55	0.41
25:BA:981:A:H1'	25:BA:2037:G:O4'	2.21	0.41
25:BA:997:G:OP1	40:B1:93:LYS:HD2	2.21	0.41
25:BA:1048:A:N3	25:BA:1048:A:H2'	2.36	0.41
25:BA:1056:G:C2	25:BA:1103:A:N6	2.68	0.41
25:BA:1578:U:H2'	25:BA:1578:U:O2	2.21	0.41
25:BA:1586:A:N3	25:BA:1586:A:O4'	2.53	0.41
25:BA:1637:A:H4'	25:BA:2711:A:O2'	2.21	0.41
25:BA:1652:A:H2'	25:BA:1653:G:H5'	2.03	0.41
25:BA:1824:G:N3	27:BD:254:THR:OG1	2.54	0.41
25:BA:2135:A:C2'	25:BA:2136:C:O5'	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2415:G:C4'	35:BO:66:GLY:HA3	2.47	0.41
25:BA:2554:U:H2'	25:BA:2555:U:C6	2.55	0.41
25:BA:2591:C:OP1	27:BD:239:ARG:HG3	2.20	0.41
25:BA:2598:A:C2'	25:BA:2599:G:O5'	2.69	0.41
25:BA:2805:G:H5"	25:BA:2807:G:OP2	2.21	0.41
25:BA:2815:C:H2'	25:BA:2816:C:C6	2.54	0.41
25:BA:2839:G:H2'	25:BA:2840:C:C6	2.56	0.41
25:BA:2864:G:OP1	39:BR:119:LYS:HD2	2.21	0.41
25:BA:2867:G:OP2	39:BR:119:LYS:NZ	2.45	0.41
27:BD:34:VAL:HG21	27:BD:103:ARG:HA	2.01	0.41
27:BD:58:HIS:HD2	27:BD:59:LYS:O	2.04	0.41
27:BD:64:ILE:HG21	27:BD:64:ILE:HD13	1.75	0.41
27:BD:227:ASN:C	27:BD:234:GLY:HA3	2.46	0.41
28:BE:89:ASP:O	28:BE:90:THR:C	2.63	0.41
28:BE:134:ILE:C	28:BE:134:ILE:HD12	2.46	0.41
29:BF:23:ASP:CG	29:BF:24:LEU:N	2.79	0.41
29:BF:101:LEU:HD12	29:BF:101:LEU:HA	1.81	0.41
29:BF:197:ASP:OD2	29:BF:197:ASP:N	2.52	0.41
30:BG:115:ARG:H	30:BG:115:ARG:HG2	1.67	0.41
31:BH:115:VAL:HG11	31:BH:148:ILE:CG1	2.49	0.41
31:BH:149:ARG:O	31:BH:149:ARG:HG2	2.21	0.41
32:BK:77:LEU:CD1	32:BK:140:LEU:HB2	2.51	0.41
32:BK:84:GLY:N	32:BK:89:TYR:CE1	2.89	0.41
34:BN:34:THR:HG22	34:BN:37:ASP:OD2	2.20	0.41
35:BO:49:ARG:HD2	54:B8:58:ILE:CG2	2.51	0.41
35:BO:62:LEU:HD23	35:BO:62:LEU:O	2.21	0.41
36:BP:85:LYS:HG2	36:BP:86:GLY:H	1.86	0.41
38:BQ:111:GLU:OE1	38:BQ:111:GLU:CA	2.66	0.41
39:BR:13:ARG:H	39:BR:13:ARG:HG2	1.73	0.41
41:B2:53:GLU:O	41:B2:53:GLU:HG2	2.21	0.41
44:BU:27:VAL:O	44:BU:27:VAL:CG2	2.69	0.41
44:BU:52:SER:CB	44:BU:53:PRO:HD3	2.51	0.41
44:BU:81:LYS:HB3	44:BU:82:PRO:O	2.21	0.41
45:BV:104:PHE:CE1	45:BV:119:GLU:HA	2.55	0.41
46:B3:34:GLY:O	46:B3:35:ASN:C	2.64	0.41
52:B6:15:GLU:CD	52:B6:41:PRO:HB3	2.46	0.41
52:B6:26:ASN:ND2	52:B6:35:GLU:CD	2.79	0.41
53:B7:47:ARG:HB2	53:B7:48:LYS:H	1.64	0.41
54:B8:10:ALA:C	54:B8:12:LYS:N	2.75	0.41
54:B8:58:ILE:HA	54:B8:61:LEU:HG	2.03	0.41
1:CA:227:G:H2'	1:CA:228:A:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:265:G:H5'	17:CT:64:PRO:O	2.20	0.41
1:CA:345:C:O2	1:CA:346:G:N2	2.54	0.41
1:CA:373:A:H2'	1:CA:374:A:H8	1.86	0.41
1:CA:407:G:H2'	1:CA:408:A:H8	1.83	0.41
1:CA:464:G:C6	1:CA:466:C:H5'	2.56	0.41
1:CA:515:G:H2'	1:CA:516:U:O4'	2.21	0.41
1:CA:577:G:H2'	1:CA:578:C:C6	2.56	0.41
1:CA:859:A:H2'	1:CA:860:A:O4'	2.21	0.41
1:CA:864:A:C2	1:CA:917:G:N3	2.89	0.41
1:CA:932:C:N4	7:CJ:3:ARG:NH2	2.69	0.41
1:CA:962:C:H2'	1:CA:963:G:O4'	2.21	0.41
1:CA:992:U:C2'	1:CA:993:G:OP2	2.69	0.41
1:CA:1022:G:C6	1:CA:1023:G:C5	3.09	0.41
1:CA:1052:U:C5'	1:CA:1053:G:OP2	2.69	0.41
1:CA:1068:G:N7	1:CA:1094:G:N7	2.68	0.41
1:CA:1106:G:C4	1:CA:1107:C:C5	3.08	0.41
1:CA:1132:C:H2'	1:CA:1133:G:O4'	2.20	0.41
1:CA:1206:G:O6	1:CA:1207:G:C6	2.73	0.41
1:CA:1305:G:H5"	21:CX:4:GLY:C	2.46	0.41
1:CA:1349:A:C2'	1:CA:1350:A:O5'	2.69	0.41
1:CA:1378:C:C5	1:CA:1379:G:C4	3.02	0.41
1:CA:1379:G:C2'	1:CA:1380:U:H5'	2.51	0.41
1:CA:1413:A:C2	1:CA:1488:G:C2	3.09	0.41
1:CA:1417:G:C6	1:CA:1482:G:C6	3.09	0.41
1:CA:1423:G:H2'	1:CA:1424:C:C6	2.56	0.41
1:CA:1483:A:O5'	1:CA:1483:A:H8	2.02	0.41
2:CE:71:VAL:HB	2:CE:164:VAL:HG13	2.03	0.41
3:CF:52:LEU:HD23	3:CF:52:LEU:N	2.36	0.41
3:CF:195:VAL:C	3:CF:196:LEU:HD23	2.45	0.41
4:CG:79:PHE:CD2	4:CG:79:PHE:C	2.99	0.41
4:CG:111:ALA:HB2	4:CG:120:LEU:HD12	2.03	0.41
5:CH:70:PRO:HB3	5:CH:144:THR:CG2	2.46	0.41
5:CH:79:GLU:HB3	5:CH:92:LYS:HG3	2.02	0.41
7:CJ:60:LYS:HD2	7:CJ:60:LYS:HA	1.90	0.41
8:CK:33:GLU:OE1	8:CK:50:ARG:HD2	2.20	0.41
8:CK:95:VAL:HG22	8:CK:131:GLY:O	2.20	0.41
9:CL:11:LYS:HG2	9:CL:11:LYS:O	2.21	0.41
12:CO:35:GLY:HA3	12:CO:58:VAL:CG1	2.50	0.41
12:CO:60:LEU:CD2	12:CO:66:VAL:HG22	2.51	0.41
13:CP:73:GLU:OE2	50:D4:52:THR:HG21	2.21	0.41
16:CS:3:LYS:HG3	16:CS:24:ALA:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CT:82:MET:HB3	17:CT:82:MET:HE3	1.70	0.41
17:CT:86:GLU:O	17:CT:90:ILE:HG12	2.21	0.41
18:CU:84:LYS:HE2	18:CU:84:LYS:CA	2.50	0.41
19:CV:16:LEU:O	19:CV:20:LEU:HD23	2.21	0.41
22:CB:31:C:C4	22:CB:32:C:H5	2.39	0.41
23:CD:5:G:N2	23:CD:70:C:C2	2.89	0.41
23:CD:15:G:N3	23:CD:15:G:C2'	2.83	0.41
23:CD:29:C:H2'	23:CD:30:G:C8	2.55	0.41
24:C1:19:U:H2'	24:C1:20:U:H6	1.86	0.41
25:DA:5:A:C2	25:DA:2899:G:C2	3.09	0.41
25:DA:71:A:H5"	25:DA:73:A:C8	2.56	0.41
25:DA:309:G:O3'	44:DU:18:GLY:HA3	2.21	0.41
25:DA:773:U:H5'	27:DD:47:GLY:HA2	2.03	0.41
25:DA:775:G:C4	25:DA:794:G:C8	3.09	0.41
25:DA:857:C:C6	25:DA:858:U:H5	2.39	0.41
25:DA:868:U:N3	25:DA:869:G:N7	2.69	0.41
25:DA:986:C:H2'	25:DA:987:G:C5'	2.49	0.41
25:DA:1012:U:N3	33:DM:25:ARG:HD3	2.36	0.41
25:DA:1029:A:H8	25:DA:1029:A:O5'	2.03	0.41
25:DA:1113:U:H2'	25:DA:1114:G:C8	2.56	0.41
25:DA:1223:C:C2'	25:DA:1224:G:H5'	2.50	0.41
25:DA:1225:C:O2'	41:D2:85:LYS:HB2	2.21	0.41
25:DA:1599:C:C2	25:DA:1600:C:C5	3.09	0.41
25:DA:1651:G:OP1	37:D0:40:LYS:HE2	2.21	0.41
25:DA:1686:C:C2	25:DA:1703:G:N2	2.89	0.41
25:DA:1859:A:C2	25:DA:1884:A:H1'	2.56	0.41
25:DA:2093:G:O5'	32:DK:24:GLY:HA3	2.21	0.41
25:DA:2103:C:O2'	25:DA:2104:G:H5'	2.21	0.41
25:DA:2393:A:H2'	25:DA:2394:C:O4'	2.20	0.41
25:DA:2415:G:C4'	35:DO:66:GLY:HA3	2.48	0.41
25:DA:2517:C:N3	25:DA:2542:A:N6	2.69	0.41
25:DA:2525:G:N2	25:DA:2539:C:C2	2.89	0.41
25:DA:2593:U:C2	25:DA:2594:C:C5	3.09	0.41
25:DA:2698:U:H2'	25:DA:2699:C:H6	1.85	0.41
25:DA:2745:C:O2'	31:DH:142:GLY:HA3	2.21	0.41
25:DA:2819:G:H2'	25:DA:2821:A:N7	2.35	0.41
25:DA:2873:A:H2'	25:DA:2873:A:N3	2.36	0.41
26:DB:37:C:C5	26:DB:38:C:C5	3.09	0.41
26:DB:89(A):A:N7	26:DB:90:C:H1'	2.35	0.41
27:DD:9:TYR:HD2	27:DD:10:THR:HG23	1.86	0.41
27:DD:83:GLU:HB2	27:DD:92:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:29:ASN:HA	29:DF:30:PRO:HD3	1.90	0.41
29:DF:90:PHE:C	29:DF:91:GLY:O	2.64	0.41
30:DG:11:TYR:CE2	30:DG:16:ARG:HD2	2.56	0.41
30:DG:70:VAL:HA	30:DG:90:LEU:HD12	2.02	0.41
31:DH:20:ALA:O	31:DH:22:GLY:N	2.49	0.41
32:DK:97:ILE:CD1	32:DK:140:LEU:HD22	2.50	0.41
35:DO:101:VAL:HG12	35:DO:102:ARG:N	2.36	0.41
35:DO:125:VAL:HG13	35:DO:144:GLU:HB3	2.01	0.41
36:DP:7:MET:HB3	36:DP:10:ARG:NH1	2.36	0.41
36:DP:19:GLY:HA3	36:DP:98:LYS:HZ2	1.85	0.41
36:DP:42:ILE:HD12	36:DP:42:ILE:N	2.36	0.41
36:DP:68:ILE:HD13	36:DP:103:MET:CB	2.47	0.41
38:DQ:106:ARG:HA	38:DQ:110:LEU:CG	2.51	0.41
38:DQ:107:GLU:H	38:DQ:110:LEU:HG	1.86	0.41
39:DR:90:GLN:HA	39:DR:90:GLN:NE2	2.25	0.41
40:D1:24:TYR:O	40:D1:29:SER:HB3	2.20	0.41
43:DT:51:VAL:O	43:DT:51:VAL:HG12	2.20	0.41
44:DU:89:PHE:HD1	44:DU:90:LEU:CD2	2.34	0.41
45:DV:59:LEU:O	45:DV:60:GLU:CB	2.68	0.41
45:DV:117:LEU:HD13	45:DV:117:LEU:HA	1.78	0.41
46:D3:19:LYS:HG3	46:D3:41:ARG:HH12	1.86	0.41
51:D5:56:LYS:HD2	51:D5:56:LYS:HA	1.67	0.41
1:AA:198:G:C5	1:AA:220:G:C2	3.09	0.41
1:AA:373:A:N6	1:AA:391:G:C2	2.89	0.41
1:AA:859:A:H2'	1:AA:860:A:O4'	2.20	0.41
1:AA:1004:A:C4'	1:AA:1025:U:H3	2.33	0.41
1:AA:1157:A:N6	1:AA:1178:G:N2	2.68	0.41
1:AA:1223:C:H3'	1:AA:1224:G:H5"	2.02	0.41
2:AE:21:ARG:C	2:AE:23:ARG:N	2.72	0.41
2:AE:114:ARG:HE	2:AE:118:LEU:HD11	1.84	0.41
3:AF:84:ILE:O	3:AF:84:ILE:HG12	2.21	0.41
7:AJ:17:VAL:HB	7:AJ:44:TYR:CZ	2.56	0.41
12:AO:6:THR:OG1	12:AO:9:GLN:HG3	2.20	0.41
14:AQ:26:ARG:HD3	14:AQ:43:CYS:HB3	2.03	0.41
17:AT:78:GLU:HG2	17:AT:78:GLU:O	2.20	0.41
20:AW:58:LYS:O	20:AW:62:LEU:HD12	2.21	0.41
25:BA:304:G:C2	25:BA:314:A:N3	2.89	0.41
25:BA:529:A:C8	25:BA:530:G:O6	2.74	0.41
25:BA:649:G:C5	25:BA:650:C:C4	3.09	0.41
25:BA:654(B):C:H2'	25:BA:654(C):G:C8	2.56	0.41
25:BA:743:G:C2'	25:BA:744:G:H5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:809:G:H2'	25:BA:810:U:O5'	2.20	0.41
25:BA:856:C:O2'	25:BA:857:C:O5'	2.39	0.41
25:BA:1049:C:C4	25:BA:1050:A:C2	3.09	0.41
25:BA:1091:G:N2	25:BA:1101:U:H1'	2.36	0.41
25:BA:1102:C:H2'	25:BA:1103:A:C8	2.52	0.41
25:BA:1447:G:O2'	25:BA:1448:G:H5'	2.21	0.41
25:BA:1458:C:H4'	25:BA:1459:G:C5'	2.50	0.41
25:BA:2125:G:C2	25:BA:2172:U:OP1	2.73	0.41
25:BA:2301:C:C6	25:BA:2301:C:C3'	3.04	0.41
25:BA:2313:C:H2'	25:BA:2314:C:H6	1.85	0.41
25:BA:2472:G:C4	25:BA:2475:C:N4	2.89	0.41
25:BA:2473:U:H2'	25:BA:2473:U:O2	2.21	0.41
25:BA:2598:A:H2'	25:BA:2599:G:O5'	2.21	0.41
25:BA:2712:U:O2'	25:BA:2712(A):A:OP2	2.34	0.41
26:BB:31:C:O2'	26:BB:32:C:H5'	2.21	0.41
27:BD:94:LEU:C	27:BD:94:LEU:CD2	2.94	0.41
27:BD:101:GLU:HG3	27:BD:102:LYS:N	2.36	0.41
29:BF:9:ILE:CD1	29:BF:125:LEU:HG	2.38	0.41
31:BH:4:ILE:CG1	31:BH:6:ARG:CZ	2.93	0.41
31:BH:77:LYS:O	31:BH:77:LYS:HG2	2.21	0.41
31:BH:84:SER:O	31:BH:85:LYS:HB2	2.20	0.41
31:BH:167:GLU:HA	31:BH:168:PRO:HD3	1.72	0.41
32:BK:101:LEU:O	32:BK:102:SER:C	2.64	0.41
33:BM:23:LEU:HD12	33:BM:23:LEU:O	2.21	0.41
35:BO:19:VAL:HG23	35:BO:27:HIS:CG	2.55	0.41
37:B0:44:LEU:HD23	37:B0:44:LEU:HA	1.89	0.41
38:BQ:87:PHE:CE1	38:BQ:102:ALA:HB2	2.56	0.41
39:BR:37:GLY:O	39:BR:38:ASN:HB3	2.21	0.41
42:BS:88:ARG:HD3	42:BS:94:ASP:OD1	2.21	0.41
44:BU:30:VAL:HG22	44:BU:37:VAL:HG12	2.03	0.41
44:BU:59:GLY:C	44:BU:60:PHE:CD2	2.99	0.41
45:BV:52:SER:C	45:BV:53:ILE:HG23	2.46	0.41
45:BV:52:SER:O	45:BV:52:SER:OG	2.30	0.41
50:B4:43:TYR:O	50:B4:43:TYR:CG	2.73	0.41
50:B4:55:ARG:NH1	50:B4:56:VAL:HG23	2.35	0.41
1:CA:66:G:H4'	1:CA:173:U:C5	2.55	0.41
1:CA:345:C:O2'	1:CA:346:G:P	2.74	0.41
1:CA:359:U:H2'	1:CA:360:A:C8	2.56	0.41
1:CA:625:G:H4'	16:CS:16:HIS:CD2	2.56	0.41
1:CA:1091:U:C2	1:CA:1093:A:OP2	2.74	0.41
1:CA:1164:G:N1	1:CA:1173:G:C6	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1205:U:H1'	3:CF:195:VAL:HG23	2.03	0.41
1:CA:1272:G:H2'	1:CA:1273:G:O4'	2.21	0.41
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.84	0.41
4:CG:126:ILE:HG23	4:CG:147:ALA:O	2.21	0.41
6:CI:7:ASN:HB3	18:CU:76:LEU:HD21	2.03	0.41
8:CK:119:LEU:HD13	8:CK:123:GLU:O	2.21	0.41
9:CL:81:ILE:O	9:CL:81:ILE:HG22	2.22	0.41
10:CM:99:LYS:HD3	10:CM:100:THR:N	2.35	0.41
12:CO:47:LYS:O	12:CO:49:ASN:N	2.54	0.41
14:CQ:38:GLY:C	14:CQ:39:LEU:HD23	2.46	0.41
20:CW:72:LEU:HD11	20:CW:80:ARG:NH1	2.36	0.41
23:CC:38:A:O2'	23:CC:39:A:H5'	2.21	0.41
23:CD:31:G:C4	23:CD:32:G:C8	3.09	0.41
25:DA:61:G:C8	48:DW:47:ASN:HB3	2.56	0.41
25:DA:370:G:H4'	25:DA:371:A:OP2	2.21	0.41
25:DA:668:G:C2'	25:DA:669:G:OP1	2.68	0.41
25:DA:820:A:H2'	25:DA:821:A:O4'	2.20	0.41
25:DA:862:G:H2'	25:DA:863:A:O4'	2.21	0.41
25:DA:1438:U:O2'	25:DA:1439:A:H5'	2.21	0.41
25:DA:1488:G:C6	25:DA:1489:U:N3	2.89	0.41
25:DA:1831:G:H2'	25:DA:1832:C:C6	2.55	0.41
25:DA:2134:A:N3	25:DA:2134:A:H2'	2.36	0.41
25:DA:2364:C:H2'	25:DA:2365:G:C5'	2.51	0.41
25:DA:2526:G:C2	25:DA:2538:C:O2	2.74	0.41
25:DA:2529:G:H5"	25:DA:2530:A:H5"	2.03	0.41
26:DB:42:C:H4'	30:DG:67:LYS:CD	2.49	0.41
27:DD:28:GLU:CB	27:DD:29:PRO:CD	2.98	0.41
27:DD:172:TYR:CD1	27:DD:186:HIS:HA	2.56	0.41
28:DE:28:ALA:O	28:DE:93:VAL:HG22	2.21	0.41
28:DE:57:LYS:NZ	28:DE:72:VAL:HG13	2.35	0.41
29:DF:18:ARG:CG	29:DF:19:GLU:N	2.84	0.41
32:DK:11:ASN:O	32:DK:12:LEU:HD12	2.21	0.41
32:DK:110:ASP:OD2	32:DK:130:TYR:HE1	2.04	0.41
33:DM:38:HIS:CE1	33:DM:39:ARG:CG	3.04	0.41
35:DO:71:VAL:HG13	35:DO:72:PRO:CD	2.51	0.41
42:DS:40:ASN:O	42:DS:40:ASN:ND2	2.52	0.41
45:DV:24:LEU:HA	45:DV:25:PRO:HD3	1.93	0.41
1:AA:335:C:O2'	1:AA:1433:A:N3	2.45	0.40
1:AA:838:G:N2	1:AA:848:C:N3	2.55	0.40
1:AA:1053:G:C5	1:AA:1199:U:C5	3.09	0.40
1:AA:1251:A:H1'	1:AA:1369:C:O2'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1347:G:OP2	9:AL:107:ARG:HG2	2.21	0.40
1:AA:1443:G:H3'	1:AA:1446:A:C5'	2.51	0.40
4:AG:88:VAL:O	4:AG:88:VAL:HG12	2.21	0.40
4:AG:190:ASP:O	4:AG:191:ARG:C	2.63	0.40
5:AH:9:LYS:HE3	5:AH:9:LYS:HB2	1.88	0.40
16:AS:82:GLN:H	16:AS:82:GLN:HG2	1.62	0.40
18:AU:22:VAL:O	18:AU:22:VAL:HG13	2.22	0.40
19:AV:41:VAL:HG21	19:AV:67:VAL:HG22	2.01	0.40
22:AB:42:U:H5'	22:AB:43:A:P	2.60	0.40
23:AC:2:G:C4	23:AC:3:C:C5	3.09	0.40
23:AC:19:G:C2	23:AC:59:A:C5	3.09	0.40
25:BA:459:U:H2'	25:BA:460:A:C8	2.56	0.40
25:BA:464:U:H4'	53:B7:5:TRP:CZ3	2.56	0.40
25:BA:654:A:N3	25:BA:654:A:C2'	2.79	0.40
25:BA:747:U:P	51:B5:3:LYS:HG2	2.61	0.40
25:BA:776:G:H4'	25:BA:777:A:O5'	2.22	0.40
25:BA:814:C:C2'	25:BA:815:C:H5'	2.51	0.40
25:BA:816:C:O2'	25:BA:932:G:O6	2.39	0.40
25:BA:818:G:H5'	25:BA:839:U:OP1	2.21	0.40
25:BA:979:G:H3'	25:BA:980:A:H5"	2.03	0.40
25:BA:991:C:C2	25:BA:992:C:C5	3.09	0.40
25:BA:1084:A:C6	25:BA:1085:A:N6	2.89	0.40
25:BA:1532:C:H42	25:BA:1539:G:H1	1.68	0.40
25:BA:1831:G:H2'	25:BA:1832:C:C6	2.57	0.40
25:BA:2098:U:N3	25:BA:2099:U:C5	2.89	0.40
26:BB:99:A:C6	26:BB:100:G:C5	3.09	0.40
27:BD:25:THR:HG23	27:BD:26:LYS:HD2	2.02	0.40
29:BF:101:LEU:HD12	29:BF:102:PRO:CD	2.51	0.40
30:BG:80:PHE:C	30:BG:81:LYS:HG2	2.45	0.40
30:BG:111:LEU:O	30:BG:114:ILE:HG12	2.21	0.40
33:BM:114:ARG:O	33:BM:115:ARG:CB	2.69	0.40
35:BO:60:MET:HG3	35:BO:60:MET:O	2.21	0.40
44:BU:102:CYS:SG	44:BU:103:GLY:N	2.90	0.40
46:B3:31:VAL:HG11	46:B3:67:VAL:CG2	2.51	0.40
47:BZ:81:LYS:HA	47:BZ:81:LYS:HD2	1.89	0.40
48:BW:59:ARG:O	48:BW:63:VAL:HG23	2.21	0.40
1:CA:444:C:H2'	1:CA:445:G:C8	2.56	0.40
1:CA:559:A:H2'	1:CA:559:A:N3	2.36	0.40
1:CA:655:A:C2	1:CA:754:C:N4	2.90	0.40
1:CA:934:C:C4	1:CA:1345:U:C5	3.09	0.40
1:CA:1002:G:C2	1:CA:1003:G:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1126:U:C1'	1:CA:1127:G:P	3.08	0.40
1:CA:1348:U:H4'	9:CL:120:ARG:HG3	2.03	0.40
3:CF:123:GLN:HB3	3:CF:128:PHE:HB2	2.03	0.40
3:CF:154:SER:O	3:CF:196:LEU:HD13	2.21	0.40
3:CF:184:TYR:CD2	3:CF:184:TYR:C	2.99	0.40
3:CF:190:ARG:HD2	3:CF:190:ARG:N	2.35	0.40
4:CG:88:VAL:HG13	5:CH:97:GLY:CA	2.51	0.40
5:CH:43:LEU:HB2	5:CH:136:MET:SD	2.60	0.40
7:CJ:79:ARG:HA	7:CJ:83:ALA:O	2.21	0.40
8:CK:21:LYS:HG2	8:CK:23:SER:O	2.22	0.40
14:CQ:22:THR:OG1	14:CQ:33:VAL:CG1	2.68	0.40
14:CQ:36:PHE:CD1	14:CQ:36:PHE:C	2.99	0.40
17:CT:100:LYS:HA	17:CT:100:LYS:HD2	1.78	0.40
18:CU:71:LYS:O	18:CU:75:ILE:HG13	2.21	0.40
22:CB:15:A:OP2	22:CB:16:U:H5	2.03	0.40
23:CC:12:G:H1'	25:DA:1923:U:O2'	2.21	0.40
23:CD:54:G:C4	23:CD:55:U:C5	3.08	0.40
25:DA:84:A:OP2	44:DU:8:LYS:HD3	2.21	0.40
25:DA:213:A:H2'	25:DA:214:G:O4'	2.21	0.40
25:DA:611:C:C2'	25:DA:612:G:H5'	2.51	0.40
25:DA:616:A:C8	29:DF:176:LEU:HD11	2.56	0.40
25:DA:619:G:H5"	25:DA:620:G:OP2	2.21	0.40
25:DA:620:G:H8	25:DA:622:G:O6	2.03	0.40
25:DA:839:U:H1'	25:DA:1191:G:H1'	2.03	0.40
25:DA:1131:G:C2	25:DA:1132:A:C4	3.09	0.40
25:DA:1300:U:H4'	25:DA:1301:A:OP2	2.20	0.40
25:DA:1450:C:C2	25:DA:1451:C:C5	3.09	0.40
25:DA:1491:G:O2'	25:DA:1492:G:H5'	2.20	0.40
25:DA:1545(A):A:H2'	25:DA:1546:C:O5'	2.21	0.40
25:DA:1742:C:H5'	25:DA:1743:G:OP2	2.21	0.40
25:DA:1817:G:H2'	25:DA:1818:U:H5'	2.02	0.40
25:DA:1973:G:H2'	25:DA:1974:C:H6	1.87	0.40
25:DA:2016:U:H2'	25:DA:2017:U:H6	1.86	0.40
25:DA:2241:A:H2'	25:DA:2242:G:C8	2.56	0.40
25:DA:2262:U:O2'	25:DA:2263:C:H5'	2.21	0.40
25:DA:2335:A:O2'	25:DA:2336:A:O5'	2.35	0.40
25:DA:2401:U:O2	25:DA:2402:C:C5	2.73	0.40
25:DA:2581:G:H2'	25:DA:2581:G:N3	2.36	0.40
25:DA:2805:G:H2'	25:DA:2807:G:H8	1.85	0.40
28:DE:46:ALA:CB	28:DE:82:ARG:CB	2.76	0.40
28:DE:58:ARG:O	28:DE:60:ASN:OD1	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:105:THR:HA	28:DE:166:THR:HA	2.03	0.40
29:DF:116:ASP:OD1	29:DF:119:ARG:NH2	2.49	0.40
30:DG:52:ILE:HD13	30:DG:52:ILE:HA	1.79	0.40
30:DG:81:LYS:HD3	30:DG:81:LYS:HA	1.90	0.40
34:DN:98:VAL:HG13	34:DN:117:LEU:HB3	2.03	0.40
35:DO:62:LEU:HD23	35:DO:62:LEU:O	2.21	0.40
38:DQ:106:ARG:H	38:DQ:106:ARG:HG3	1.30	0.40
41:D2:62:LEU:HD22	41:D2:95:LEU:N	2.36	0.40
45:DV:30:ASN:C	45:DV:30:ASN:HD22	2.28	0.40
50:D4:8:LYS:HD2	50:D4:8:LYS:HA	1.72	0.40
1:AA:9:G:C2	1:AA:26:A:N1	2.89	0.40
1:AA:144:G:C5	1:AA:179:A:C2	3.09	0.40
1:AA:457:C:N3	1:AA:476:G:C2	2.89	0.40
1:AA:493:G:H8	1:AA:493:G:O5'	2.04	0.40
1:AA:723:U:C5'	1:AA:724:G:OP2	2.70	0.40
1:AA:872:A:C2	1:AA:874:G:C6	3.09	0.40
1:AA:943:U:H2'	1:AA:944:G:H5'	2.04	0.40
1:AA:1301:U:C2'	1:AA:1301:U:O2	2.69	0.40
1:AA:1510:U:H1'	1:AA:1526:G:N2	2.36	0.40
2:AE:102:LEU:HB3	2:AE:180:LEU:CD1	2.52	0.40
5:AH:151:LEU:HD11	8:AK:77:GLU:OE2	2.20	0.40
9:AL:5:TYR:CG	9:AL:6:GLY:N	2.89	0.40
11:AN:73:MET:HA	11:AN:77:MET:H	1.86	0.40
11:AN:85:ARG:HG3	11:AN:85:ARG:HH11	1.87	0.40
12:AO:89:ARG:CG	12:AO:89:ARG:NH1	2.82	0.40
14:AQ:2:ALA:HB1	14:AQ:6:LEU:HD12	2.02	0.40
15:AR:48:LYS:HD2	15:AR:48:LYS:HA	1.90	0.40
21:AX:25:LYS:O	21:AX:26:LYS:HB3	2.21	0.40
25:BA:11:G:C2'	25:BA:12:U:H5'	2.51	0.40
25:BA:117:G:C6	25:BA:119:A:C6	3.09	0.40
25:BA:284:U:H2'	25:BA:285:C:C6	2.56	0.40
25:BA:355:G:O2'	25:BA:356:G:H5'	2.21	0.40
25:BA:365:C:H2'	25:BA:366:C:O4'	2.21	0.40
25:BA:452:G:C4	25:BA:458:G:C6	3.09	0.40
25:BA:477:A:C6	25:BA:478:A:C6	3.09	0.40
25:BA:889:C:O2	25:BA:889:C:O5'	2.39	0.40
25:BA:893:C:C4	25:BA:894:C:N4	2.90	0.40
25:BA:1142(A):A:C5	25:BA:1144:G:C5	3.09	0.40
25:BA:1163:G:C2	25:BA:1164:G:C8	3.10	0.40
25:BA:1210:A:H5'	25:BA:1210:A:C8	2.43	0.40
25:BA:1364:G:N7	47:BZ:2:SER:HB3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1438:U:O2'	25:BA:1439:A:H5'	2.20	0.40
25:BA:2032:G:O2'	28:BE:145:LYS:HE3	2.22	0.40
25:BA:2124:G:C2'	25:BA:2125:G:H5'	2.51	0.40
25:BA:2199:A:OP2	25:BA:2205:C:H5	2.04	0.40
25:BA:2474:C:H3'	25:BA:2475:C:H6	1.85	0.40
25:BA:2768:C:C2	25:BA:2769:C:C6	3.09	0.40
26:BB:18:G:H1	26:BB:65:C:H42	1.70	0.40
27:BD:18:VAL:HG12	27:BD:19:ALA:N	2.37	0.40
28:BE:31:CYS:HB3	28:BE:49:LEU:HG	2.04	0.40
29:BF:24:LEU:HA	29:BF:25:PRO:HD2	1.89	0.40
29:BF:117:ARG:HD3	29:BF:117:ARG:HA	1.50	0.40
29:BF:165:ARG:HG3	29:BF:165:ARG:NH1	2.36	0.40
31:BH:137:ASP:O	31:BH:138:LYS:CB	2.68	0.40
32:BK:79:ILE:O	32:BK:142:VAL:HA	2.20	0.40
32:BK:133:HIS:HB2	32:BK:134:PRO:HD2	2.03	0.40
37:B0:75:LEU:HA	37:B0:78:LYS:HB3	2.03	0.40
38:BQ:20:ARG:HE	38:BQ:20:ARG:HB3	1.57	0.40
42:BS:57:ASN:HD22	42:BS:57:ASN:HA	1.57	0.40
43:BT:3:THR:O	43:BT:6:ASP:HB2	2.21	0.40
44:BU:6:HIS:ND1	44:BU:7:VAL:HG13	2.37	0.40
44:BU:86:ARG:HD2	44:BU:86:ARG:HA	1.87	0.40
47:BZ:21:ARG:HD3	47:BZ:35:THR:CG2	2.52	0.40
49:BX:32:GLN:HA	49:BX:32:GLN:NE2	2.36	0.40
49:BX:59:VAL:HG22	49:BX:60:GLU:N	2.37	0.40
50:B4:14:ILE:HG23	50:B4:15:ILE:N	2.36	0.40
1:CA:719:C:H42	18:CU:71:LYS:HE2	1.85	0.40
1:CA:852:G:C6	1:CA:853:G:N7	2.89	0.40
1:CA:966:G:O2'	9:CL:127:LYS:O	2.39	0.40
1:CA:1105:A:H2'	1:CA:1106:G:C8	2.56	0.40
1:CA:1190:G:OP1	3:CF:4:LYS:HA	2.22	0.40
1:CA:1227:A:C8	1:CA:1227:A:H3'	2.56	0.40
1:CA:1375:A:H4'	7:CJ:29:LYS:HZ2	1.86	0.40
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.56	0.40
2:CE:178:ARG:HA	2:CE:178:ARG:HD3	1.90	0.40
3:CF:79:ARG:H	3:CF:79:ARG:HG2	1.70	0.40
4:CG:13:ARG:O	4:CG:15:GLU:N	2.52	0.40
4:CG:190:ASP:O	4:CG:194:LEU:HD22	2.21	0.40
10:CM:24:VAL:HG12	10:CM:25:GLU:N	2.36	0.40
11:CN:33:THR:HG22	11:CN:39:PRO:HA	2.03	0.40
13:CP:22:ILE:HB	13:CP:25:ILE:HG13	2.02	0.40
13:CP:32:GLU:O	13:CP:35:GLU:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CV:14:HIS:HD2	19:CV:15:LEU:H	1.68	0.40
23:CD:24:C:H2'	23:CD:25:U:H6	1.85	0.40
25:DA:139:G:N3	25:DA:141:A:N1	2.69	0.40
25:DA:221:A:C4	25:DA:266:G:N7	2.89	0.40
25:DA:329:G:C4'	25:DA:330:A:OP2	2.69	0.40
25:DA:1059:G:O6	25:DA:1080:A:C6	2.75	0.40
25:DA:1321:A:H2'	25:DA:1322:A:O4'	2.22	0.40
25:DA:1669:A:O2'	25:DA:2549:G:OP1	2.39	0.40
25:DA:1908:C:O5'	25:DA:1908:C:H6	2.04	0.40
25:DA:2107:C:H2'	25:DA:2108:C:O4'	2.22	0.40
25:DA:2162:G:O2'	25:DA:2173:A:OP2	2.39	0.40
25:DA:2263:C:O2'	25:DA:2264:C:H5'	2.22	0.40
25:DA:2461:C:H2'	25:DA:2462:U:H6	1.84	0.40
25:DA:2751:G:C2	31:DH:2:SER:N	2.88	0.40
27:DD:35:LYS:HB3	27:DD:64:ILE:H	1.86	0.40
27:DD:143:HIS:O	27:DD:144:ALA:C	2.64	0.40
28:DE:60:ASN:HD22	28:DE:61:ARG:H	1.69	0.40
29:DF:140:LEU:HD22	29:DF:170:LEU:HD21	2.04	0.40
37:D0:84:ALA:N	37:D0:85:PRO:HD2	2.36	0.40
38:DQ:49:VAL:CG2	38:DQ:80:LEU:HD12	2.51	0.40
39:DR:113:LYS:HA	39:DR:113:LYS:HD2	1.78	0.40
42:DS:57:ASN:O	42:DS:61:ASN:HB2	2.22	0.40
45:DV:60:GLU:O	45:DV:61:LEU:O	2.39	0.40
48:DW:10:LEU:HD12	48:DW:10:LEU:HA	1.76	0.40
1:AA:15:G:H4'	5:AH:24:ARG:NH1	2.36	0.40
1:AA:109:A:C6	1:AA:326:G:C6	3.10	0.40
1:AA:260:G:H2'	1:AA:261:U:C6	2.57	0.40
1:AA:424:G:C2	1:AA:425:G:C8	3.09	0.40
1:AA:464:G:N2	1:AA:468:A:H62	2.20	0.40
1:AA:1190:G:OP2	3:AF:5:ILE:HG23	2.21	0.40
1:AA:1256:A:C2	1:AA:1277:C:C4	3.08	0.40
4:AG:25:ARG:CZ	4:AG:30:LYS:HG3	2.51	0.40
5:AH:96:PRO:HA	5:AH:117:ASP:OD1	2.22	0.40
5:AH:142:LEU:C	5:AH:143:ARG:HG2	2.45	0.40
7:AJ:59:LEU:HD23	7:AJ:59:LEU:C	2.46	0.40
8:AK:118:VAL:O	8:AK:119:LEU:HD23	2.21	0.40
9:AL:3:GLN:OE1	9:AL:20:ARG:NH1	2.54	0.40
10:AM:81:THR:O	10:AM:84:GLN:HB2	2.22	0.40
11:AN:12:ARG:HG2	11:AN:13:GLN:H	1.87	0.40
19:AV:13:ASP:O	19:AV:16:LEU:N	2.55	0.40
25:BA:270(Z):U:O3'	25:BA:271(A):C:H6	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:287:C:O2'	25:BA:288:C:H5'	2.21	0.40
25:BA:529:A:C8	25:BA:530:G:C6	3.07	0.40
25:BA:671:C:H2'	25:BA:672:C:C6	2.57	0.40
25:BA:779:U:OP1	27:BD:49:ILE:HG13	2.21	0.40
25:BA:868:U:C4	25:BA:869:G:N7	2.90	0.40
25:BA:1012:U:O4	33:BM:25:ARG:HA	2.21	0.40
25:BA:1077:A:N3	25:BA:1078:U:H5"	2.36	0.40
25:BA:1444:G:H5"	25:BA:1444(A):A:OP1	2.21	0.40
25:BA:1533:C:N4	25:BA:1538:G:H1	2.17	0.40
25:BA:1654:A:OP2	37:B0:2:ARG:HD3	2.21	0.40
25:BA:1728:G:C3'	25:BA:1729:A:H5"	2.44	0.40
25:BA:1894:C:O2'	25:BA:1895:C:H5'	2.21	0.40
25:BA:2246:G:H2'	25:BA:2247:A:C8	2.56	0.40
25:BA:2472:G:H22	25:BA:2477:C:H5"	1.86	0.40
25:BA:2572:A:H2'	28:BE:144:ARG:HG3	2.04	0.40
25:BA:2689:U:H5'	25:BA:2689:U:C6	2.56	0.40
25:BA:2729:G:H1'	28:BE:187:ALA:HB2	2.03	0.40
27:BD:35:LYS:HZ3	27:BD:104:TYR:CB	2.32	0.40
27:BD:43:ARG:HB2	27:BD:54:ARG:HB2	2.02	0.40
27:BD:131:LEU:HB2	27:BD:136:ILE:HD11	2.03	0.40
30:BG:125:PHE:CZ	30:BG:170:ARG:HA	2.56	0.40
31:BH:89:ILE:O	31:BH:89:ILE:CG1	2.66	0.40
32:BK:47:LEU:HD12	32:BK:47:LEU:O	2.21	0.40
33:BM:28:THR:HA	33:BM:106:MET:CE	2.51	0.40
38:BQ:35:ILE:C	38:BQ:36:TYR:CD1	2.88	0.40
48:BW:24:LEU:O	48:BW:28:LYS:HG2	2.22	0.40
50:B4:38:LYS:C	50:B4:40:HIS:H	2.28	0.40
52:B6:36:LEU:H	52:B6:36:LEU:HD23	1.86	0.40
1:CA:57:G:C5	1:CA:58:C:C5	3.09	0.40
1:CA:147:G:O2'	1:CA:148:G:H5'	2.22	0.40
1:CA:1176:A:N6	1:CA:1177:G:C5	2.86	0.40
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.22	0.40
1:CA:1449:C:H2'	1:CA:1450:U:OP1	2.21	0.40
4:CG:59:ARG:NH2	4:CG:66:ARG:NH1	2.69	0.40
4:CG:76:ARG:NH2	4:CG:80:GLU:OE1	2.50	0.40
5:CH:63:ARG:HA	5:CH:66:MET:HE2	2.03	0.40
7:CJ:149:ARG:O	7:CJ:150:ALA:C	2.63	0.40
9:CL:5:TYR:CD2	9:CL:17:VAL:O	2.74	0.40
15:CR:4:THR:OG1	15:CR:7:GLU:HB2	2.21	0.40
16:CS:3:LYS:N	16:CS:22:THR:O	2.47	0.40
23:CC:35:C:C2	23:CC:36:A:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CD:21:U:H3'	23:CD:22:A:C5'	2.52	0.40
23:CD:42:C:C5	23:CD:43:G:N7	2.90	0.40
25:DA:68:G:H2'	25:DA:69:C:C6	2.57	0.40
25:DA:309:G:O3'	44:DU:18:GLY:CA	2.69	0.40
25:DA:319:C:H2'	25:DA:320:A:O4'	2.22	0.40
25:DA:631:A:C6	25:DA:632:A:C2	3.09	0.40
25:DA:684:G:C2	25:DA:774:A:C2	3.10	0.40
25:DA:1476:C:O2'	25:DA:1477:A:H5'	2.22	0.40
25:DA:2115:G:H2'	25:DA:2116:G:C8	2.56	0.40
25:DA:2127:G:C2	25:DA:2173:A:C8	3.09	0.40
25:DA:2309:A:H2'	25:DA:2310:A:O4'	2.22	0.40
25:DA:2469:A:C8	25:DA:2482:G:C4	3.09	0.40
25:DA:2815:C:O2'	51:D5:43:HIS:CD2	2.75	0.40
26:DB:55:U:O2'	30:DG:29:TRP:HD1	2.03	0.40
30:DG:56:ALA:HA	30:DG:59:GLU:HB3	2.04	0.40
32:DK:133:HIS:CD2	32:DK:133:HIS:C	2.92	0.40
35:DO:30:THR:O	35:DO:31:ALA:HB3	2.21	0.40
36:DP:77:LYS:HD3	36:DP:81:VAL:HG21	2.04	0.40
39:DR:19:LEU:HD22	39:DR:86:ILE:CG2	2.50	0.40
44:DU:90:LEU:HD23	44:DU:90:LEU:N	2.35	0.40
45:DV:58:VAL:CG1	45:DV:60:GLU:HB3	2.52	0.40
47:DZ:50:ARG:HE	47:DZ:50:ARG:HB2	1.61	0.40
48:DW:68:ARG:HG3	48:DW:68:ARG:NH1	2.36	0.40
50:D4:14:ILE:HA	50:D4:30:GLU:HB3	2.04	0.40
51:D5:40:LYS:HE3	51:D5:40:LYS:HB2	1.90	0.40
1:AA:55:A:H2	32:DK:82:ARG:HG2	1.86	0.40
1:AA:56:U:H2'	1:AA:57:G:C8	2.56	0.40
1:AA:114:U:H2'	1:AA:115:G:C8	2.56	0.40
1:AA:217:C:HO2'	1:AA:466:C:N4	2.17	0.40
1:AA:578:C:C2'	1:AA:579:G:O5'	2.69	0.40
1:AA:812:C:H6	1:AA:812:C:H2'	1.63	0.40
1:AA:815:A:O2'	1:AA:1527:C:H1'	2.21	0.40
1:AA:816:A:OP1	1:AA:1526:G:O2'	2.29	0.40
1:AA:1004:A:C1'	1:AA:1036:G:N1	2.63	0.40
1:AA:1061:G:OP2	3:AF:2:GLY:O	2.40	0.40
1:AA:1305:G:OP2	1:AA:1305:G:C8	2.75	0.40
1:AA:1394:A:C5	1:AA:1501:C:H4'	2.56	0.40
2:AE:8:LYS:CD	2:AE:8:LYS:N	2.84	0.40
2:AE:206:ASP:O	2:AE:207:ALA:HB3	2.22	0.40
3:AF:181:ASN:HD21	3:AF:204:LEU:HB2	1.83	0.40
6:AI:97:PHE:CD2	18:AU:31:LEU:HD21	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AJ:29:LYS:HE2	7:AJ:29:LYS:HA	2.02	0.40
7:AJ:69:VAL:O	7:AJ:69:VAL:HG12	2.21	0.40
9:AL:111:ARG:O	9:AL:111:ARG:HG3	2.20	0.40
10:AM:30:SER:HG	10:AM:84:GLN:HE21	1.58	0.40
10:AM:100:THR:O	10:AM:101:VAL:HG23	2.22	0.40
11:AN:90:GLY:O	11:AN:91:ARG:C	2.63	0.40
12:AO:62:SER:C	12:AO:64:TYR:H	2.28	0.40
15:AR:82:ILE:O	15:AR:83:GLU:C	2.64	0.40
22:AB:18:G:H1'	22:AB:19:G:P	2.62	0.40
23:AC:25:U:H2'	23:AC:26:C:O4'	2.21	0.40
23:AD:75:C:H2'	23:AD:76:C:O4'	2.21	0.40
25:BA:269:U:C5	25:BA:270(Z):U:C6	3.09	0.40
25:BA:314:A:O2'	25:BA:315:G:H5'	2.21	0.40
25:BA:821:A:C5'	25:BA:822:U:H6	2.35	0.40
25:BA:1063:G:H22	25:BA:1076:C:H1'	1.86	0.40
25:BA:1085:A:N3	25:BA:1086:A:C5	2.89	0.40
25:BA:1581:G:C6	25:BA:1582:C:C4	3.10	0.40
25:BA:1642:G:O2'	25:BA:1643:G:H5'	2.20	0.40
25:BA:2364:C:C2'	25:BA:2365:G:H5'	2.51	0.40
25:BA:2370:G:C6	25:BA:2371:G:C6	3.09	0.40
25:BA:2591:C:OP2	27:BD:238:GLY:C	2.64	0.40
25:BA:2756:U:H1'	25:BA:2757:A:H5"	2.02	0.40
26:BB:40:U:C2'	26:BB:41:U:OP1	2.69	0.40
27:BD:26:LYS:CD	27:BD:26:LYS:H	2.35	0.40
28:BE:35:GLN:CB	28:BE:48:GLN:HB2	2.51	0.40
28:BE:51:PHE:CE1	28:BE:52:LEU:CD2	2.98	0.40
30:BG:73:ALA:CB	30:BG:82:LEU:HD11	2.51	0.40
30:BG:145:THR:HG22	50:B4:28:LYS:NZ	2.36	0.40
31:BH:50:VAL:O	31:BH:50:VAL:CG2	2.70	0.40
31:BH:62:LYS:HB2	31:BH:62:LYS:HE2	1.88	0.40
32:BK:81:VAL:HG21	32:BK:88:ILE:CD1	2.50	0.40
32:BK:94:ALA:HB2	32:BK:116:LEU:HB2	2.04	0.40
32:BK:101:LEU:HD22	32:BK:109:ILE:CG2	2.51	0.40
32:BK:104:GLN:O	32:BK:105:HIS:HB2	2.19	0.40
35:BO:64:LYS:CG	54:B8:25:MET:SD	3.09	0.40
38:BQ:106:ARG:O	38:BQ:107:GLU:HB3	2.21	0.40
39:BR:113:LYS:HD2	39:BR:113:LYS:HA	1.87	0.40
45:BV:111:VAL:HG21	45:BV:146:ILE:HG13	2.03	0.40
46:B3:31:VAL:HG23	46:B3:32:ARG:N	2.37	0.40
46:B3:75:LEU:HD23	46:B3:75:LEU:HA	1.90	0.40
1:CA:376:G:N3	1:CA:389:A:C2	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:410:G:C2	1:CA:429:U:C2	3.09	0.40
1:CA:468:A:C8	1:CA:474:G:C8	3.09	0.40
1:CA:474:G:C2	1:CA:475:G:C4	3.10	0.40
1:CA:879:C:H5	12:CO:6:THR:HG21	1.87	0.40
1:CA:977:A:H8	1:CA:982:U:O4	2.05	0.40
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.57	0.40
1:CA:1278:U:H5"	1:CA:1279:A:O4'	2.21	0.40
1:CA:1305:G:N2	1:CA:1331:G:O2'	2.54	0.40
1:CA:1436:U:H2'	1:CA:1437:C:C6	2.57	0.40
1:CA:1446:A:C6	39:DR:118:ARG:NH1	2.90	0.40
2:CE:6:THR:O	2:CE:7:VAL:HB	2.21	0.40
2:CE:55:PHE:HD1	2:CE:55:PHE:HA	1.76	0.40
3:CF:120:VAL:HG12	3:CF:121:ALA:N	2.36	0.40
4:CG:31:CYS:O	4:CG:32:ALA:CB	2.66	0.40
4:CG:50:ARG:HA	4:CG:51:PRO:HD3	1.80	0.40
4:CG:108:LEU:HD13	4:CG:174:LEU:HD13	2.03	0.40
4:CG:132:ARG:HG3	4:CG:133:VAL:N	2.36	0.40
12:CO:60:LEU:C	12:CO:62:SER:N	2.78	0.40
19:CV:11:VAL:CG2	19:CV:16:LEU:HD11	2.51	0.40
22:CB:2:C:H2'	22:CB:3:C:O4'	2.21	0.40
22:CB:37:G:H2'	22:CB:38:G:H8	1.85	0.40
22:CB:44:G:C6	22:CB:45:U:N3	2.89	0.40
23:CC:62:C:N3	23:CC:63:C:C5	2.90	0.40
23:CD:15:G:C2	23:CD:49:C:O2	2.73	0.40
24:C1:16:A:H2'	24:C1:17:U:O4'	2.21	0.40
25:DA:270(T):G:C6	25:DA:270(U):C:C4	3.09	0.40
25:DA:751:A:C6	25:DA:789:A:C5	3.09	0.40
25:DA:809:G:O4'	25:DA:1254:A:H1'	2.21	0.40
25:DA:993:G:C5	25:DA:994:C:C5	3.10	0.40
25:DA:1000:A:N1	25:DA:1155:A:C4	2.89	0.40
25:DA:1087:G:H2'	25:DA:1089:G:O4'	2.21	0.40
25:DA:1105:U:O2'	25:DA:1106:G:H5'	2.21	0.40
25:DA:1131:G:O6	25:DA:2040:C:H1'	2.22	0.40
25:DA:1508:A:H4'	25:DA:1510:A:C2	2.57	0.40
25:DA:1945:G:C4	25:DA:1946:U:C5	3.10	0.40
25:DA:1967:C:H2'	25:DA:1968:G:O5'	2.22	0.40
25:DA:2050:C:H1'	28:DE:156:MET:HE2	2.03	0.40
25:DA:2070:G:C2	25:DA:2442:C:C2	3.09	0.40
25:DA:2489:G:O2'	25:DA:2490:G:H5'	2.20	0.40
26:DB:9:G:C2	26:DB:112:G:C4	3.10	0.40
26:DB:43:C:C4'	30:DG:66:GLN:NE2	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:33:LEU:O	27:DD:34:VAL:C	2.63	0.40
27:DD:96:HIS:ND1	27:DD:102:LYS:HD3	2.37	0.40
28:DE:70:ALA:O	28:DE:72:VAL:HG23	2.21	0.40
30:DG:94:LEU:HD23	30:DG:94:LEU:H	1.87	0.40
31:DH:68:THR:HG22	31:DH:72:ILE:HD11	2.02	0.40
37:D0:101:ALA:HB1	51:D5:41:PRO:HG3	2.03	0.40
37:D0:104:ARG:HB2	37:D0:107:ASP:OD2	2.20	0.40
45:DV:23:LYS:HE2	45:DV:40:ASP:OD2	2.22	0.40
45:DV:155:LEU:HA	45:DV:155:LEU:HD23	1.76	0.40
50:D4:58:ARG:HH21	50:D4:58:ARG:HG3	1.87	0.40
53:D7:42:LEU:HD23	53:D7:42:LEU:HA	1.84	0.40
54:D8:29:LYS:HB2	54:D8:44:LYS:HB3	2.03	0.40
54:D8:30:ARG:O	54:D8:31:HIS:CB	2.70	0.40
1:AA:687:A:H2'	1:AA:701:C:N4	2.37	0.40
1:AA:1372:U:C2'	1:AA:1373:G:O5'	2.70	0.40
1:AA:1405:G:H2'	1:AA:1406:U:O5'	2.22	0.40
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.56	0.40
2:AE:111:ARG:HH11	2:AE:111:ARG:HA	1.86	0.40
3:AF:58:GLU:O	3:AF:59:ARG:HG3	2.21	0.40
3:AF:108:ASN:HB3	3:AF:111:LEU:HB2	2.04	0.40
4:AG:3:ARG:H	4:AG:3:ARG:HG3	1.58	0.40
4:AG:144:ASP:O	4:AG:184:LYS:HA	2.22	0.40
4:AG:146:ILE:N	4:AG:146:ILE:CD1	2.84	0.40
7:AJ:31:MET:CE	7:AJ:36:LYS:HZ2	2.35	0.40
7:AJ:56:GLN:HG2	7:AJ:56:GLN:H	1.65	0.40
9:AL:80:GLY:C	9:AL:82:ALA:N	2.79	0.40
10:AM:50:ILE:HD13	10:AM:60:ARG:HD3	2.03	0.40
23:AD:6:G:O2'	23:AD:7:G:H5'	2.22	0.40
25:BA:608:A:C4	25:BA:621:A:C6	3.10	0.40
25:BA:988:A:O5'	25:BA:988:A:H8	2.04	0.40
25:BA:988:A:O4'	25:BA:1155:A:H2	2.03	0.40
25:BA:1018:C:O2	25:BA:1018:C:H2'	2.21	0.40
25:BA:1043:C:C2'	25:BA:1044:G:H5'	2.51	0.40
25:BA:1534:G:O2'	25:BA:1535:U:H4'	2.22	0.40
25:BA:1558:A:O2'	25:BA:1559:G:OP2	2.40	0.40
25:BA:1726:G:H2'	25:BA:1727:U:O4'	2.21	0.40
25:BA:1758:G:H4'	25:BA:1759:A:OP2	2.20	0.40
25:BA:2213:U:H6	25:BA:2213:U:O5'	2.04	0.40
25:BA:2298:A:N6	25:BA:2318:G:H1'	2.37	0.40
25:BA:2335:A:C8	25:BA:2337:G:C6	3.10	0.40
25:BA:2559:C:H2'	25:BA:2560:C:H6	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2734:A:C5'	25:BA:2734:A:C8	3.02	0.40
25:BA:2841:C:C2	25:BA:2877:G:N2	2.90	0.40
25:BA:2855:C:H2'	25:BA:2856:C:C6	2.55	0.40
27:BD:161:THR:O	27:BD:162:SER:HB3	2.22	0.40
27:BD:181:GLU:HB2	27:BD:273:ARG:HB2	2.02	0.40
29:BF:63:LYS:HE2	29:BF:67:GLN:HB2	2.04	0.40
31:BH:152:ARG:HH21	31:BH:153:LYS:HE2	1.85	0.40
33:BM:17:ASP:O	33:BM:18:ALA:HB3	2.22	0.40
33:BM:114:ARG:O	33:BM:116:LEU:N	2.55	0.40
35:BO:91:PHE:HZ	35:BO:103:ALA:CB	2.33	0.40
36:BP:29:PHE:HB3	36:BP:65:PHE:CE1	2.57	0.40
38:BQ:38:GLN:CG	38:BQ:47:THR:HG21	2.51	0.40
38:BQ:83:LYS:C	38:BQ:83:LYS:HE2	2.46	0.40
38:BQ:99:LYS:O	38:BQ:103:GLU:HG3	2.21	0.40
39:BR:111:ARG:O	39:BR:112:ARG:CG	2.69	0.40
40:B1:50:ARG:HG2	40:B1:53:ARG:HH22	1.86	0.40
40:B1:79:PHE:CE2	40:B1:83:LEU:CD2	3.01	0.40
42:BS:9:TYR:N	42:BS:102:HIS:CD2	2.80	0.40
43:BT:92:LEU:HD23	43:BT:92:LEU:HA	1.84	0.40
52:B6:11:LEU:CD2	52:B6:26:ASN:HB3	2.52	0.40
52:B6:11:LEU:HD23	52:B6:26:ASN:HB3	2.04	0.40
53:B7:8:ASN:ND2	53:B7:11:LYS:HB3	2.36	0.40
54:B8:36:LYS:HD3	54:B8:40:GLU:OE2	2.21	0.40
1:CA:355:C:O2'	1:CA:388:G:N3	2.37	0.40
1:CA:810:C:C2'	1:CA:811:C:H5'	2.51	0.40
1:CA:836:G:C6	1:CA:851:G:C6	3.10	0.40
1:CA:949:A:C2	1:CA:1233:G:N3	2.89	0.40
1:CA:1007:C:C4	1:CA:1008:C:C5	3.10	0.40
1:CA:1045:C:H2'	1:CA:1046:A:C4'	2.52	0.40
1:CA:1116:C:O2'	9:CL:108:VAL:HG11	2.22	0.40
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.57	0.40
1:CA:1320:C:C2	19:CV:72:GLY:HA3	2.56	0.40
1:CA:1399:C:H4'	1:CA:1400:C:O5'	2.21	0.40
2:CE:85:ALA:CB	2:CE:92:TYR:HD1	2.32	0.40
2:CE:169:LYS:HD3	2:CE:169:LYS:O	2.21	0.40
3:CF:47:LEU:HD13	3:CF:47:LEU:O	2.21	0.40
4:CG:60:GLU:OE2	4:CG:199:ASN:N	2.53	0.40
5:CH:151:LEU:HD11	8:CK:77:GLU:OE2	2.20	0.40
11:CN:58:PRO:HG3	11:CN:89:ALA:O	2.20	0.40
12:CO:32:PHE:HD1	12:CO:86:ARG:HA	1.87	0.40
19:CV:40:ILE:HG22	19:CV:67:VAL:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CD:37:U:C5	23:CD:38:A:N7	2.90	0.40
25:DA:2:G:H1	25:DA:2901:C:N4	2.12	0.40
25:DA:506:G:H5"	25:DA:509:C:H1'	2.04	0.40
25:DA:637:A:OP1	35:DO:133:SER:HB3	2.21	0.40
25:DA:686:G:H1	53:D7:16:HIS:CD2	2.37	0.40
25:DA:826:U:H2'	25:DA:828:U:O4'	2.22	0.40
25:DA:835:A:OP1	54:D8:52:LYS:HG3	2.21	0.40
25:DA:910:A:N3	25:DA:2264:C:O2'	2.49	0.40
25:DA:959:A:N1	25:DA:960:A:C2	2.89	0.40
25:DA:1150:C:H2'	25:DA:1151:G:O4'	2.21	0.40
25:DA:1299:G:H5"	25:DA:1300:U:H5"	2.02	0.40
25:DA:1359:A:N7	25:DA:1372:U:O4	2.55	0.40
25:DA:1889:A:H2'	25:DA:1890:A:O4'	2.22	0.40
25:DA:1902:C:OP1	27:DD:242:ARG:HD3	2.21	0.40
25:DA:1903:G:OP1	27:DD:241:PRO:HB2	2.21	0.40
25:DA:2103:C:H2'	25:DA:2104:G:H8	1.83	0.40
25:DA:2271:G:H2'	25:DA:2272:U:H6	1.87	0.40
25:DA:2695:C:H2'	25:DA:2696:U:H6	1.85	0.40
25:DA:2712:U:H1'	25:DA:2712(A):A:C8	2.57	0.40
25:DA:2817:G:P	37:D0:99:LYS:HZ3	2.44	0.40
27:DD:44:ASN:HB3	27:DD:49:ILE:CA	2.29	0.40
28:DE:30:PRO:HB2	28:DE:90:THR:HG23	2.04	0.40
35:DO:102:ARG:HH21	35:DO:102:ARG:HG3	1.87	0.40
35:DO:128:HIS:CE1	35:DO:148:LEU:HD21	2.57	0.40
36:DP:54:MET:HG2	36:DP:117:ALA:HB1	2.03	0.40
38:DQ:62:LYS:HB3	38:DQ:97:ARG:CD	2.49	0.40
39:DR:92:GLY:HA2	39:DR:116:ALA:CA	2.49	0.40
40:D1:92:ARG:HG3	40:D1:94:ASN:N	2.31	0.40
42:DS:37:ARG:HG2	42:DS:38:TYR:CE2	2.57	0.40
45:DV:6:LYS:H	45:DV:6:LYS:HG3	1.65	0.40
45:DV:131:ARG:H	45:DV:131:ARG:CD	2.35	0.40
46:D3:56:ASP:CG	46:D3:58:THR:HG1	2.29	0.40

All (3) 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)
1:AA:85:U:O2'	31:DH:100:GLY:O[3_555]	1.90	0.30
1:CA:86:U:O2'	25:DA:276:A:OP2[3_545]	2.02	0.18
6:AI:15:ASP:OD2	4:CG:27:TYR:OH[4_555]	2.17	0.03

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	AE	235/256 (92%)	190 (81%)	45 (19%)	0	100 100
2	CE	235/256 (92%)	190 (81%)	41 (17%)	4 (2%)	7 32
3	AF	203/239 (85%)	179 (88%)	24 (12%)	0	100 100
3	CF	204/239 (85%)	179 (88%)	23 (11%)	2 (1%)	12 45
4	AG	206/208 (99%)	179 (87%)	24 (12%)	3 (2%)	8 35
4	CG	206/208 (99%)	179 (87%)	25 (12%)	2 (1%)	12 45
5	AH	149/162 (92%)	137 (92%)	10 (7%)	2 (1%)	9 38
5	CH	149/162 (92%)	139 (93%)	10 (7%)	0	100 100
6	AI	99/101 (98%)	92 (93%)	7 (7%)	0	100 100
6	CI	99/101 (98%)	94 (95%)	5 (5%)	0	100 100
7	AJ	153/156 (98%)	142 (93%)	11 (7%)	0	100 100
7	CJ	153/156 (98%)	143 (94%)	10 (6%)	0	100 100
8	AK	136/138 (99%)	123 (90%)	12 (9%)	1 (1%)	18 53
8	CK	136/138 (99%)	123 (90%)	13 (10%)	0	100 100
9	AL	125/128 (98%)	110 (88%)	15 (12%)	0	100 100
9	CL	125/128 (98%)	114 (91%)	11 (9%)	0	100 100
10	AM	97/105 (92%)	86 (89%)	11 (11%)	0	100 100
10	CM	97/105 (92%)	84 (87%)	9 (9%)	4 (4%)	2 13
11	AN	117/129 (91%)	102 (87%)	14 (12%)	1 (1%)	14 48
11	CN	117/129 (91%)	104 (89%)	13 (11%)	0	100 100
12	AO	123/132 (93%)	105 (85%)	16 (13%)	2 (2%)	7 34
12	CO	123/132 (93%)	105 (85%)	15 (12%)	3 (2%)	4 24
13	AP	114/126 (90%)	89 (78%)	23 (20%)	2 (2%)	6 31
13	CP	115/126 (91%)	96 (84%)	17 (15%)	2 (2%)	7 32
14	AQ	58/61 (95%)	49 (84%)	9 (16%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
14	CQ	58/61 (95%)	49 (84%)	8 (14%)	1 (2%)	7 32
15	AR	86/89 (97%)	74 (86%)	11 (13%)	1 (1%)	10 40
15	CR	86/89 (97%)	76 (88%)	10 (12%)	0	100 100
16	AS	82/88 (93%)	71 (87%)	8 (10%)	3 (4%)	2 15
16	CS	82/88 (93%)	75 (92%)	7 (8%)	0	100 100
17	AT	98/105 (93%)	91 (93%)	7 (7%)	0	100 100
17	CT	98/105 (93%)	91 (93%)	7 (7%)	0	100 100
18	AU	70/88 (80%)	64 (91%)	5 (7%)	1 (1%)	9 36
18	CU	70/88 (80%)	61 (87%)	9 (13%)	0	100 100
19	AV	76/93 (82%)	68 (90%)	6 (8%)	2 (3%)	4 23
19	CV	76/93 (82%)	60 (79%)	12 (16%)	4 (5%)	1 9
20	AW	97/106 (92%)	84 (87%)	13 (13%)	0	100 100
20	CW	97/106 (92%)	80 (82%)	16 (16%)	1 (1%)	12 45
21	AX	23/27 (85%)	22 (96%)	1 (4%)	0	100 100
21	CX	23/27 (85%)	21 (91%)	2 (9%)	0	100 100
27	BD	270/276 (98%)	243 (90%)	22 (8%)	5 (2%)	6 30
27	DD	270/276 (98%)	248 (92%)	15 (6%)	7 (3%)	4 23
28	BE	203/206 (98%)	149 (73%)	30 (15%)	24 (12%)	0 1
28	DE	203/206 (98%)	144 (71%)	41 (20%)	18 (9%)	0 3
29	BF	200/210 (95%)	179 (90%)	21 (10%)	0	100 100
29	DF	206/210 (98%)	168 (82%)	30 (15%)	8 (4%)	2 14
30	BG	179/182 (98%)	154 (86%)	20 (11%)	5 (3%)	4 21
30	DG	179/182 (98%)	150 (84%)	28 (16%)	1 (1%)	21 56
31	BH	168/180 (93%)	133 (79%)	28 (17%)	7 (4%)	2 13
31	DH	168/180 (93%)	125 (74%)	35 (21%)	8 (5%)	2 11
32	BK	144/148 (97%)	102 (71%)	32 (22%)	10 (7%)	1 5
32	DK	144/148 (97%)	113 (78%)	28 (19%)	3 (2%)	5 27
33	BM	136/140 (97%)	113 (83%)	16 (12%)	7 (5%)	1 10
33	DM	136/140 (97%)	119 (88%)	15 (11%)	2 (2%)	8 35
34	BN	120/122 (98%)	111 (92%)	9 (8%)	0	100 100
34	DN	120/122 (98%)	113 (94%)	6 (5%)	1 (1%)	16 50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
35	BO	148/150 (99%)	107 (72%)	27 (18%)	14 (10%)	0 2
35	DO	148/150 (99%)	102 (69%)	24 (16%)	22 (15%)	0 0
36	BP	139/141 (99%)	109 (78%)	27 (19%)	3 (2%)	5 26
36	DP	139/141 (99%)	93 (67%)	30 (22%)	16 (12%)	0 1
37	B0	116/118 (98%)	101 (87%)	13 (11%)	2 (2%)	7 32
37	D0	115/118 (98%)	109 (95%)	6 (5%)	0	100 100
38	BQ	109/112 (97%)	86 (79%)	20 (18%)	3 (3%)	4 21
38	DQ	109/112 (97%)	87 (80%)	19 (17%)	3 (3%)	4 21
39	BR	135/146 (92%)	114 (84%)	21 (16%)	0	100 100
39	DR	135/146 (92%)	119 (88%)	14 (10%)	2 (2%)	8 35
40	B1	115/118 (98%)	103 (90%)	11 (10%)	1 (1%)	14 48
40	D1	115/118 (98%)	101 (88%)	14 (12%)	0	100 100
41	B2	99/101 (98%)	92 (93%)	5 (5%)	2 (2%)	6 28
41	D2	99/101 (98%)	78 (79%)	14 (14%)	7 (7%)	1 4
42	BS	111/113 (98%)	97 (87%)	10 (9%)	4 (4%)	2 16
42	DS	111/113 (98%)	103 (93%)	8 (7%)	0	100 100
43	BT	90/96 (94%)	84 (93%)	4 (4%)	2 (2%)	5 26
43	DT	90/96 (94%)	78 (87%)	10 (11%)	2 (2%)	5 26
44	BU	100/110 (91%)	80 (80%)	15 (15%)	5 (5%)	1 10
44	DU	100/110 (91%)	70 (70%)	24 (24%)	6 (6%)	1 7
45	BV	173/206 (84%)	129 (75%)	37 (21%)	7 (4%)	2 14
45	DV	177/206 (86%)	132 (75%)	35 (20%)	10 (6%)	1 8
46	B3	74/85 (87%)	67 (90%)	5 (7%)	2 (3%)	4 22
46	D3	75/85 (88%)	69 (92%)	6 (8%)	0	100 100
47	BZ	95/98 (97%)	85 (90%)	7 (7%)	3 (3%)	3 18
47	DZ	95/98 (97%)	84 (88%)	10 (10%)	1 (1%)	11 43
48	BW	64/72 (89%)	58 (91%)	4 (6%)	2 (3%)	3 19
48	DW	67/72 (93%)	60 (90%)	6 (9%)	1 (2%)	8 35
49	BX	57/60 (95%)	52 (91%)	5 (9%)	0	100 100
49	DX	57/60 (95%)	53 (93%)	4 (7%)	0	100 100
50	B4	64/71 (90%)	41 (64%)	21 (33%)	2 (3%)	3 19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
50	D4	61/71 (86%)	32 (52%)	28 (46%)	1 (2%)	7 34
51	B5	57/60 (95%)	49 (86%)	7 (12%)	1 (2%)	6 31
51	D5	56/60 (93%)	48 (86%)	7 (12%)	1 (2%)	6 31
52	B6	43/54 (80%)	27 (63%)	14 (33%)	2 (5%)	2 11
52	D6	43/54 (80%)	29 (67%)	10 (23%)	4 (9%)	0 2
53	B7	47/49 (96%)	44 (94%)	3 (6%)	0	100 100
53	D7	47/49 (96%)	45 (96%)	2 (4%)	0	100 100
54	B8	59/65 (91%)	47 (80%)	7 (12%)	5 (8%)	0 3
54	D8	59/65 (91%)	40 (68%)	12 (20%)	7 (12%)	0 1
All	All	11335/12052 (94%)	9588 (85%)	1457 (13%)	290 (3%)	4 23

All (290) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	AG	13	ARG
4	AG	14	ARG
11	AN	82	VAL
16	AS	17	TYR
18	AU	22	VAL
27	BD	237	GLU
27	BD	271	ILE
28	BE	15	PHE
28	BE	48	GLN
28	BE	49	LEU
28	BE	54	GLN
28	BE	75	VAL
28	BE	83	ASP
30	BG	78	SER
30	BG	79	ASN
31	BH	165	ALA
31	BH	168	PRO
32	BK	15	VAL
32	BK	105	HIS
33	BM	22	THR
33	BM	46	VAL
33	BM	47	ALA
35	BO	10	PRO
35	BO	16	ARG
35	BO	56	SER

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Mol	Chain	Res	Type
35	BO	57	THR
35	BO	58	THR
42	BS	92	ARG
42	BS	95	ILE
43	BT	68	ARG
45	BV	165	VAL
45	BV	171	ILE
50	B4	50	VAL
51	B5	4	HIS
52	B6	45	LYS
54	B8	32	LEU
3	CF	64	VAL
4	CG	14	ARG
10	CM	58	ASP
19	CV	31	ILE
27	DD	237	GLU
28	DE	9	VAL
28	DE	25	VAL
28	DE	37	ARG
28	DE	45	THR
28	DE	51	PHE
28	DE	54	GLN
28	DE	80	GLU
28	DE	81	ILE
29	DF	68	LYS
29	DF	89	VAL
31	DH	151	ILE
31	DH	153	LYS
31	DH	155	SER
33	DM	46	VAL
35	DO	10	PRO
35	DO	16	ARG
35	DO	21	ARG
35	DO	35	HIS
35	DO	36	LYS
35	DO	46	LYS
35	DO	56	SER
35	DO	57	THR
35	DO	58	THR
36	DP	25	ASP
36	DP	60	ARG
36	DP	63	LYS

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Mol	Chain	Res	Type
36	DP	67	ARG
36	DP	89	ASN
38	DQ	87	PHE
38	DQ	88	ASP
39	DR	55	ASN
41	D2	71	LEU
41	D2	79	VAL
41	D2	83	ARG
41	D2	84	LYS
45	DV	53	ILE
45	DV	146	ILE
45	DV	171	ILE
50	D4	5	ILE
51	D5	4	HIS
52	D6	44	ARG
52	D6	48	VAL
52	D6	49	HIS
54	D8	32	LEU
54	D8	35	GLN
54	D8	51	ALA
8	AK	86	ILE
13	AP	113	PRO
13	AP	116	THR
16	AS	15	PRO
27	BD	28	GLU
28	BE	37	ARG
28	BE	47	VAL
28	BE	57	LYS
28	BE	58	ARG
28	BE	78	LEU
28	BE	81	ILE
28	BE	82	ARG
30	BG	82	LEU
32	BK	100	ALA
32	BK	106	GLY
32	BK	144	VAL
33	BM	9	VAL
33	BM	97	ARG
35	BO	12	ALA
35	BO	65	ARG
35	BO	66	GLY
35	BO	67	MET

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Mol	Chain	Res	Type
36	BP	66	ILE
38	BQ	89	ARG
40	B1	93	LYS
43	BT	67	GLY
45	BV	53	ILE
48	BW	16	LEU
50	B4	5	ILE
52	B6	46	HIS
54	B8	34	TRP
54	B8	35	GLN
54	B8	37	SER
2	CE	7	VAL
2	CE	74	LYS
10	CM	57	LYS
12	CO	26	ALA
19	CV	9	VAL
19	CV	67	VAL
19	CV	68	GLY
28	DE	34	VAL
28	DE	131	ALA
29	DF	87	GLY
29	DF	91	GLY
31	DH	169	VAL
32	DK	143	SER
32	DK	144	VAL
35	DO	11	GLY
35	DO	12	ALA
35	DO	38	GLN
35	DO	50	ARG
35	DO	65	ARG
35	DO	66	GLY
35	DO	67	MET
36	DP	7	MET
36	DP	19	GLY
36	DP	27	VAL
36	DP	28	ALA
36	DP	29	PHE
36	DP	66	ILE
36	DP	79	LEU
36	DP	88	GLY
38	DQ	89	ARG
39	DR	57	PHE

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Mol	Chain	Res	Type
41	D2	45	THR
44	DU	77	PRO
45	DV	142	SER
45	DV	145	GLU
45	DV	165	VAL
54	D8	48	PHE
54	D8	49	VAL
12	AO	18	VAL
12	AO	48	PRO
28	BE	17	ASP
28	BE	42	ASP
28	BE	52	LEU
28	BE	79	ARG
31	BH	84	SER
31	BH	154	PRO
32	BK	11	ASN
32	BK	101	LEU
32	BK	145	VAL
35	BO	6	LEU
38	BQ	86	ALA
41	B2	45	THR
42	BS	94	ASP
44	BU	39	VAL
45	BV	7	ALA
45	BV	141	VAL
46	B3	83	PRO
46	B3	84	LEU
47	BZ	82	LEU
47	BZ	92	LYS
54	B8	11	LYS
2	CE	153	ARG
28	DE	53	PRO
28	DE	82	ARG
29	DF	84	VAL
35	DO	6	LEU
41	D2	85	LYS
45	DV	116	VAL
52	D6	45	LYS
54	D8	50	LEU
16	AS	16	HIS
28	BE	4	ILE
28	BE	14	ILE

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Mol	Chain	Res	Type
28	BE	39	PRO
28	BE	53	PRO
31	BH	83	TYR
32	BK	39	ALA
38	BQ	85	VAL
44	BU	42	VAL
44	BU	49	VAL
44	BU	77	PRO
10	CM	32	ALA
14	CQ	14	PRO
20	CW	95	ALA
27	DD	26	LYS
27	DD	28	GLU
29	DF	92	PRO
31	DH	152	ARG
31	DH	154	PRO
41	D2	49	THR
44	DU	49	VAL
45	DV	161	VAL
4	AG	156	GLU
15	AR	87	ILE
27	BD	240	ALA
33	BM	128	HIS
35	BO	7	ARG
35	BO	11	GLY
35	BO	62	LEU
47	BZ	88	LYS
4	CG	151	LYS
10	CM	86	MET
12	CO	79	GLU
27	DD	29	PRO
27	DD	239	ARG
28	DE	26	ILE
28	DE	52	LEU
28	DE	83	ASP
29	DF	128	ALA
29	DF	132	VAL
33	DM	128	HIS
34	DN	48	PRO
35	DO	23	PRO
35	DO	48	PRO
35	DO	62	LEU

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Mol	Chain	Res	Type
36	DP	21	THR
36	DP	90	VAL
28	BE	62	PRO
28	BE	118	LYS
30	BG	81	LYS
33	BM	115	ARG
37	B0	11	ASN
37	B0	71	GLN
48	BW	15	LYS
27	DD	240	ALA
28	DE	61	ARG
30	DG	5	VAL
43	DT	68	ARG
44	DU	85	VAL
19	AV	9	VAL
19	AV	41	VAL
28	BE	72	VAL
30	BG	5	VAL
32	BK	133	HIS
35	BO	95	VAL
12	CO	47	LYS
28	DE	134	ILE
43	DT	51	VAL
48	DW	17	SER
44	BU	3	VAL
45	BV	161	VAL
2	CE	39	ILE
3	CF	66	VAL
27	DD	3	VAL
28	DE	62	PRO
35	DO	34	GLY
44	DU	42	VAL
54	D8	53	PRO
5	AH	70	PRO
5	AH	115	VAL
31	BH	167	GLU
45	BV	166	SER
13	CP	117	VAL
31	DH	49	VAL
31	DH	167	GLU
32	DK	145	VAL
35	DO	7	ARG

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Mol	Chain	Res	Type
36	DP	61	GLY
45	DV	141	VAL
47	DZ	30	VAL
36	BP	27	VAL
41	B2	49	THR
44	DU	3	VAL
27	BD	35	LYS
31	BH	10	PRO
36	BP	90	VAL
42	BS	59	VAL
13	CP	84	ILE
44	DU	96	ILE
45	DV	61	LEU

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	AE	205/220 (93%)	149 (73%)	56 (27%)	0 2
2	CE	205/220 (93%)	148 (72%)	57 (28%)	0 2
3	AF	159/188 (85%)	123 (77%)	36 (23%)	1 5
3	CF	160/188 (85%)	120 (75%)	40 (25%)	0 3
4	AG	180/180 (100%)	144 (80%)	36 (20%)	1 7
4	CG	180/180 (100%)	136 (76%)	44 (24%)	1 4
5	AH	116/123 (94%)	82 (71%)	34 (29%)	0 2
5	CH	116/123 (94%)	83 (72%)	33 (28%)	0 2
6	AI	90/90 (100%)	76 (84%)	14 (16%)	2 13
6	CI	90/90 (100%)	72 (80%)	18 (20%)	1 7
7	AJ	126/127 (99%)	101 (80%)	25 (20%)	1 8
7	CJ	126/127 (99%)	84 (67%)	42 (33%)	0 1
8	AK	119/119 (100%)	93 (78%)	26 (22%)	1 6
8	CK	119/119 (100%)	95 (80%)	24 (20%)	1 7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
9	AL	98/99 (99%)	68 (69%)	30 (31%)	0 1
9	CL	98/99 (99%)	72 (74%)	26 (26%)	0 3
10	AM	89/92 (97%)	63 (71%)	26 (29%)	0 2
10	CM	89/92 (97%)	53 (60%)	36 (40%)	0 0
11	AN	90/99 (91%)	73 (81%)	17 (19%)	1 9
11	CN	90/99 (91%)	67 (74%)	23 (26%)	0 3
12	AO	104/109 (95%)	83 (80%)	21 (20%)	1 7
12	CO	104/109 (95%)	77 (74%)	27 (26%)	0 3
13	AP	94/101 (93%)	70 (74%)	24 (26%)	0 3
13	CP	94/101 (93%)	72 (77%)	22 (23%)	1 4
14	AQ	49/50 (98%)	33 (67%)	16 (33%)	0 1
14	CQ	49/50 (98%)	39 (80%)	10 (20%)	1 7
15	AR	79/80 (99%)	67 (85%)	12 (15%)	3 14
15	CR	79/80 (99%)	65 (82%)	14 (18%)	2 10
16	AS	72/74 (97%)	51 (71%)	21 (29%)	0 2
16	CS	72/74 (97%)	61 (85%)	11 (15%)	3 14
17	AT	95/97 (98%)	81 (85%)	14 (15%)	3 15
17	CT	95/97 (98%)	83 (87%)	12 (13%)	4 20
18	AU	63/77 (82%)	48 (76%)	15 (24%)	1 4
18	CU	63/77 (82%)	46 (73%)	17 (27%)	0 2
19	AV	67/80 (84%)	45 (67%)	22 (33%)	0 1
19	CV	67/80 (84%)	52 (78%)	15 (22%)	1 5
20	AW	76/82 (93%)	55 (72%)	21 (28%)	0 2
20	CW	76/82 (93%)	53 (70%)	23 (30%)	0 1
21	AX	20/22 (91%)	17 (85%)	3 (15%)	3 14
21	CX	20/22 (91%)	19 (95%)	1 (5%)	22 56
27	BD	214/218 (98%)	168 (78%)	46 (22%)	1 6
27	DD	214/218 (98%)	163 (76%)	51 (24%)	1 4
28	BE	165/166 (99%)	111 (67%)	54 (33%)	0 1
28	DE	165/166 (99%)	117 (71%)	48 (29%)	0 2
29	BF	161/166 (97%)	120 (74%)	41 (26%)	0 3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
29	DF	165/166 (99%)	120 (73%)	45 (27%)	0	2
30	BG	155/156 (99%)	112 (72%)	43 (28%)	0	2
30	DG	155/156 (99%)	113 (73%)	42 (27%)	0	2
31	BH	142/148 (96%)	98 (69%)	44 (31%)	0	1
31	DH	142/148 (96%)	104 (73%)	38 (27%)	0	2
32	BK	122/124 (98%)	84 (69%)	38 (31%)	0	1
32	DK	122/124 (98%)	79 (65%)	43 (35%)	0	1
33	BM	117/119 (98%)	81 (69%)	36 (31%)	0	1
33	DM	117/119 (98%)	93 (80%)	24 (20%)	1	7
34	BN	100/100 (100%)	81 (81%)	19 (19%)	1	8
34	DN	100/100 (100%)	71 (71%)	29 (29%)	0	2
35	BO	116/116 (100%)	72 (62%)	44 (38%)	0	1
35	DO	116/116 (100%)	72 (62%)	44 (38%)	0	1
36	BP	111/111 (100%)	85 (77%)	26 (23%)	1	4
36	DP	111/111 (100%)	82 (74%)	29 (26%)	0	3
37	B0	101/101 (100%)	75 (74%)	26 (26%)	0	3
37	D0	100/101 (99%)	79 (79%)	21 (21%)	1	6
38	BQ	87/88 (99%)	59 (68%)	28 (32%)	0	1
38	DQ	87/88 (99%)	53 (61%)	34 (39%)	0	1
39	BR	120/127 (94%)	82 (68%)	38 (32%)	0	1
39	DR	120/127 (94%)	77 (64%)	43 (36%)	0	1
40	B1	93/94 (99%)	75 (81%)	18 (19%)	1	8
40	D1	93/94 (99%)	77 (83%)	16 (17%)	2	11
41	B2	82/82 (100%)	58 (71%)	24 (29%)	0	2
41	D2	82/82 (100%)	53 (65%)	29 (35%)	0	1
42	BS	92/92 (100%)	64 (70%)	28 (30%)	0	1
42	DS	92/92 (100%)	68 (74%)	24 (26%)	0	3
43	BT	74/78 (95%)	58 (78%)	16 (22%)	1	6
43	DT	74/78 (95%)	58 (78%)	16 (22%)	1	6
44	BU	85/91 (93%)	61 (72%)	24 (28%)	0	2
44	DU	85/91 (93%)	49 (58%)	36 (42%)	0	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
45	BV	154/179 (86%)	115 (75%)	39 (25%)	0 3
45	DV	158/179 (88%)	119 (75%)	39 (25%)	1 4
46	B3	61/67 (91%)	50 (82%)	11 (18%)	2 10
46	D3	62/67 (92%)	44 (71%)	18 (29%)	0 2
47	BZ	82/83 (99%)	61 (74%)	21 (26%)	0 3
47	DZ	82/83 (99%)	62 (76%)	20 (24%)	1 4
48	BW	62/67 (92%)	42 (68%)	20 (32%)	0 1
48	DW	64/67 (96%)	49 (77%)	15 (23%)	1 4
49	BX	51/52 (98%)	42 (82%)	9 (18%)	2 10
49	DX	51/52 (98%)	41 (80%)	10 (20%)	1 8
50	B4	59/63 (94%)	39 (66%)	20 (34%)	0 1
50	D4	57/63 (90%)	37 (65%)	20 (35%)	0 1
51	B5	51/52 (98%)	35 (69%)	16 (31%)	0 1
51	D5	51/52 (98%)	36 (71%)	15 (29%)	0 2
52	B6	44/52 (85%)	26 (59%)	18 (41%)	0 0
52	D6	44/52 (85%)	26 (59%)	18 (41%)	0 0
53	B7	42/42 (100%)	32 (76%)	10 (24%)	1 4
53	D7	42/42 (100%)	31 (74%)	11 (26%)	0 3
54	B8	51/55 (93%)	38 (74%)	13 (26%)	0 3
54	D8	51/55 (93%)	37 (72%)	14 (28%)	0 2
All	All	9579/9996 (96%)	7053 (74%)	2526 (26%)	0 3

All (2526) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AE	4	GLU
2	AE	8	LYS
2	AE	9	GLU
2	AE	11	LEU
2	AE	12	GLU
2	AE	15	VAL
2	AE	16	HIS
2	AE	17	PHE
2	AE	20	GLU
2	AE	21	ARG

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Mol	Chain	Res	Type
2	AE	22	LYS
2	AE	32	ILE
2	AE	39	ILE
2	AE	45	GLN
2	AE	51	LEU
2	AE	64	ARG
2	AE	67	THR
2	AE	68	ILE
2	AE	71	VAL
2	AE	75	LYS
2	AE	78	GLN
2	AE	81	VAL
2	AE	82	ARG
2	AE	90	MET
2	AE	93	VAL
2	AE	96	ARG
2	AE	107	THR
2	AE	111	ARG
2	AE	112	VAL
2	AE	119	GLU
2	AE	121	LEU
2	AE	127	ILE
2	AE	145	LEU
2	AE	154	LEU
2	AE	156	LYS
2	AE	164	VAL
2	AE	168	THR
2	AE	169	LYS
2	AE	172	ILE
2	AE	174	VAL
2	AE	176	GLU
2	AE	178	ARG
2	AE	185	ILE
2	AE	187	LEU
2	AE	190	THR
2	AE	196	LEU
2	AE	197	VAL
2	AE	200	ILE
2	AE	208	ILE
2	AE	211	ILE
2	AE	214	ILE
2	AE	215	LEU

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Mol	Chain	Res	Type
2	AE	222	ILE
2	AE	223	ILE
2	AE	229	VAL
2	AE	240	GLN
3	AF	3	ASN
3	AF	5	ILE
3	AF	12	LEU
3	AF	14	ILE
3	AF	15	THR
3	AF	20	SER
3	AF	21	ARG
3	AF	26	LYS
3	AF	27	LYS
3	AF	32	LEU
3	AF	36	ASP
3	AF	45	LYS
3	AF	47	LEU
3	AF	49	SER
3	AF	63	ASN
3	AF	64	VAL
3	AF	69	HIS
3	AF	79	ARG
3	AF	103	VAL
3	AF	104	GLN
3	AF	111	LEU
3	AF	120	VAL
3	AF	125	GLU
3	AF	126	ARG
3	AF	128	PHE
3	AF	132	ARG
3	AF	138	VAL
3	AF	152	ILE
3	AF	154	SER
3	AF	165	THR
3	AF	167	TRP
3	AF	188	LEU
3	AF	192	THR
3	AF	196	LEU
3	AF	202	ILE
3	AF	206	GLU
4	AG	3	ARG
4	AG	10	ARG

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Mol	Chain	Res	Type
4	AG	11	LEU
4	AG	12	CYS
4	AG	13	ARG
4	AG	14	ARG
4	AG	15	GLU
4	AG	19	LEU
4	AG	26	CYS
4	AG	30	LYS
4	AG	33	MET
4	AG	35	ARG
4	AG	52	SER
4	AG	58	LEU
4	AG	65	ARG
4	AG	84	LYS
4	AG	86	LYS
4	AG	92	VAL
4	AG	96	LEU
4	AG	110	PHE
4	AG	114	ARG
4	AG	122	ARG
4	AG	127	THR
4	AG	134	ASP
4	AG	135	LEU
4	AG	139	ARG
4	AG	154	ASN
4	AG	155	LEU
4	AG	181	MET
4	AG	188	LEU
4	AG	190	ASP
4	AG	192	GLU
4	AG	193	ASP
4	AG	194	LEU
4	AG	200	GLU
4	AG	201	GLN
5	AH	5	ASP
5	AH	10	MET
5	AH	11	ILE
5	AH	12	LEU
5	AH	13	ILE
5	AH	16	THR
5	AH	19	MET
5	AH	31	LEU

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Mol	Chain	Res	Type
5	AH	33	VAL
5	AH	41	VAL
5	AH	43	LEU
5	AH	51	VAL
5	AH	53	LEU
5	AH	56	GLN
5	AH	57	LYS
5	AH	64	ARG
5	AH	66	MET
5	AH	72	GLN
5	AH	73	ASN
5	AH	79	GLU
5	AH	81	GLU
5	AH	83	GLU
5	AH	87	SER
5	AH	89	ILE
5	AH	90	VAL
5	AH	91	LEU
5	AH	98	THR
5	AH	116	THR
5	AH	121	LYS
5	AH	126	ARG
5	AH	131	ILE
5	AH	147	ASP
5	AH	153	LYS
5	AH	155	GLU
6	AI	19	LEU
6	AI	21	LEU
6	AI	23	LYS
6	AI	24	GLU
6	AI	25	ILE
6	AI	40	VAL
6	AI	43	LEU
6	AI	55	ASP
6	AI	64	GLN
6	AI	71	ARG
6	AI	75	LEU
6	AI	91	VAL
6	AI	92	LYS
6	AI	98	LEU
7	AJ	8	GLU
7	AJ	12	LEU

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Mol	Chain	Res	Type
7	AJ	24	THR
7	AJ	27	ILE
7	AJ	33	ASP
7	AJ	35	LYS
7	AJ	36	LYS
7	AJ	38	LEU
7	AJ	49	ILE
7	AJ	56	GLN
7	AJ	63	LYS
7	AJ	78	ARG
7	AJ	80	VAL
7	AJ	89	MET
7	AJ	90	GLU
7	AJ	92	SER
7	AJ	104	LEU
7	AJ	111	ARG
7	AJ	113	GLU
7	AJ	120	ILE
7	AJ	124	LEU
7	AJ	135	VAL
7	AJ	137	LYS
7	AJ	141	VAL
7	AJ	155	ARG
8	AK	1	MET
8	AK	3	THR
8	AK	10	LEU
8	AK	19	VAL
8	AK	26	VAL
8	AK	37	ARG
8	AK	54	ASP
8	AK	63	LEU
8	AK	64	LYS
8	AK	68	ARG
8	AK	69	ARG
8	AK	75	ARG
8	AK	77	GLU
8	AK	80	ILE
8	AK	91	ARG
8	AK	95	VAL
8	AK	98	LYS
8	AK	105	ARG
8	AK	107	LEU

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Mol	Chain	Res	Type
8	AK	112	LEU
8	AK	115	SER
8	AK	116	LYS
8	AK	123	GLU
8	AK	125	ARG
8	AK	126	LYS
8	AK	137	VAL
9	AL	2	GLU
9	AL	7	THR
9	AL	9	ARG
9	AL	10	ARG
9	AL	14	VAL
9	AL	20	ARG
9	AL	23	ASN
9	AL	25	LYS
9	AL	26	VAL
9	AL	35	GLU
9	AL	38	GLN
9	AL	40	LEU
9	AL	42	ARG
9	AL	47	LEU
9	AL	64	THR
9	AL	65	VAL
9	AL	70	LYS
9	AL	75	ASP
9	AL	78	LYS
9	AL	79	LEU
9	AL	85	LEU
9	AL	89	ASN
9	AL	93	ARG
9	AL	95	LYS
9	AL	99	LEU
9	AL	102	LEU
9	AL	109	VAL
9	AL	111	ARG
9	AL	114	TYR
9	AL	124	GLN
10	AM	6	ILE
10	AM	16	LEU
10	AM	22	LYS
10	AM	24	VAL
10	AM	25	GLU

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Mol	Chain	Res	Type
10	AM	29	ARG
10	AM	33	GLN
10	AM	34	VAL
10	AM	35	SER
10	AM	42	THR
10	AM	44	VAL
10	AM	46	ARG
10	AM	48	THR
10	AM	49	VAL
10	AM	55	LYS
10	AM	62	HIS
10	AM	70	ARG
10	AM	74	ILE
10	AM	78	ASN
10	AM	80	LYS
10	AM	85	LEU
10	AM	86	MET
10	AM	92	THR
10	AM	96	ILE
10	AM	100	THR
10	AM	101	VAL
11	AN	18	ARG
11	AN	28	THR
11	AN	29	ILE
11	AN	30	VAL
11	AN	40	ILE
11	AN	41	THR
11	AN	48	ILE
11	AN	54	ARG
11	AN	63	LEU
11	AN	81	ASP
11	AN	84	VAL
11	AN	91	ARG
11	AN	104	GLN
11	AN	108	ILE
11	AN	109	VAL
11	AN	114	VAL
11	AN	124	LYS
12	AO	7	ILE
12	AO	20	LYS
12	AO	21	LYS
12	AO	33	ARG

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Mol	Chain	Res	Type
12	AO	59	ARG
12	AO	60	LEU
12	AO	65	GLU
12	AO	78	GLN
12	AO	81	SER
12	AO	83	VAL
12	AO	85	ILE
12	AO	89	ARG
12	AO	91	LYS
12	AO	96	VAL
12	AO	100	ILE
12	AO	102	ARG
12	AO	118	SER
12	AO	119	LYS
12	AO	123	LYS
12	AO	124	LYS
12	AO	127	GLU
13	AP	11	ARG
13	AP	13	LYS
13	AP	15	VAL
13	AP	17	VAL
13	AP	20	THR
13	AP	22	ILE
13	AP	34	LEU
13	AP	39	ILE
13	AP	45	VAL
13	AP	47	ASP
13	AP	50	GLU
13	AP	54	VAL
13	AP	56	LEU
13	AP	64	TRP
13	AP	69	GLU
13	AP	70	LEU
13	AP	78	ILE
13	AP	88	ARG
13	AP	101	GLN
13	AP	105	THR
13	AP	108	ARG
13	AP	114	ARG
13	AP	116	THR
13	AP	117	VAL
14	AQ	3	ARG

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Mol	Chain	Res	Type
14	AQ	7	ILE
14	AQ	9	LYS
14	AQ	13	THR
14	AQ	18	VAL
14	AQ	23	ARG
14	AQ	24	CYS
14	AQ	27	CYS
14	AQ	32	SER
14	AQ	33	VAL
14	AQ	35	ARG
14	AQ	41	ARG
14	AQ	43	CYS
14	AQ	44	LEU
14	AQ	46	GLU
14	AQ	57	ARG
15	AR	25	THR
15	AR	26	GLU
15	AR	31	LEU
15	AR	39	LEU
15	AR	41	GLU
15	AR	47	LYS
15	AR	65	ARG
15	AR	66	LEU
15	AR	71	GLN
15	AR	82	ILE
15	AR	87	ILE
15	AR	88	ARG
16	AS	2	VAL
16	AS	4	ILE
16	AS	6	LEU
16	AS	11	SER
16	AS	16	HIS
16	AS	18	ARG
16	AS	19	ILE
16	AS	20	VAL
16	AS	21	VAL
16	AS	22	THR
16	AS	25	ARG
16	AS	28	ARG
16	AS	53	VAL
16	AS	55	ARG
16	AS	58	TYR

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Mol	Chain	Res	Type
16	AS	67	THR
16	AS	69	THR
16	AS	71	ARG
16	AS	72	ARG
16	AS	75	ARG
16	AS	82	GLN
17	AT	9	VAL
17	AT	17	LYS
17	AT	35	VAL
17	AT	38	ARG
17	AT	52	LYS
17	AT	57	VAL
17	AT	60	ILE
17	AT	62	SER
17	AT	68	ARG
17	AT	74	LEU
17	AT	84	LEU
17	AT	89	LEU
17	AT	96	GLU
17	AT	101	ARG
18	AU	18	ARG
18	AU	22	VAL
18	AU	26	LEU
18	AU	31	LEU
18	AU	32	ARG
18	AU	36	ASN
18	AU	42	ARG
18	AU	46	GLU
18	AU	61	LYS
18	AU	65	ILE
18	AU	68	LYS
18	AU	76	LEU
18	AU	82	THR
18	AU	86	VAL
18	AU	88	LYS
19	AV	7	LYS
19	AV	10	PHE
19	AV	15	LEU
19	AV	22	LEU
19	AV	25	LYS
19	AV	28	LYS
19	AV	30	LEU

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Mol	Chain	Res	Type
19	AV	31	ILE
19	AV	35	SER
19	AV	37	ARG
19	AV	40	ILE
19	AV	43	GLU
19	AV	48	THR
19	AV	58	VAL
19	AV	60	VAL
19	AV	61	TYR
19	AV	65	ASN
19	AV	66	MET
19	AV	71	LEU
19	AV	77	THR
19	AV	81	ARG
19	AV	83	HIS
20	AW	8	ARG
20	AW	9	ASN
20	AW	13	LEU
20	AW	14	LYS
20	AW	17	ARG
20	AW	18	GLN
20	AW	24	LEU
20	AW	26	ASN
20	AW	29	LYS
20	AW	36	LEU
20	AW	39	LYS
20	AW	41	ILE
20	AW	50	GLU
20	AW	55	ILE
20	AW	70	SER
20	AW	72	LEU
20	AW	73	HIS
20	AW	75	ASN
20	AW	84	LEU
20	AW	88	VAL
20	AW	93	GLU
21	AX	15	ARG
21	AX	25	LYS
21	AX	26	LYS
27	BD	3	VAL
27	BD	17	THR
27	BD	18	VAL

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Mol	Chain	Res	Type
27	BD	26	LYS
27	BD	28	GLU
27	BD	32	SER
27	BD	38	LYS
27	BD	43	ARG
27	BD	44	ASN
27	BD	60	ARG
27	BD	61	LEU
27	BD	64	ILE
27	BD	65	ILE
27	BD	89	SER
27	BD	91	ARG
27	BD	94	LEU
27	BD	99	ASP
27	BD	103	ARG
27	BD	105	ILE
27	BD	111	LEU
27	BD	112	GLN
27	BD	113	VAL
27	BD	115	GLN
27	BD	116	GLN
27	BD	117	VAL
27	BD	126	GLN
27	BD	127	VAL
27	BD	136	ILE
27	BD	141	VAL
27	BD	142	VAL
27	BD	155	LEU
27	BD	164	GLN
27	BD	166	GLN
27	BD	171	ASP
27	BD	173	VAL
27	BD	174	ILE
27	BD	192	THR
27	BD	193	VAL
27	BD	217	ARG
27	BD	221	VAL
27	BD	229	VAL
27	BD	242	ARG
27	BD	257	LEU
27	BD	259	THR
27	BD	270	ILE

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Mol	Chain	Res	Type
27	BD	271	ILE
28	BE	2	LYS
28	BE	7	VAL
28	BE	13	ARG
28	BE	16	ARG
28	BE	19	ARG
28	BE	25	VAL
28	BE	26	ILE
28	BE	27	LEU
28	BE	33	VAL
28	BE	34	VAL
28	BE	40	GLU
28	BE	41	LYS
28	BE	42	ASP
28	BE	45	THR
28	BE	47	VAL
28	BE	48	GLN
28	BE	49	LEU
28	BE	52	LEU
28	BE	54	GLN
28	BE	57	LYS
28	BE	59	VAL
28	BE	60	ASN
28	BE	63	LEU
28	BE	66	HIS
28	BE	69	LYS
28	BE	81	ILE
28	BE	87	GLU
28	BE	89	ASP
28	BE	93	VAL
28	BE	95	ILE
28	BE	101	ARG
28	BE	107	THR
28	BE	116	VAL
28	BE	118	LYS
28	BE	119	ARG
28	BE	143	ASN
28	BE	144	ARG
28	BE	145	LYS
28	BE	146	THR
28	BE	154	LYS
28	BE	163	GLU

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Mol	Chain	Res	Type
28	BE	167	VAL
28	BE	170	LEU
28	BE	171	GLU
28	BE	175	VAL
28	BE	179	GLU
28	BE	181	LEU
28	BE	182	LEU
28	BE	183	LEU
28	BE	185	LYS
28	BE	188	VAL
28	BE	197	ILE
28	BE	202	LYS
28	BE	203	LYS
29	BF	7	TYR
29	BF	8	GLN
29	BF	9	ILE
29	BF	15	SER
29	BF	19	GLU
29	BF	27	GLU
29	BF	32	LEU
29	BF	33	LEU
29	BF	35	GLU
29	BF	38	ARG
29	BF	45	ARG
29	BF	46	ARG
29	BF	48	THR
29	BF	57	VAL
29	BF	64	ILE
29	BF	67	GLN
29	BF	70	THR
29	BF	82	ILE
29	BF	88	VAL
29	BF	106	ARG
29	BF	108	LYS
29	BF	117	ARG
29	BF	120	GLU
29	BF	127	GLU
29	BF	132	VAL
29	BF	136	THR
29	BF	158	THR
29	BF	161	GLU
29	BF	165	ARG

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Mol	Chain	Res	Type
29	BF	168	ARG
29	BF	170	LEU
29	BF	174	VAL
29	BF	181	LEU
29	BF	183	VAL
29	BF	191	ARG
29	BF	192	LEU
29	BF	196	LEU
29	BF	197	ASP
29	BF	200	GLU
29	BF	203	GLN
29	BF	206	ILE
30	BG	7	LEU
30	BG	10	LYS
30	BG	13	GLU
30	BG	16	ARG
30	BG	20	ILE
30	BG	28	VAL
30	BG	31	VAL
30	BG	41	GLN
30	BG	43	LEU
30	BG	45	GLU
30	BG	51	ARG
30	BG	52	ILE
30	BG	58	GLN
30	BG	60	LEU
30	BG	62	LEU
30	BG	63	ILE
30	BG	64	THR
30	BG	67	LYS
30	BG	70	VAL
30	BG	71	THR
30	BG	72	ARG
30	BG	75	LYS
30	BG	77	ILE
30	BG	81	LYS
30	BG	82	LEU
30	BG	83	ARG
30	BG	84	LYS
30	BG	90	LEU
30	BG	93	THR
30	BG	94	LEU

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Mol	Chain	Res	Type
30	BG	96	ARG
30	BG	101	ILE
30	BG	104	GLU
30	BG	115	ARG
30	BG	118	ARG
30	BG	121	ASN
30	BG	128	ARG
30	BG	130	ASN
30	BG	133	LEU
30	BG	159	VAL
30	BG	165	THR
30	BG	167	GLU
30	BG	175	LEU
31	BH	4	ILE
31	BH	7	LEU
31	BH	9	ILE
31	BH	13	LYS
31	BH	24	VAL
31	BH	37	VAL
31	BH	41	MET
31	BH	42	ARG
31	BH	43	VAL
31	BH	44	VAL
31	BH	45	VAL
31	BH	50	VAL
31	BH	56	SER
31	BH	59	ARG
31	BH	71	LEU
31	BH	77	LYS
31	BH	79	VAL
31	BH	80	SER
31	BH	81	GLU
31	BH	86	GLU
31	BH	89	ILE
31	BH	92	ILE
31	BH	97	ARG
31	BH	99	VAL
31	BH	101	ARG
31	BH	104	GLU
31	BH	105	LEU
31	BH	107	VAL
31	BH	113	VAL

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Mol	Chain	Res	Type
31	BH	116	GLU
31	BH	122	THR
31	BH	127	GLU
31	BH	129	THR
31	BH	132	ARG
31	BH	134	SER
31	BH	136	ILE
31	BH	138	LYS
31	BH	139	GLN
31	BH	143	GLN
31	BH	153	LYS
31	BH	158	HIS
31	BH	167	GLU
31	BH	170	ARG
31	BH	171	LEU
32	BK	1	MET
32	BK	2	LYS
32	BK	12	LEU
32	BK	20	ASP
32	BK	35	LEU
32	BK	38	LEU
32	BK	41	GLU
32	BK	50	ARG
32	BK	54	GLN
32	BK	57	ARG
32	BK	58	LEU
32	BK	64	GLU
32	BK	67	ARG
32	BK	68	LEU
32	BK	70	GLU
32	BK	71	ILE
32	BK	72	LEU
32	BK	77	LEU
32	BK	78	THR
32	BK	81	VAL
32	BK	82	ARG
32	BK	85	GLU
32	BK	86	THR
32	BK	87	LYS
32	BK	92	VAL
32	BK	93	THR
32	BK	95	LYS

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Mol	Chain	Res	Type
32	BK	101	LEU
32	BK	102	SER
32	BK	103	ARG
32	BK	107	VAL
32	BK	108	THR
32	BK	112	LYS
32	BK	118	LYS
32	BK	135	GLU
32	BK	136	VAL
32	BK	138	ILE
32	BK	140	LEU
33	BM	5	VAL
33	BM	7	LYS
33	BM	9	VAL
33	BM	10	GLU
33	BM	15	LEU
33	BM	22	THR
33	BM	28	THR
33	BM	32	THR
33	BM	33	LEU
33	BM	34	LEU
33	BM	42	TRP
33	BM	43	THR
33	BM	45	ASN
33	BM	46	VAL
33	BM	48	MET
33	BM	60	ILE
33	BM	61	ARG
33	BM	63	THR
33	BM	67	LEU
33	BM	70	LYS
33	BM	87	LEU
33	BM	88	GLU
33	BM	89	LYS
33	BM	96	GLU
33	BM	97	ARG
33	BM	98	VAL
33	BM	99	LEU
33	BM	115	ARG
33	BM	120	LEU
33	BM	122	VAL
33	BM	127	ASP

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Mol	Chain	Res	Type
33	BM	130	HIS
33	BM	131	GLN
33	BM	133	GLN
33	BM	134	ARG
33	BM	138	LEU
34	BN	1	MET
34	BN	8	LEU
34	BN	9	GLU
34	BN	20	MET
34	BN	22	ILE
34	BN	23	ARG
34	BN	24	VAL
34	BN	35	VAL
34	BN	38	VAL
34	BN	47	ILE
34	BN	52	VAL
34	BN	53	LYS
34	BN	66	LYS
34	BN	68	GLU
34	BN	82	ASN
34	BN	85	VAL
34	BN	94	ARG
34	BN	98	VAL
34	BN	114	ILE
35	BO	3	LEU
35	BO	6	LEU
35	BO	14	LYS
35	BO	15	ARG
35	BO	16	ARG
35	BO	21	ARG
35	BO	29	LYS
35	BO	30	THR
35	BO	32	THR
35	BO	36	LYS
35	BO	41	ARG
35	BO	45	LEU
35	BO	46	LYS
35	BO	49	ARG
35	BO	50	ARG
35	BO	61	ARG
35	BO	62	LEU
35	BO	64	LYS

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Mol	Chain	Res	Type
35	BO	65	ARG
35	BO	68	GLN
35	BO	75	ILE
35	BO	79	ARG
35	BO	81	GLN
35	BO	88	LEU
35	BO	90	ARG
35	BO	92	GLU
35	BO	96	THR
35	BO	99	LEU
35	BO	100	LEU
35	BO	105	LEU
35	BO	106	LEU
35	BO	111	ARG
35	BO	112	LEU
35	BO	123	LEU
35	BO	124	LYS
35	BO	125	VAL
35	BO	126	VAL
35	BO	135	LEU
35	BO	138	LEU
35	BO	139	LYS
35	BO	144	GLU
35	BO	146	VAL
35	BO	147	LEU
35	BO	148	LEU
36	BP	5	ARG
36	BP	7	MET
36	BP	10	ARG
36	BP	17	LEU
36	BP	18	LYS
36	BP	25	ASP
36	BP	26	TYR
36	BP	27	VAL
36	BP	35	VAL
36	BP	45	GLN
36	BP	46	GLN
36	BP	52	VAL
36	BP	59	ARG
36	BP	60	ARG
36	BP	79	LEU
36	BP	82	ARG

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Mol	Chain	Res	Type
36	BP	83	MET
36	BP	90	VAL
36	BP	91	GLU
36	BP	103	MET
36	BP	109	VAL
36	BP	110	THR
36	BP	112	GLU
36	BP	129	THR
36	BP	134	ARG
36	BP	139	GLU
37	B0	1	MET
37	B0	4	LEU
37	B0	18	LEU
37	B0	28	LEU
37	B0	29	LEU
37	B0	30	THR
37	B0	34	ILE
37	B0	36	THR
37	B0	37	THR
37	B0	44	LEU
37	B0	45	ARG
37	B0	48	VAL
37	B0	54	LEU
37	B0	59	ASP
37	B0	60	LEU
37	B0	74	LYS
37	B0	75	LEU
37	B0	79	LEU
37	B0	83	ILE
37	B0	88	ARG
37	B0	91	GLN
37	B0	104	ARG
37	B0	105	ARG
37	B0	107	ASP
37	B0	113	LEU
37	B0	117	VAL
38	BQ	5	THR
38	BQ	10	ARG
38	BQ	11	LYS
38	BQ	17	ARG
38	BQ	19	LYS
38	BQ	20	ARG

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Mol	Chain	Res	Type
38	BQ	24	LEU
38	BQ	31	SER
38	BQ	35	ILE
38	BQ	36	TYR
38	BQ	42	ASP
38	BQ	43	GLU
38	BQ	46	VAL
38	BQ	50	SER
38	BQ	53	SER
38	BQ	54	LEU
38	BQ	56	LEU
38	BQ	58	LEU
38	BQ	59	LYS
38	BQ	61	ASN
38	BQ	69	VAL
38	BQ	73	LEU
38	BQ	83	LYS
38	BQ	93	LYS
38	BQ	97	ARG
38	BQ	101	LEU
38	BQ	106	ARG
38	BQ	111	GLU
39	BR	6	LEU
39	BR	7	ILE
39	BR	11	GLU
39	BR	15	VAL
39	BR	16	ARG
39	BR	17	THR
39	BR	19	LEU
39	BR	23	ARG
39	BR	27	THR
39	BR	28	VAL
39	BR	30	VAL
39	BR	33	LYS
39	BR	35	LYS
39	BR	41	ARG
39	BR	42	ILE
39	BR	48	ILE
39	BR	49	VAL
39	BR	50	ILE
39	BR	52	ILE
39	BR	58	ASN

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Mol	Chain	Res	Type
39	BR	59	THR
39	BR	61	PHE
39	BR	64	ARG
39	BR	65	LYS
39	BR	74	ARG
39	BR	85	LYS
39	BR	86	ILE
39	BR	87	ASP
39	BR	88	ILE
39	BR	89	VAL
39	BR	99	LEU
39	BR	105	LEU
39	BR	106	SER
39	BR	110	ILE
39	BR	112	ARG
39	BR	115	ARG
39	BR	118	ARG
39	BR	128	GLU
40	B1	3	ARG
40	B1	5	LYS
40	B1	8	VAL
40	B1	13	LYS
40	B1	17	ILE
40	B1	27	LEU
40	B1	34	LYS
40	B1	52	ARG
40	B1	60	LEU
40	B1	79	PHE
40	B1	83	LEU
40	B1	89	GLU
40	B1	95	LEU
40	B1	97	ASP
40	B1	98	LEU
40	B1	111	GLU
40	B1	112	ARG
40	B1	117	GLN
41	B2	1	MET
41	B2	5	VAL
41	B2	6	LYS
41	B2	15	GLU
41	B2	18	LEU
41	B2	21	ARG

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Mol	Chain	Res	Type
41	B2	28	GLU
41	B2	33	VAL
41	B2	35	LEU
41	B2	39	LEU
41	B2	40	LEU
41	B2	45	THR
41	B2	47	VAL
41	B2	52	VAL
41	B2	57	VAL
41	B2	61	VAL
41	B2	62	LEU
41	B2	68	LYS
41	B2	70	ILE
41	B2	72	VAL
41	B2	74	LYS
41	B2	78	LYS
41	B2	88	ARG
41	B2	99	ILE
42	BS	1	MET
42	BS	11	ARG
42	BS	16	LYS
42	BS	17	VAL
42	BS	19	LEU
42	BS	20	VAL
42	BS	21	VAL
42	BS	23	LEU
42	BS	27	LYS
42	BS	28	SER
42	BS	39	THR
42	BS	41	LYS
42	BS	45	TYR
42	BS	51	LEU
42	BS	57	ASN
42	BS	67	ASP
42	BS	70	TYR
42	BS	76	VAL
42	BS	78	GLU
42	BS	85	VAL
42	BS	88	ARG
42	BS	90	ARG
42	BS	92	ARG
42	BS	96	ILE

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Mol	Chain	Res	Type
42	BS	100	THR
42	BS	106	ILE
42	BS	107	LEU
42	BS	111	HIS
43	BT	12	VAL
43	BT	15	GLU
43	BT	23	GLU
43	BT	27	THR
43	BT	40	LYS
43	BT	44	GLU
43	BT	45	THR
43	BT	52	VAL
43	BT	57	LEU
43	BT	64	LYS
43	BT	65	ARG
43	BT	70	LEU
43	BT	80	ILE
43	BT	83	VAL
43	BT	87	GLN
43	BT	88	LYS
44	BU	3	VAL
44	BU	6	HIS
44	BU	14	LEU
44	BU	19	LYS
44	BU	26	LYS
44	BU	27	VAL
44	BU	33	LYS
44	BU	38	ILE
44	BU	40	GLU
44	BU	44	ILE
44	BU	45	VAL
44	BU	52	SER
44	BU	57	GLN
44	BU	61	ILE
44	BU	64	GLU
44	BU	67	LEU
44	BU	75	ILE
44	BU	76	CYS
44	BU	81	LYS
44	BU	84	ARG
44	BU	86	ARG
44	BU	87	LYS

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Mol	Chain	Res	Type
44	BU	90	LEU
44	BU	97	ARG
45	BV	2	GLU
45	BV	5	LEU
45	BV	16	SER
45	BV	19	ARG
45	BV	24	LEU
45	BV	33	LEU
45	BV	41	LEU
45	BV	53	ILE
45	BV	55	HIS
45	BV	59	LEU
45	BV	61	LEU
45	BV	71	VAL
45	BV	73	GLN
45	BV	74	VAL
45	BV	76	LEU
45	BV	80	ARG
45	BV	82	ARG
45	BV	86	VAL
45	BV	91	LEU
45	BV	92	SER
45	BV	93	ASP
45	BV	96	VAL
45	BV	97	GLU
45	BV	104	PHE
45	BV	111	VAL
45	BV	112	ARG
45	BV	117	LEU
45	BV	119	GLU
45	BV	122	ARG
45	BV	128	VAL
45	BV	132	ASN
45	BV	144	LEU
45	BV	146	ILE
45	BV	148	ASP
45	BV	162	GLU
45	BV	163	LEU
45	BV	165	VAL
45	BV	169	GLU
45	BV	175	VAL
46	B3	11	ARG

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Mol	Chain	Res	Type
46	B3	20	ARG
46	B3	31	VAL
46	B3	36	ILE
46	B3	38	VAL
46	B3	40	GLN
46	B3	53	MET
46	B3	60	PHE
46	B3	66	VAL
46	B3	79	VAL
46	B3	84	LEU
47	BZ	4	VAL
47	BZ	26	ARG
47	BZ	35	THR
47	BZ	40	ARG
47	BZ	41	ARG
47	BZ	46	LEU
47	BZ	50	ARG
47	BZ	62	VAL
47	BZ	74	VAL
47	BZ	75	GLU
47	BZ	78	LYS
47	BZ	80	LEU
47	BZ	81	LYS
47	BZ	82	LEU
47	BZ	83	GLU
47	BZ	85	LEU
47	BZ	88	LYS
47	BZ	90	ILE
47	BZ	91	LYS
47	BZ	92	LYS
47	BZ	97	LEU
48	BW	5	GLU
48	BW	7	ARG
48	BW	9	GLN
48	BW	16	LEU
48	BW	17	SER
48	BW	19	VAL
48	BW	23	LYS
48	BW	24	LEU
48	BW	32	LEU
48	BW	34	GLU
48	BW	35	LEU

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Mol	Chain	Res	Type
48	BW	44	LEU
48	BW	47	ASN
48	BW	50	ILE
48	BW	53	LEU
48	BW	54	LYS
48	BW	55	ARG
48	BW	62	THR
48	BW	64	LEU
48	BW	65	ASN
49	BX	6	VAL
49	BX	7	LYS
49	BX	8	LEU
49	BX	31	LEU
49	BX	32	GLN
49	BX	33	GLN
49	BX	40	THR
49	BX	53	LEU
49	BX	54	VAL
50	B4	5	ILE
50	B4	9	LEU
50	B4	10	VAL
50	B4	14	ILE
50	B4	15	ILE
50	B4	16	CYS
50	B4	22	ILE
50	B4	27	THR
50	B4	33	VAL
50	B4	34	GLU
50	B4	35	VAL
50	B4	38	LYS
50	B4	47	GLN
50	B4	53	GLU
50	B4	56	VAL
50	B4	57	GLU
50	B4	61	ARG
50	B4	62	ARG
50	B4	65	ASP
50	B4	66	SER
51	B5	3	LYS
51	B5	4	HIS
51	B5	6	VAL
51	B5	11	THR

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Mol	Chain	Res	Type
51	B5	16	ARG
51	B5	29	THR
51	B5	36	CYS
51	B5	37	LYS
51	B5	40	LYS
51	B5	44	THR
51	B5	48	GLU
51	B5	51	TYR
51	B5	52	TYR
51	B5	55	ARG
51	B5	56	LYS
51	B5	58	LEU
52	B6	10	LEU
52	B6	12	GLU
52	B6	13	CYS
52	B6	16	CYS
52	B6	17	LYS
52	B6	18	ARG
52	B6	25	LYS
52	B6	26	ASN
52	B6	27	LYS
52	B6	28	ARG
52	B6	32	ASN
52	B6	34	LEU
52	B6	36	LEU
52	B6	37	ARG
52	B6	39	TYR
52	B6	42	TRP
52	B6	44	ARG
52	B6	45	LYS
53	B7	1	MET
53	B7	4	THR
53	B7	8	ASN
53	B7	9	ARG
53	B7	14	LYS
53	B7	23	ARG
53	B7	24	THR
53	B7	43	THR
53	B7	46	VAL
53	B7	48	LYS
54	B8	14	VAL
54	B8	16	ILE

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Mol	Chain	Res	Type
54	B8	23	VAL
54	B8	29	LYS
54	B8	34	TRP
54	B8	36	LYS
54	B8	40	GLU
54	B8	41	ILE
54	B8	47	LYS
54	B8	49	VAL
54	B8	50	LEU
54	B8	56	GLU
54	B8	58	ILE
2	CE	5	ILE
2	CE	16	HIS
2	CE	17	PHE
2	CE	19	HIS
2	CE	24	TRP
2	CE	32	ILE
2	CE	37	ASN
2	CE	44	LEU
2	CE	48	MET
2	CE	51	LEU
2	CE	53	ARG
2	CE	55	PHE
2	CE	56	ARG
2	CE	58	ILE
2	CE	67	THR
2	CE	73	THR
2	CE	75	LYS
2	CE	78	GLN
2	CE	80	ILE
2	CE	84	GLU
2	CE	87	ARG
2	CE	92	TYR
2	CE	98	LEU
2	CE	101	MET
2	CE	105	PHE
2	CE	107	THR
2	CE	111	ARG
2	CE	114	ARG
2	CE	130	ARG
2	CE	136	VAL
2	CE	137	ARG

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Mol	Chain	Res	Type
2	CE	139	LYS
2	CE	140	HIS
2	CE	141	GLU
2	CE	144	ARG
2	CE	145	LEU
2	CE	147	LYS
2	CE	155	LEU
2	CE	164	VAL
2	CE	165	VAL
2	CE	178	ARG
2	CE	179	LYS
2	CE	185	ILE
2	CE	187	LEU
2	CE	196	LEU
2	CE	197	VAL
2	CE	201	ILE
2	CE	206	ASP
2	CE	208	ILE
2	CE	215	LEU
2	CE	222	ILE
2	CE	223	ILE
2	CE	226	ARG
2	CE	229	VAL
2	CE	230	VAL
2	CE	238	LEU
2	CE	239	VAL
3	CF	5	ILE
3	CF	6	HIS
3	CF	14	ILE
3	CF	18	TRP
3	CF	21	ARG
3	CF	26	LYS
3	CF	27	LYS
3	CF	28	GLN
3	CF	34	LEU
3	CF	36	ASP
3	CF	37	GLN
3	CF	39	ILE
3	CF	42	LEU
3	CF	43	LEU
3	CF	63	ASN
3	CF	76	VAL

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Mol	Chain	Res	Type
3	CF	79	ARG
3	CF	83	ARG
3	CF	84	ILE
3	CF	85	ARG
3	CF	89	GLU
3	CF	95	THR
3	CF	98	ASN
3	CF	99	VAL
3	CF	101	LEU
3	CF	120	VAL
3	CF	128	PHE
3	CF	131	ARG
3	CF	140	ARG
3	CF	151	VAL
3	CF	161	GLU
3	CF	165	THR
3	CF	175	LEU
3	CF	178	LEU
3	CF	184	TYR
3	CF	192	THR
3	CF	195	VAL
3	CF	196	LEU
3	CF	206	GLU
3	CF	207	VAL
4	CG	5	ILE
4	CG	8	VAL
4	CG	9	CYS
4	CG	10	ARG
4	CG	11	LEU
4	CG	12	CYS
4	CG	13	ARG
4	CG	17	VAL
4	CG	19	LEU
4	CG	21	LEU
4	CG	22	LYS
4	CG	25	ARG
4	CG	26	CYS
4	CG	30	LYS
4	CG	36	ARG
4	CG	45	GLN
4	CG	49	ARG
4	CG	50	ARG

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Mol	Chain	Res	Type
4	CG	58	LEU
4	CG	59	ARG
4	CG	84	LYS
4	CG	85	LYS
4	CG	96	LEU
4	CG	107	ARG
4	CG	108	LEU
4	CG	112	VAL
4	CG	118	ARG
4	CG	119	GLN
4	CG	122	ARG
4	CG	127	THR
4	CG	131	ARG
4	CG	132	ARG
4	CG	135	LEU
4	CG	139	ARG
4	CG	141	ARG
4	CG	150	GLU
4	CG	155	LEU
4	CG	170	VAL
4	CG	177	ASP
4	CG	187	ARG
4	CG	191	ARG
4	CG	194	LEU
4	CG	198	VAL
4	CG	200	GLU
5	CH	5	ASP
5	CH	11	ILE
5	CH	12	LEU
5	CH	13	ILE
5	CH	18	ARG
5	CH	20	GLN
5	CH	24	ARG
5	CH	31	LEU
5	CH	33	VAL
5	CH	34	VAL
5	CH	41	VAL
5	CH	43	LEU
5	CH	53	LEU
5	CH	56	GLN
5	CH	73	ASN
5	CH	75	THR

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Mol	Chain	Res	Type
5	CH	76	ILE
5	CH	79	GLU
5	CH	82	VAL
5	CH	87	SER
5	CH	90	VAL
5	CH	91	LEU
5	CH	100	VAL
5	CH	101	ILE
5	CH	107	ARG
5	CH	116	THR
5	CH	136	MET
5	CH	140	ARG
5	CH	141	GLN
5	CH	143	ARG
5	CH	147	ASP
5	CH	153	LYS
5	CH	155	GLU
6	CI	2	ARG
6	CI	14	LEU
6	CI	21	LEU
6	CI	27	GLN
6	CI	28	ARG
6	CI	37	VAL
6	CI	40	VAL
6	CI	45	LEU
6	CI	54	LYS
6	CI	55	ASP
6	CI	57	GLN
6	CI	63	TYR
6	CI	65	VAL
6	CI	75	LEU
6	CI	81	ILE
6	CI	87	ARG
6	CI	91	VAL
6	CI	93	SER
7	CJ	4	ARG
7	CJ	8	GLU
7	CJ	9	VAL
7	CJ	11	GLN
7	CJ	12	LEU
7	CJ	13	GLN
7	CJ	16	LEU

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Mol	Chain	Res	Type
7	CJ	22	LEU
7	CJ	24	THR
7	CJ	29	LYS
7	CJ	37	ASN
7	CJ	38	LEU
7	CJ	41	ARG
7	CJ	47	CYS
7	CJ	49	ILE
7	CJ	51	GLN
7	CJ	53	LYS
7	CJ	60	LYS
7	CJ	63	LYS
7	CJ	66	VAL
7	CJ	72	ARG
7	CJ	75	VAL
7	CJ	78	ARG
7	CJ	80	VAL
7	CJ	85	TYR
7	CJ	86	GLN
7	CJ	87	VAL
7	CJ	89	MET
7	CJ	94	ARG
7	CJ	97	GLN
7	CJ	104	LEU
7	CJ	113	GLU
7	CJ	114	ARG
7	CJ	118	VAL
7	CJ	120	ILE
7	CJ	129	GLU
7	CJ	137	LYS
7	CJ	140	ASP
7	CJ	146	GLU
7	CJ	149	ARG
7	CJ	151	TYR
7	CJ	155	ARG
8	CK	1	MET
8	CK	23	SER
8	CK	24	THR
8	CK	26	VAL
8	CK	30	ARG
8	CK	41	ARG
8	CK	52	ASP

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Mol	Chain	Res	Type
8	CK	60	ARG
8	CK	63	LEU
8	CK	77	GLU
8	CK	79	VAL
8	CK	82	HIS
8	CK	88	LYS
8	CK	91	ARG
8	CK	92	ARG
8	CK	102	ARG
8	CK	104	ARG
8	CK	109	ILE
8	CK	112	LEU
8	CK	115	SER
8	CK	116	LYS
8	CK	123	GLU
8	CK	125	ARG
8	CK	137	VAL
9	CL	7	THR
9	CL	14	VAL
9	CL	16	ARG
9	CL	20	ARG
9	CL	28	VAL
9	CL	29	ASN
9	CL	38	GLN
9	CL	40	LEU
9	CL	56	LEU
9	CL	58	HIS
9	CL	64	THR
9	CL	71	SER
9	CL	78	LYS
9	CL	79	LEU
9	CL	89	ASN
9	CL	95	LYS
9	CL	97	LYS
9	CL	102	LEU
9	CL	104	ARG
9	CL	108	VAL
9	CL	109	VAL
9	CL	110	GLU
9	CL	114	TYR
9	CL	117	HIS
9	CL	118	LYS

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Mol	Chain	Res	Type
9	CL	121	ARG
10	CM	4	ILE
10	CM	9	ARG
10	CM	13	HIS
10	CM	16	LEU
10	CM	19	SER
10	CM	21	GLN
10	CM	24	VAL
10	CM	25	GLU
10	CM	30	SER
10	CM	38	ILE
10	CM	40	LEU
10	CM	44	VAL
10	CM	47	PHE
10	CM	48	THR
10	CM	49	VAL
10	CM	51	ARG
10	CM	55	LYS
10	CM	57	LYS
10	CM	58	ASP
10	CM	61	GLU
10	CM	62	HIS
10	CM	69	ASN
10	CM	72	VAL
10	CM	74	ILE
10	CM	75	ILE
10	CM	79	ARG
10	CM	80	LYS
10	CM	84	GLN
10	CM	85	LEU
10	CM	87	THR
10	CM	90	LEU
10	CM	95	GLU
10	CM	96	ILE
10	CM	98	ILE
10	CM	99	LYS
10	CM	101	VAL
11	CN	14	VAL
11	CN	18	ARG
11	CN	28	THR
11	CN	29	ILE
11	CN	30	VAL

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Mol	Chain	Res	Type
11	CN	38	ASN
11	CN	48	ILE
11	CN	51	LYS
11	CN	53	SER
11	CN	54	ARG
11	CN	57	THR
11	CN	63	LEU
11	CN	66	LEU
11	CN	70	LYS
11	CN	83	ILE
11	CN	84	VAL
11	CN	98	LEU
11	CN	103	LEU
11	CN	112	THR
11	CN	114	VAL
11	CN	119	CYS
11	CN	120	ARG
11	CN	127	LYS
12	CO	17	LYS
12	CO	20	LYS
12	CO	23	LYS
12	CO	24	VAL
12	CO	27	LEU
12	CO	33	ARG
12	CO	36	VAL
12	CO	41	ARG
12	CO	42	THR
12	CO	43	VAL
12	CO	46	LYS
12	CO	47	LYS
12	CO	55	VAL
12	CO	60	LEU
12	CO	65	GLU
12	CO	70	ILE
12	CO	82	VAL
12	CO	83	VAL
12	CO	84	LEU
12	CO	85	ILE
12	CO	100	ILE
12	CO	102	ARG
12	CO	104	VAL
12	CO	111	LYS

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Mol	Chain	Res	Type
12	CO	117	ARG
12	CO	118	SER
12	CO	122	THR
13	CP	3	ARG
13	CP	4	ILE
13	CP	19	LEU
13	CP	32	GLU
13	CP	39	ILE
13	CP	54	VAL
13	CP	55	ARG
13	CP	58	GLU
13	CP	63	THR
13	CP	66	LEU
13	CP	69	GLU
13	CP	70	LEU
13	CP	77	ASN
13	CP	79	LYS
13	CP	82	MET
13	CP	83	ASP
13	CP	98	VAL
13	CP	101	GLN
13	CP	103	THR
13	CP	105	THR
13	CP	108	ARG
13	CP	110	ARG
14	CQ	6	LEU
14	CQ	15	LYS
14	CQ	16	PHE
14	CQ	18	VAL
14	CQ	22	THR
14	CQ	33	VAL
14	CQ	43	CYS
14	CQ	44	LEU
14	CQ	46	GLU
14	CQ	60	SER
15	CR	3	ILE
15	CR	4	THR
15	CR	17	ARG
15	CR	22	THR
15	CR	26	GLU
15	CR	31	LEU
15	CR	35	ARG

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Mol	Chain	Res	Type
15	CR	38	ARG
15	CR	39	LEU
15	CR	41	GLU
15	CR	58	MET
15	CR	82	ILE
15	CR	83	GLU
15	CR	88	ARG
16	CS	2	VAL
16	CS	5	ARG
16	CS	8	ARG
16	CS	19	ILE
16	CS	20	VAL
16	CS	21	VAL
16	CS	45	THR
16	CS	53	VAL
16	CS	67	THR
16	CS	74	LEU
16	CS	82	GLN
17	CT	9	VAL
17	CT	24	GLU
17	CT	38	ARG
17	CT	52	LYS
17	CT	53	LEU
17	CT	68	ARG
17	CT	73	VAL
17	CT	74	LEU
17	CT	77	VAL
17	CT	79	SER
17	CT	82	MET
17	CT	98	LEU
18	CU	22	VAL
18	CU	23	LYS
18	CU	28	GLU
18	CU	29	PHE
18	CU	32	ARG
18	CU	44	LEU
18	CU	45	SER
18	CU	46	GLU
18	CU	47	THR
18	CU	53	ARG
18	CU	54	ARG
18	CU	58	LEU

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Mol	Chain	Res	Type
18	CU	82	THR
18	CU	83	GLU
18	CU	84	LYS
18	CU	85	LEU
18	CU	86	VAL
19	CV	11	VAL
19	CV	15	LEU
19	CV	22	LEU
19	CV	23	ASN
19	CV	25	LYS
19	CV	28	LYS
19	CV	33	THR
19	CV	36	ARG
19	CV	41	VAL
19	CV	60	VAL
19	CV	66	MET
19	CV	78	ARG
19	CV	79	THR
19	CV	81	ARG
19	CV	83	HIS
20	CW	9	ASN
20	CW	10	LEU
20	CW	11	SER
20	CW	14	LYS
20	CW	24	LEU
20	CW	26	ASN
20	CW	27	LYS
20	CW	36	LEU
20	CW	39	LYS
20	CW	41	ILE
20	CW	50	GLU
20	CW	55	ILE
20	CW	56	MET
20	CW	58	LYS
20	CW	62	LEU
20	CW	68	LYS
20	CW	72	LEU
20	CW	73	HIS
20	CW	75	ASN
20	CW	81	LYS
20	CW	83	ARG
20	CW	84	LEU

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Mol	Chain	Res	Type
20	CW	90	GLN
21	CX	25	LYS
27	DD	3	VAL
27	DD	5	LYS
27	DD	20	ASP
27	DD	25	THR
27	DD	26	LYS
27	DD	27	THR
27	DD	28	GLU
27	DD	30	GLU
27	DD	31	LYS
27	DD	32	SER
27	DD	40	THR
27	DD	44	ASN
27	DD	46	GLN
27	DD	49	ILE
27	DD	61	LEU
27	DD	64	ILE
27	DD	65	ILE
27	DD	68	LYS
27	DD	69	ARG
27	DD	72	LYS
27	DD	88	ARG
27	DD	89	SER
27	DD	91	ARG
27	DD	94	LEU
27	DD	98	VAL
27	DD	103	ARG
27	DD	105	ILE
27	DD	106	ILE
27	DD	112	GLN
27	DD	117	VAL
27	DD	140	THR
27	DD	141	VAL
27	DD	145	VAL
27	DD	147	LEU
27	DD	155	LEU
27	DD	157	ARG
27	DD	166	GLN
27	DD	176	ARG
27	DD	192	THR
27	DD	193	VAL

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Mol	Chain	Res	Type
27	DD	200	ASP
27	DD	202	LYS
27	DD	211	ARG
27	DD	217	ARG
27	DD	218	ARG
27	DD	244	ARG
27	DD	255	LYS
27	DD	257	LEU
27	DD	266	SER
27	DD	270	ILE
27	DD	271	ILE
28	DE	9	VAL
28	DE	21	VAL
28	DE	23	VAL
28	DE	26	ILE
28	DE	33	VAL
28	DE	35	GLN
28	DE	36	ARG
28	DE	37	ARG
28	DE	44	TYR
28	DE	49	LEU
28	DE	54	GLN
28	DE	58	ARG
28	DE	59	VAL
28	DE	60	ASN
28	DE	61	ARG
28	DE	63	LEU
28	DE	76	ARG
28	DE	77	ILE
28	DE	78	LEU
28	DE	79	ARG
28	DE	81	ILE
28	DE	82	ARG
28	DE	87	GLU
28	DE	91	VAL
28	DE	93	VAL
28	DE	95	ILE
28	DE	107	THR
28	DE	111	ARG
28	DE	116	VAL
28	DE	119	ARG
28	DE	128	SER

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Mol	Chain	Res	Type
28	DE	135	HIS
28	DE	141	ILE
28	DE	144	ARG
28	DE	146	THR
28	DE	152	LYS
28	DE	154	LYS
28	DE	175	VAL
28	DE	178	GLU
28	DE	179	GLU
28	DE	181	LEU
28	DE	182	LEU
28	DE	188	VAL
28	DE	196	VAL
28	DE	197	ILE
28	DE	200	GLU
28	DE	201	THR
28	DE	203	LYS
29	DF	7	TYR
29	DF	11	VAL
29	DF	15	SER
29	DF	17	ARG
29	DF	19	GLU
29	DF	20	LEU
29	DF	24	LEU
29	DF	28	ILE
29	DF	33	LEU
29	DF	48	THR
29	DF	52	LYS
29	DF	53	THR
29	DF	57	VAL
29	DF	62	ARG
29	DF	63	LYS
29	DF	67	GLN
29	DF	68	LYS
29	DF	70	THR
29	DF	74	ARG
29	DF	83	PHE
29	DF	84	VAL
29	DF	88	VAL
29	DF	93	LYS
29	DF	100	THR
29	DF	104	LYS

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Mol	Chain	Res	Type
29	DF	107	LYS
29	DF	116	ASP
29	DF	117	ARG
29	DF	123	LEU
29	DF	125	LEU
29	DF	140	LEU
29	DF	149	ASP
29	DF	152	GLU
29	DF	153	SER
29	DF	154	VAL
29	DF	158	THR
29	DF	181	LEU
29	DF	183	VAL
29	DF	192	LEU
29	DF	194	MET
29	DF	196	LEU
29	DF	199	TRP
29	DF	201	VAL
29	DF	203	GLN
29	DF	205	ARG
30	DG	4	ASP
30	DG	13	GLU
30	DG	22	ARG
30	DG	26	GLN
30	DG	27	ASN
30	DG	28	VAL
30	DG	31	VAL
30	DG	33	ARG
30	DG	34	LEU
30	DG	38	VAL
30	DG	40	ASN
30	DG	45	GLU
30	DG	47	LYS
30	DG	49	ASP
30	DG	52	ILE
30	DG	62	LEU
30	DG	63	ILE
30	DG	67	LYS
30	DG	71	THR
30	DG	75	LYS
30	DG	76	SER
30	DG	81	LYS

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Mol	Chain	Res	Type
30	DG	82	LEU
30	DG	86	MET
30	DG	88	ILE
30	DG	90	LEU
30	DG	96	ARG
30	DG	97	ASP
30	DG	108	ASN
30	DG	115	ARG
30	DG	117	PHE
30	DG	118	ARG
30	DG	130	ASN
30	DG	135	LEU
30	DG	137	GLU
30	DG	139	LEU
30	DG	146	TYR
30	DG	148	MET
30	DG	159	VAL
30	DG	162	THR
30	DG	165	THR
30	DG	173	LEU
31	DH	4	ILE
31	DH	7	LEU
31	DH	9	ILE
31	DH	11	VAL
31	DH	24	VAL
31	DH	30	LYS
31	DH	34	GLU
31	DH	37	VAL
31	DH	43	VAL
31	DH	44	VAL
31	DH	47	GLU
31	DH	50	VAL
31	DH	52	VAL
31	DH	59	ARG
31	DH	63	SER
31	DH	64	LEU
31	DH	71	LEU
31	DH	72	ILE
31	DH	81	GLU
31	DH	87	LEU
31	DH	89	ILE
31	DH	94	TYR

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Mol	Chain	Res	Type
31	DH	101	ARG
31	DH	103	LEU
31	DH	105	LEU
31	DH	106	THR
31	DH	114	VAL
31	DH	125	VAL
31	DH	132	ARG
31	DH	136	ILE
31	DH	139	GLN
31	DH	141	VAL
31	DH	143	GLN
31	DH	152	ARG
31	DH	153	LYS
31	DH	155	SER
31	DH	159	GLU
31	DH	171	LEU
32	DK	2	LYS
32	DK	7	GLU
32	DK	9	LEU
32	DK	11	ASN
32	DK	14	ASP
32	DK	27	ARG
32	DK	37	VAL
32	DK	41	GLU
32	DK	44	LEU
32	DK	51	ILE
32	DK	54	GLN
32	DK	56	LYS
32	DK	62	LYS
32	DK	68	LEU
32	DK	73	GLU
32	DK	74	ASN
32	DK	75	LEU
32	DK	76	THR
32	DK	77	LEU
32	DK	78	THR
32	DK	79	ILE
32	DK	81	VAL
32	DK	82	ARG
32	DK	85	GLU
32	DK	88	ILE
32	DK	101	LEU

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Mol	Chain	Res	Type
32	DK	102	SER
32	DK	104	GLN
32	DK	107	VAL
32	DK	109	ILE
32	DK	110	ASP
32	DK	114	LEU
32	DK	117	GLU
32	DK	122	GLU
32	DK	123	LEU
32	DK	125	GLU
32	DK	127	VAL
32	DK	128	LEU
32	DK	133	HIS
32	DK	136	VAL
32	DK	142	VAL
32	DK	144	VAL
32	DK	145	VAL
33	DM	7	LYS
33	DM	15	LEU
33	DM	28	THR
33	DM	32	THR
33	DM	33	LEU
33	DM	34	LEU
33	DM	35	ARG
33	DM	38	HIS
33	DM	43	THR
33	DM	45	ASN
33	DM	48	MET
33	DM	63	THR
33	DM	67	LEU
33	DM	69	GLN
33	DM	83	LYS
33	DM	87	LEU
33	DM	90	MET
33	DM	93	THR
33	DM	94	HIS
33	DM	96	GLU
33	DM	97	ARG
33	DM	99	LEU
33	DM	127	ASP
33	DM	137	LYS
34	DN	3	GLN

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Mol	Chain	Res	Type
34	DN	5	GLN
34	DN	8	LEU
34	DN	9	GLU
34	DN	14	THR
34	DN	20	MET
34	DN	22	ILE
34	DN	23	ARG
34	DN	24	VAL
34	DN	28	SER
34	DN	31	LYS
34	DN	35	VAL
34	DN	38	VAL
34	DN	42	SER
34	DN	49	ARG
34	DN	52	VAL
34	DN	58	VAL
34	DN	62	VAL
34	DN	69	ILE
34	DN	70	LYS
34	DN	85	VAL
34	DN	87	ILE
34	DN	91	LEU
34	DN	94	ARG
34	DN	98	VAL
34	DN	104	ARG
34	DN	108	GLU
34	DN	114	ILE
34	DN	117	LEU
35	DO	6	LEU
35	DO	7	ARG
35	DO	14	LYS
35	DO	15	ARG
35	DO	16	ARG
35	DO	21	ARG
35	DO	29	LYS
35	DO	30	THR
35	DO	36	LYS
35	DO	41	ARG
35	DO	45	LEU
35	DO	46	LYS
35	DO	49	ARG
35	DO	50	ARG

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Mol	Chain	Res	Type
35	DO	61	ARG
35	DO	62	LEU
35	DO	64	LYS
35	DO	65	ARG
35	DO	68	GLN
35	DO	75	ILE
35	DO	81	GLN
35	DO	85	LEU
35	DO	87	ASP
35	DO	95	VAL
35	DO	96	THR
35	DO	98	GLU
35	DO	100	LEU
35	DO	101	VAL
35	DO	102	ARG
35	DO	105	LEU
35	DO	110	TYR
35	DO	111	ARG
35	DO	112	LEU
35	DO	114	ILE
35	DO	117	GLU
35	DO	121	LYS
35	DO	124	LYS
35	DO	125	VAL
35	DO	135	LEU
35	DO	136	GLU
35	DO	138	LEU
35	DO	144	GLU
35	DO	147	LEU
35	DO	148	LEU
36	DP	3	MET
36	DP	5	ARG
36	DP	21	THR
36	DP	25	ASP
36	DP	26	TYR
36	DP	35	VAL
36	DP	45	GLN
36	DP	55	VAL
36	DP	59	ARG
36	DP	63	LYS
36	DP	64	ILE
36	DP	65	PHE

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Mol	Chain	Res	Type
36	DP	75	THR
36	DP	79	LEU
36	DP	80	GLU
36	DP	82	ARG
36	DP	83	MET
36	DP	87	LYS
36	DP	90	VAL
36	DP	103	MET
36	DP	109	VAL
36	DP	110	THR
36	DP	112	GLU
36	DP	113	GLN
36	DP	120	ILE
36	DP	127	ILE
36	DP	132	VAL
36	DP	133	ARG
36	DP	141	GLN
37	D0	6	SER
37	D0	18	LEU
37	D0	28	LEU
37	D0	29	LEU
37	D0	30	THR
37	D0	33	ARG
37	D0	35	THR
37	D0	37	THR
37	D0	44	LEU
37	D0	48	VAL
37	D0	54	LEU
37	D0	63	ARG
37	D0	65	LEU
37	D0	67	LEU
37	D0	76	VAL
37	D0	81	ASP
37	D0	91	GLN
37	D0	102	GLU
37	D0	105	ARG
37	D0	117	VAL
37	D0	118	GLU
38	DQ	8	GLU
38	DQ	14	VAL
38	DQ	15	ARG
38	DQ	17	ARG

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Mol	Chain	Res	Type
38	DQ	20	ARG
38	DQ	21	THR
38	DQ	24	LEU
38	DQ	30	ARG
38	DQ	35	ILE
38	DQ	36	TYR
38	DQ	39	ILE
38	DQ	40	ILE
38	DQ	41	ASP
38	DQ	50	SER
38	DQ	52	SER
38	DQ	53	SER
38	DQ	56	LEU
38	DQ	58	LEU
38	DQ	61	ASN
38	DQ	63	THR
38	DQ	65	VAL
38	DQ	69	VAL
38	DQ	71	ARG
38	DQ	73	LEU
38	DQ	78	LEU
38	DQ	83	LYS
38	DQ	84	GLN
38	DQ	87	PHE
38	DQ	89	ARG
38	DQ	101	LEU
38	DQ	103	GLU
38	DQ	106	ARG
38	DQ	107	GLU
38	DQ	110	LEU
39	DR	7	ILE
39	DR	8	LYS
39	DR	9	LEU
39	DR	11	GLU
39	DR	12	SER
39	DR	15	VAL
39	DR	18	ASP
39	DR	23	ARG
39	DR	27	THR
39	DR	28	VAL
39	DR	29	ARG
39	DR	30	VAL

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Mol	Chain	Res	Type
39	DR	31	SER
39	DR	33	LYS
39	DR	34	VAL
39	DR	42	ILE
39	DR	50	ILE
39	DR	51	ARG
39	DR	52	ILE
39	DR	53	ARG
39	DR	54	ARG
39	DR	62	THR
39	DR	63	VAL
39	DR	65	LYS
39	DR	66	VAL
39	DR	74	ARG
39	DR	86	ILE
39	DR	87	ASP
39	DR	88	ILE
39	DR	89	VAL
39	DR	90	GLN
39	DR	91	ARG
39	DR	96	ARG
39	DR	98	LYS
39	DR	105	LEU
39	DR	107	ASP
39	DR	112	ARG
39	DR	117	ASP
39	DR	121	ILE
39	DR	132	LYS
39	DR	134	GLU
39	DR	136	GLN
39	DR	137	LYS
40	D1	20	LEU
40	D1	31	SER
40	D1	34	LYS
40	D1	64	ARG
40	D1	70	ARG
40	D1	71	GLN
40	D1	74	LEU
40	D1	83	LEU
40	D1	88	ILE
40	D1	92	ARG
40	D1	95	LEU

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Mol	Chain	Res	Type
40	D1	97	ASP
40	D1	102	GLU
40	D1	105	VAL
40	D1	112	ARG
40	D1	117	GLN
41	D2	1	MET
41	D2	7	THR
41	D2	18	LEU
41	D2	19	LYS
41	D2	21	ARG
41	D2	22	VAL
41	D2	26	ASP
41	D2	32	THR
41	D2	34	GLU
41	D2	35	LEU
41	D2	38	LEU
41	D2	40	LEU
41	D2	47	VAL
41	D2	57	VAL
41	D2	61	VAL
41	D2	62	LEU
41	D2	66	ARG
41	D2	71	LEU
41	D2	72	VAL
41	D2	74	LYS
41	D2	79	VAL
41	D2	80	GLN
41	D2	81	TYR
41	D2	82	ARG
41	D2	83	ARG
41	D2	84	LYS
41	D2	89	GLN
41	D2	91	TYR
41	D2	95	LEU
42	DS	2	GLU
42	DS	11	ARG
42	DS	13	SER
42	DS	17	VAL
42	DS	19	LEU
42	DS	20	VAL
42	DS	29	LEU
42	DS	37	ARG

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Mol	Chain	Res	Type
42	DS	39	THR
42	DS	41	LYS
42	DS	50	VAL
42	DS	51	LEU
42	DS	52	GLU
42	DS	65	LEU
42	DS	67	ASP
42	DS	70	TYR
42	DS	76	VAL
42	DS	83	LYS
42	DS	95	ILE
42	DS	96	ILE
42	DS	98	LYS
42	DS	100	THR
42	DS	106	ILE
42	DS	107	LEU
43	DT	12	VAL
43	DT	15	GLU
43	DT	30	VAL
43	DT	36	LYS
43	DT	37	THR
43	DT	43	VAL
43	DT	49	VAL
43	DT	52	VAL
43	DT	54	VAL
43	DT	56	THR
43	DT	57	LEU
43	DT	60	ARG
43	DT	63	LYS
43	DT	76	ARG
43	DT	80	ILE
43	DT	90	GLU
44	DU	3	VAL
44	DU	4	LYS
44	DU	5	MET
44	DU	13	VAL
44	DU	14	LEU
44	DU	20	TYR
44	DU	23	ARG
44	DU	26	LYS
44	DU	27	VAL
44	DU	28	LYS

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Mol	Chain	Res	Type
44	DU	29	GLU
44	DU	31	LEU
44	DU	40	GLU
44	DU	43	ASN
44	DU	44	ILE
44	DU	47	LYS
44	DU	50	ARG
44	DU	51	VAL
44	DU	57	GLN
44	DU	60	PHE
44	DU	62	GLU
44	DU	63	LYS
44	DU	64	GLU
44	DU	75	ILE
44	DU	76	CYS
44	DU	79	CYS
44	DU	81	LYS
44	DU	86	ARG
44	DU	89	PHE
44	DU	90	LEU
44	DU	91	GLU
44	DU	95	LYS
44	DU	96	ILE
44	DU	97	ARG
44	DU	99	CYS
44	DU	102	CYS
45	DV	6	LYS
45	DV	14	LYS
45	DV	16	SER
45	DV	18	LEU
45	DV	19	ARG
45	DV	23	LYS
45	DV	24	LEU
45	DV	27	VAL
45	DV	30	ASN
45	DV	32	HIS
45	DV	33	LEU
45	DV	35	ARG
45	DV	37	VAL
45	DV	50	GLN
45	DV	52	SER
45	DV	58	VAL

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Mol	Chain	Res	Type
45	DV	60	GLU
45	DV	73	GLN
45	DV	74	VAL
45	DV	76	LEU
45	DV	81	ARG
45	DV	87	ASP
45	DV	94	GLU
45	DV	97	GLU
45	DV	103	ARG
45	DV	107	THR
45	DV	112	ARG
45	DV	117	LEU
45	DV	118	GLN
45	DV	119	GLU
45	DV	121	HIS
45	DV	137	ILE
45	DV	148	ASP
45	DV	150	LEU
45	DV	163	LEU
45	DV	165	VAL
45	DV	166	SER
45	DV	170	THR
45	DV	179	ASP
46	D3	9	SER
46	D3	10	THR
46	D3	12	ASN
46	D3	14	ARG
46	D3	16	SER
46	D3	23	VAL
46	D3	25	ARG
46	D3	36	ILE
46	D3	40	GLN
46	D3	43	THR
46	D3	44	ARG
46	D3	49	LYS
46	D3	50	ASN
46	D3	55	ARG
46	D3	62	LEU
46	D3	68	GLU
46	D3	70	GLN
46	D3	84	LEU
47	DZ	3	LYS

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Mol	Chain	Res	Type
47	DZ	25	LYS
47	DZ	37	ILE
47	DZ	38	SER
47	DZ	41	ARG
47	DZ	42	GLN
47	DZ	56	GLN
47	DZ	57	GLU
47	DZ	62	VAL
47	DZ	74	VAL
47	DZ	76	ARG
47	DZ	78	LYS
47	DZ	81	LYS
47	DZ	82	LEU
47	DZ	83	GLU
47	DZ	85	LEU
47	DZ	90	ILE
47	DZ	91	LYS
47	DZ	92	LYS
47	DZ	98	LEU
48	DW	5	GLU
48	DW	8	LYS
48	DW	10	LEU
48	DW	15	LYS
48	DW	16	LEU
48	DW	22	GLU
48	DW	24	LEU
48	DW	30	ARG
48	DW	35	LEU
48	DW	41	ILE
48	DW	44	LEU
48	DW	47	ASN
48	DW	51	ARG
48	DW	53	LEU
48	DW	60	LEU
49	DX	8	LEU
49	DX	18	ASP
49	DX	24	LYS
49	DX	29	ARG
49	DX	31	LEU
49	DX	32	GLN
49	DX	40	THR
49	DX	48	GLU

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Mol	Chain	Res	Type
49	DX	53	LEU
49	DX	58	VAL
50	D4	1	MET
50	D4	3	GLU
50	D4	5	ILE
50	D4	6	HIS
50	D4	13	ARG
50	D4	18	CYS
50	D4	20	ASN
50	D4	22	ILE
50	D4	24	THR
50	D4	30	GLU
50	D4	44	THR
50	D4	46	GLN
50	D4	47	GLN
50	D4	48	ARG
50	D4	49	PHE
50	D4	50	VAL
50	D4	52	THR
50	D4	53	GLU
50	D4	60	GLN
50	D4	62	ARG
51	D5	3	LYS
51	D5	4	HIS
51	D5	6	VAL
51	D5	9	LYS
51	D5	11	THR
51	D5	16	ARG
51	D5	25	LEU
51	D5	26	THR
51	D5	29	THR
51	D5	33	CYS
51	D5	35	GLU
51	D5	37	LYS
51	D5	48	GLU
51	D5	52	TYR
51	D5	56	LYS
52	D6	9	LEU
52	D6	10	LEU
52	D6	11	LEU
52	D6	12	GLU
52	D6	17	LYS

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Mol	Chain	Res	Type
52	D6	24	GLU
52	D6	27	LYS
52	D6	29	ASN
52	D6	30	THR
52	D6	32	ASN
52	D6	34	LEU
52	D6	36	LEU
52	D6	37	ARG
52	D6	44	ARG
52	D6	45	LYS
52	D6	46	HIS
52	D6	49	HIS
52	D6	53	LYS
53	D7	1	MET
53	D7	4	THR
53	D7	8	ASN
53	D7	9	ARG
53	D7	11	LYS
53	D7	24	THR
53	D7	32	LYS
53	D7	43	THR
53	D7	46	VAL
53	D7	48	LYS
53	D7	49	ARG
54	D8	4	MET
54	D8	6	THR
54	D8	14	VAL
54	D8	21	LYS
54	D8	23	VAL
54	D8	40	GLU
54	D8	41	ILE
54	D8	46	ARG
54	D8	50	LEU
54	D8	52	LYS
54	D8	54	GLU
54	D8	57	ARG
54	D8	58	ILE
54	D8	61	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (278) such sidechains are listed below:

Mol	Chain	Res	Type
2	AE	19	HIS
2	AE	146	GLN
2	AE	204	ASN
2	AE	212	GLN
3	AF	104	GLN
3	AF	108	ASN
3	AF	136	GLN
3	AF	162	GLN
3	AF	170	GLN
3	AF	176	HIS
3	AF	181	ASN
4	AG	42	GLN
4	AG	119	GLN
4	AG	123	HIS
4	AG	160	GLN
4	AG	201	GLN
5	AH	20	GLN
5	AH	72	GLN
5	AH	78	HIS
6	AI	18	GLN
6	AI	27	GLN
6	AI	57	GLN
6	AI	64	GLN
7	AJ	148	ASN
9	AL	124	GLN
10	AM	33	GLN
10	AM	56	HIS
10	AM	62	HIS
10	AM	84	GLN
11	AN	62	GLN
11	AN	104	GLN
12	AO	9	GLN
12	AO	49	ASN
12	AO	75	HIS
13	AP	62	ASN
13	AP	92	HIS
13	AP	101	GLN
13	AP	106	ASN
14	AQ	49	HIS
15	AR	37	ASN
15	AR	50	HIS
16	AS	82	GLN
17	AT	16	GLN

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Mol	Chain	Res	Type
17	AT	94	ASN
18	AU	36	ASN
19	AV	23	ASN
19	AV	56	GLN
19	AV	57	HIS
19	AV	65	ASN
19	AV	83	HIS
27	BD	58	HIS
27	BD	116	GLN
27	BD	166	GLN
27	BD	186	HIS
27	BD	198	ASN
27	BD	220	HIS
28	BE	35	GLN
28	BE	55	ASN
28	BE	169	ASN
28	BE	180	ASN
28	BE	192	ASN
29	BF	67	GLN
29	BF	69	HIS
29	BF	169	ASN
29	BF	203	GLN
29	BF	204	ASN
30	BG	26	GLN
30	BG	40	ASN
30	BG	108	ASN
30	BG	121	ASN
30	BG	123	ASN
31	BH	143	GLN
31	BH	147	ASN
31	BH	158	HIS
32	BK	11	ASN
32	BK	139	GLN
33	BM	38	HIS
33	BM	128	HIS
33	BM	131	GLN
33	BM	133	GLN
35	BO	9	ASN
35	BO	27	HIS
35	BO	68	GLN
35	BO	70	GLN
35	BO	84	ASN

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Mol	Chain	Res	Type
35	BO	128	HIS
36	BP	12	GLN
36	BP	13	GLN
37	B0	3	HIS
37	B0	16	HIS
37	B0	23	ASN
38	BQ	61	ASN
39	BR	43	GLN
39	BR	84	GLN
40	B1	44	ASN
40	B1	49	HIS
40	B1	94	ASN
41	B2	11	GLN
41	B2	89	GLN
42	BS	34	ASN
42	BS	40	ASN
42	BS	57	ASN
42	BS	62	HIS
42	BS	102	HIS
42	BS	111	HIS
43	BT	31	HIS
43	BT	55	ASN
43	BT	82	GLN
43	BT	87	GLN
44	BU	6	HIS
45	BV	32	HIS
45	BV	75	ASN
45	BV	132	ASN
45	BV	151	HIS
46	B3	17	GLN
46	B3	35	ASN
46	B3	40	GLN
47	BZ	56	GLN
47	BZ	66	HIS
48	BW	9	GLN
48	BW	38	GLN
48	BW	43	GLN
48	BW	56	GLN
48	BW	65	ASN
49	BX	19	GLN
49	BX	32	GLN
49	BX	46	ASN

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Mol	Chain	Res	Type
49	BX	52	HIS
50	B4	47	GLN
51	B5	4	HIS
51	B5	23	HIS
51	B5	43	HIS
52	B6	49	HIS
53	B7	8	ASN
53	B7	36	GLN
54	B8	35	GLN
54	B8	43	GLN
2	CE	16	HIS
2	CE	78	GLN
3	CF	3	ASN
3	CF	69	HIS
3	CF	98	ASN
3	CF	123	GLN
4	CG	43	HIS
4	CG	62	GLN
4	CG	77	ASN
4	CG	160	GLN
4	CG	201	GLN
5	CH	20	GLN
5	CH	141	GLN
6	CI	32	ASN
6	CI	57	GLN
6	CI	100	ASN
7	CJ	37	ASN
7	CJ	86	GLN
8	CK	82	HIS
9	CL	31	GLN
9	CL	34	ASN
9	CL	89	ASN
9	CL	124	GLN
10	CM	13	HIS
10	CM	56	HIS
11	CN	38	ASN
11	CN	62	GLN
11	CN	104	GLN
11	CN	117	ASN
12	CO	8	ASN
12	CO	49	ASN
12	CO	75	HIS

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Mol	Chain	Res	Type
12	CO	80	HIS
13	CP	12	ASN
15	CR	37	ASN
15	CR	46	HIS
16	CS	16	HIS
16	CS	76	GLN
16	CS	82	GLN
17	CT	26	GLN
19	CV	14	HIS
19	CV	47	HIS
19	CV	56	GLN
19	CV	57	HIS
20	CW	16	HIS
20	CW	26	ASN
20	CW	73	HIS
27	DD	44	ASN
27	DD	58	HIS
27	DD	96	HIS
27	DD	143	HIS
27	DD	166	GLN
27	DD	186	HIS
27	DD	198	ASN
28	DE	35	GLN
28	DE	48	GLN
28	DE	60	ASN
28	DE	66	HIS
28	DE	143	ASN
28	DE	180	ASN
28	DE	192	ASN
29	DF	40	GLN
29	DF	169	ASN
29	DF	182	ASN
30	DG	27	ASN
30	DG	40	ASN
30	DG	41	GLN
30	DG	58	GLN
31	DH	147	ASN
31	DH	158	HIS
32	DK	54	GLN
32	DK	104	GLN
32	DK	105	HIS
32	DK	139	GLN

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Mol	Chain	Res	Type
33	DM	45	ASN
33	DM	69	GLN
33	DM	101	HIS
33	DM	130	HIS
33	DM	133	GLN
34	DN	5	GLN
34	DN	82	ASN
35	DO	35	HIS
35	DO	68	GLN
35	DO	128	HIS
36	DP	13	GLN
36	DP	123	HIS
37	D0	11	ASN
37	D0	13	HIS
37	D0	23	ASN
37	D0	24	GLN
37	D0	61	HIS
38	DQ	61	ASN
38	DQ	95	HIS
39	DR	79	HIS
39	DR	90	GLN
39	DR	136	GLN
40	D1	49	HIS
40	D1	71	GLN
40	D1	75	ASN
40	D1	81	HIS
41	D2	11	GLN
41	D2	64	HIS
41	D2	87	HIS
41	D2	89	GLN
42	DS	57	ASN
42	DS	60	ASN
42	DS	62	HIS
42	DS	102	HIS
43	DT	31	HIS
43	DT	41	ASN
43	DT	55	ASN
43	DT	82	GLN
43	DT	87	GLN
44	DU	43	ASN
45	DV	30	ASN
45	DV	34	ASN

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Mol	Chain	Res	Type
45	DV	50	GLN
45	DV	65	GLN
45	DV	75	ASN
45	DV	121	HIS
45	DV	132	ASN
46	D3	29	GLN
46	D3	50	ASN
46	D3	70	GLN
47	DZ	56	GLN
47	DZ	66	HIS
48	DW	9	GLN
48	DW	65	ASN
49	DX	19	GLN
49	DX	33	GLN
49	DX	52	HIS
50	D4	40	HIS
50	D4	47	GLN
50	D4	60	GLN
51	D5	23	HIS
51	D5	43	HIS
52	D6	20	ASN
52	D6	29	ASN
53	D7	8	ASN
53	D7	36	GLN
54	D8	35	GLN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1505/1506 (99%)	377 (25%)	32 (2%)
1	CA	1505/1506 (99%)	410 (27%)	41 (2%)
22	AB	86/87 (98%)	40 (46%)	5 (5%)
22	CB	86/87 (98%)	46 (53%)	2 (2%)
23	AC	77/77 (100%)	23 (29%)	6 (7%)
23	AD	76/77 (98%)	28 (36%)	1 (1%)
23	CC	77/77 (100%)	21 (27%)	5 (6%)
23	CD	76/77 (98%)	26 (34%)	1 (1%)
24	A1	9/10 (90%)	3 (33%)	1 (11%)
24	C1	9/10 (90%)	3 (33%)	0
25	BA	2911/2912 (99%)	715 (24%)	57 (1%)
25	DA	2905/2912 (99%)	766 (26%)	57 (1%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
26	BB	121/122 (99%)	30 (24%)	0
26	DB	121/122 (99%)	39 (32%)	0
All	All	9564/9582 (99%)	2527 (26%)	208 (2%)

All (2527) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	7	G
1	AA	8	A
1	AA	32	A
1	AA	33	A
1	AA	39	G
1	AA	48	C
1	AA	49	U
1	AA	50	A
1	AA	51	A
1	AA	54	C
1	AA	56	U
1	AA	61	G
1	AA	65	U
1	AA	66	G
1	AA	76	G
1	AA	78	G
1	AA	80	G
1	AA	81	G
1	AA	84	U
1	AA	85	U
1	AA	86	U
1	AA	87	A
1	AA	88	C
1	AA	89	U
1	AA	90	C
1	AA	91	C
1	AA	92	G
1	AA	95	G
1	AA	99	C
1	AA	101	A
1	AA	116	A
1	AA	119	A
1	AA	120	A
1	AA	121	C

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Mol	Chain	Res	Type
1	AA	123	C
1	AA	131	C
1	AA	143	A
1	AA	144	G
1	AA	154	C
1	AA	157	G
1	AA	158	G
1	AA	161	A
1	AA	163	C
1	AA	164	U
1	AA	168	G
1	AA	171	A
1	AA	173	U
1	AA	174	C
1	AA	188	U
1	AA	189	U
1	AA	190	G
1	AA	195	A
1	AA	197	A
1	AA	199	G
1	AA	201	C
1	AA	208	U
1	AA	209	U
1	AA	210	U
1	AA	216	G
1	AA	226	G
1	AA	243	A
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	262	A
1	AA	266	G
1	AA	267	C
1	AA	268	C
1	AA	270	A
1	AA	281	G
1	AA	289	G
1	AA	313	A
1	AA	321	A
1	AA	328	C
1	AA	330	C

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Mol	Chain	Res	Type
1	AA	332	G
1	AA	341	C
1	AA	342	C
1	AA	343	U
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	365	U
1	AA	367	U
1	AA	372	C
1	AA	384	G
1	AA	390	C
1	AA	397	A
1	AA	398	C
1	AA	406	G
1	AA	411	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	415	A
1	AA	419	C
1	AA	422	C
1	AA	424	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	452	A
1	AA	466	C
1	AA	467	G
1	AA	485	G
1	AA	487	A
1	AA	496	A
1	AA	497	U
1	AA	505	G
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	521	G

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Mol	Chain	Res	Type
1	AA	524	G
1	AA	527	G
1	AA	530	G
1	AA	531	U
1	AA	533	A
1	AA	534	U
1	AA	536	C
1	AA	545	C
1	AA	547	A
1	AA	559	A
1	AA	561	U
1	AA	562	C
1	AA	563	A
1	AA	572	A
1	AA	573	A
1	AA	576	G
1	AA	577	G
1	AA	579	G
1	AA	596	C
1	AA	606	G
1	AA	607	A
1	AA	608	A
1	AA	609	A
1	AA	616	G
1	AA	617	G
1	AA	619	U
1	AA	622	A
1	AA	623	C
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	633	G
1	AA	639	G
1	AA	646	U
1	AA	651	C
1	AA	653	A
1	AA	665	A
1	AA	666	G
1	AA	687	A
1	AA	688	G
1	AA	701	C
1	AA	704	A

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Mol	Chain	Res	Type
1	AA	723	U
1	AA	724	G
1	AA	731	G
1	AA	747	C
1	AA	748	C
1	AA	749	C
1	AA	751	U
1	AA	755	G
1	AA	766	A
1	AA	767	A
1	AA	773	G
1	AA	774	G
1	AA	777	A
1	AA	787	A
1	AA	792	A
1	AA	793	U
1	AA	794	A
1	AA	802	A
1	AA	805	C
1	AA	813	U
1	AA	815	A
1	AA	817	C
1	AA	820	U
1	AA	821	G
1	AA	827	U
1	AA	828	A
1	AA	841	U
1	AA	842	C
1	AA	843	U
1	AA	848	C
1	AA	857	C
1	AA	859	A
1	AA	864	A
1	AA	871	U
1	AA	872	A
1	AA	884	U
1	AA	887	G
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C

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Mol	Chain	Res	Type
1	AA	935	A
1	AA	936	C
1	AA	939	G
1	AA	940	C
1	AA	941	G
1	AA	960	U
1	AA	969	A
1	AA	971	G
1	AA	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	995	C
1	AA	1002	G
1	AA	1003	G
1	AA	1004	A
1	AA	1006	C
1	AA	1009	G
1	AA	1017	G
1	AA	1020	U
1	AA	1021	G
1	AA	1024	G
1	AA	1025	U
1	AA	1026	G
1	AA	1027	C
1	AA	1028	C
1	AA	1029	G
1	AA	1032(A)	G
1	AA	1036	G
1	AA	1037	C
1	AA	1038	C
1	AA	1039	C
1	AA	1040	U
1	AA	1042	G
1	AA	1054	C
1	AA	1055	A

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Mol	Chain	Res	Type
1	AA	1065	U
1	AA	1066	C
1	AA	1078	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1103	C
1	AA	1113	C
1	AA	1123	A
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1127	G
1	AA	1129	C
1	AA	1131	G
1	AA	1132	C
1	AA	1133	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1146	A
1	AA	1151	A
1	AA	1152	A
1	AA	1157	A
1	AA	1158	C
1	AA	1159	U
1	AA	1160	G
1	AA	1165	C
1	AA	1170	A
1	AA	1172	C
1	AA	1177	G
1	AA	1178	G
1	AA	1179	A
1	AA	1181	G
1	AA	1182	G
1	AA	1183	A
1	AA	1186	G
1	AA	1187	G
1	AA	1188	A

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Mol	Chain	Res	Type
1	AA	1193	G
1	AA	1194	U
1	AA	1195	C
1	AA	1196	U
1	AA	1197	G
1	AA	1201	A
1	AA	1212	U
1	AA	1213	A
1	AA	1224	G
1	AA	1225	A
1	AA	1227	A
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1270	C
1	AA	1272	G
1	AA	1273	G
1	AA	1275	A
1	AA	1278	U
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1288	A
1	AA	1290	G
1	AA	1291	G
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1313	U
1	AA	1317	C
1	AA	1319	A
1	AA	1322	C
1	AA	1323	G

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Mol	Chain	Res	Type
1	AA	1331	G
1	AA	1334	G
1	AA	1336	C
1	AA	1337	G
1	AA	1346	A
1	AA	1347	G
1	AA	1350	A
1	AA	1353	G
1	AA	1356	G
1	AA	1361	G
1	AA	1363	A
1	AA	1365	G
1	AA	1370	G
1	AA	1373	G
1	AA	1377	A
1	AA	1378	C
1	AA	1381	U
1	AA	1388	C
1	AA	1397	C
1	AA	1398	A
1	AA	1401	G
1	AA	1406	U
1	AA	1416	G
1	AA	1419	G
1	AA	1442	G
1	AA	1443	G
1	AA	1446	A
1	AA	1447	G
1	AA	1449	C
1	AA	1450	U
1	AA	1452	C
1	AA	1453	G
1	AA	1454	G
1	AA	1487	G
1	AA	1492	A
1	AA	1493	A
1	AA	1497	G
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G

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Mol	Chain	Res	Type
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
22	AB	2	C
22	AB	7	G
22	AB	8	U
22	AB	9	G
22	AB	13	G
22	AB	14	A
22	AB	16	U
22	AB	17	U
22	AB	18	G
22	AB	19	G
22	AB	20	U
22	AB	21	A
22	AB	22	G
22	AB	23	A
22	AB	24	C
22	AB	26	C
22	AB	27	G
22	AB	34	U
22	AB	37	G
22	AB	39	U
22	AB	41	G
22	AB	42	U
22	AB	43	A
22	AB	48	C
22	AB	49	C
22	AB	50	A
22	AB	51	A
22	AB	52	U
22	AB	55	G
22	AB	56	G
22	AB	58	U
22	AB	59	U
22	AB	60	A
22	AB	61	C
22	AB	71	U
22	AB	74	C

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Mol	Chain	Res	Type
22	AB	76	U
22	AB	77	C
22	AB	85	C
22	AB	87	A
23	AC	2	G
23	AC	6	G
23	AC	9	G
23	AC	13	C
23	AC	14	A
23	AC	16	C
23	AC	18	C
23	AC	19	G
23	AC	20	G
23	AC	21	U
23	AC	22	A
23	AC	32	G
23	AC	38	A
23	AC	44	A
23	AC	45	A
23	AC	48	U
23	AC	49	C
23	AC	50	G
23	AC	52	C
23	AC	54	G
23	AC	60	A
23	AC	76	C
23	AC	77	A
23	AD	6	G
23	AD	8	U
23	AD	9	G
23	AD	10	G
23	AD	13	C
23	AD	14	A
23	AD	15	G
23	AD	17	C
23	AD	19	G
23	AD	20	G
23	AD	21	U
23	AD	22	A
23	AD	23	G
23	AD	24	C
23	AD	40	C

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Mol	Chain	Res	Type
23	AD	45	A
23	AD	46	G
23	AD	48	U
23	AD	49	C
23	AD	54	G
23	AD	58	A
23	AD	60	A
23	AD	61	U
23	AD	62	C
23	AD	68	C
23	AD	70	C
23	AD	74	A
23	AD	77	A
24	A1	14	U
24	A1	15	U
24	A1	19	U
25	BA	2	G
25	BA	5	A
25	BA	12	U
25	BA	13	A
25	BA	15	G
25	BA	26	G
25	BA	33	U
25	BA	34	C
25	BA	35	G
25	BA	46	C
25	BA	51	G
25	BA	63	U
25	BA	71	A
25	BA	74	A
25	BA	75	G
25	BA	85	G
25	BA	95	G
25	BA	99	U
25	BA	101	G
25	BA	110	G
25	BA	118	A
25	BA	119	A
25	BA	120	U
25	BA	123	G
25	BA	125	G
25	BA	135	G

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Mol	Chain	Res	Type
25	BA	138	G
25	BA	155	C
25	BA	162	U
25	BA	164	U
25	BA	165	U
25	BA	181	A
25	BA	188	G
25	BA	196	A
25	BA	197	A
25	BA	199	A
25	BA	214	G
25	BA	215	G
25	BA	216	A
25	BA	221	A
25	BA	222	A
25	BA	223	A
25	BA	227	A
25	BA	228	A
25	BA	229	A
25	BA	230	U
25	BA	232	G
25	BA	233	A
25	BA	248	G
25	BA	249	C
25	BA	250	G
25	BA	252	G
25	BA	261	G
25	BA	264	C
25	BA	269	U
25	BA	270(I)	G
25	BA	270(K)	C
25	BA	270(L)	U
25	BA	270(M)	U
25	BA	270(N)	G
25	BA	270(P)	C
25	BA	271(C)	U
25	BA	271	G
25	BA	274	G
25	BA	275	G
25	BA	278	A
25	BA	279	C
25	BA	299	A

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Mol	Chain	Res	Type
25	BA	311	A
25	BA	315	G
25	BA	323	G
25	BA	324	A
25	BA	329	G
25	BA	330	A
25	BA	334	C
25	BA	335	C
25	BA	339	U
25	BA	352	G
25	BA	357	A
25	BA	360	G
25	BA	363	G
25	BA	363(E)	U
25	BA	364	C
25	BA	372	G
25	BA	385	C
25	BA	386	G
25	BA	405	U
25	BA	411	G
25	BA	412	A
25	BA	418	G
25	BA	426	C
25	BA	428	A
25	BA	440	G
25	BA	444	C
25	BA	448	U
25	BA	454	A
25	BA	455	C
25	BA	457	A
25	BA	470	A
25	BA	471	A
25	BA	479	A
25	BA	481	G
25	BA	482	A
25	BA	491	G
25	BA	505	A
25	BA	509	C
25	BA	528	A
25	BA	529	A
25	BA	530	G
25	BA	531	C

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Mol	Chain	Res	Type
25	BA	532	A
25	BA	533	G
25	BA	537	C
25	BA	539	G
25	BA	540	G
25	BA	546	C
25	BA	549	G
25	BA	556	G
25	BA	563	G
25	BA	564	C
25	BA	573	G
25	BA	575	A
25	BA	586	A
25	BA	587	C
25	BA	588	U
25	BA	593	G
25	BA	603	A
25	BA	607	U
25	BA	613	U
25	BA	614	U
25	BA	617	G
25	BA	622	G
25	BA	627	A
25	BA	637	A
25	BA	640	C
25	BA	644	A
25	BA	645	C
25	BA	646	A
25	BA	647	G
25	BA	649	G
25	BA	652	C
25	BA	653	A
25	BA	654(A)	A
25	BA	654(C)	G
25	BA	654(G)	C
25	BA	654(I)	C
25	BA	654(K)	C
25	BA	654(L)	G
25	BA	654(M)	C
25	BA	654(N)	G
25	BA	654(P)	G
25	BA	654(T)	A

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Mol	Chain	Res	Type
25	BA	656	G
25	BA	686	G
25	BA	717	G
25	BA	730	C
25	BA	739	G
25	BA	745	G
25	BA	746	A
25	BA	752	A
25	BA	753	C
25	BA	757	U
25	BA	763	G
25	BA	764	A
25	BA	765	G
25	BA	775	G
25	BA	776	G
25	BA	782	A
25	BA	784	A
25	BA	785	G
25	BA	789	A
25	BA	790	C
25	BA	791	C
25	BA	792	G
25	BA	802	A
25	BA	805	G
25	BA	810	U
25	BA	812	C
25	BA	819	A
25	BA	824	A
25	BA	827	U
25	BA	828	U
25	BA	836	G
25	BA	847	U
25	BA	857	C
25	BA	858	U
25	BA	859	G
25	BA	866	A
25	BA	878	A
25	BA	879	G
25	BA	880	G
25	BA	881	G
25	BA	882	G
25	BA	883	G

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Mol	Chain	Res	Type
25	BA	884	C
25	BA	885	C
25	BA	886	C
25	BA	887	A
25	BA	888	C
25	BA	890	A
25	BA	893	C
25	BA	894	C
25	BA	895	U
25	BA	896	A
25	BA	897	C
25	BA	898	C
25	BA	899	A
25	BA	900	A
25	BA	901	A
25	BA	902	C
25	BA	906	G
25	BA	910	A
25	BA	917	A
25	BA	925	C
25	BA	926	A
25	BA	932	G
25	BA	938	G
25	BA	940	G
25	BA	941	A
25	BA	946	G
25	BA	961	C
25	BA	968	G
25	BA	974	G
25	BA	974(A)	C
25	BA	975	G
25	BA	983	A
25	BA	990	A
25	BA	995	C
25	BA	996	A
25	BA	999	U
25	BA	1003	G
25	BA	1005	C
25	BA	1010	A
25	BA	1011	G
25	BA	1012	U
25	BA	1013	C

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Mol	Chain	Res	Type
25	BA	1015	G
25	BA	1020	A
25	BA	1022	G
25	BA	1023	U
25	BA	1025	G
25	BA	1026	U
25	BA	1027	A
25	BA	1033	U
25	BA	1037	G
25	BA	1044	G
25	BA	1045	A
25	BA	1046	A
25	BA	1047	G
25	BA	1050	A
25	BA	1054	A
25	BA	1055	G
25	BA	1056	G
25	BA	1057	A
25	BA	1060	U
25	BA	1061	U
25	BA	1062	G
25	BA	1066	U
25	BA	1067	A
25	BA	1068	G
25	BA	1070	A
25	BA	1071	G
25	BA	1073	A
25	BA	1075	C
25	BA	1076	C
25	BA	1077	A
25	BA	1078	U
25	BA	1079	C
25	BA	1083	U
25	BA	1084	A
25	BA	1085	A
25	BA	1086	A
25	BA	1087	G
25	BA	1088	A
25	BA	1089	G
25	BA	1090	U
25	BA	1092	C
25	BA	1093	G

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Mol	Chain	Res	Type
25	BA	1095	A
25	BA	1096	A
25	BA	1097	U
25	BA	1102	C
25	BA	1104	C
25	BA	1105	U
25	BA	1106	G
25	BA	1107	G
25	BA	1110	G
25	BA	1111	A
25	BA	1112	G
25	BA	1117	G
25	BA	1122	G
25	BA	1127	A
25	BA	1129	A
25	BA	1130	U
25	BA	1131	G
25	BA	1135	C
25	BA	1136	G
25	BA	1139	G
25	BA	1142	U
25	BA	1142(A)	A
25	BA	1144	G
25	BA	1148	A
25	BA	1149	G
25	BA	1151	G
25	BA	1154	G
25	BA	1155	A
25	BA	1170	G
25	BA	1171	G
25	BA	1176	G
25	BA	1178	C
25	BA	1179	C
25	BA	1180	C
25	BA	1195	G
25	BA	1204	A
25	BA	1205	U
25	BA	1210	A
25	BA	1211	U
25	BA	1218	C
25	BA	1220	A
25	BA	1230	C

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Mol	Chain	Res	Type
25	BA	1241	A
25	BA	1242	A
25	BA	1244	G
25	BA	1253	A
25	BA	1256	G
25	BA	1265	A
25	BA	1269	A
25	BA	1271	G
25	BA	1272	A
25	BA	1273	U
25	BA	1287	A
25	BA	1298	C
25	BA	1300	U
25	BA	1301	A
25	BA	1303	G
25	BA	1312	U
25	BA	1313	U
25	BA	1314	C
25	BA	1328	G
25	BA	1329	U
25	BA	1338	G
25	BA	1341	U
25	BA	1345	C
25	BA	1349	A
25	BA	1352	U
25	BA	1358	G
25	BA	1359	A
25	BA	1360	A
25	BA	1365	A
25	BA	1368	G
25	BA	1377	G
25	BA	1380	G
25	BA	1383	C
25	BA	1384	A
25	BA	1385	G
25	BA	1386	C
25	BA	1388	G
25	BA	1389	G
25	BA	1390	U
25	BA	1391	U
25	BA	1404	C
25	BA	1412	A

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Mol	Chain	Res	Type
25	BA	1416	G
25	BA	1417	C
25	BA	1420	U
25	BA	1421	G
25	BA	1427	A
25	BA	1428	C
25	BA	1437	C
25	BA	1444(A)	A
25	BA	1447	G
25	BA	1449	A
25	BA	1449(A)	G
25	BA	1451	C
25	BA	1453	A
25	BA	1454	U
25	BA	1455	G
25	BA	1458	C
25	BA	1459	G
25	BA	1460	A
25	BA	1461	G
25	BA	1466	G
25	BA	1467	C
25	BA	1470	G
25	BA	1471	A
25	BA	1474	C
25	BA	1475	G
25	BA	1483	G
25	BA	1493	C
25	BA	1494	A
25	BA	1495	A
25	BA	1497	U
25	BA	1504	C
25	BA	1506	C
25	BA	1507	A
25	BA	1508	A
25	BA	1509	C
25	BA	1510	A
25	BA	1511	A
25	BA	1514	U
25	BA	1520	U
25	BA	1522	G
25	BA	1526	G
25	BA	1533	C

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Mol	Chain	Res	Type
25	BA	1534	G
25	BA	1535	U
25	BA	1536	A
25	BA	1537	C
25	BA	1538	G
25	BA	1540	G
25	BA	1543	A
25	BA	1545	A
25	BA	1548	C
25	BA	1554	A
25	BA	1558	A
25	BA	1559	G
25	BA	1560	G
25	BA	1566	A
25	BA	1569	A
25	BA	1578	U
25	BA	1579	A
25	BA	1585	C
25	BA	1586	A
25	BA	1597	A
25	BA	1608	A
25	BA	1609	A
25	BA	1610	A
25	BA	1617	C
25	BA	1618	A
25	BA	1639	U
25	BA	1640	C
25	BA	1641	A
25	BA	1648	C
25	BA	1651	G
25	BA	1654	A
25	BA	1655	A
25	BA	1674	G
25	BA	1678	G
25	BA	1694	C
25	BA	1695	G
25	BA	1700	A
25	BA	1701	A
25	BA	1702	G
25	BA	1717	G
25	BA	1727	U
25	BA	1728	G

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Mol	Chain	Res	Type
25	BA	1729	A
25	BA	1730	U
25	BA	1731	G
25	BA	1732	A
25	BA	1734	C
25	BA	1735	C
25	BA	1743	G
25	BA	1749	A
25	BA	1750	G
25	BA	1754	C
25	BA	1756	G
25	BA	1761	C
25	BA	1762	A
25	BA	1763	G
25	BA	1764	G
25	BA	1773	A
25	BA	1780	A
25	BA	1791	A
25	BA	1798	U
25	BA	1799	G
25	BA	1800	C
25	BA	1801	G
25	BA	1802	A
25	BA	1816	G
25	BA	1819	A
25	BA	1820	U
25	BA	1829	A
25	BA	1835	G
25	BA	1839	G
25	BA	1847	A
25	BA	1858	G
25	BA	1861	G
25	BA	1869	G
25	BA	1870	C
25	BA	1878	G
25	BA	1882	C
25	BA	1885	A
25	BA	1886	C
25	BA	1887	C
25	BA	1889	A
25	BA	1900	A
25	BA	1906	G

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Mol	Chain	Res	Type
25	BA	1914	C
25	BA	1916	A
25	BA	1926	U
25	BA	1929	G
25	BA	1930	G
25	BA	1931	U
25	BA	1936	A
25	BA	1937	A
25	BA	1938	A
25	BA	1955	U
25	BA	1956	U
25	BA	1963	U
25	BA	1967	C
25	BA	1969	A
25	BA	1970	A
25	BA	1971	A
25	BA	1972	A
25	BA	1982	C
25	BA	1984	G
25	BA	1993	U
25	BA	2020	A
25	BA	2023	G
25	BA	2031	A
25	BA	2032	G
25	BA	2033	A
25	BA	2043	C
25	BA	2051	A
25	BA	2055	C
25	BA	2056	G
25	BA	2060	A
25	BA	2061	G
25	BA	2062	A
25	BA	2069	G
25	BA	2096	U
25	BA	2099	U
25	BA	2100	G
25	BA	2111	C
25	BA	2112	G
25	BA	2113	U
25	BA	2114	A
25	BA	2115	G
25	BA	2116	G

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Mol	Chain	Res	Type
25	BA	2118	U
25	BA	2120	G
25	BA	2122	U
25	BA	2126	A
25	BA	2127	G
25	BA	2128	C
25	BA	2129	C
25	BA	2131	G
25	BA	2132	U
25	BA	2133	G
25	BA	2135	A
25	BA	2136	C
25	BA	2139	C
25	BA	2144	U
25	BA	2146	C
25	BA	2148	G
25	BA	2151	G
25	BA	2157	G
25	BA	2158	A
25	BA	2159	G
25	BA	2165	G
25	BA	2166	G
25	BA	2168	G
25	BA	2169	A
25	BA	2170	A
25	BA	2171	A
25	BA	2173	A
25	BA	2176	A
25	BA	2181	G
25	BA	2185	C
25	BA	2189	U
25	BA	2190	G
25	BA	2191	G
25	BA	2192	G
25	BA	2198	A
25	BA	2205	C
25	BA	2210	G
25	BA	2211	G
25	BA	2212	A
25	BA	2213	U
25	BA	2215	G
25	BA	2225	A

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Mol	Chain	Res	Type
25	BA	2226	C
25	BA	2238	G
25	BA	2239	G
25	BA	2262	U
25	BA	2263	C
25	BA	2264	C
25	BA	2269	A
25	BA	2275	C
25	BA	2283	C
25	BA	2287	A
25	BA	2304	G
25	BA	2307	G
25	BA	2308	G
25	BA	2309	A
25	BA	2310	A
25	BA	2311	A
25	BA	2319	G
25	BA	2320	A
25	BA	2321	G
25	BA	2325	G
25	BA	2327	A
25	BA	2334	G
25	BA	2336	A
25	BA	2342	C
25	BA	2343	C
25	BA	2346	A
25	BA	2347	C
25	BA	2350	C
25	BA	2352	A
25	BA	2360	A
25	BA	2377	A
25	BA	2379	G
25	BA	2383	G
25	BA	2385	C
25	BA	2394	C
25	BA	2402	C
25	BA	2403	C
25	BA	2406	U
25	BA	2408	U
25	BA	2410	G
25	BA	2423	U
25	BA	2425	A

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Mol	Chain	Res	Type
25	BA	2428	G
25	BA	2429	G
25	BA	2430	A
25	BA	2434	A
25	BA	2435	A
25	BA	2439	A
25	BA	2440	C
25	BA	2441	C
25	BA	2448	A
25	BA	2468	G
25	BA	2474	C
25	BA	2476	A
25	BA	2478	A
25	BA	2487	G
25	BA	2498	C
25	BA	2502	G
25	BA	2504	U
25	BA	2505	G
25	BA	2506	U
25	BA	2518	A
25	BA	2525	G
25	BA	2529	G
25	BA	2554	U
25	BA	2566	A
25	BA	2567	G
25	BA	2573	C
25	BA	2582	G
25	BA	2584	U
25	BA	2599	G
25	BA	2601	C
25	BA	2602	A
25	BA	2609	U
25	BA	2610	C
25	BA	2611	U
25	BA	2612	C
25	BA	2613	U
25	BA	2614	A
25	BA	2615	U
25	BA	2629	A
25	BA	2630	G
25	BA	2636	U
25	BA	2641	G

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Mol	Chain	Res	Type
25	BA	2654	A
25	BA	2665	A
25	BA	2666	C
25	BA	2673	G
25	BA	2682	U
25	BA	2683	C
25	BA	2689	U
25	BA	2690	C
25	BA	2691	C
25	BA	2701	C
25	BA	2702	U
25	BA	2703	C
25	BA	2707	G
25	BA	2712	U
25	BA	2712(A)	A
25	BA	2713	A
25	BA	2714	G
25	BA	2726	U
25	BA	2733	A
25	BA	2734	A
25	BA	2744	G
25	BA	2752	C
25	BA	2755	C
25	BA	2757	A
25	BA	2758	A
25	BA	2764	A
25	BA	2765	A
25	BA	2766	G
25	BA	2778	A
25	BA	2779	U
25	BA	2789	C
25	BA	2790	A
25	BA	2791	C
25	BA	2794	C
25	BA	2795	G
25	BA	2797	U
25	BA	2798	C
25	BA	2799	A
25	BA	2803	C
25	BA	2805	G
25	BA	2807	G
25	BA	2808	U

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Mol	Chain	Res	Type
25	BA	2818	G
25	BA	2820	A
25	BA	2821	A
25	BA	2823	A
25	BA	2830	G
25	BA	2833	G
25	BA	2834	G
25	BA	2849	U
25	BA	2850	A
25	BA	2851	A
25	BA	2864	G
25	BA	2872	G
25	BA	2891	G
25	BA	2892	A
25	BA	2894	G
25	BA	2899	G
25	BA	2901	C
26	BB	1	U
26	BB	4	C
26	BB	7	G
26	BB	12	C
26	BB	13	A
26	BB	15	A
26	BB	21	G
26	BB	31	C
26	BB	32	C
26	BB	35	U
26	BB	38	C
26	BB	41	U
26	BB	42	C
26	BB	44	G
26	BB	45	A
26	BB	50	G
26	BB	52	A
26	BB	53	A
26	BB	56	G
26	BB	65	C
26	BB	72	G
26	BB	73	A
26	BB	74	U
26	BB	81	G
26	BB	82	G

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Mol	Chain	Res	Type
26	BB	89	G
26	BB	95	U
26	BB	96	G
26	BB	105	G
26	BB	109	G
1	CA	7	G
1	CA	9	G
1	CA	22	G
1	CA	26	A
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	54	C
1	CA	64	G
1	CA	65	U
1	CA	66	G
1	CA	73	G
1	CA	78	G
1	CA	79	G
1	CA	81	G
1	CA	84	U
1	CA	85	U
1	CA	86	U
1	CA	87	A
1	CA	90	C
1	CA	91	C
1	CA	92	G
1	CA	95	G
1	CA	101	A
1	CA	115	G
1	CA	116	A
1	CA	121	C
1	CA	131	C
1	CA	144	G
1	CA	161	A
1	CA	163	C
1	CA	169	C
1	CA	174	C
1	CA	182	U

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Mol	Chain	Res	Type
1	CA	186	C
1	CA	187	C
1	CA	188	U
1	CA	189	U
1	CA	190	G
1	CA	191(A)	G
1	CA	191(B)	G
1	CA	191(D)	U
1	CA	195	A
1	CA	197	A
1	CA	198	G
1	CA	208	U
1	CA	209	U
1	CA	210	U
1	CA	216	G
1	CA	226	G
1	CA	231	G
1	CA	240	C
1	CA	241	C
1	CA	243	A
1	CA	244	U
1	CA	245	C
1	CA	247	G
1	CA	250	A
1	CA	251	G
1	CA	253	U
1	CA	266	G
1	CA	267	C
1	CA	269	C
1	CA	271	C
1	CA	274	A
1	CA	279	A
1	CA	280	C
1	CA	281	G
1	CA	289	G
1	CA	298	A
1	CA	321	A
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	340	U
1	CA	345	C

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Mol	Chain	Res	Type
1	CA	346	G
1	CA	347	G
1	CA	350	G
1	CA	351	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	356	A
1	CA	367	U
1	CA	372	C
1	CA	397	A
1	CA	398	C
1	CA	406	G
1	CA	411	A
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	421	U
1	CA	422	C
1	CA	423	G
1	CA	429	U
1	CA	435	C
1	CA	439	A
1	CA	445	G
1	CA	451	A
1	CA	452	A
1	CA	465	A
1	CA	466	C
1	CA	467	G
1	CA	476	G
1	CA	478	A
1	CA	482	A
1	CA	484	G
1	CA	485	G
1	CA	486	U
1	CA	496	A
1	CA	497	U
1	CA	498	A
1	CA	500	G
1	CA	504	C
1	CA	505	G
1	CA	506	G

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Mol	Chain	Res	Type
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	513	C
1	CA	517	G
1	CA	518	C
1	CA	519	C
1	CA	521	G
1	CA	527	G
1	CA	530	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	535	A
1	CA	536	C
1	CA	544	G
1	CA	547	A
1	CA	553	A
1	CA	559	A
1	CA	561	U
1	CA	562	C
1	CA	564	C
1	CA	572	A
1	CA	573	A
1	CA	576	G
1	CA	601	C
1	CA	618	C
1	CA	620	C
1	CA	621	A
1	CA	629	G
1	CA	630	G
1	CA	631	G
1	CA	632	A
1	CA	633	G
1	CA	634	C
1	CA	641	U
1	CA	651	C
1	CA	653	A
1	CA	656	C
1	CA	661	G
1	CA	665	A
1	CA	685	G

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Mol	Chain	Res	Type
1	CA	686	U
1	CA	687	A
1	CA	688	G
1	CA	702	A
1	CA	703	G
1	CA	704	A
1	CA	707	C
1	CA	720	C
1	CA	721	G
1	CA	724	G
1	CA	731	G
1	CA	749	C
1	CA	755	G
1	CA	773	G
1	CA	777	A
1	CA	778	G
1	CA	792	A
1	CA	793	U
1	CA	794	A
1	CA	799	G
1	CA	800	G
1	CA	801	U
1	CA	802	A
1	CA	813	U
1	CA	816	A
1	CA	817	C
1	CA	819	A
1	CA	820	U
1	CA	821	G
1	CA	827	U
1	CA	828	A
1	CA	836	G
1	CA	841	U
1	CA	842	C
1	CA	843	U
1	CA	848	C
1	CA	859	A
1	CA	870	U
1	CA	871	U
1	CA	885	G
1	CA	887	G
1	CA	889	A

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Mol	Chain	Res	Type
1	CA	913	A
1	CA	914	A
1	CA	915	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	936	C
1	CA	956	U
1	CA	958	A
1	CA	960	U
1	CA	961	U
1	CA	966	G
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	972	C
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	981	U
1	CA	982	U
1	CA	988	G
1	CA	989	C
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	994	A
1	CA	995	C
1	CA	1004	A
1	CA	1005	A
1	CA	1006	C
1	CA	1009	G
1	CA	1013	G
1	CA	1014	A
1	CA	1016	A
1	CA	1022	G
1	CA	1024	G
1	CA	1025	U

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Mol	Chain	Res	Type
1	CA	1027	C
1	CA	1028	C
1	CA	1028(B)	C
1	CA	1029	G
1	CA	1030	C
1	CA	1032(A)	G
1	CA	1032(B)	G
1	CA	1036	G
1	CA	1039	C
1	CA	1040	U
1	CA	1042	G
1	CA	1045	C
1	CA	1046	A
1	CA	1052	U
1	CA	1053	G
1	CA	1054	C
1	CA	1055	A
1	CA	1066	C
1	CA	1067	A
1	CA	1068	G
1	CA	1081	G
1	CA	1084	G
1	CA	1086	U
1	CA	1092	A
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1106	G
1	CA	1113	C
1	CA	1118	C
1	CA	1122	U
1	CA	1123	A
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1127	G
1	CA	1128	C
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1133	G
1	CA	1136	U

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Mol	Chain	Res	Type
1	CA	1137	C
1	CA	1139	G
1	CA	1146	A
1	CA	1147	C
1	CA	1152	A
1	CA	1154	G
1	CA	1157	A
1	CA	1158	C
1	CA	1159	U
1	CA	1160	G
1	CA	1171	G
1	CA	1178	G
1	CA	1179	A
1	CA	1180	A
1	CA	1181	G
1	CA	1182	G
1	CA	1183	A
1	CA	1184	G
1	CA	1185	G
1	CA	1187	G
1	CA	1196	U
1	CA	1201	A
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1220	G
1	CA	1223	C
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1228	C
1	CA	1232	U
1	CA	1235	U
1	CA	1238	A
1	CA	1240	U
1	CA	1241	G
1	CA	1252	A
1	CA	1256	A
1	CA	1257	U
1	CA	1258	G
1	CA	1260	C
1	CA	1262	C

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Mol	Chain	Res	Type
1	CA	1269	A
1	CA	1270	C
1	CA	1275	A
1	CA	1278	U
1	CA	1280	A
1	CA	1286	A
1	CA	1287	A
1	CA	1288	A
1	CA	1290	G
1	CA	1291	G
1	CA	1297	C
1	CA	1298	C
1	CA	1299	A
1	CA	1300	G
1	CA	1301	U
1	CA	1303	C
1	CA	1305	G
1	CA	1317	C
1	CA	1319	A
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1326	C
1	CA	1331	G
1	CA	1338	G
1	CA	1346	A
1	CA	1347	G
1	CA	1349	A
1	CA	1350	A
1	CA	1352	C
1	CA	1353	G
1	CA	1362(A)	C
1	CA	1364	U
1	CA	1368	G
1	CA	1370	G
1	CA	1379	G
1	CA	1382	C
1	CA	1391	U
1	CA	1392	G
1	CA	1397	C
1	CA	1398	A
1	CA	1400	C

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Mol	Chain	Res	Type
1	CA	1401	G
1	CA	1402	C
1	CA	1403	C
1	CA	1404	C
1	CA	1406	U
1	CA	1416	G
1	CA	1417	G
1	CA	1419	G
1	CA	1439	C
1	CA	1442	G
1	CA	1443	G
1	CA	1446	A
1	CA	1447	G
1	CA	1450	U
1	CA	1451	A
1	CA	1453	G
1	CA	1454	G
1	CA	1478	C
1	CA	1479	C
1	CA	1487	G
1	CA	1492	A
1	CA	1494	G
1	CA	1497	G
1	CA	1499	A
1	CA	1502	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1517	G
1	CA	1519	A
1	CA	1520	G
1	CA	1528	U
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
22	CB	2	C
22	CB	6	G
22	CB	7	G
22	CB	8	U
22	CB	9	G

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Mol	Chain	Res	Type
22	CB	10	G
22	CB	11	U
22	CB	14	A
22	CB	17	U
22	CB	18	G
22	CB	19	G
22	CB	20	U
22	CB	21	A
22	CB	22	G
22	CB	23	A
22	CB	24	C
22	CB	25	A
22	CB	26	C
22	CB	27	G
22	CB	34	U
22	CB	37	G
22	CB	39	U
22	CB	41	G
22	CB	42	U
22	CB	43	A
22	CB	45	U
22	CB	46	G
22	CB	47	C
22	CB	48	C
22	CB	49	C
22	CB	50	A
22	CB	51	A
22	CB	52	U
22	CB	55	G
22	CB	56	G
22	CB	60	A
22	CB	66	U
22	CB	67	C
22	CB	70	G
22	CB	71	U
22	CB	72	C
22	CB	74	C
22	CB	83	U
22	CB	85	C
22	CB	86	C
22	CB	87	A
23	CC	2	G

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Mol	Chain	Res	Type
23	CC	8	U
23	CC	9	G
23	CC	16	C
23	CC	17	C
23	CC	18	C
23	CC	19	G
23	CC	20	G
23	CC	21	U
23	CC	22	A
23	CC	23	G
23	CC	31	G
23	CC	43	G
23	CC	48	U
23	CC	49	C
23	CC	50	G
23	CC	53	G
23	CC	61	U
23	CC	68	C
23	CC	69	C
23	CC	77	A
23	CD	9	G
23	CD	14	A
23	CD	15	G
23	CD	16	C
23	CD	17	C
23	CD	19	G
23	CD	21	U
23	CD	23	G
23	CD	24	C
23	CD	25	U
23	CD	28	U
23	CD	36	A
23	CD	39	A
23	CD	40	C
23	CD	46	G
23	CD	48	U
23	CD	49	C
23	CD	54	G
23	CD	57	C
23	CD	59	A
23	CD	60	A
23	CD	62	C

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Mol	Chain	Res	Type
23	CD	68	C
23	CD	70	C
23	CD	74	A
23	CD	77	A
24	C1	14	U
24	C1	19	U
24	C1	22	U
25	DA	5	A
25	DA	34	C
25	DA	36	G
25	DA	46	C
25	DA	49	A
25	DA	50	U
25	DA	55	G
25	DA	58	G
25	DA	60	G
25	DA	69	C
25	DA	71	A
25	DA	72	U
25	DA	74	A
25	DA	75	G
25	DA	90	U
25	DA	91	A
25	DA	94	G
25	DA	95	G
25	DA	101	G
25	DA	102	G
25	DA	118	A
25	DA	119	A
25	DA	120	U
25	DA	125	G
25	DA	129	C
25	DA	138	G
25	DA	148	C
25	DA	153	C
25	DA	154	G
25	DA	155	C
25	DA	172	C
25	DA	173	G
25	DA	174	C
25	DA	175	G
25	DA	182	A

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Mol	Chain	Res	Type
25	DA	196	A
25	DA	197	A
25	DA	199	A
25	DA	205	G
25	DA	206	U
25	DA	214	G
25	DA	215	G
25	DA	216	A
25	DA	217	G
25	DA	221	A
25	DA	222	A
25	DA	225	A
25	DA	228	A
25	DA	229	A
25	DA	233	A
25	DA	239	U
25	DA	245	G
25	DA	248	G
25	DA	249	C
25	DA	250	G
25	DA	252	G
25	DA	270(K)	C
25	DA	270(L)	U
25	DA	270(M)	U
25	DA	270(O)	U
25	DA	270(Q)	C
25	DA	271(C)	U
25	DA	271	G
25	DA	273(C)	C
25	DA	273(D)	C
25	DA	274	G
25	DA	275	G
25	DA	276	A
25	DA	278	A
25	DA	279	C
25	DA	285	C
25	DA	287	C
25	DA	289	A
25	DA	298	G
25	DA	308	G
25	DA	311	A
25	DA	312	G

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Mol	Chain	Res	Type
25	DA	317	G
25	DA	324	A
25	DA	329	G
25	DA	330	A
25	DA	331	A
25	DA	333	G
25	DA	334	C
25	DA	342	G
25	DA	352	G
25	DA	354	G
25	DA	356	G
25	DA	363	G
25	DA	363(B)	G
25	DA	363(E)	U
25	DA	363(F)	A
25	DA	386	G
25	DA	394	A
25	DA	395	U
25	DA	396	G
25	DA	399	G
25	DA	405	U
25	DA	406	G
25	DA	411	G
25	DA	412	A
25	DA	414	C
25	DA	419	C
25	DA	428	A
25	DA	443	A
25	DA	444	C
25	DA	448	U
25	DA	454	A
25	DA	455	C
25	DA	457	A
25	DA	459	U
25	DA	470	A
25	DA	481	G
25	DA	485	C
25	DA	501	A
25	DA	504	U
25	DA	505	A
25	DA	508	G
25	DA	509	C

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Mol	Chain	Res	Type
25	DA	512	G
25	DA	529	A
25	DA	530	G
25	DA	531	C
25	DA	532	A
25	DA	533	G
25	DA	543	C
25	DA	547	A
25	DA	556	G
25	DA	557	U
25	DA	563	G
25	DA	567	A
25	DA	568	U
25	DA	573	G
25	DA	575	A
25	DA	584	C
25	DA	588	U
25	DA	593	G
25	DA	595	C
25	DA	603	A
25	DA	607	U
25	DA	609(A)	G
25	DA	614	U
25	DA	617	G
25	DA	620	G
25	DA	621	A
25	DA	622	G
25	DA	627	A
25	DA	637	A
25	DA	644	A
25	DA	645	C
25	DA	646	A
25	DA	647	G
25	DA	650	C
25	DA	651	G
25	DA	654	A
25	DA	654(A)	A
25	DA	654(F)	C
25	DA	654(G)	C
25	DA	654(I)	C
25	DA	654(J)	A
25	DA	654(K)	C

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Mol	Chain	Res	Type
25	DA	654(L)	G
25	DA	654(N)	G
25	DA	654(Q)	C
25	DA	654(R)	C
25	DA	654(T)	A
25	DA	669	G
25	DA	670	A
25	DA	673	C
25	DA	686	G
25	DA	706	A
25	DA	707	G
25	DA	708	C
25	DA	717	G
25	DA	719	C
25	DA	720	C
25	DA	722	A
25	DA	730	C
25	DA	745	G
25	DA	752	A
25	DA	753	C
25	DA	757	U
25	DA	762	U
25	DA	765	G
25	DA	768	G
25	DA	776	G
25	DA	778	G
25	DA	779	U
25	DA	782	A
25	DA	784	A
25	DA	785	G
25	DA	789	A
25	DA	792	G
25	DA	793	A
25	DA	805	G
25	DA	812	C
25	DA	814	C
25	DA	819	A
25	DA	827	U
25	DA	828	U
25	DA	832	G
25	DA	845	G
25	DA	848	G

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Mol	Chain	Res	Type
25	DA	856	C
25	DA	857	C
25	DA	859	G
25	DA	869	G
25	DA	878	A
25	DA	879	G
25	DA	881	G
25	DA	882	G
25	DA	884	C
25	DA	886	C
25	DA	887	A
25	DA	888	C
25	DA	889	C
25	DA	890	A
25	DA	894	C
25	DA	896	A
25	DA	897	C
25	DA	899	A
25	DA	900	A
25	DA	901	A
25	DA	903	C
25	DA	905	U
25	DA	906	G
25	DA	907	U
25	DA	910	A
25	DA	914	C
25	DA	915	C
25	DA	917	A
25	DA	925	C
25	DA	932	G
25	DA	933	A
25	DA	934	G
25	DA	938	G
25	DA	941	A
25	DA	944	G
25	DA	945	A
25	DA	946	G
25	DA	959	A
25	DA	960	A
25	DA	961	C
25	DA	974	G
25	DA	983	A

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Mol	Chain	Res	Type
25	DA	989	G
25	DA	990	A
25	DA	991	C
25	DA	996	A
25	DA	997	G
25	DA	998	C
25	DA	1005	C
25	DA	1012	U
25	DA	1013	C
25	DA	1016	G
25	DA	1020	A
25	DA	1022	G
25	DA	1023	U
25	DA	1024	G
25	DA	1025	G
25	DA	1026	U
25	DA	1033	U
25	DA	1037	G
25	DA	1044	G
25	DA	1045	A
25	DA	1048	A
25	DA	1054	A
25	DA	1057	A
25	DA	1060	U
25	DA	1061	U
25	DA	1062	G
25	DA	1065	U
25	DA	1066	U
25	DA	1067	A
25	DA	1070	A
25	DA	1071	G
25	DA	1072	C
25	DA	1073	A
25	DA	1074	G
25	DA	1076	C
25	DA	1085	A
25	DA	1086	A
25	DA	1087	G
25	DA	1088	A
25	DA	1090	U
25	DA	1093	G
25	DA	1095	A

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Mol	Chain	Res	Type
25	DA	1096	A
25	DA	1098	A
25	DA	1099	G
25	DA	1100	C
25	DA	1105	U
25	DA	1108	U
25	DA	1111	A
25	DA	1112	G
25	DA	1115	G
25	DA	1122	G
25	DA	1127	A
25	DA	1128	A
25	DA	1129	A
25	DA	1130	U
25	DA	1135	C
25	DA	1136	G
25	DA	1137	G
25	DA	1139	G
25	DA	1141	U
25	DA	1142(A)	A
25	DA	1143	A
25	DA	1154	G
25	DA	1155	A
25	DA	1160	G
25	DA	1170	G
25	DA	1171	G
25	DA	1173	G
25	DA	1174	A
25	DA	1175	U
25	DA	1176	G
25	DA	1177	A
25	DA	1178	C
25	DA	1183	G
25	DA	1190	G
25	DA	1204	A
25	DA	1205	U
25	DA	1210	A
25	DA	1211	U
25	DA	1212	G
25	DA	1217	C
25	DA	1220	A
25	DA	1221	C

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Mol	Chain	Res	Type
25	DA	1237	A
25	DA	1245	G
25	DA	1247	A
25	DA	1250	G
25	DA	1253	A
25	DA	1255	U
25	DA	1256	G
25	DA	1269	A
25	DA	1271	G
25	DA	1272	A
25	DA	1273	U
25	DA	1275	A
25	DA	1284	A
25	DA	1287	A
25	DA	1298	C
25	DA	1300	U
25	DA	1301	A
25	DA	1304	C
25	DA	1313	U
25	DA	1314	C
25	DA	1319	G
25	DA	1325	G
25	DA	1329	U
25	DA	1332	G
25	DA	1342	A
25	DA	1347	G
25	DA	1348	G
25	DA	1352	U
25	DA	1359	A
25	DA	1360	A
25	DA	1365	A
25	DA	1368	G
25	DA	1379	A
25	DA	1384	A
25	DA	1385	G
25	DA	1386	C
25	DA	1389	G
25	DA	1390	U
25	DA	1391	U
25	DA	1395	A
25	DA	1397	U
25	DA	1405	U

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Mol	Chain	Res	Type
25	DA	1406	U
25	DA	1407	C
25	DA	1416	G
25	DA	1417	C
25	DA	1419	A
25	DA	1420	U
25	DA	1421	G
25	DA	1427	A
25	DA	1428	C
25	DA	1437	C
25	DA	1443	G
25	DA	1444(A)	A
25	DA	1445	C
25	DA	1449	A
25	DA	1449(A)	G
25	DA	1451	C
25	DA	1460	A
25	DA	1461	G
25	DA	1467	C
25	DA	1471	A
25	DA	1472	A
25	DA	1475	G
25	DA	1482	U
25	DA	1483	G
25	DA	1486	A
25	DA	1488	G
25	DA	1490	A
25	DA	1493	C
25	DA	1506	C
25	DA	1507	A
25	DA	1508	A
25	DA	1509	C
25	DA	1510	A
25	DA	1515	C
25	DA	1522	G
25	DA	1527	G
25	DA	1528	A
25	DA	1534	G
25	DA	1535	U
25	DA	1536	A
25	DA	1537	C
25	DA	1538	G

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Mol	Chain	Res	Type
25	DA	1541	U
25	DA	1543	A
25	DA	1544	C
25	DA	1546	C
25	DA	1547	C
25	DA	1548	C
25	DA	1554	A
25	DA	1558	A
25	DA	1559	G
25	DA	1560	G
25	DA	1566	A
25	DA	1569	A
25	DA	1578	U
25	DA	1580	A
25	DA	1582	C
25	DA	1586	A
25	DA	1587	A
25	DA	1588	C
25	DA	1589	C
25	DA	1596	A
25	DA	1597	A
25	DA	1598	C
25	DA	1608	A
25	DA	1609	A
25	DA	1610	A
25	DA	1616	A
25	DA	1619	G
25	DA	1625	C
25	DA	1639	U
25	DA	1640	C
25	DA	1648	C
25	DA	1654	A
25	DA	1655	A
25	DA	1660	C
25	DA	1661	G
25	DA	1674	G
25	DA	1675	C
25	DA	1678	G
25	DA	1688	U
25	DA	1696	G
25	DA	1700	A
25	DA	1701	A

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Mol	Chain	Res	Type
25	DA	1718	G
25	DA	1725	G
25	DA	1726	G
25	DA	1728	G
25	DA	1729	A
25	DA	1741	C
25	DA	1743	G
25	DA	1756	G
25	DA	1758	G
25	DA	1762	A
25	DA	1763	G
25	DA	1764	G
25	DA	1773	A
25	DA	1780	A
25	DA	1782	C
25	DA	1791	A
25	DA	1800	C
25	DA	1801	G
25	DA	1802	A
25	DA	1812	A
25	DA	1816	G
25	DA	1819	A
25	DA	1820	U
25	DA	1827	C
25	DA	1828	G
25	DA	1829	A
25	DA	1835	G
25	DA	1839	G
25	DA	1847	A
25	DA	1857	G
25	DA	1858	G
25	DA	1861	G
25	DA	1863	G
25	DA	1864	U
25	DA	1869	G
25	DA	1878	G
25	DA	1882	C
25	DA	1883	G
25	DA	1888	G
25	DA	1889	A
25	DA	1896	G
25	DA	1900	A

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Mol	Chain	Res	Type
25	DA	1906	G
25	DA	1909	C
25	DA	1913	A
25	DA	1916	A
25	DA	1917	U
25	DA	1919	A
25	DA	1929	G
25	DA	1930	G
25	DA	1936	A
25	DA	1937	A
25	DA	1938	A
25	DA	1940	U
25	DA	1955	U
25	DA	1956	U
25	DA	1963	U
25	DA	1967	C
25	DA	1968	G
25	DA	1970	A
25	DA	1971	A
25	DA	1972	A
25	DA	1981	A
25	DA	1991	U
25	DA	1993	U
25	DA	1994	C
25	DA	2023	G
25	DA	2031	A
25	DA	2032	G
25	DA	2033	A
25	DA	2036	C
25	DA	2039	C
25	DA	2043	C
25	DA	2049	G
25	DA	2055	C
25	DA	2056	G
25	DA	2059	A
25	DA	2060	A
25	DA	2061	G
25	DA	2062	A
25	DA	2063	C
25	DA	2066	C
25	DA	2067	G
25	DA	2069	G

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Mol	Chain	Res	Type
25	DA	2071	A
25	DA	2082	A
25	DA	2097	C
25	DA	2099	U
25	DA	2100	G
25	DA	2105	C
25	DA	2107	C
25	DA	2108	C
25	DA	2111	C
25	DA	2112	G
25	DA	2113	U
25	DA	2114	A
25	DA	2115	G
25	DA	2116	G
25	DA	2118	U
25	DA	2119	A
25	DA	2120	G
25	DA	2123	G
25	DA	2126	A
25	DA	2127	G
25	DA	2128	C
25	DA	2129	C
25	DA	2130	U
25	DA	2131	G
25	DA	2132	U
25	DA	2133	G
25	DA	2135	A
25	DA	2136	C
25	DA	2137	C
25	DA	2139	C
25	DA	2141	G
25	DA	2145	C
25	DA	2146	C
25	DA	2147	G
25	DA	2148	G
25	DA	2152	G
25	DA	2158	A
25	DA	2164	C
25	DA	2166	G
25	DA	2168	G
25	DA	2169	A
25	DA	2170	A

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Mol	Chain	Res	Type
25	DA	2171	A
25	DA	2172	U
25	DA	2173	A
25	DA	2174	C
25	DA	2175	C
25	DA	2182	G
25	DA	2189	U
25	DA	2190	G
25	DA	2192	G
25	DA	2193	G
25	DA	2198	A
25	DA	2210	G
25	DA	2211	G
25	DA	2212	A
25	DA	2213	U
25	DA	2215	G
25	DA	2225	A
25	DA	2226	C
25	DA	2238	G
25	DA	2239	G
25	DA	2240	C
25	DA	2245	U
25	DA	2246	G
25	DA	2262	U
25	DA	2267	A
25	DA	2272	U
25	DA	2273	A
25	DA	2275	C
25	DA	2276	G
25	DA	2279	G
25	DA	2280	G
25	DA	2282	G
25	DA	2283	C
25	DA	2285	C
25	DA	2286	A
25	DA	2287	A
25	DA	2297	C
25	DA	2298	A
25	DA	2304	G
25	DA	2307	G
25	DA	2308	G
25	DA	2309	A

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Mol	Chain	Res	Type
25	DA	2311	A
25	DA	2312	U
25	DA	2315	G
25	DA	2316	C
25	DA	2319	G
25	DA	2322	A
25	DA	2324	C
25	DA	2325	G
25	DA	2333	A
25	DA	2335	A
25	DA	2337	G
25	DA	2342	C
25	DA	2343	C
25	DA	2346	A
25	DA	2347	C
25	DA	2350	C
25	DA	2383	G
25	DA	2385	C
25	DA	2388	A
25	DA	2391	G
25	DA	2392	A
25	DA	2394	C
25	DA	2400	G
25	DA	2402	C
25	DA	2406	U
25	DA	2407	G
25	DA	2410	G
25	DA	2414	G
25	DA	2422	A
25	DA	2423	U
25	DA	2425	A
25	DA	2429	G
25	DA	2430	A
25	DA	2431	U
25	DA	2434	A
25	DA	2435	A
25	DA	2439	A
25	DA	2440	C
25	DA	2441	C
25	DA	2445	G
25	DA	2447	G
25	DA	2448	A

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Mol	Chain	Res	Type
25	DA	2466	C
25	DA	2469	A
25	DA	2470	G
25	DA	2471	C
25	DA	2472	G
25	DA	2476	A
25	DA	2484	G
25	DA	2487	G
25	DA	2502	G
25	DA	2504	U
25	DA	2505	G
25	DA	2506	U
25	DA	2507	C
25	DA	2518	A
25	DA	2523	G
25	DA	2525	G
25	DA	2529	G
25	DA	2532	G
25	DA	2543	G
25	DA	2553	G
25	DA	2554	U
25	DA	2566	A
25	DA	2567	G
25	DA	2569	G
25	DA	2571	C
25	DA	2572	A
25	DA	2573	C
25	DA	2584	U
25	DA	2585	U
25	DA	2601	C
25	DA	2602	A
25	DA	2603	G
25	DA	2609	U
25	DA	2610	C
25	DA	2611	U
25	DA	2612	C
25	DA	2613	U
25	DA	2615	U
25	DA	2629	A
25	DA	2630	G
25	DA	2655	G
25	DA	2665	A

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Mol	Chain	Res	Type
25	DA	2673	G
25	DA	2682	U
25	DA	2689	U
25	DA	2690	C
25	DA	2703	C
25	DA	2704	C
25	DA	2707	G
25	DA	2712(A)	A
25	DA	2713	A
25	DA	2714	G
25	DA	2726	U
25	DA	2733	A
25	DA	2734	A
25	DA	2739	U
25	DA	2744	G
25	DA	2748	A
25	DA	2750	A
25	DA	2751	G
25	DA	2752	C
25	DA	2754	U
25	DA	2758	A
25	DA	2761	G
25	DA	2762	G
25	DA	2764	A
25	DA	2765	A
25	DA	2766	G
25	DA	2777	G
25	DA	2778	A
25	DA	2779	U
25	DA	2790	A
25	DA	2791	C
25	DA	2794	C
25	DA	2797	U
25	DA	2798	C
25	DA	2799	A
25	DA	2803	C
25	DA	2807	G
25	DA	2808	U
25	DA	2811	G
25	DA	2818	G
25	DA	2820	A
25	DA	2821	A

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Mol	Chain	Res	Type
25	DA	2833	G
25	DA	2834	G
25	DA	2835	A
25	DA	2839	G
25	DA	2845	G
25	DA	2847	U
25	DA	2848	G
25	DA	2849	U
25	DA	2860	A
25	DA	2872	G
25	DA	2873	A
25	DA	2880	C
25	DA	2892	A
25	DA	2893	G
25	DA	2894	G
25	DA	2896	C
25	DA	2897	U
26	DB	0	A
26	DB	3	C
26	DB	8	U
26	DB	9	G
26	DB	13	A
26	DB	15	A
26	DB	16	G
26	DB	24	G
26	DB	25	A
26	DB	26	A
26	DB	28	C
26	DB	29	A
26	DB	30	C
26	DB	31	C
26	DB	32	C
26	DB	40	U
26	DB	42	C
26	DB	44	G
26	DB	45	A
26	DB	46	A
26	DB	47	C
26	DB	65	C
26	DB	73	A
26	DB	74	U
26	DB	75	G

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Mol	Chain	Res	Type
26	DB	81	G
26	DB	82	G
26	DB	88	C
26	DB	89	G
26	DB	89(A)	A
26	DB	90	C
26	DB	100	G
26	DB	101	A
26	DB	105	G
26	DB	108	C
26	DB	109	G
26	DB	112	G
26	DB	115	G
26	DB	119	A

All (208) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	31	G
1	AA	49	U
1	AA	50	A
1	AA	115	G
1	AA	119	A
1	AA	244	U
1	AA	266	G
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	509	A
1	AA	530	G
1	AA	560	U
1	AA	687	A
1	AA	703	G
1	AA	748	C
1	AA	812	C
1	AA	820	U
1	AA	842	C
1	AA	871	U
1	AA	913	A
1	AA	975	A
1	AA	992	U

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Mol	Chain	Res	Type
1	AA	1025	U
1	AA	1027	C
1	AA	1065	U
1	AA	1178	G
1	AA	1285	A
1	AA	1498	U
1	AA	1503	A
1	AA	1504	G
22	AB	18	G
22	AB	19	G
22	AB	20	U
22	AB	23	A
22	AB	71	U
23	AC	1	C
23	AC	19	G
23	AC	20	G
23	AC	21	U
23	AC	48	U
23	AC	61	U
23	AD	13	C
24	A1	14	U
25	BA	74	A
25	BA	196	A
25	BA	222	A
25	BA	229	A
25	BA	270(L)	U
25	BA	271(B)	G
25	BA	271(C)	U
25	BA	404	C
25	BA	587	C
25	BA	654(S)	G
25	BA	685	A
25	BA	752	A
25	BA	764	A
25	BA	856	C
25	BA	881	G
25	BA	974(A)	C
25	BA	1022	G
25	BA	1026	U
25	BA	1060	U
25	BA	1069	A
25	BA	1085	A

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Mol	Chain	Res	Type
25	BA	1130	U
25	BA	1175	U
25	BA	1178	C
25	BA	1210	A
25	BA	1312	U
25	BA	1379	A
25	BA	1427	A
25	BA	1510	A
25	BA	1536	A
25	BA	1558	A
25	BA	1608	A
25	BA	1609	A
25	BA	1617	C
25	BA	1653	G
25	BA	1694	C
25	BA	1762	A
25	BA	1799	G
25	BA	1819	A
25	BA	1899	G
25	BA	1937	A
25	BA	1955	U
25	BA	1992	G
25	BA	2157	G
25	BA	2211	G
25	BA	2346	A
25	BA	2402	C
25	BA	2422	A
25	BA	2428	G
25	BA	2439	A
25	BA	2566	A
25	BA	2610	C
25	BA	2613	U
25	BA	2681	C
25	BA	2689	U
25	BA	2751	G
25	BA	2756	U
1	CA	31	G
1	CA	64	G
1	CA	89	U
1	CA	115	G
1	CA	197	A
1	CA	201	C

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Mol	Chain	Res	Type
1	CA	209	U
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	279	A
1	CA	328	C
1	CA	345	C
1	CA	353	A
1	CA	412	A
1	CA	485	G
1	CA	509	A
1	CA	560	U
1	CA	575	G
1	CA	631	G
1	CA	632	A
1	CA	687	A
1	CA	748	C
1	CA	793	U
1	CA	812	C
1	CA	913	A
1	CA	974	A
1	CA	992	U
1	CA	1067	A
1	CA	1126	U
1	CA	1128	C
1	CA	1183	A
1	CA	1285	A
1	CA	1297	C
1	CA	1300	G
1	CA	1346	A
1	CA	1442	G
1	CA	1449	C
1	CA	1498	U
1	CA	1503	A
1	CA	1529	G
22	CB	21	A
22	CB	48	C
23	CC	1	C
23	CC	19	G
23	CC	20	G
23	CC	21	U
23	CC	48	U

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Mol	Chain	Res	Type
23	CD	13	C
25	DA	49	A
25	DA	71	A
25	DA	74	A
25	DA	101	G
25	DA	128	C
25	DA	148	C
25	DA	196	A
25	DA	204	A
25	DA	205	G
25	DA	278	A
25	DA	654(S)	G
25	DA	669	G
25	DA	685	A
25	DA	752	A
25	DA	856	C
25	DA	877	U
25	DA	886	C
25	DA	888	C
25	DA	893	C
25	DA	945	A
25	DA	990	A
25	DA	1022	G
25	DA	1085	A
25	DA	1171	G
25	DA	1210	A
25	DA	1300	U
25	DA	1420	U
25	DA	1427	A
25	DA	1460	A
25	DA	1558	A
25	DA	1608	A
25	DA	1653	G
25	DA	1762	A
25	DA	1819	A
25	DA	1955	U
25	DA	1992	G
25	DA	2126	A
25	DA	2191	G
25	DA	2210	G
25	DA	2211	G
25	DA	2225	A

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Mol	Chain	Res	Type
25	DA	2275	C
25	DA	2282	G
25	DA	2311	A
25	DA	2406	U
25	DA	2422	A
25	DA	2439	A
25	DA	2447	G
25	DA	2602	A
25	DA	2610	C
25	DA	2611	U
25	DA	2689	U
25	DA	2776	A
25	DA	2778	A
25	DA	2790	A
25	DA	2859	G
25	DA	2893	G

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1700 ligands modelled in this entry, 1700 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

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, 95^{th} 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	1506/1506 (100%)	-0.25	11 (0%) 84 66	50, 98, 179, 234	0
1	CA	1506/1506 (100%)	-0.13	22 (1%) 72 49	62, 109, 181, 235	0
2	AE	237/256 (92%)	0.30	8 (3%) 48 27	103, 136, 174, 185	0
2	CE	237/256 (92%)	0.37	3 (1%) 75 53	114, 151, 185, 201	0
3	AF	205/239 (85%)	0.48	8 (3%) 43 24	84, 111, 144, 153	0
3	CF	206/239 (86%)	1.05	25 (12%) 8 5	118, 138, 166, 174	0
4	AG	208/208 (100%)	0.57	13 (6%) 26 13	80, 105, 129, 142	0
4	CG	208/208 (100%)	0.54	9 (4%) 40 21	77, 102, 123, 136	0
5	AH	151/162 (93%)	0.22	3 (1%) 65 41	74, 97, 118, 152	0
5	CH	151/162 (93%)	0.65	9 (5%) 27 14	91, 112, 134, 153	0
6	AI	101/101 (100%)	0.17	1 (0%) 79 59	76, 99, 115, 137	0
6	CI	101/101 (100%)	-0.28	0 100 100	74, 95, 116, 141	0
7	AJ	155/156 (99%)	0.32	12 (7%) 19 10	99, 114, 145, 155	0
7	CJ	155/156 (99%)	0.40	9 (5%) 29 15	102, 122, 149, 156	0
8	AK	138/138 (100%)	0.04	0 100 100	84, 103, 117, 122	0
8	CK	138/138 (100%)	0.13	1 (0%) 84 66	94, 116, 128, 136	0
9	AL	127/128 (99%)	0.24	8 (6%) 26 13	85, 133, 153, 160	0
9	CL	127/128 (99%)	0.51	11 (8%) 16 8	107, 145, 160, 164	0
10	AM	99/105 (94%)	0.59	9 (9%) 15 8	81, 132, 162, 165	0
10	CM	99/105 (94%)	0.70	8 (8%) 18 9	111, 149, 165, 170	0
11	AN	119/129 (92%)	0.40	7 (5%) 28 14	64, 97, 128, 154	0
11	CN	119/129 (92%)	0.37	8 (6%) 24 12	79, 101, 134, 158	0
12	AO	125/132 (94%)	0.33	4 (3%) 50 29	63, 73, 105, 151	0
12	CO	125/132 (94%)	0.91	15 (12%) 9 5	75, 98, 124, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AP	116/126 (92%)	0.49	9 (7%) 19 10	86, 117, 136, 145	0
13	CP	117/126 (92%)	0.55	7 (5%) 27 14	106, 146, 161, 164	0
14	AQ	60/61 (98%)	0.73	5 (8%) 17 9	86, 101, 115, 126	0
14	CQ	60/61 (98%)	1.29	13 (21%) 2 1	118, 132, 146, 153	0
15	AR	88/89 (98%)	0.12	2 (2%) 61 38	72, 93, 114, 117	0
15	CR	88/89 (98%)	0.14	1 (1%) 78 57	73, 104, 127, 133	0
16	AS	84/88 (95%)	0.36	2 (2%) 59 36	90, 107, 133, 165	0
16	CS	84/88 (95%)	0.06	0 100 100	81, 96, 120, 153	0
17	AT	100/105 (95%)	0.26	4 (4%) 42 23	82, 100, 118, 130	0
17	CT	100/105 (95%)	0.49	6 (6%) 27 14	82, 102, 125, 137	0
18	AU	72/88 (81%)	0.15	1 (1%) 73 51	78, 99, 132, 159	0
18	CU	72/88 (81%)	-0.11	0 100 100	85, 106, 144, 157	0
19	AV	78/93 (83%)	0.05	4 (5%) 33 17	100, 122, 137, 144	0
19	CV	78/93 (83%)	0.40	5 (6%) 25 13	136, 154, 174, 177	0
20	AW	99/106 (93%)	0.53	4 (4%) 42 23	93, 115, 144, 155	0
20	CW	99/106 (93%)	0.40	3 (3%) 52 30	83, 109, 143, 157	0
21	AX	25/27 (92%)	0.47	0 100 100	88, 109, 125, 147	0
21	CX	25/27 (92%)	1.30	2 (8%) 18 9	112, 133, 148, 160	0
22	AB	87/87 (100%)	0.32	6 (6%) 23 12	78, 145, 185, 196	0
22	CB	87/87 (100%)	0.58	11 (12%) 8 5	92, 148, 188, 200	0
23	AC	77/77 (100%)	0.10	2 (2%) 57 34	63, 100, 132, 147	0
23	AD	77/77 (100%)	0.42	5 (6%) 25 13	71, 218, 232, 234	0
23	CC	77/77 (100%)	0.01	1 (1%) 75 53	73, 107, 141, 153	0
23	CD	77/77 (100%)	0.87	10 (12%) 7 4	77, 219, 231, 234	0
24	A1	10/10 (100%)	0.60	3 (30%) 1 1	67, 81, 112, 112	0
24	C1	10/10 (100%)	1.19	3 (30%) 1 1	81, 98, 118, 124	0
25	BA	2912/2912 (100%)	-0.59	17 (0%) 85 69	36, 66, 200, 234	0
25	DA	2907/2912 (99%)	-0.37	11 (0%) 88 76	45, 80, 220, 235	0
26	BB	122/122 (100%)	-0.49	0 100 100	66, 91, 110, 169	0
26	DB	122/122 (100%)	-0.03	2 (1%) 70 47	84, 120, 141, 189	0
27	BD	272/276 (98%)	0.08	8 (2%) 53 31	35, 57, 79, 96	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
27	DD	272/276 (98%)	0.09	11 (4%) 42 23	42, 67, 88, 119	0
28	BE	205/206 (99%)	0.45	10 (4%) 35 18	42, 77, 123, 132	0
28	DE	205/206 (99%)	0.66	25 (12%) 8 5	52, 88, 137, 159	0
29	BF	202/210 (96%)	-0.06	4 (1%) 65 41	38, 70, 108, 123	0
29	DF	208/210 (99%)	0.31	6 (2%) 53 31	48, 94, 152, 175	0
30	BG	181/182 (99%)	0.28	7 (3%) 43 24	81, 101, 130, 142	0
30	DG	181/182 (99%)	0.67	11 (6%) 27 14	112, 135, 155, 162	0
31	BH	170/180 (94%)	0.26	6 (3%) 47 27	74, 104, 121, 146	0
31	DH	170/180 (94%)	0.72	18 (10%) 11 6	148, 188, 209, 218	0
32	BK	146/148 (98%)	0.29	2 (1%) 73 51	69, 121, 137, 142	0
32	DK	146/148 (98%)	0.56	9 (6%) 26 14	77, 120, 143, 150	0
33	BM	138/140 (98%)	0.58	7 (5%) 33 17	57, 81, 116, 129	0
33	DM	138/140 (98%)	0.37	6 (4%) 40 21	71, 102, 133, 143	0
34	BN	122/122 (100%)	-0.06	0 100 100	48, 67, 83, 97	0
34	DN	122/122 (100%)	0.35	2 (1%) 70 47	62, 82, 102, 118	0
35	BO	150/150 (100%)	0.51	11 (7%) 21 11	42, 77, 106, 153	0
35	DO	150/150 (100%)	0.86	23 (15%) 5 3	44, 99, 135, 171	0
36	BP	141/141 (100%)	0.62	14 (9%) 13 7	52, 78, 99, 125	0
36	DP	141/141 (100%)	1.19	26 (18%) 3 2	58, 98, 129, 148	0
37	B0	118/118 (100%)	-0.06	1 (0%) 82 64	50, 76, 94, 110	0
37	D0	117/118 (99%)	-0.02	3 (2%) 57 34	50, 74, 97, 113	0
38	BQ	111/112 (99%)	0.16	5 (4%) 38 20	70, 88, 110, 127	0
38	DQ	111/112 (99%)	0.55	4 (3%) 46 26	83, 117, 139, 159	0
39	BR	137/146 (93%)	0.50	8 (5%) 29 15	60, 82, 134, 163	0
39	DR	137/146 (93%)	0.60	7 (5%) 33 17	69, 93, 154, 174	0
40	B1	117/118 (99%)	0.02	2 (1%) 69 45	44, 70, 101, 132	0
40	D1	117/118 (99%)	-0.02	0 100 100	58, 89, 131, 152	0
41	B2	101/101 (100%)	0.19	4 (3%) 42 23	48, 92, 115, 132	0
41	D2	101/101 (100%)	0.37	5 (4%) 34 18	58, 115, 133, 142	0
42	BS	113/113 (100%)	0.06	4 (3%) 47 27	41, 65, 97, 147	0
42	DS	113/113 (100%)	0.16	3 (2%) 56 33	54, 69, 104, 148	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
43	BT	92/96 (95%)	0.04	3 (3%) 49 28	49, 63, 87, 104	0
43	DT	92/96 (95%)	0.33	6 (6%) 25 13	64, 80, 104, 121	0
44	BU	102/110 (92%)	0.73	13 (12%) 8 5	67, 92, 142, 159	0
44	DU	102/110 (92%)	1.52	31 (30%) 1 1	82, 109, 160, 176	0
45	BV	175/206 (84%)	0.90	21 (12%) 9 5	80, 117, 179, 183	0
45	DV	179/206 (86%)	0.66	3 (1%) 69 45	110, 151, 199, 206	0
46	B3	76/85 (89%)	-0.10	1 (1%) 75 53	52, 68, 83, 117	0
46	D3	77/85 (90%)	0.56	5 (6%) 25 13	65, 86, 108, 141	0
47	BZ	97/98 (98%)	0.53	14 (14%) 6 3	46, 64, 122, 151	0
47	DZ	97/98 (98%)	0.93	16 (16%) 4 3	54, 77, 126, 148	0
48	BW	66/72 (91%)	0.26	6 (9%) 15 8	55, 73, 90, 120	0
48	DW	69/72 (95%)	0.06	2 (2%) 53 31	77, 100, 130, 167	0
49	BX	59/60 (98%)	0.07	0 100 100	60, 75, 105, 120	0
49	DX	59/60 (98%)	0.07	0 100 100	73, 98, 130, 153	0
50	B4	66/71 (92%)	0.40	1 (1%) 72 49	111, 146, 164, 173	0
50	D4	63/71 (88%)	0.74	2 (3%) 50 29	140, 176, 185, 191	0
51	B5	59/60 (98%)	0.73	7 (11%) 9 5	43, 80, 163, 168	0
51	D5	58/60 (96%)	0.73	9 (15%) 5 3	52, 78, 167, 178	0
52	B6	45/54 (83%)	1.61	13 (28%) 1 1	105, 134, 156, 160	0
52	D6	45/54 (83%)	2.19	20 (44%) 0 1	121, 156, 173, 176	0
53	B7	49/49 (100%)	-0.26	2 (4%) 41 23	35, 45, 88, 118	0
53	D7	49/49 (100%)	0.27	5 (10%) 12 6	44, 54, 112, 131	0
54	B8	61/65 (93%)	0.76	8 (13%) 7 4	51, 64, 81, 102	0
54	D8	61/65 (93%)	1.60	20 (32%) 1 1	65, 79, 94, 123	0
All	All	21104/21634 (97%)	0.08	803 (3%) 44 24	35, 96, 177, 235	0

All (803) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
51	B5	2	ALA	12.2
9	CL	115	GLY	11.8
28	BE	79	ARG	8.2
30	BG	80	PHE	7.1
9	CL	127	LYS	6.4

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Mol	Chain	Res	Type	RSRZ
33	BM	138	LEU	6.4
36	DP	86	GLY	6.3
52	D6	23	THR	6.2
44	DU	103	GLY	6.1
44	DU	52	SER	6.0
54	D8	35	GLN	5.9
54	D8	56	GLU	5.7
44	DU	49	VAL	5.6
21	CX	2	GLY	5.5
35	DO	64	LYS	5.5
47	DZ	85	LEU	5.5
36	DP	2	LEU	5.4
13	CP	4	ILE	5.3
35	DO	61	ARG	5.3
25	BA	1536	A	5.2
9	AL	126	SER	5.2
52	D6	22	ALA	5.2
23	CD	35	C	5.1
36	DP	1	MET	5.1
12	CO	64	TYR	5.0
33	BM	134	ARG	4.9
54	D8	34	TRP	4.9
45	BV	175	VAL	4.9
17	AT	101	ARG	4.9
36	DP	89	ASN	4.9
11	CN	128	ALA	4.8
44	DU	45	VAL	4.8
22	CB	87	A	4.8
28	DE	130	GLY	4.8
39	DR	106	SER	4.8
9	CL	116	LYS	4.8
44	BU	99	CYS	4.6
44	DU	77	PRO	4.6
53	D7	48	LYS	4.6
30	BG	82	LEU	4.6
44	BU	103	GLY	4.6
29	BF	207	GLY	4.6
38	DQ	2	ALA	4.6
11	CN	127	LYS	4.5
11	AN	128	ALA	4.5
47	BZ	85	LEU	4.5
47	BZ	97	LEU	4.5

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Mol	Chain	Res	Type	RSRZ
10	CM	58	ASP	4.5
5	AH	22	GLY	4.5
9	AL	114	TYR	4.5
44	DU	98	VAL	4.4
54	D8	49	VAL	4.4
36	DP	102	VAL	4.3
25	BA	163	U	4.3
43	DT	69	TYR	4.3
47	BZ	77	ALA	4.3
39	DR	11	GLU	4.3
44	DU	62	GLU	4.2
24	C1	22	U	4.2
25	BA	2899	G	4.2
12	AO	28	LYS	4.2
54	D8	40	GLU	4.2
31	DH	171	LEU	4.2
44	DU	48	ALA	4.2
3	CF	2	GLY	4.1
17	CT	101	ARG	4.1
46	D3	9	SER	4.1
14	CQ	38	GLY	4.1
28	DE	59	VAL	4.1
39	BR	21	GLU	4.1
22	CB	53	A	4.1
41	D2	80	GLN	4.1
54	B8	37	SER	4.1
9	CL	125	TYR	4.1
36	BP	136	ALA	4.1
22	AB	84	A	4.1
12	CO	26	ALA	4.1
37	B0	109	ALA	4.1
7	CJ	82	GLY	4.1
4	CG	23	GLY	4.0
12	CO	19	ARG	4.0
13	AP	8	GLU	4.0
9	CL	114	TYR	4.0
52	D6	34	LEU	4.0
28	DE	70	ALA	4.0
54	B8	51	ALA	4.0
24	C1	14	U	3.9
17	CT	100	LYS	3.9
47	BZ	98	LEU	3.9

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Mol	Chain	Res	Type	RSRZ
54	D8	53	PRO	3.9
4	AG	31	CYS	3.9
7	CJ	32	ARG	3.9
4	AG	12	CYS	3.9
35	DO	110	TYR	3.9
23	CD	38	A	3.8
19	CV	82	GLY	3.8
35	BO	61	ARG	3.8
36	DP	66	ILE	3.8
53	B7	48	LYS	3.8
44	DU	59	GLY	3.8
35	DO	62	LEU	3.8
47	DZ	98	LEU	3.8
12	CO	28	LYS	3.8
13	CP	8	GLU	3.8
41	B2	36	PRO	3.7
47	BZ	92	LYS	3.7
3	CF	155	GLY	3.7
52	D6	9	LEU	3.7
52	B6	27	LYS	3.7
52	D6	14	THR	3.7
28	BE	204	ALA	3.7
4	AG	26	CYS	3.7
22	CB	52	U	3.7
9	CL	126	SER	3.7
5	CH	16	THR	3.7
31	DH	150	ALA	3.7
3	CF	25	GLY	3.7
11	AN	81	ASP	3.7
54	D8	33	ASN	3.7
45	BV	52	SER	3.6
4	CG	31	CYS	3.6
3	CF	198	VAL	3.6
36	DP	105	GLU	3.6
45	BV	165	VAL	3.6
36	DP	83	MET	3.6
22	AB	83	U	3.6
36	DP	87	LYS	3.6
54	D8	43	GLN	3.6
7	CJ	81	GLY	3.6
22	CB	51	A	3.6
1	AA	1533	C	3.6

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Mol	Chain	Res	Type	RSRZ
47	BZ	93	GLU	3.6
11	CN	129	SER	3.6
11	CN	13	GLN	3.6
30	DG	108	ASN	3.6
12	CO	21	LYS	3.6
23	CD	36	A	3.6
47	DZ	96	LYS	3.6
22	CB	85	C	3.6
51	D5	60	VAL	3.6
35	DO	106	LEU	3.6
39	DR	105	LEU	3.6
1	AA	422	C	3.5
36	DP	92	GLY	3.5
35	DO	48	PRO	3.5
52	D6	13	CYS	3.5
11	AN	129	SER	3.5
54	D8	31	HIS	3.5
14	CQ	39	LEU	3.5
28	DE	78	LEU	3.5
1	CA	1202	G	3.5
27	DD	35	LYS	3.5
36	DP	85	LYS	3.5
52	B6	23	THR	3.5
54	D8	59	LYS	3.5
10	CM	62	HIS	3.5
17	CT	95	TYR	3.4
44	BU	89	PHE	3.4
41	D2	45	THR	3.4
2	AE	107	THR	3.4
54	B8	50	LEU	3.4
10	AM	60	ARG	3.4
38	DQ	60	GLY	3.4
7	AJ	153	HIS	3.4
35	DO	57	THR	3.4
39	DR	104	ASN	3.4
52	D6	53	LYS	3.4
23	CD	37	U	3.4
52	D6	10	LEU	3.4
14	CQ	59	ALA	3.4
52	B6	13	CYS	3.3
12	AO	129	ALA	3.3
52	B6	22	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
9	CL	123	PRO	3.3
7	AJ	84	ASN	3.3
31	DH	99	VAL	3.3
25	DA	34	C	3.3
5	CH	130	ASN	3.3
45	BV	163	LEU	3.3
45	BV	158	PRO	3.3
36	BP	21	THR	3.3
3	CF	161	GLU	3.3
28	DE	204	ALA	3.3
36	DP	140	ALA	3.3
44	DU	44	ILE	3.3
47	BZ	83	GLU	3.3
7	AJ	154	TYR	3.3
10	CM	55	LYS	3.3
24	A1	14	U	3.3
36	BP	91	GLU	3.3
44	DU	29	GLU	3.3
27	BD	41	GLY	3.3
47	DZ	28	GLY	3.3
52	D6	39	TYR	3.2
10	CM	59	SER	3.2
31	DH	29	PRO	3.2
51	B5	3	LYS	3.2
53	D7	47	ARG	3.2
54	D8	58	ILE	3.2
7	AJ	83	ALA	3.2
9	AL	115	GLY	3.2
25	BA	165	U	3.2
22	AB	18	G	3.2
22	CB	54	G	3.2
28	DE	116	VAL	3.2
25	BA	2901	C	3.2
44	DU	96	ILE	3.2
25	DA	171	G	3.2
3	AF	161	GLU	3.2
23	CC	1	C	3.2
33	BM	10	GLU	3.2
7	CJ	153	HIS	3.2
30	DG	20	ILE	3.2
19	CV	7	LYS	3.1
2	CE	102	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
20	CW	50	GLU	3.1
13	CP	7	VAL	3.1
27	BD	29	PRO	3.1
3	AF	162	GLN	3.1
28	DE	205	ALA	3.1
44	DU	63	LYS	3.1
3	CF	52	LEU	3.1
32	DK	11	ASN	3.1
35	DO	65	ARG	3.1
35	BO	60	MET	3.1
35	BO	148	LEU	3.1
44	DU	46	LYS	3.1
51	D5	3	LYS	3.1
33	DM	138	LEU	3.1
10	AM	10	GLY	3.1
25	DA	2901	C	3.1
54	D8	36	LYS	3.1
41	B2	45	THR	3.1
44	DU	58	GLY	3.1
28	BE	203	LYS	3.1
32	DK	125	GLU	3.1
36	DP	93	TYR	3.1
30	DG	82	LEU	3.0
45	BV	164	ALA	3.0
44	DU	61	ILE	3.0
28	BE	205	ALA	3.0
7	AJ	82	GLY	3.0
35	DO	68	GLN	3.0
23	CD	33	C	3.0
13	AP	111	LYS	3.0
27	BD	35	LYS	3.0
25	BA	164	U	3.0
27	BD	272	ALA	3.0
36	DP	88	GLY	3.0
43	BT	94	GLY	3.0
52	D6	29	ASN	3.0
3	CF	130	VAL	3.0
36	DP	65	PHE	3.0
45	BV	60	GLU	3.0
51	D5	59	GLU	3.0
52	B6	10	LEU	3.0
3	AF	193	TYR	3.0

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Mol	Chain	Res	Type	RSRZ
47	DZ	77	ALA	3.0
25	DA	1535	U	3.0
14	AQ	25	VAL	3.0
52	D6	26	ASN	3.0
43	BT	3	THR	3.0
9	CL	128	ARG	3.0
11	AN	127	LYS	3.0
23	CD	1	C	3.0
35	BO	64	LYS	3.0
51	D5	54	GLY	3.0
28	DE	54	GLN	3.0
4	CG	26	CYS	3.0
39	BR	11	GLU	2.9
1	CA	1058	G	2.9
44	DU	53	PRO	2.9
36	BP	32	TYR	2.9
42	BS	111	HIS	2.9
1	AA	1397	C	2.9
29	DF	82	ILE	2.9
36	BP	80	GLU	2.9
42	DS	113	LYS	2.9
47	BZ	96	LYS	2.9
52	B6	42	TRP	2.9
31	DH	155	SER	2.9
51	B5	54	GLY	2.9
30	BG	88	ILE	2.9
13	AP	96	LEU	2.9
30	BG	3	LEU	2.9
25	BA	2798	C	2.9
1	AA	86	U	2.9
39	BR	4	GLY	2.9
44	BU	52	SER	2.9
46	D3	36	ILE	2.9
9	CL	124	GLN	2.9
43	DT	3	THR	2.9
12	CO	129	ALA	2.9
30	DG	50	ALA	2.9
36	DP	80	GLU	2.9
44	DU	76	CYS	2.9
44	DU	79	CYS	2.9
45	DV	164	ALA	2.9
52	D6	42	TRP	2.9

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Mol	Chain	Res	Type	RSRZ
23	AC	1	C	2.9
23	CD	40	C	2.9
47	BZ	84	GLY	2.9
53	B7	49	ARG	2.9
29	DF	68	LYS	2.9
35	DO	59	LEU	2.9
50	D4	9	LEU	2.9
28	DE	75	VAL	2.9
36	BP	90	VAL	2.9
9	AL	127	LYS	2.9
30	DG	34	LEU	2.9
4	AG	24	GLU	2.8
35	BO	71	VAL	2.8
27	BD	42	GLY	2.8
47	DZ	78	LYS	2.8
36	BP	83	MET	2.8
44	BU	55	TYR	2.8
40	B1	104	GLN	2.8
14	AQ	2	ALA	2.8
7	AJ	80	VAL	2.8
12	CO	18	VAL	2.8
22	AB	85	C	2.8
28	DE	76	ARG	2.8
47	DZ	79	GLY	2.8
27	DD	40	THR	2.8
32	DK	14	ASP	2.8
47	DZ	97	LEU	2.8
43	DT	94	GLY	2.8
25	BA	4	C	2.8
26	DB	88	C	2.8
28	BE	64	LYS	2.8
52	D6	38	LYS	2.8
1	CA	1397	C	2.8
28	DE	131	ALA	2.8
48	BW	40	SER	2.8
52	B6	34	LEU	2.8
54	D8	54	GLU	2.8
33	BM	45	ASN	2.7
12	AO	64	TYR	2.7
42	BS	92	ARG	2.7
2	AE	77	ALA	2.7
30	DG	84	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
46	D3	85	ALA	2.7
1	AA	85	U	2.7
1	AA	1196	U	2.7
10	AM	59	SER	2.7
13	AP	9	ILE	2.7
27	DD	30	GLU	2.7
28	BE	81	ILE	2.7
45	BV	166	SER	2.7
1	CA	1190	G	2.7
22	CB	82	G	2.7
23	CD	2	G	2.7
52	B6	29	ASN	2.7
38	BQ	86	ALA	2.7
41	D2	79	VAL	2.7
5	CH	12	LEU	2.7
17	CT	98	LEU	2.7
27	DD	29	PRO	2.7
35	DO	148	LEU	2.7
47	BZ	94	LEU	2.7
3	CF	182	ILE	2.7
44	DU	60	PHE	2.7
33	BM	136	GLU	2.7
28	BE	90	THR	2.7
44	BU	2	ARG	2.7
10	AM	62	HIS	2.7
51	B5	53	ALA	2.7
36	BP	79	LEU	2.7
39	BR	6	LEU	2.7
33	DM	85	ILE	2.7
1	CA	1126	U	2.7
35	DO	150	ALA	2.7
45	BV	161	VAL	2.7
11	AN	12	ARG	2.7
10	AM	61	GLU	2.7
17	AT	95	TYR	2.7
48	DW	43	GLN	2.6
34	DN	74	GLY	2.6
12	CO	27	LEU	2.6
31	BH	155	SER	2.6
36	DP	27	VAL	2.6
44	BU	98	VAL	2.6
51	B5	57	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
51	D5	51	TYR	2.6
36	DP	104	PHE	2.6
31	BH	18	GLU	2.6
52	B6	12	GLU	2.6
47	DZ	82	LEU	2.6
54	D8	62	LEU	2.6
23	AD	18	C	2.6
51	B5	52	TYR	2.6
27	DD	273	ARG	2.6
31	DH	152	ARG	2.6
37	D0	33	ARG	2.6
30	BG	2	PRO	2.6
11	CN	11	LYS	2.6
25	DA	1536	A	2.6
38	DQ	20	ARG	2.6
47	BZ	86	SER	2.6
47	DZ	86	SER	2.6
48	BW	4	SER	2.6
48	DW	41	ILE	2.6
9	AL	117	HIS	2.6
11	AN	36	ASP	2.6
36	BP	25	ASP	2.6
28	DE	50	GLY	2.6
14	CQ	44	LEU	2.6
30	BG	137	GLU	2.6
9	CL	120	ARG	2.6
23	CD	34	U	2.6
35	BO	58	THR	2.6
52	B6	47	THR	2.6
17	AT	27	PHE	2.6
25	BA	2211	G	2.6
31	DH	80	SER	2.6
54	B8	48	PHE	2.6
7	CJ	86	GLN	2.6
25	BA	2900	A	2.6
27	DD	33	LEU	2.6
35	DO	55	ARG	2.6
51	D5	53	ALA	2.6
10	CM	63	PHE	2.5
3	AF	184	TYR	2.5
13	AP	113	PRO	2.5
29	BF	66	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
35	BO	20	GLY	2.5
36	DP	100	GLY	2.5
28	DE	49	LEU	2.5
1	AA	968	A	2.5
1	CA	1398	A	2.5
14	CQ	46	GLU	2.5
31	DH	151	ILE	2.5
41	D2	81	TYR	2.5
52	D6	31	PRO	2.5
1	CA	5	U	2.5
6	AI	48	LEU	2.5
24	A1	13	U	2.5
28	BE	49	LEU	2.5
31	DH	98	LEU	2.5
43	DT	92	LEU	2.5
20	CW	97	ALA	2.5
35	DO	149	GLU	2.5
50	B4	59	PHE	2.5
7	AJ	78	ARG	2.5
12	CO	47	LYS	2.5
20	AW	103	GLY	2.5
39	BR	106	SER	2.5
31	DH	169	VAL	2.5
40	B1	116	ALA	2.5
36	DP	91	GLU	2.5
4	AG	102	ASP	2.5
39	DR	52	ILE	2.5
4	AG	21	LEU	2.5
10	CM	65	LEU	2.5
14	CQ	50	LYS	2.5
31	DH	71	LEU	2.5
52	D6	21	TYR	2.5
45	BV	106	GLY	2.5
29	DF	6	VAL	2.5
1	CA	1529	G	2.5
22	AB	1	G	2.5
27	DD	64	ILE	2.5
28	BE	200	GLU	2.5
35	BO	57	THR	2.5
35	DO	58	THR	2.5
50	D4	44	THR	2.5
3	CF	87	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
4	CG	11	LEU	2.5
43	DT	68	ARG	2.5
52	B6	21	TYR	2.5
31	DH	48	GLY	2.5
35	DO	71	VAL	2.5
52	B6	52	VAL	2.5
27	DD	272	ALA	2.4
1	CA	412	A	2.4
48	BW	11	GLU	2.4
28	DE	51	PHE	2.4
10	AM	57	LYS	2.4
1	AA	345	C	2.4
1	AA	423	G	2.4
52	B6	9	LEU	2.4
7	AJ	85	TYR	2.4
19	AV	84	GLY	2.4
20	CW	102	GLY	2.4
32	DK	145	VAL	2.4
16	AS	84	ALA	2.4
35	DO	38	GLN	2.4
44	DU	78	ALA	2.4
27	BD	271	ILE	2.4
33	BM	96	GLU	2.4
10	CM	60	ARG	2.4
22	CB	84	A	2.4
13	AP	117	VAL	2.4
13	CP	100	GLY	2.4
16	AS	20	VAL	2.4
19	AV	8	GLY	2.4
30	DG	160	VAL	2.4
39	DR	28	VAL	2.4
7	CJ	145	ALA	2.4
23	AD	35	C	2.4
23	AC	4	G	2.4
24	C1	13	U	2.4
27	DD	5	LYS	2.4
12	CO	60	LEU	2.4
44	BU	90	LEU	2.4
45	BV	70	LEU	2.4
47	BZ	82	LEU	2.4
19	AV	9	VAL	2.4
31	DH	24	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
32	DK	133	HIS	2.4
5	CH	13	ILE	2.4
15	AR	3	ILE	2.4
31	BH	156	ALA	2.4
44	DU	65	ALA	2.4
13	CP	102	ARG	2.4
19	AV	7	LYS	2.4
20	AW	42	GLN	2.4
25	BA	34	C	2.4
28	DE	63	LEU	2.4
48	BW	5	GLU	2.4
1	CA	887	G	2.4
2	AE	228	GLY	2.4
38	DQ	108	GLY	2.4
19	CV	80	TYR	2.4
28	DE	64	LYS	2.4
10	CM	47	PHE	2.4
25	DA	654(J)	A	2.4
42	DS	13	SER	2.4
33	DM	46	VAL	2.4
52	D6	30	THR	2.3
3	AF	200	ALA	2.3
13	CP	5	ALA	2.3
30	DG	75	LYS	2.3
44	DU	47	LYS	2.3
53	D7	49	ARG	2.3
54	D8	55	ALA	2.3
32	DK	110	ASP	2.3
1	CA	1029	G	2.3
38	BQ	85	VAL	2.3
44	BU	49	VAL	2.3
31	BH	21	PRO	2.3
12	CO	17	LYS	2.3
47	DZ	36	GLY	2.3
3	CF	200	ALA	2.3
14	CQ	2	ALA	2.3
28	DE	77	ILE	2.3
46	B3	85	ALA	2.3
52	D6	49	HIS	2.3
5	AH	19	MET	2.3
5	CH	133	TYR	2.3
24	A1	22	U	2.3

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Mol	Chain	Res	Type	RSRZ
43	BT	92	LEU	2.3
1	CA	1061	G	2.3
25	BA	2	G	2.3
45	BV	127	LYS	2.3
28	DE	62	PRO	2.3
13	CP	6	GLY	2.3
17	AT	36	ILE	2.3
14	AQ	13	THR	2.3
3	CF	43	LEU	2.3
32	DK	10	GLU	2.3
4	AG	151	LYS	2.3
4	AG	203	VAL	2.3
12	AO	18	VAL	2.3
36	DP	10	ARG	2.3
3	CF	124	ILE	2.3
33	BM	11	PRO	2.3
47	BZ	79	GLY	2.3
45	BV	172	ALA	2.3
53	D7	45	ALA	2.3
28	DE	159	HIS	2.3
38	BQ	110	LEU	2.3
44	DU	55	TYR	2.3
35	DO	36	LYS	2.3
4	AG	150	GLU	2.3
5	CH	105	VAL	2.3
14	CQ	25	VAL	2.3
25	BA	2898	U	2.3
3	CF	7	PRO	2.3
39	DR	50	ILE	2.3
25	DA	654(I)	C	2.3
27	BD	273	ARG	2.3
31	DH	76	VAL	2.3
44	DU	51	VAL	2.3
1	CA	809	G	2.2
2	AE	26	PRO	2.2
5	CH	19	MET	2.2
25	BA	5	A	2.2
25	BA	2062	A	2.2
45	BV	67	LEU	2.2
45	BV	117	LEU	2.2
54	B8	61	LEU	2.2
2	CE	22	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	CA	1533	C	2.2
2	AE	217	ARG	2.2
13	AP	114	ARG	2.2
48	BW	69	ARG	2.2
4	CG	9	CYS	2.2
27	DD	34	VAL	2.2
36	BP	139	GLU	2.2
37	D0	69	ASP	2.2
31	DH	126	PRO	2.2
51	D5	47	PRO	2.2
51	D5	58	LEU	2.2
3	CF	199	LYS	2.2
28	DE	69	LYS	2.2
29	BF	69	HIS	2.2
52	D6	27	LYS	2.2
10	AM	51	ARG	2.2
22	CB	83	U	2.2
36	BP	137	TYR	2.2
44	DU	86	ARG	2.2
51	B5	51	TYR	2.2
7	CJ	80	VAL	2.2
15	AR	60	VAL	2.2
4	AG	163	GLU	2.2
29	BF	206	ILE	2.2
23	CD	41	C	2.2
13	AP	5	ALA	2.2
28	DE	32	PRO	2.2
28	DE	187	ALA	2.2
36	BP	1	MET	2.2
44	BU	53	PRO	2.2
54	B8	62	LEU	2.2
54	D8	32	LEU	2.2
14	CQ	58	LYS	2.2
54	D8	52	LYS	2.2
45	BV	79	ARG	2.2
11	CN	31	THR	2.2
4	CG	27	TYR	2.2
14	CQ	34	TYR	2.2
2	AE	15	VAL	2.2
33	DM	98	VAL	2.2
39	BR	12	SER	2.2
45	DV	53	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
7	CJ	146	GLU	2.2
36	BP	89	ASN	2.2
14	CQ	47	LEU	2.2
22	AB	87	A	2.2
25	BA	654(T)	A	2.2
36	DP	37	LEU	2.2
44	BU	91	GLU	2.2
3	CF	24	ALA	2.2
7	AJ	147	ALA	2.2
20	AW	12	ALA	2.2
34	DN	100	GLY	2.2
35	DO	20	GLY	2.2
36	BP	20	ALA	2.2
39	BR	1	MET	2.2
45	DV	167	PRO	2.2
54	D8	9	GLY	2.2
3	CF	157	ILE	2.2
48	BW	41	ILE	2.2
11	CN	89	ALA	2.2
47	DZ	83	GLU	2.2
2	CE	232	PRO	2.2
3	CF	135	LYS	2.2
14	CQ	51	GLY	2.2
35	DO	37	GLY	2.2
15	CR	88	ARG	2.2
8	CK	4	ASP	2.2
38	BQ	87	PHE	2.2
28	BE	7	VAL	2.1
44	DU	20	TYR	2.1
3	CF	152	ILE	2.1
22	CB	72	C	2.1
32	DK	79	ILE	2.1
35	DO	147	LEU	2.1
52	D6	11	LEU	2.1
27	DD	26	LYS	2.1
36	DP	22	LYS	2.1
54	B8	29	LYS	2.1
54	D8	29	LYS	2.1
2	AE	188	ALA	2.1
44	DU	100	ALA	2.1
5	CH	27	ARG	2.1
7	AJ	81	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
20	AW	98	PRO	2.1
29	DF	208	GLY	2.1
31	BH	39	PRO	2.1
37	D0	103	ARG	2.1
41	B2	16	PRO	2.1
43	DT	61	GLY	2.1
44	BU	50	ARG	2.1
53	D7	46	VAL	2.1
12	CO	69	TYR	2.1
23	AD	36	A	2.1
28	DE	151	TYR	2.1
47	DZ	80	LEU	2.1
47	DZ	92	LYS	2.1
1	CA	888	G	2.1
1	CA	966	G	2.1
3	CF	162	GLN	2.1
32	BK	134	PRO	2.1
44	DU	41	GLY	2.1
47	DZ	2	SER	2.1
1	CA	1400	C	2.1
23	AD	1	C	2.1
14	AQ	37	PHE	2.1
14	CQ	36	PHE	2.1
3	AF	167	TRP	2.1
3	CF	167	TRP	2.1
32	DK	3	VAL	2.1
35	DO	47	ASP	2.1
41	B2	37	VAL	2.1
42	DS	111	HIS	2.1
4	CG	158	ILE	2.1
10	AM	90	LEU	2.1
11	AN	21	ILE	2.1
3	CF	131	ARG	2.1
4	AG	181	MET	2.1
9	AL	111	ARG	2.1
54	D8	46	ARG	2.1
7	AJ	2	ALA	2.1
1	AA	87	A	2.1
1	CA	889	A	2.1
18	AU	80	PRO	2.1
23	AD	39	A	2.1
25	DA	2062	A	2.1

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Mol	Chain	Res	Type	RSRZ
52	D6	24	GLU	2.1
12	CO	32	PHE	2.1
30	BG	79	ASN	2.1
1	CA	1193	G	2.1
25	DA	250	G	2.1
25	DA	2156	G	2.1
28	DE	150	VAL	2.1
4	CG	12	CYS	2.1
7	AJ	79	ARG	2.1
45	BV	98	MET	2.1
14	AQ	20	ALA	2.1
38	BQ	2	ALA	2.1
1	AA	5	U	2.1
54	B8	35	GLN	2.1
13	AP	97	PRO	2.1
27	BD	30	GLU	2.1
30	DG	28	VAL	2.1
25	DA	91	A	2.1
44	DU	92	ASN	2.1
10	AM	65	LEU	2.1
45	BV	59	LEU	2.1
9	CL	64	THR	2.1
33	DM	48	MET	2.1
45	BV	38	TYR	2.1
25	BA	1534	G	2.1
26	DB	89	G	2.1
28	DE	48	GLN	2.1
36	DP	33	GLY	2.1
51	D5	50	GLY	2.1
9	AL	110	GLU	2.1
12	CO	94	PRO	2.1
30	DG	48	GLU	2.1
45	BV	95	PRO	2.1
1	CA	1194	U	2.0
3	CF	27	LYS	2.0
7	CJ	35	LYS	2.0
19	CV	11	VAL	2.0
31	BH	52	VAL	2.0
31	DH	131	VAL	2.0
47	DZ	3	LYS	2.0
4	AG	83	SER	2.0
3	AF	94	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
17	CT	91	ARG	2.0
29	DF	72	ARG	2.0
31	DH	162	ILE	2.0
35	BO	62	LEU	2.0
45	BV	5	LEU	2.0
1	CA	913	A	2.0
3	AF	201	TYR	2.0
3	CF	189	ALA	2.0
12	CO	61	THR	2.0
42	BS	94	ASP	2.0
4	AG	51	PRO	2.0
19	CV	10	PHE	2.0
46	D3	73	GLY	2.0
29	DF	25	PRO	2.0
46	D3	83	PRO	2.0
4	CG	179	GLU	2.0
44	DU	91	GLU	2.0
47	BZ	75	GLU	2.0
22	CB	86	C	2.0
44	BU	51	VAL	2.0
11	CN	12	ARG	2.0
35	BO	16	ARG	2.0
35	BO	59	LEU	2.0
41	D2	83	ARG	2.0
17	CT	36	ILE	2.0
31	DH	92	ILE	2.0
35	DO	56	SER	2.0
39	BR	104	ASN	2.0
5	AH	138	ALA	2.0
9	AL	119	ALA	2.0
5	CH	28	PHE	2.0
21	CX	11	GLY	2.0
36	DP	23	GLY	2.0
36	DP	24	GLY	2.0
33	DM	69	GLN	2.0
32	BK	122	GLU	2.0
2	AE	96	ARG	2.0
3	CF	34	LEU	2.0
3	CF	175	LEU	2.0
42	BS	69	LEU	2.0
30	DG	39	ILE	2.0
1	CA	1063	C	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no 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, 95^{th} 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
55	MG	DA	3441	1/1	0.18	0.17	137,137,137,137	0
55	MG	CA	1644	1/1	0.19	0.33	120,120,120,120	0
55	MG	CA	1753	1/1	0.23	0.25	123,123,123,123	0
55	MG	AA	1761	1/1	0.27	0.41	113,113,113,113	0
55	MG	DA	3315	1/1	0.33	0.20	108,108,108,108	0
55	MG	DB	207	1/1	0.34	0.39	115,115,115,115	0
55	MG	AA	1729	1/1	0.36	0.34	113,113,113,113	0
55	MG	AA	1715	1/1	0.37	0.27	115,115,115,115	0
55	MG	AA	1713	1/1	0.42	0.25	115,115,115,115	0
55	MG	CA	1759	1/1	0.43	0.36	103,103,103,103	0
55	MG	AB	103	1/1	0.45	0.22	111,111,111,111	0
55	MG	BA	3490	1/1	0.46	0.18	166,166,166,166	0
55	MG	DA	3064	1/1	0.48	0.24	101,101,101,101	0
55	MG	BA	3484	1/1	0.48	0.28	117,117,117,117	0
55	MG	CA	1632	1/1	0.49	0.37	95,95,95,95	0
55	MG	DA	3462	1/1	0.49	0.33	107,107,107,107	0
55	MG	CC	107	1/1	0.49	0.17	99,99,99,99	0
55	MG	CA	1719	1/1	0.53	0.26	129,129,129,129	0
55	MG	DA	3491	1/1	0.54	0.52	103,103,103,103	0
55	MG	AA	1731	1/1	0.54	0.27	103,103,103,103	0
55	MG	BA	3075	1/1	0.55	0.32	110,110,110,110	0
55	MG	AA	1700	1/1	0.55	0.24	99,99,99,99	0
55	MG	AA	1710	1/1	0.55	0.31	92,92,92,92	0
55	MG	DA	3273	1/1	0.56	0.24	99,99,99,99	0
55	MG	DA	3508	1/1	0.56	0.36	80,80,80,80	0
55	MG	DA	3405	1/1	0.56	0.34	79,79,79,79	0
55	MG	BA	3580	1/1	0.57	0.15	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1769	1/1	0.57	0.32	104,104,104,104	0
55	MG	BA	3505	1/1	0.58	0.30	96,96,96,96	0
55	MG	DA	3068	1/1	0.58	0.29	91,91,91,91	0
55	MG	AC	106	1/1	0.58	0.36	89,89,89,89	0
55	MG	AA	1638	1/1	0.58	0.31	104,104,104,104	0
55	MG	BA	3495	1/1	0.58	0.24	123,123,123,123	0
55	MG	CA	1659	1/1	0.59	0.23	110,110,110,110	0
55	MG	BA	3379	1/1	0.59	0.39	82,82,82,82	0
55	MG	DA	3487	1/1	0.59	0.25	95,95,95,95	0
55	MG	BB	216	1/1	0.60	0.23	94,94,94,94	0
55	MG	CA	1622	1/1	0.60	0.46	95,95,95,95	0
55	MG	AA	1758	1/1	0.60	0.25	85,85,85,85	0
55	MG	AA	1744	1/1	0.60	0.19	117,117,117,117	0
55	MG	BA	3134	1/1	0.61	0.17	81,81,81,81	0
55	MG	AA	1833	1/1	0.61	0.35	88,88,88,88	0
55	MG	CA	1699	1/1	0.61	0.14	97,97,97,97	0
55	MG	DA	3481	1/1	0.61	0.42	96,96,96,96	0
55	MG	CA	1713	1/1	0.61	0.41	102,102,102,102	0
55	MG	DA	3129	1/1	0.61	0.34	82,82,82,82	0
55	MG	AA	1737	1/1	0.61	0.37	83,83,83,83	0
55	MG	DA	3524	1/1	0.61	0.21	105,105,105,105	0
55	MG	BA	3507	1/1	0.61	0.32	89,89,89,89	0
55	MG	CA	1807	1/1	0.62	0.31	126,126,126,126	0
55	MG	AA	1689	1/1	0.62	0.27	115,115,115,115	0
55	MG	AA	1797	1/1	0.62	0.38	99,99,99,99	0
55	MG	DA	3490	1/1	0.62	0.11	126,126,126,126	0
55	MG	AA	1618	1/1	0.63	0.29	82,82,82,82	0
55	MG	AA	1826	1/1	0.63	0.16	101,101,101,101	0
55	MG	BA	3115	1/1	0.63	0.27	87,87,87,87	0
55	MG	CA	1645	1/1	0.63	0.27	86,86,86,86	0
55	MG	DA	3059	1/1	0.63	0.36	106,106,106,106	0
55	MG	AA	1692	1/1	0.63	0.29	115,115,115,115	0
55	MG	BA	3300	1/1	0.63	0.27	88,88,88,88	0
55	MG	DA	3072	1/1	0.63	0.31	112,112,112,112	0
55	MG	DA	3083	1/1	0.63	0.38	85,85,85,85	0
55	MG	AA	1755	1/1	0.63	0.25	104,104,104,104	0
55	MG	BA	3438	1/1	0.63	0.25	91,91,91,91	0
55	MG	DA	3020	1/1	0.64	0.19	85,85,85,85	0
55	MG	CA	1660	1/1	0.64	0.25	85,85,85,85	0
55	MG	DA	3277	1/1	0.64	0.31	89,89,89,89	0
55	MG	BA	3541	1/1	0.64	0.23	96,96,96,96	0
55	MG	BA	3552	1/1	0.64	0.31	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3519	1/1	0.64	0.34	80,80,80,80	0
55	MG	DA	3007	1/1	0.64	0.21	74,74,74,74	0
55	MG	AA	1640	1/1	0.65	0.35	90,90,90,90	0
55	MG	AA	1728	1/1	0.65	0.19	108,108,108,108	0
55	MG	CA	1704	1/1	0.65	0.29	99,99,99,99	0
55	MG	DA	3429	1/1	0.65	0.32	99,99,99,99	0
55	MG	CA	1707	1/1	0.65	0.45	98,98,98,98	0
55	MG	AA	1711	1/1	0.65	0.26	89,89,89,89	0
55	MG	CA	1714	1/1	0.65	0.20	92,92,92,92	0
55	MG	CA	1717	1/1	0.65	0.28	106,106,106,106	0
55	MG	AA	1708	1/1	0.65	0.35	91,91,91,91	0
55	MG	AA	1828	1/1	0.65	0.30	105,105,105,105	0
55	MG	DA	3503	1/1	0.65	0.45	80,80,80,80	0
55	MG	DA	3120	1/1	0.65	0.30	90,90,90,90	0
55	MG	AA	1831	1/1	0.65	0.50	90,90,90,90	0
55	MG	CA	1774	1/1	0.65	0.25	104,104,104,104	0
55	MG	CA	1727	1/1	0.66	0.36	94,94,94,94	0
55	MG	CA	1747	1/1	0.66	0.33	94,94,94,94	0
55	MG	AA	1832	1/1	0.66	0.32	94,94,94,94	0
55	MG	CA	1601	1/1	0.66	0.55	96,96,96,96	0
55	MG	CA	1770	1/1	0.66	0.33	102,102,102,102	0
55	MG	DA	3151	1/1	0.66	0.30	85,85,85,85	0
55	MG	BA	3500	1/1	0.66	0.21	97,97,97,97	0
55	MG	CA	1638	1/1	0.67	0.48	101,101,101,101	0
55	MG	CA	1757	1/1	0.67	0.28	97,97,97,97	0
55	MG	BA	3420	1/1	0.67	0.24	94,94,94,94	0
55	MG	AH	201	1/1	0.67	0.31	99,99,99,99	0
55	MG	CA	1609	1/1	0.67	0.21	115,115,115,115	0
55	MG	DA	3086	1/1	0.67	0.24	114,114,114,114	0
55	MG	BA	3334	1/1	0.67	0.36	96,96,96,96	0
55	MG	CB	101	1/1	0.67	0.28	101,101,101,101	0
55	MG	CA	1626	1/1	0.67	0.21	93,93,93,93	0
55	MG	CA	1741	1/1	0.67	0.27	106,106,106,106	0
55	MG	DA	3010	1/1	0.67	0.28	97,97,97,97	0
55	MG	AA	1754	1/1	0.67	0.28	95,95,95,95	0
55	MG	DA	3343	1/1	0.68	0.25	95,95,95,95	0
55	MG	DA	3379	1/1	0.68	0.35	85,85,85,85	0
55	MG	DA	3026	1/1	0.68	0.45	95,95,95,95	0
55	MG	BA	3403	1/1	0.68	0.43	93,93,93,93	0
55	MG	DA	3085	1/1	0.68	0.27	91,91,91,91	0
55	MG	AA	1647	1/1	0.68	0.28	88,88,88,88	0
55	MG	AD	101	1/1	0.68	0.22	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DB	213	1/1	0.68	0.22	94,94,94,94	0
55	MG	AA	1732	1/1	0.69	0.36	92,92,92,92	0
55	MG	AC	102	1/1	0.69	0.38	93,93,93,93	0
55	MG	BA	3313	1/1	0.69	0.21	88,88,88,88	0
55	MG	AA	1698	1/1	0.69	0.24	72,72,72,72	0
55	MG	AA	1621	1/1	0.69	0.24	108,108,108,108	0
55	MG	AA	1836	1/1	0.69	0.30	79,79,79,79	0
55	MG	CA	1783	1/1	0.69	0.35	100,100,100,100	0
55	MG	CA	1797	1/1	0.69	0.24	87,87,87,87	0
55	MG	CA	1805	1/1	0.69	0.30	94,94,94,94	0
55	MG	AA	1748	1/1	0.69	0.39	84,84,84,84	0
55	MG	DB	211	1/1	0.69	0.27	93,93,93,93	0
55	MG	BA	3509	1/1	0.69	0.29	83,83,83,83	0
55	MG	CA	1662	1/1	0.70	0.28	90,90,90,90	0
55	MG	CA	1689	1/1	0.70	0.28	89,89,89,89	0
55	MG	CA	1748	1/1	0.70	0.25	87,87,87,87	0
55	MG	AA	1782	1/1	0.70	0.09	96,96,96,96	0
55	MG	BA	3391	1/1	0.70	0.34	86,86,86,86	0
55	MG	DA	3377	1/1	0.70	0.20	98,98,98,98	0
55	MG	AB	101	1/1	0.70	0.17	90,90,90,90	0
55	MG	DA	3088	1/1	0.70	0.24	96,96,96,96	0
55	MG	DA	3419	1/1	0.70	0.30	84,84,84,84	0
55	MG	DA	3028	1/1	0.70	0.30	101,101,101,101	0
55	MG	CS	101	1/1	0.70	0.31	87,87,87,87	0
55	MG	DA	3381	1/1	0.71	0.44	99,99,99,99	0
55	MG	DA	3393	1/1	0.71	0.32	69,69,69,69	0
55	MG	CA	1687	1/1	0.71	0.22	89,89,89,89	0
55	MG	BA	3164	1/1	0.71	0.42	86,86,86,86	0
55	MG	BA	3222	1/1	0.71	0.36	89,89,89,89	0
55	MG	BA	3272	1/1	0.71	0.21	94,94,94,94	0
55	MG	AA	1678	1/1	0.71	0.37	74,74,74,74	0
55	MG	BA	3588	1/1	0.71	0.33	83,83,83,83	0
55	MG	BA	3591	1/1	0.71	0.32	64,64,64,64	0
55	MG	BA	3594	1/1	0.71	0.37	79,79,79,79	0
55	MG	CA	1718	1/1	0.71	0.17	92,92,92,92	0
55	MG	BB	209	1/1	0.71	0.33	102,102,102,102	0
55	MG	DA	3350	1/1	0.71	0.28	91,91,91,91	0
55	MG	DA	3357	1/1	0.71	0.27	96,96,96,96	0
55	MG	DA	3371	1/1	0.71	0.34	82,82,82,82	0
55	MG	AA	1693	1/1	0.71	0.22	87,87,87,87	0
55	MG	AA	1714	1/1	0.71	0.28	107,107,107,107	0
55	MG	CA	1778	1/1	0.72	0.31	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1757	1/1	0.72	0.15	110,110,110,110	0
55	MG	CA	1787	1/1	0.72	0.17	87,87,87,87	0
55	MG	BB	206	1/1	0.72	0.24	86,86,86,86	0
55	MG	CA	1803	1/1	0.72	0.30	96,96,96,96	0
55	MG	AA	1643	1/1	0.72	0.42	85,85,85,85	0
55	MG	AB	105	1/1	0.72	0.21	110,110,110,110	0
55	MG	AA	1760	1/1	0.72	0.27	78,78,78,78	0
55	MG	AC	105	1/1	0.72	0.35	93,93,93,93	0
55	MG	CA	1715	1/1	0.72	0.30	104,104,104,104	0
55	MG	DA	3380	1/1	0.72	0.14	139,139,139,139	0
55	MG	DA	3004	1/1	0.72	0.38	99,99,99,99	0
55	MG	CA	1614	1/1	0.72	0.31	86,86,86,86	0
55	MG	AA	1686	1/1	0.72	0.39	85,85,85,85	0
55	MG	DA	3413	1/1	0.72	0.30	94,94,94,94	0
55	MG	AA	1768	1/1	0.72	0.34	101,101,101,101	0
55	MG	BA	3513	1/1	0.72	0.33	90,90,90,90	0
55	MG	CA	1730	1/1	0.72	0.23	106,106,106,106	0
55	MG	CA	1737	1/1	0.72	0.26	99,99,99,99	0
55	MG	BA	3053	1/1	0.72	0.26	95,95,95,95	0
55	MG	BA	3534	1/1	0.72	0.27	79,79,79,79	0
55	MG	AA	1696	1/1	0.72	0.34	88,88,88,88	0
55	MG	AA	1777	1/1	0.72	0.33	90,90,90,90	0
55	MG	DA	3084	1/1	0.72	0.29	88,88,88,88	0
55	MG	AA	1607	1/1	0.72	0.30	89,89,89,89	0
55	MG	BA	3448	1/1	0.72	0.38	100,100,100,100	0
55	MG	DB	202	1/1	0.72	0.20	98,98,98,98	0
55	MG	CA	1762	1/1	0.72	0.27	96,96,96,96	0
55	MG	CA	1685	1/1	0.72	0.31	93,93,93,93	0
55	MG	BA	3479	1/1	0.72	0.29	82,82,82,82	0
55	MG	BA	3547	1/1	0.73	0.28	77,77,77,77	0
55	MG	CC	108	1/1	0.73	0.22	106,106,106,106	0
55	MG	AA	1639	1/1	0.73	0.37	91,91,91,91	0
55	MG	AA	1772	1/1	0.73	0.30	85,85,85,85	0
55	MG	CA	1658	1/1	0.73	0.39	91,91,91,91	0
55	MG	DA	3304	1/1	0.73	0.28	85,85,85,85	0
55	MG	CA	1694	1/1	0.73	0.41	97,97,97,97	0
55	MG	DA	3337	1/1	0.73	0.22	89,89,89,89	0
55	MG	DA	3024	1/1	0.73	0.38	108,108,108,108	0
55	MG	AA	1735	1/1	0.73	0.24	79,79,79,79	0
55	MG	DA	3437	1/1	0.73	0.27	87,87,87,87	0
55	MG	AA	1781	1/1	0.73	0.38	94,94,94,94	0
55	MG	CA	1735	1/1	0.74	0.27	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	CA	1796	1/1	0.74	0.25	102,102,102,102	0
55	MG	AA	1753	1/1	0.74	0.21	108,108,108,108	0
55	MG	DA	3073	1/1	0.74	0.49	80,80,80,80	0
55	MG	BA	3441	1/1	0.74	0.10	86,86,86,86	0
55	MG	BB	201	1/1	0.74	0.36	92,92,92,92	0
55	MG	DA	3394	1/1	0.74	0.24	90,90,90,90	0
55	MG	BA	3315	1/1	0.74	0.39	78,78,78,78	0
55	MG	DA	3412	1/1	0.74	0.33	89,89,89,89	0
55	MG	BA	3449	1/1	0.74	0.28	80,80,80,80	0
55	MG	DA	3417	1/1	0.74	0.32	81,81,81,81	0
55	MG	CA	1756	1/1	0.74	0.28	81,81,81,81	0
55	MG	DA	3089	1/1	0.74	0.42	82,82,82,82	0
55	MG	DA	3117	1/1	0.74	0.37	78,78,78,78	0
55	MG	CC	106	1/1	0.74	0.29	96,96,96,96	0
55	MG	AA	1790	1/1	0.74	0.25	98,98,98,98	0
55	MG	DA	3476	1/1	0.74	0.32	107,107,107,107	0
55	MG	DA	3477	1/1	0.74	0.33	89,89,89,89	0
55	MG	BA	3349	1/1	0.74	0.21	97,97,97,97	0
55	MG	AA	1630	1/1	0.74	0.25	101,101,101,101	0
55	MG	CA	1765	1/1	0.74	0.27	101,101,101,101	0
55	MG	DA	3279	1/1	0.74	0.32	84,84,84,84	0
55	MG	CA	1684	1/1	0.74	0.52	85,85,85,85	0
55	MG	CA	1773	1/1	0.74	0.36	92,92,92,92	0
55	MG	DA	3515	1/1	0.74	0.20	82,82,82,82	0
55	MG	DA	3516	1/1	0.74	0.29	105,105,105,105	0
55	MG	AA	1716	1/1	0.74	0.33	92,92,92,92	0
55	MG	BA	3290	1/1	0.74	0.27	97,97,97,97	0
55	MG	AA	1752	1/1	0.74	0.22	78,78,78,78	0
55	MG	CA	1785	1/1	0.74	0.36	105,105,105,105	0
55	MG	DA	3366	1/1	0.74	0.31	83,83,83,83	0
55	MG	DA	3436	1/1	0.75	0.32	98,98,98,98	0
55	MG	BA	3486	1/1	0.75	0.32	80,80,80,80	0
55	MG	CA	1769	1/1	0.75	0.31	105,105,105,105	0
55	MG	DA	3451	1/1	0.75	0.28	75,75,75,75	0
55	MG	DA	3458	1/1	0.75	0.40	92,92,92,92	0
55	MG	AA	1803	1/1	0.75	0.22	91,91,91,91	0
55	MG	CA	1771	1/1	0.75	0.21	76,76,76,76	0
55	MG	CA	1691	1/1	0.75	0.28	78,78,78,78	0
55	MG	BA	3151	1/1	0.75	0.31	83,83,83,83	0
55	MG	DA	3485	1/1	0.75	0.17	81,81,81,81	0
55	MG	CA	1651	1/1	0.75	0.30	90,90,90,90	0
55	MG	CA	1654	1/1	0.75	0.29	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1702	1/1	0.75	0.26	93,93,93,93	0
55	MG	CA	1710	1/1	0.75	0.29	106,106,106,106	0
55	MG	BA	3397	1/1	0.75	0.22	81,81,81,81	0
55	MG	BA	3467	1/1	0.75	0.30	78,78,78,78	0
55	MG	DA	3269	1/1	0.75	0.38	84,84,84,84	0
55	MG	DA	3040	1/1	0.75	0.18	81,81,81,81	0
55	MG	BA	3477	1/1	0.75	0.37	95,95,95,95	0
55	MG	DA	3061	1/1	0.75	0.27	74,74,74,74	0
55	MG	AA	1738	1/1	0.75	0.27	79,79,79,79	0
55	MG	AA	1834	1/1	0.75	0.33	97,97,97,97	0
55	MG	AA	1813	1/1	0.76	0.24	107,107,107,107	0
55	MG	AA	1822	1/1	0.76	0.18	107,107,107,107	0
55	MG	DA	3093	1/1	0.76	0.19	80,80,80,80	0
55	MG	DA	3025	1/1	0.76	0.48	84,84,84,84	0
55	MG	AA	1720	1/1	0.76	0.20	93,93,93,93	0
55	MG	BA	3215	1/1	0.76	0.31	74,74,74,74	0
55	MG	CA	1667	1/1	0.76	0.13	102,102,102,102	0
55	MG	DA	3208	1/1	0.76	0.35	74,74,74,74	0
55	MG	CA	1627	1/1	0.76	0.24	88,88,88,88	0
55	MG	DA	3500	1/1	0.76	0.22	92,92,92,92	0
55	MG	BA	3354	1/1	0.76	0.16	72,72,72,72	0
55	MG	DA	3507	1/1	0.76	0.45	91,91,91,91	0
55	MG	CA	1633	1/1	0.76	0.31	91,91,91,91	0
55	MG	CA	1723	1/1	0.76	0.16	86,86,86,86	0
55	MG	CA	1725	1/1	0.76	0.28	86,86,86,86	0
55	MG	AA	1614	1/1	0.76	0.26	91,91,91,91	0
55	MG	BA	3086	1/1	0.76	0.20	95,95,95,95	0
55	MG	DB	206	1/1	0.76	0.27	90,90,90,90	0
55	MG	BA	3089	1/1	0.76	0.17	88,88,88,88	0
55	MG	DB	208	1/1	0.76	0.29	90,90,90,90	0
55	MG	AA	1648	1/1	0.76	0.31	78,78,78,78	0
55	MG	BA	3303	1/1	0.76	0.25	72,72,72,72	0
55	MG	DA	3338	1/1	0.77	0.28	86,86,86,86	0
55	MG	BA	3257	1/1	0.77	0.21	64,64,64,64	0
55	MG	CA	1628	1/1	0.77	0.25	101,101,101,101	0
55	MG	DA	3473	1/1	0.77	0.35	96,96,96,96	0
55	MG	CA	1630	1/1	0.77	0.35	91,91,91,91	0
55	MG	AA	1736	1/1	0.77	0.29	90,90,90,90	0
55	MG	AA	1770	1/1	0.77	0.26	102,102,102,102	0
55	MG	DA	3094	1/1	0.77	0.11	94,94,94,94	0
55	MG	BA	3546	1/1	0.77	0.18	87,87,87,87	0
55	MG	DA	3119	1/1	0.77	0.38	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3342	1/1	0.77	0.27	66,66,66,66	0
55	MG	DA	3492	1/1	0.77	0.28	88,88,88,88	0
55	MG	DA	3493	1/1	0.77	0.28	82,82,82,82	0
55	MG	DA	3387	1/1	0.77	0.29	92,92,92,92	0
55	MG	DA	3047	1/1	0.77	0.31	76,76,76,76	0
55	MG	AA	1609	1/1	0.77	0.39	78,78,78,78	0
55	MG	DA	3396	1/1	0.77	0.27	82,82,82,82	0
55	MG	BA	3570	1/1	0.77	0.33	87,87,87,87	0
55	MG	BA	3223	1/1	0.77	0.27	92,92,92,92	0
55	MG	BA	3582	1/1	0.77	0.31	86,86,86,86	0
55	MG	BA	3584	1/1	0.77	0.19	72,72,72,72	0
55	MG	CA	1777	1/1	0.77	0.28	88,88,88,88	0
55	MG	DA	3302	1/1	0.77	0.42	95,95,95,95	0
55	MG	DA	3080	1/1	0.77	0.39	75,75,75,75	0
55	MG	BA	3368	1/1	0.77	0.21	88,88,88,88	0
55	MG	CA	1781	1/1	0.77	0.17	117,117,117,117	0
55	MG	DB	214	1/1	0.77	0.15	96,96,96,96	0
55	MG	BA	3127	1/1	0.78	0.33	53,53,53,53	0
55	MG	BA	3461	1/1	0.78	0.17	91,91,91,91	0
55	MG	DA	3461	1/1	0.78	0.20	84,84,84,84	0
55	MG	DA	3067	1/1	0.78	0.32	94,94,94,94	0
55	MG	BA	3606	1/1	0.78	0.27	77,77,77,77	0
55	MG	DA	3342	1/1	0.78	0.41	82,82,82,82	0
55	MG	CA	1637	1/1	0.78	0.29	79,79,79,79	0
55	MG	DA	3478	1/1	0.78	0.31	80,80,80,80	0
55	MG	BA	3621	1/1	0.78	0.19	63,63,63,63	0
55	MG	DA	3484	1/1	0.78	0.35	83,83,83,83	0
55	MG	CA	1639	1/1	0.78	0.45	95,95,95,95	0
55	MG	BA	3068	1/1	0.78	0.27	75,75,75,75	0
55	MG	CC	104	1/1	0.78	0.27	89,89,89,89	0
55	MG	BB	202	1/1	0.78	0.17	79,79,79,79	0
55	MG	BA	3475	1/1	0.78	0.24	83,83,83,83	0
55	MG	CA	1767	1/1	0.78	0.33	77,77,77,77	0
55	MG	BA	3317	1/1	0.78	0.44	89,89,89,89	0
55	MG	CA	1657	1/1	0.78	0.33	95,95,95,95	0
55	MG	BA	3325	1/1	0.78	0.30	76,76,76,76	0
55	MG	DA	3015	1/1	0.78	0.28	89,89,89,89	0
55	MG	BA	3327	1/1	0.78	0.21	70,70,70,70	0
55	MG	AA	1827	1/1	0.78	0.33	87,87,87,87	0
55	MG	BA	3432	1/1	0.78	0.25	80,80,80,80	0
55	MG	AA	1637	1/1	0.78	0.24	98,98,98,98	0
55	MG	AA	1767	1/1	0.78	0.37	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3038	1/1	0.78	0.40	97,97,97,97	0
55	MG	CA	1732	1/1	0.78	0.27	109,109,109,109	0
55	MG	DA	3043	1/1	0.78	0.18	82,82,82,82	0
55	MG	BA	3446	1/1	0.78	0.20	92,92,92,92	0
55	MG	AA	1804	1/1	0.78	0.20	74,74,74,74	0
55	MG	CA	1703	1/1	0.79	0.28	94,94,94,94	0
55	MG	BA	3076	1/1	0.79	0.34	68,68,68,68	0
55	MG	DA	3354	1/1	0.79	0.34	73,73,73,73	0
55	MG	AA	1611	1/1	0.79	0.26	92,92,92,92	0
55	MG	DA	3363	1/1	0.79	0.55	79,79,79,79	0
55	MG	BB	203	1/1	0.79	0.35	65,65,65,65	0
55	MG	BA	3219	1/1	0.79	0.34	76,76,76,76	0
55	MG	DA	3375	1/1	0.79	0.28	88,88,88,88	0
55	MG	DA	3146	1/1	0.79	0.42	92,92,92,92	0
55	MG	CA	1661	1/1	0.79	0.27	87,87,87,87	0
55	MG	BB	208	1/1	0.79	0.23	74,74,74,74	0
55	MG	DA	3231	1/1	0.79	0.38	72,72,72,72	0
55	MG	AA	1668	1/1	0.79	0.42	76,76,76,76	0
55	MG	AA	1746	1/1	0.79	0.29	84,84,84,84	0
55	MG	DA	3275	1/1	0.79	0.30	76,76,76,76	0
55	MG	DA	3498	1/1	0.79	0.26	85,85,85,85	0
55	MG	BA	3059	1/1	0.79	0.29	91,91,91,91	0
55	MG	DA	3501	1/1	0.79	0.40	88,88,88,88	0
55	MG	DA	3399	1/1	0.79	0.38	76,76,76,76	0
55	MG	AA	1791	1/1	0.79	0.20	109,109,109,109	0
55	MG	DA	3292	1/1	0.79	0.22	89,89,89,89	0
55	MG	CA	1612	1/1	0.79	0.14	82,82,82,82	0
55	MG	AA	1819	1/1	0.79	0.40	87,87,87,87	0
55	MG	DA	3517	1/1	0.79	0.22	84,84,84,84	0
55	MG	DA	3312	1/1	0.79	0.28	85,85,85,85	0
55	MG	CG	302	1/1	0.79	0.19	101,101,101,101	0
55	MG	BA	3408	1/1	0.79	0.28	87,87,87,87	0
55	MG	DA	3090	1/1	0.79	0.35	86,86,86,86	0
55	MG	DA	3340	1/1	0.79	0.20	85,85,85,85	0
55	MG	DA	3445	1/1	0.79	0.27	78,78,78,78	0
55	MG	DA	3449	1/1	0.79	0.20	87,87,87,87	0
55	MG	CA	1625	1/1	0.79	0.29	90,90,90,90	0
55	MG	BA	3321	1/1	0.80	0.29	77,77,77,77	0
55	MG	DA	3289	1/1	0.80	0.28	90,90,90,90	0
55	MG	AA	1677	1/1	0.80	0.31	87,87,87,87	0
55	MG	AA	1817	1/1	0.80	0.29	85,85,85,85	0
55	MG	AA	1615	1/1	0.80	0.30	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1740	1/1	0.80	0.11	75,75,75,75	0
55	MG	BA	3623	1/1	0.80	0.29	60,60,60,60	0
55	MG	DA	3333	1/1	0.80	0.34	87,87,87,87	0
55	MG	CG	301	1/1	0.80	0.29	83,83,83,83	0
55	MG	CA	1693	1/1	0.80	0.41	76,76,76,76	0
55	MG	BA	3514	1/1	0.80	0.23	71,71,71,71	0
55	MG	CA	1696	1/1	0.80	0.36	91,91,91,91	0
55	MG	CA	1635	1/1	0.80	0.37	86,86,86,86	0
55	MG	BA	3345	1/1	0.80	0.50	73,73,73,73	0
55	MG	CA	1761	1/1	0.80	0.43	92,92,92,92	0
55	MG	AA	1684	1/1	0.80	0.22	90,90,90,90	0
55	MG	DA	3358	1/1	0.80	0.36	88,88,88,88	0
55	MG	CA	1763	1/1	0.80	0.27	91,91,91,91	0
55	MG	DA	3091	1/1	0.80	0.27	92,92,92,92	0
55	MG	DA	3005	1/1	0.80	0.34	77,77,77,77	0
55	MG	AA	1725	1/1	0.80	0.22	82,82,82,82	0
55	MG	BA	3145	1/1	0.80	0.35	74,74,74,74	0
55	MG	BA	3292	1/1	0.80	0.39	85,85,85,85	0
55	MG	BB	211	1/1	0.80	0.21	92,92,92,92	0
55	MG	DA	3502	1/1	0.80	0.36	97,97,97,97	0
55	MG	DA	3128	1/1	0.80	0.30	77,77,77,77	0
55	MG	AA	1674	1/1	0.80	0.29	98,98,98,98	0
55	MG	AA	1749	1/1	0.80	0.19	81,81,81,81	0
55	MG	BA	3573	1/1	0.80	0.26	83,83,83,83	0
55	MG	BA	3203	1/1	0.80	0.26	85,85,85,85	0
55	MG	BA	3204	1/1	0.80	0.31	78,78,78,78	0
55	MG	DA	3518	1/1	0.80	0.34	83,83,83,83	0
55	MG	DA	3259	1/1	0.80	0.18	72,72,72,72	0
55	MG	BA	3210	1/1	0.80	0.17	74,74,74,74	0
55	MG	CA	1624	1/1	0.80	0.27	88,88,88,88	0
55	MG	CA	1729	1/1	0.80	0.29	77,77,77,77	0
55	MG	DA	3276	1/1	0.80	0.39	68,68,68,68	0
55	MG	DA	3056	1/1	0.80	0.41	81,81,81,81	0
55	MG	DA	3430	1/1	0.80	0.24	62,62,62,62	0
55	MG	DA	3434	1/1	0.80	0.08	74,74,74,74	0
55	MG	AA	1807	1/1	0.81	0.54	98,98,98,98	0
55	MG	CA	1702	1/1	0.81	0.31	78,78,78,78	0
55	MG	BA	3414	1/1	0.81	0.13	72,72,72,72	0
55	MG	AA	1730	1/1	0.81	0.13	78,78,78,78	0
55	MG	DA	3435	1/1	0.81	0.16	72,72,72,72	0
55	MG	AA	1679	1/1	0.81	0.29	86,86,86,86	0
55	MG	BA	3496	1/1	0.81	0.27	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3283	1/1	0.81	0.18	61,61,61,61	0
55	MG	AA	1794	1/1	0.81	0.30	84,84,84,84	0
55	MG	BA	3613	1/1	0.81	0.46	93,93,93,93	0
55	MG	CA	1780	1/1	0.81	0.37	88,88,88,88	0
55	MG	BA	3361	1/1	0.81	0.23	64,64,64,64	0
55	MG	DA	3309	1/1	0.81	0.23	94,94,94,94	0
55	MG	BA	3444	1/1	0.81	0.28	78,78,78,78	0
55	MG	AA	1616	1/1	0.81	0.21	94,94,94,94	0
55	MG	DA	3319	1/1	0.81	0.33	74,74,74,74	0
55	MG	CA	1786	1/1	0.81	0.27	73,73,73,73	0
55	MG	DA	3336	1/1	0.81	0.30	87,87,87,87	0
55	MG	BA	3447	1/1	0.81	0.27	71,71,71,71	0
55	MG	BA	3324	1/1	0.81	0.33	73,73,73,73	0
55	MG	BA	3385	1/1	0.81	0.14	87,87,87,87	0
55	MG	BA	3521	1/1	0.81	0.36	79,79,79,79	0
55	MG	BA	3524	1/1	0.81	0.21	66,66,66,66	0
55	MG	BA	3527	1/1	0.81	0.27	93,93,93,93	0
55	MG	BB	214	1/1	0.81	0.16	86,86,86,86	0
55	MG	BA	3530	1/1	0.81	0.24	81,81,81,81	0
55	MG	B8	101	1/1	0.81	0.35	97,97,97,97	0
55	MG	CA	1663	1/1	0.81	0.34	81,81,81,81	0
55	MG	BA	3458	1/1	0.81	0.17	82,82,82,82	0
55	MG	CA	1677	1/1	0.81	0.31	73,73,73,73	0
55	MG	AA	1625	1/1	0.81	0.20	57,57,57,57	0
55	MG	CA	1755	1/1	0.81	0.47	92,92,92,92	0
55	MG	BA	3394	1/1	0.81	0.20	81,81,81,81	0
55	MG	BA	3470	1/1	0.81	0.26	88,88,88,88	0
55	MG	CA	1616	1/1	0.81	0.27	88,88,88,88	0
55	MG	DA	3136	1/1	0.81	0.30	76,76,76,76	0
55	MG	BA	3472	1/1	0.81	0.33	89,89,89,89	0
55	MG	AA	1786	1/1	0.81	0.19	86,86,86,86	0
55	MG	DA	3185	1/1	0.81	0.26	74,74,74,74	0
55	MG	BA	3399	1/1	0.81	0.35	90,90,90,90	0
55	MG	AQ	101	1/1	0.81	0.17	88,88,88,88	0
55	MG	DA	3237	1/1	0.81	0.25	83,83,83,83	0
55	MG	DB	209	1/1	0.81	0.18	92,92,92,92	0
55	MG	CA	1766	1/1	0.81	0.33	85,85,85,85	0
55	MG	DA	3415	1/1	0.81	0.40	96,96,96,96	0
55	MG	DA	3268	1/1	0.81	0.32	69,69,69,69	0
55	MG	CC	105	1/1	0.82	0.36	82,82,82,82	0
55	MG	DA	3403	1/1	0.82	0.27	76,76,76,76	0
55	MG	BA	3116	1/1	0.82	0.23	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3406	1/1	0.82	0.26	86,86,86,86	0
55	MG	DA	3410	1/1	0.82	0.30	78,78,78,78	0
55	MG	BA	3518	1/1	0.82	0.23	70,70,70,70	0
55	MG	CA	1744	1/1	0.82	0.34	79,79,79,79	0
55	MG	AA	1706	1/1	0.82	0.34	74,74,74,74	0
55	MG	BA	3278	1/1	0.82	0.32	81,81,81,81	0
55	MG	BA	3360	1/1	0.82	0.16	84,84,84,84	0
55	MG	DA	3236	1/1	0.82	0.12	55,55,55,55	0
55	MG	BA	3525	1/1	0.82	0.26	77,77,77,77	0
55	MG	DA	3014	1/1	0.82	0.36	74,74,74,74	0
55	MG	BA	3454	1/1	0.82	0.24	92,92,92,92	0
55	MG	DA	3018	1/1	0.82	0.28	77,77,77,77	0
55	MG	BB	217	1/1	0.82	0.20	98,98,98,98	0
55	MG	AA	1690	1/1	0.82	0.31	96,96,96,96	0
55	MG	BA	3362	1/1	0.82	0.09	48,48,48,48	0
55	MG	BA	3291	1/1	0.82	0.24	72,72,72,72	0
55	MG	CA	1610	1/1	0.82	0.27	97,97,97,97	0
55	MG	DA	3282	1/1	0.82	0.18	69,69,69,69	0
55	MG	DA	3459	1/1	0.82	0.22	86,86,86,86	0
55	MG	DA	3036	1/1	0.82	0.25	99,99,99,99	0
55	MG	CA	1611	1/1	0.82	0.38	93,93,93,93	0
55	MG	AA	1824	1/1	0.82	0.34	86,86,86,86	0
55	MG	DA	3041	1/1	0.82	0.34	86,86,86,86	0
55	MG	AA	1681	1/1	0.82	0.36	80,80,80,80	0
55	MG	BA	3548	1/1	0.82	0.43	76,76,76,76	0
55	MG	CA	1617	1/1	0.82	0.26	93,93,93,93	0
55	MG	DA	3057	1/1	0.82	0.25	83,83,83,83	0
55	MG	AA	1685	1/1	0.82	0.28	88,88,88,88	0
55	MG	DA	3327	1/1	0.82	0.19	61,61,61,61	0
55	MG	BA	3563	1/1	0.82	0.23	82,82,82,82	0
55	MG	DA	3335	1/1	0.82	0.22	61,61,61,61	0
55	MG	DA	3063	1/1	0.82	0.47	75,75,75,75	0
55	MG	AB	102	1/1	0.82	0.23	86,86,86,86	0
55	MG	AA	1743	1/1	0.82	0.20	107,107,107,107	0
55	MG	BA	3085	1/1	0.82	0.15	73,73,73,73	0
55	MG	CA	1708	1/1	0.82	0.20	97,97,97,97	0
55	MG	BA	3400	1/1	0.82	0.42	80,80,80,80	0
55	MG	CA	1629	1/1	0.82	0.19	98,98,98,98	0
55	MG	BA	3489	1/1	0.82	0.18	70,70,70,70	0
55	MG	BA	3585	1/1	0.82	0.26	60,60,60,60	0
55	MG	DA	3509	1/1	0.82	0.22	64,64,64,64	0
55	MG	AA	1695	1/1	0.82	0.29	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3087	1/1	0.82	0.33	77,77,77,77	0
55	MG	AA	1727	1/1	0.82	0.36	87,87,87,87	0
55	MG	BA	3498	1/1	0.82	0.22	85,85,85,85	0
55	MG	DA	3519	1/1	0.82	0.29	85,85,85,85	0
55	MG	CA	1724	1/1	0.82	0.28	84,84,84,84	0
55	MG	CA	1806	1/1	0.82	0.38	96,96,96,96	0
55	MG	DA	3092	1/1	0.82	0.20	68,68,68,68	0
55	MG	AA	1818	1/1	0.82	0.45	76,76,76,76	0
55	MG	CA	1640	1/1	0.82	0.30	81,81,81,81	0
55	MG	BA	3330	1/1	0.82	0.30	79,79,79,79	0
55	MG	BA	3239	1/1	0.82	0.21	74,74,74,74	0
55	MG	BA	3341	1/1	0.82	0.22	81,81,81,81	0
55	MG	BA	3247	1/1	0.82	0.30	70,70,70,70	0
55	MG	CA	1604	1/1	0.83	0.24	81,81,81,81	0
55	MG	BA	3473	1/1	0.83	0.27	76,76,76,76	0
55	MG	BA	3358	1/1	0.83	0.28	74,74,74,74	0
55	MG	AA	1739	1/1	0.83	0.08	93,93,93,93	0
55	MG	DA	3341	1/1	0.83	0.33	84,84,84,84	0
55	MG	BA	3586	1/1	0.83	0.29	63,63,63,63	0
55	MG	BA	3340	1/1	0.83	0.23	77,77,77,77	0
55	MG	BA	3481	1/1	0.83	0.33	69,69,69,69	0
55	MG	DA	3467	1/1	0.83	0.25	61,61,61,61	0
55	MG	DA	3353	1/1	0.83	0.35	93,93,93,93	0
55	MG	CA	1782	1/1	0.83	0.38	93,93,93,93	0
55	MG	CA	1664	1/1	0.83	0.36	99,99,99,99	0
55	MG	BA	3445	1/1	0.83	0.24	79,79,79,79	0
55	MG	DA	3479	1/1	0.83	0.17	99,99,99,99	0
55	MG	DA	3197	1/1	0.83	0.32	70,70,70,70	0
55	MG	DA	3207	1/1	0.83	0.33	66,66,66,66	0
55	MG	BA	3060	1/1	0.83	0.20	64,64,64,64	0
55	MG	DA	3486	1/1	0.83	0.14	68,68,68,68	0
55	MG	BA	3366	1/1	0.83	0.43	94,94,94,94	0
55	MG	BA	3618	1/1	0.83	0.33	73,73,73,73	0
55	MG	DA	3049	1/1	0.83	0.27	74,74,74,74	0
55	MG	BA	3619	1/1	0.83	0.41	69,69,69,69	0
55	MG	BA	3529	1/1	0.83	0.29	68,68,68,68	0
55	MG	DA	3497	1/1	0.83	0.17	74,74,74,74	0
55	MG	BA	3404	1/1	0.83	0.11	60,60,60,60	0
55	MG	BA	3493	1/1	0.83	0.32	63,63,63,63	0
55	MG	CA	1751	1/1	0.83	0.32	94,94,94,94	0
55	MG	BA	3537	1/1	0.83	0.30	89,89,89,89	0
55	MG	BA	3406	1/1	0.83	0.29	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3401	1/1	0.83	0.20	71,71,71,71	0
55	MG	DA	3402	1/1	0.83	0.29	101,101,101,101	0
55	MG	BA	3301	1/1	0.83	0.27	76,76,76,76	0
55	MG	DA	3511	1/1	0.83	0.32	76,76,76,76	0
55	MG	AA	1620	1/1	0.83	0.21	66,66,66,66	0
55	MG	CB	103	1/1	0.83	0.20	103,103,103,103	0
55	MG	CC	101	1/1	0.83	0.18	92,92,92,92	0
55	MG	BA	3419	1/1	0.83	0.31	85,85,85,85	0
55	MG	DA	3297	1/1	0.83	0.20	83,83,83,83	0
55	MG	AA	1756	1/1	0.83	0.16	69,69,69,69	0
55	MG	CA	1706	1/1	0.83	0.30	87,87,87,87	0
55	MG	BA	3506	1/1	0.83	0.29	78,78,78,78	0
55	MG	BA	3431	1/1	0.83	0.34	88,88,88,88	0
55	MG	BA	3571	1/1	0.83	0.26	92,92,92,92	0
55	MG	BO	202	1/1	0.83	0.17	37,37,37,37	0
55	MG	CA	1768	1/1	0.83	0.20	84,84,84,84	0
55	MG	AA	1683	1/1	0.83	0.20	87,87,87,87	0
55	MG	BA	3511	1/1	0.83	0.18	89,89,89,89	0
55	MG	DE	302	1/1	0.83	0.27	65,65,65,65	0
55	MG	BA	3265	1/1	0.84	0.35	60,60,60,60	0
55	MG	DA	3039	1/1	0.84	0.21	85,85,85,85	0
55	MG	BE	305	1/1	0.84	0.27	71,71,71,71	0
55	MG	BO	201	1/1	0.84	0.32	62,62,62,62	0
55	MG	BA	3143	1/1	0.84	0.55	72,72,72,72	0
55	MG	BA	3072	1/1	0.84	0.23	77,77,77,77	0
55	MG	DA	3427	1/1	0.84	0.25	76,76,76,76	0
55	MG	BA	3577	1/1	0.84	0.22	73,73,73,73	0
55	MG	BA	3455	1/1	0.84	0.15	76,76,76,76	0
55	MG	CA	1606	1/1	0.84	0.30	87,87,87,87	0
55	MG	DA	3058	1/1	0.84	0.21	76,76,76,76	0
55	MG	CA	1607	1/1	0.84	0.44	85,85,85,85	0
55	MG	CA	1788	1/1	0.84	0.29	84,84,84,84	0
55	MG	CA	1791	1/1	0.84	0.25	79,79,79,79	0
55	MG	DA	3442	1/1	0.84	0.23	91,91,91,91	0
55	MG	CA	1608	1/1	0.84	0.34	81,81,81,81	0
55	MG	DA	3448	1/1	0.84	0.41	79,79,79,79	0
55	MG	DA	3303	1/1	0.84	0.31	70,70,70,70	0
55	MG	DA	3066	1/1	0.84	0.26	65,65,65,65	0
55	MG	DA	3454	1/1	0.84	0.28	92,92,92,92	0
55	MG	DA	3308	1/1	0.84	0.29	97,97,97,97	0
55	MG	BA	3510	1/1	0.84	0.22	108,108,108,108	0
55	MG	CA	1800	1/1	0.84	0.18	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	CA	1801	1/1	0.84	0.20	89,89,89,89	0
55	MG	BA	3282	1/1	0.84	0.10	83,83,83,83	0
55	MG	DA	3075	1/1	0.84	0.34	79,79,79,79	0
55	MG	DA	3475	1/1	0.84	0.30	88,88,88,88	0
55	MG	AA	1814	1/1	0.84	0.32	83,83,83,83	0
55	MG	DA	3082	1/1	0.84	0.23	91,91,91,91	0
55	MG	AA	1682	1/1	0.84	0.22	91,91,91,91	0
55	MG	CA	1742	1/1	0.84	0.21	97,97,97,97	0
55	MG	CA	1743	1/1	0.84	0.38	80,80,80,80	0
55	MG	DA	3483	1/1	0.84	0.19	90,90,90,90	0
55	MG	AA	1734	1/1	0.84	0.14	96,96,96,96	0
55	MG	BA	3293	1/1	0.84	0.23	65,65,65,65	0
55	MG	BA	3412	1/1	0.84	0.24	78,78,78,78	0
55	MG	CA	1749	1/1	0.84	0.24	89,89,89,89	0
55	MG	DA	3345	1/1	0.84	0.28	64,64,64,64	0
55	MG	DA	3349	1/1	0.84	0.21	63,63,63,63	0
55	MG	BA	3295	1/1	0.84	0.30	81,81,81,81	0
55	MG	BA	3417	1/1	0.84	0.23	99,99,99,99	0
55	MG	AA	1747	1/1	0.84	0.41	88,88,88,88	0
55	MG	AA	1787	1/1	0.84	0.35	96,96,96,96	0
55	MG	AA	1776	1/1	0.84	0.24	82,82,82,82	0
55	MG	CA	1698	1/1	0.84	0.11	107,107,107,107	0
55	MG	DA	3364	1/1	0.84	0.20	71,71,71,71	0
55	MG	CA	1760	1/1	0.84	0.25	91,91,91,91	0
55	MG	DA	3505	1/1	0.84	0.34	81,81,81,81	0
55	MG	DA	3369	1/1	0.84	0.22	74,74,74,74	0
55	MG	BA	3110	1/1	0.84	0.28	59,59,59,59	0
55	MG	BA	3437	1/1	0.84	0.28	67,67,67,67	0
55	MG	DA	3376	1/1	0.84	0.42	82,82,82,82	0
55	MG	BA	3065	1/1	0.84	0.27	91,91,91,91	0
55	MG	DA	3139	1/1	0.84	0.26	80,80,80,80	0
55	MG	BA	3367	1/1	0.84	0.23	82,82,82,82	0
55	MG	AA	1724	1/1	0.84	0.28	84,84,84,84	0
55	MG	BA	3069	1/1	0.84	0.31	77,77,77,77	0
55	MG	DA	3193	1/1	0.84	0.31	63,63,63,63	0
55	MG	BA	3133	1/1	0.84	0.23	66,66,66,66	0
55	MG	CA	1709	1/1	0.84	0.39	108,108,108,108	0
55	MG	DA	3398	1/1	0.84	0.28	74,74,74,74	0
55	MG	BA	3071	1/1	0.84	0.24	70,70,70,70	0
55	MG	DA	3228	1/1	0.84	0.28	44,44,44,44	0
55	MG	CA	1712	1/1	0.84	0.38	86,86,86,86	0
55	MG	BA	3566	1/1	0.84	0.28	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3568	1/1	0.84	0.32	83,83,83,83	0
55	MG	DA	3249	1/1	0.84	0.30	72,72,72,72	0
55	MG	DA	3281	1/1	0.85	0.51	76,76,76,76	0
55	MG	BA	3104	1/1	0.85	0.16	57,57,57,57	0
55	MG	CA	1784	1/1	0.85	0.23	81,81,81,81	0
55	MG	BA	3411	1/1	0.85	0.28	68,68,68,68	0
55	MG	DA	3290	1/1	0.85	0.26	79,79,79,79	0
55	MG	BA	3106	1/1	0.85	0.25	75,75,75,75	0
55	MG	DA	3432	1/1	0.85	0.25	69,69,69,69	0
55	MG	BA	3533	1/1	0.85	0.32	72,72,72,72	0
55	MG	BA	3476	1/1	0.85	0.23	81,81,81,81	0
55	MG	CA	1790	1/1	0.85	0.20	110,110,110,110	0
55	MG	AA	1661	1/1	0.85	0.22	48,48,48,48	0
55	MG	DA	3440	1/1	0.85	0.16	86,86,86,86	0
55	MG	BB	215	1/1	0.85	0.25	82,82,82,82	0
55	MG	BA	3478	1/1	0.85	0.27	63,63,63,63	0
55	MG	DA	3443	1/1	0.85	0.28	80,80,80,80	0
55	MG	BA	3415	1/1	0.85	0.29	84,84,84,84	0
55	MG	DA	3313	1/1	0.85	0.26	85,85,85,85	0
55	MG	CA	1740	1/1	0.85	0.20	68,68,68,68	0
55	MG	BE	304	1/1	0.85	0.19	80,80,80,80	0
55	MG	DA	3453	1/1	0.85	0.17	66,66,66,66	0
55	MG	DA	3322	1/1	0.85	0.32	70,70,70,70	0
55	MG	AA	1742	1/1	0.85	0.24	78,78,78,78	0
55	MG	DA	3330	1/1	0.85	0.22	81,81,81,81	0
55	MG	DA	3332	1/1	0.85	0.21	76,76,76,76	0
55	MG	AA	1789	1/1	0.85	0.31	74,74,74,74	0
55	MG	DA	3466	1/1	0.85	0.38	78,78,78,78	0
55	MG	BA	3551	1/1	0.85	0.27	87,87,87,87	0
55	MG	DA	3468	1/1	0.85	0.23	92,92,92,92	0
55	MG	DA	3469	1/1	0.85	0.38	80,80,80,80	0
55	MG	CA	1745	1/1	0.85	0.21	91,91,91,91	0
55	MG	BA	3485	1/1	0.85	0.24	80,80,80,80	0
55	MG	AA	1751	1/1	0.85	0.26	98,98,98,98	0
55	MG	BA	3487	1/1	0.85	0.15	94,94,94,94	0
55	MG	BA	3364	1/1	0.85	0.21	82,82,82,82	0
55	MG	CA	1752	1/1	0.85	0.18	70,70,70,70	0
55	MG	AA	1703	1/1	0.85	0.34	92,92,92,92	0
55	MG	BA	3073	1/1	0.85	0.27	82,82,82,82	0
55	MG	AA	1649	1/1	0.85	0.22	79,79,79,79	0
55	MG	BA	3369	1/1	0.85	0.29	73,73,73,73	0
55	MG	CA	1758	1/1	0.85	0.37	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3002	1/1	0.85	0.50	93,93,93,93	0
55	MG	BA	3371	1/1	0.85	0.32	70,70,70,70	0
55	MG	AA	1733	1/1	0.85	0.37	71,71,71,71	0
55	MG	BA	3328	1/1	0.85	0.40	69,69,69,69	0
55	MG	DA	3138	1/1	0.85	0.24	70,70,70,70	0
55	MG	BA	3146	1/1	0.85	0.27	59,59,59,59	0
55	MG	DA	3367	1/1	0.85	0.31	82,82,82,82	0
55	MG	BA	3393	1/1	0.85	0.30	81,81,81,81	0
55	MG	CA	1764	1/1	0.85	0.43	72,72,72,72	0
55	MG	DA	3153	1/1	0.85	0.21	70,70,70,70	0
55	MG	AA	1801	1/1	0.85	0.43	84,84,84,84	0
55	MG	DA	3019	1/1	0.85	0.60	90,90,90,90	0
55	MG	BA	3339	1/1	0.85	0.31	88,88,88,88	0
55	MG	AA	1840	1/1	0.85	0.44	87,87,87,87	0
55	MG	BA	3595	1/1	0.85	0.18	65,65,65,65	0
55	MG	DA	3383	1/1	0.85	0.38	87,87,87,87	0
55	MG	DA	3513	1/1	0.85	0.26	67,67,67,67	0
55	MG	DA	3212	1/1	0.85	0.35	48,48,48,48	0
55	MG	BA	3600	1/1	0.85	0.24	66,66,66,66	0
55	MG	AA	1823	1/1	0.85	0.30	77,77,77,77	0
55	MG	AA	1672	1/1	0.85	0.26	87,87,87,87	0
55	MG	DA	3397	1/1	0.85	0.18	60,60,60,60	0
55	MG	CA	1772	1/1	0.85	0.32	72,72,72,72	0
55	MG	DA	3525	1/1	0.85	0.25	79,79,79,79	0
55	MG	BA	3615	1/1	0.85	0.34	81,81,81,81	0
55	MG	BA	3464	1/1	0.85	0.30	77,77,77,77	0
55	MG	BA	3466	1/1	0.85	0.30	97,97,97,97	0
55	MG	DA	3042	1/1	0.85	0.23	81,81,81,81	0
55	MG	BA	3094	1/1	0.85	0.33	78,78,78,78	0
55	MG	DB	210	1/1	0.85	0.34	71,71,71,71	0
55	MG	DA	3045	1/1	0.85	0.35	94,94,94,94	0
55	MG	BA	3523	1/1	0.85	0.50	70,70,70,70	0
55	MG	BA	3468	1/1	0.85	0.26	77,77,77,77	0
55	MG	BA	3348	1/1	0.85	0.21	61,61,61,61	0
55	MG	D1	201	1/1	0.85	0.37	71,71,71,71	0
55	MG	DU	201	1/1	0.85	0.16	72,72,72,72	0
55	MG	CA	1681	1/1	0.86	0.26	72,72,72,72	0
55	MG	DA	3263	1/1	0.86	0.68	82,82,82,82	0
55	MG	AA	1775	1/1	0.86	0.11	79,79,79,79	0
55	MG	DA	3414	1/1	0.86	0.37	85,85,85,85	0
55	MG	BF	303	1/1	0.86	0.32	66,66,66,66	0
55	MG	DA	3270	1/1	0.86	0.21	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3474	1/1	0.86	0.28	80,80,80,80	0
55	MG	DA	3422	1/1	0.86	0.32	84,84,84,84	0
55	MG	BA	3396	1/1	0.86	0.17	82,82,82,82	0
55	MG	BU	202	1/1	0.86	0.09	55,55,55,55	0
55	MG	BA	3191	1/1	0.86	0.19	81,81,81,81	0
55	MG	BA	3316	1/1	0.86	0.39	69,69,69,69	0
55	MG	CA	1603	1/1	0.86	0.40	77,77,77,77	0
55	MG	BA	3555	1/1	0.86	0.14	38,38,38,38	0
55	MG	AC	103	1/1	0.86	0.28	66,66,66,66	0
55	MG	BA	3565	1/1	0.86	0.29	77,77,77,77	0
55	MG	BA	3084	1/1	0.86	0.40	82,82,82,82	0
55	MG	AA	1613	1/1	0.86	0.13	85,85,85,85	0
55	MG	AA	1765	1/1	0.86	0.24	84,84,84,84	0
55	MG	AC	108	1/1	0.86	0.28	85,85,85,85	0
55	MG	AC	109	1/1	0.86	0.27	82,82,82,82	0
55	MG	DA	3065	1/1	0.86	0.26	74,74,74,74	0
55	MG	AA	1666	1/1	0.86	0.37	62,62,62,62	0
55	MG	BA	3225	1/1	0.86	0.19	65,65,65,65	0
55	MG	BA	3337	1/1	0.86	0.22	72,72,72,72	0
55	MG	CA	1618	1/1	0.86	0.26	93,93,93,93	0
55	MG	BA	3226	1/1	0.86	0.21	50,50,50,50	0
55	MG	BA	3238	1/1	0.86	0.33	41,41,41,41	0
55	MG	DA	3320	1/1	0.86	0.14	76,76,76,76	0
55	MG	CA	1716	1/1	0.86	0.21	79,79,79,79	0
55	MG	AA	1635	1/1	0.86	0.30	86,86,86,86	0
55	MG	BA	3426	1/1	0.86	0.45	85,85,85,85	0
55	MG	BA	3246	1/1	0.86	0.30	68,68,68,68	0
55	MG	CA	1720	1/1	0.86	0.42	102,102,102,102	0
55	MG	BA	3105	1/1	0.86	0.23	75,75,75,75	0
55	MG	BA	3054	1/1	0.86	0.26	80,80,80,80	0
55	MG	BA	3598	1/1	0.86	0.11	77,77,77,77	0
55	MG	BA	3055	1/1	0.86	0.35	57,57,57,57	0
55	MG	BA	3266	1/1	0.86	0.33	77,77,77,77	0
55	MG	AA	1721	1/1	0.86	0.25	77,77,77,77	0
55	MG	BA	3276	1/1	0.86	0.23	74,74,74,74	0
55	MG	AA	1655	1/1	0.86	0.40	88,88,88,88	0
55	MG	DA	3344	1/1	0.86	0.27	95,95,95,95	0
55	MG	DA	3096	1/1	0.86	0.36	53,53,53,53	0
55	MG	DA	3112	1/1	0.86	0.10	81,81,81,81	0
55	MG	CA	1736	1/1	0.86	0.35	79,79,79,79	0
55	MG	BA	3062	1/1	0.86	0.25	56,56,56,56	0
55	MG	BA	3363	1/1	0.86	0.36	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3355	1/1	0.86	0.38	77,77,77,77	0
55	MG	DA	3356	1/1	0.86	0.24	67,67,67,67	0
55	MG	DA	3494	1/1	0.86	0.14	75,75,75,75	0
55	MG	BA	3132	1/1	0.86	0.26	71,71,71,71	0
55	MG	AA	1805	1/1	0.86	0.32	65,65,65,65	0
55	MG	DA	3499	1/1	0.86	0.22	61,61,61,61	0
55	MG	DA	3362	1/1	0.86	0.25	53,53,53,53	0
55	MG	CA	1648	1/1	0.86	0.24	65,65,65,65	0
55	MG	AA	1825	1/1	0.86	0.13	93,93,93,93	0
55	MG	BA	3140	1/1	0.86	0.17	58,58,58,58	0
55	MG	DA	3140	1/1	0.86	0.21	78,78,78,78	0
55	MG	CA	1655	1/1	0.86	0.35	87,87,87,87	0
55	MG	CA	1656	1/1	0.86	0.25	92,92,92,92	0
55	MG	AA	1656	1/1	0.86	0.35	87,87,87,87	0
55	MG	DA	3162	1/1	0.86	0.28	66,66,66,66	0
55	MG	DA	3179	1/1	0.86	0.25	70,70,70,70	0
55	MG	BB	207	1/1	0.86	0.19	83,83,83,83	0
55	MG	BA	3462	1/1	0.86	0.27	87,87,87,87	0
55	MG	AA	1810	1/1	0.86	0.31	67,67,67,67	0
55	MG	AB	104	1/1	0.86	0.23	82,82,82,82	0
55	MG	BA	3532	1/1	0.86	0.33	85,85,85,85	0
55	MG	DA	3521	1/1	0.86	0.26	69,69,69,69	0
55	MG	DA	3209	1/1	0.86	0.31	66,66,66,66	0
55	MG	BA	3381	1/1	0.86	0.46	90,90,90,90	0
55	MG	DA	3395	1/1	0.86	0.37	69,69,69,69	0
55	MG	DA	3222	1/1	0.86	0.32	60,60,60,60	0
55	MG	DA	3224	1/1	0.86	0.34	66,66,66,66	0
55	MG	AA	1812	1/1	0.86	0.28	73,73,73,73	0
55	MG	DA	3230	1/1	0.86	0.16	59,59,59,59	0
55	MG	BA	3304	1/1	0.86	0.22	56,56,56,56	0
55	MG	CA	1668	1/1	0.86	0.24	79,79,79,79	0
55	MG	BA	3309	1/1	0.86	0.23	68,68,68,68	0
55	MG	DA	3242	1/1	0.86	0.34	63,63,63,63	0
55	MG	CA	1680	1/1	0.86	0.35	68,68,68,68	0
55	MG	DA	3407	1/1	0.86	0.33	73,73,73,73	0
55	MG	D1	202	1/1	0.86	0.19	89,89,89,89	0
55	MG	DA	3409	1/1	0.86	0.24	76,76,76,76	0
55	MG	DA	3447	1/1	0.87	0.20	82,82,82,82	0
55	MG	BA	3384	1/1	0.87	0.26	73,73,73,73	0
55	MG	DA	3044	1/1	0.87	0.23	73,73,73,73	0
55	MG	BA	3604	1/1	0.87	0.16	61,61,61,61	0
55	MG	CA	1678	1/1	0.87	0.17	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3048	1/1	0.87	0.48	75,75,75,75	0
55	MG	DA	3456	1/1	0.87	0.49	83,83,83,83	0
55	MG	BA	3049	1/1	0.87	0.35	68,68,68,68	0
55	MG	BA	3607	1/1	0.87	0.24	96,96,96,96	0
55	MG	CA	1682	1/1	0.87	0.23	86,86,86,86	0
55	MG	BA	3480	1/1	0.87	0.34	50,50,50,50	0
55	MG	DA	3464	1/1	0.87	0.28	98,98,98,98	0
55	MG	CA	1798	1/1	0.87	0.23	85,85,85,85	0
55	MG	BA	3387	1/1	0.87	0.32	73,73,73,73	0
55	MG	CA	1686	1/1	0.87	0.42	73,73,73,73	0
55	MG	CA	1802	1/1	0.87	0.34	74,74,74,74	0
55	MG	DA	3471	1/1	0.87	0.26	80,80,80,80	0
55	MG	BA	3388	1/1	0.87	0.33	88,88,88,88	0
55	MG	BA	3535	1/1	0.87	0.27	80,80,80,80	0
55	MG	DA	3251	1/1	0.87	0.25	74,74,74,74	0
55	MG	DA	3253	1/1	0.87	0.17	87,87,87,87	0
55	MG	DA	3254	1/1	0.87	0.32	50,50,50,50	0
55	MG	AA	1820	1/1	0.87	0.31	75,75,75,75	0
55	MG	CA	1692	1/1	0.87	0.34	82,82,82,82	0
55	MG	DA	3264	1/1	0.87	0.44	59,59,59,59	0
55	MG	DA	3070	1/1	0.87	0.23	78,78,78,78	0
55	MG	AA	1624	1/1	0.87	0.22	79,79,79,79	0
55	MG	BA	3156	1/1	0.87	0.20	40,40,40,40	0
55	MG	DA	3271	1/1	0.87	0.36	58,58,58,58	0
55	MG	CA	1754	1/1	0.87	0.28	86,86,86,86	0
55	MG	DA	3390	1/1	0.87	0.29	75,75,75,75	0
55	MG	BA	3242	1/1	0.87	0.24	50,50,50,50	0
55	MG	AA	1793	1/1	0.87	0.24	73,73,73,73	0
55	MG	BA	3550	1/1	0.87	0.17	93,93,93,93	0
55	MG	BA	3166	1/1	0.87	0.34	72,72,72,72	0
55	MG	BA	3248	1/1	0.87	0.23	53,53,53,53	0
55	MG	BA	3402	1/1	0.87	0.26	91,91,91,91	0
55	MG	BA	3457	1/1	0.87	0.46	88,88,88,88	0
55	MG	DA	3400	1/1	0.87	0.30	89,89,89,89	0
55	MG	BA	3254	1/1	0.87	0.20	43,43,43,43	0
55	MG	BA	3460	1/1	0.87	0.16	83,83,83,83	0
55	MG	BA	3314	1/1	0.87	0.30	64,64,64,64	0
55	MG	DA	3506	1/1	0.87	0.22	78,78,78,78	0
55	MG	AA	1726	1/1	0.87	0.28	81,81,81,81	0
55	MG	DA	3298	1/1	0.87	0.30	77,77,77,77	0
55	MG	DA	3300	1/1	0.87	0.21	81,81,81,81	0
55	MG	CA	1711	1/1	0.87	0.38	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3463	1/1	0.87	0.12	72,72,72,72	0
55	MG	BA	3118	1/1	0.87	0.27	61,61,61,61	0
55	MG	AC	107	1/1	0.87	0.24	94,94,94,94	0
55	MG	BA	3206	1/1	0.87	0.30	75,75,75,75	0
55	MG	BA	3273	1/1	0.87	0.33	94,94,94,94	0
55	MG	DA	3416	1/1	0.87	0.27	59,59,59,59	0
55	MG	BA	3583	1/1	0.87	0.10	86,86,86,86	0
55	MG	DA	3125	1/1	0.87	0.31	45,45,45,45	0
55	MG	BA	3275	1/1	0.87	0.22	73,73,73,73	0
55	MG	AA	1612	1/1	0.87	0.13	91,91,91,91	0
55	MG	DB	205	1/1	0.87	0.24	69,69,69,69	0
55	MG	AA	1809	1/1	0.87	0.28	63,63,63,63	0
55	MG	BA	3522	1/1	0.87	0.36	82,82,82,82	0
55	MG	DA	3031	1/1	0.87	0.26	72,72,72,72	0
55	MG	DA	3034	1/1	0.87	0.24	62,62,62,62	0
55	MG	AA	1636	1/1	0.87	0.33	87,87,87,87	0
55	MG	DA	3148	1/1	0.87	0.34	75,75,75,75	0
55	MG	DA	3150	1/1	0.87	0.29	68,68,68,68	0
55	MG	BA	3592	1/1	0.87	0.30	89,89,89,89	0
55	MG	BA	3422	1/1	0.87	0.26	78,78,78,78	0
55	MG	BA	3005	1/1	0.87	0.30	43,43,43,43	0
55	MG	CA	1665	1/1	0.87	0.21	83,83,83,83	0
55	MG	BA	3032	1/1	0.87	0.50	49,49,49,49	0
55	MG	AA	1779	1/1	0.88	0.35	72,72,72,72	0
55	MG	DA	3123	1/1	0.88	0.28	83,83,83,83	0
55	MG	DA	3124	1/1	0.88	0.32	54,54,54,54	0
55	MG	DA	3008	1/1	0.88	0.23	70,70,70,70	0
55	MG	CA	1690	1/1	0.88	0.27	68,68,68,68	0
55	MG	BA	3351	1/1	0.88	0.49	78,78,78,78	0
55	MG	BA	3593	1/1	0.88	0.21	80,80,80,80	0
55	MG	AA	1835	1/1	0.88	0.26	87,87,87,87	0
55	MG	AA	1633	1/1	0.88	0.31	74,74,74,74	0
55	MG	AA	1651	1/1	0.88	0.42	71,71,71,71	0
55	MG	DA	3143	1/1	0.88	0.24	58,58,58,58	0
55	MG	DA	3022	1/1	0.88	0.33	60,60,60,60	0
55	MG	AA	1675	1/1	0.88	0.23	80,80,80,80	0
55	MG	BA	3603	1/1	0.88	0.22	63,63,63,63	0
55	MG	AA	1665	1/1	0.88	0.48	70,70,70,70	0
55	MG	DA	3455	1/1	0.88	0.20	69,69,69,69	0
55	MG	AA	1654	1/1	0.88	0.32	75,75,75,75	0
55	MG	DA	3156	1/1	0.88	0.34	48,48,48,48	0
55	MG	BA	3311	1/1	0.88	0.24	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3611	1/1	0.88	0.29	87,87,87,87	0
55	MG	DA	3347	1/1	0.88	0.09	75,75,75,75	0
55	MG	DA	3183	1/1	0.88	0.29	57,57,57,57	0
55	MG	BA	3137	1/1	0.88	0.27	47,47,47,47	0
55	MG	BA	3019	1/1	0.88	0.33	66,66,66,66	0
55	MG	BA	3026	1/1	0.88	0.20	47,47,47,47	0
55	MG	BA	3080	1/1	0.88	0.14	91,91,91,91	0
55	MG	DA	3470	1/1	0.88	0.18	80,80,80,80	0
55	MG	BA	3540	1/1	0.88	0.18	61,61,61,61	0
55	MG	CA	1775	1/1	0.88	0.28	72,72,72,72	0
55	MG	BA	3622	1/1	0.88	0.23	59,59,59,59	0
55	MG	DA	3361	1/1	0.88	0.41	79,79,79,79	0
55	MG	DA	3218	1/1	0.88	0.29	62,62,62,62	0
55	MG	BA	3031	1/1	0.88	0.19	33,33,33,33	0
55	MG	BA	3482	1/1	0.88	0.20	57,57,57,57	0
55	MG	BA	3433	1/1	0.88	0.18	70,70,70,70	0
55	MG	BA	3375	1/1	0.88	0.20	50,50,50,50	0
55	MG	DA	3368	1/1	0.88	0.42	73,73,73,73	0
55	MG	BA	3378	1/1	0.88	0.44	76,76,76,76	0
55	MG	AA	1687	1/1	0.88	0.33	72,72,72,72	0
55	MG	CA	1646	1/1	0.88	0.30	76,76,76,76	0
55	MG	BA	3038	1/1	0.88	0.22	56,56,56,56	0
55	MG	DA	3248	1/1	0.88	0.36	75,75,75,75	0
55	MG	CA	1722	1/1	0.88	0.36	75,75,75,75	0
55	MG	BA	3268	1/1	0.88	0.40	67,67,67,67	0
55	MG	DA	3062	1/1	0.88	0.16	72,72,72,72	0
55	MG	DA	3496	1/1	0.88	0.24	83,83,83,83	0
55	MG	BA	3558	1/1	0.88	0.11	63,63,63,63	0
55	MG	DA	3386	1/1	0.88	0.31	61,61,61,61	0
55	MG	BA	3559	1/1	0.88	0.19	81,81,81,81	0
55	MG	BA	3562	1/1	0.88	0.28	79,79,79,79	0
55	MG	BA	3044	1/1	0.88	0.26	62,62,62,62	0
55	MG	DA	3266	1/1	0.88	0.31	55,55,55,55	0
55	MG	BA	3088	1/1	0.88	0.11	77,77,77,77	0
55	MG	CA	1731	1/1	0.88	0.49	72,72,72,72	0
55	MG	BD	301	1/1	0.88	0.29	85,85,85,85	0
55	MG	CA	1734	1/1	0.88	0.28	93,93,93,93	0
55	MG	DA	3272	1/1	0.88	0.14	64,64,64,64	0
55	MG	BE	301	1/1	0.88	0.27	59,59,59,59	0
55	MG	AA	1626	1/1	0.88	0.21	69,69,69,69	0
55	MG	DA	3078	1/1	0.88	0.31	89,89,89,89	0
55	MG	AA	1670	1/1	0.88	0.30	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3392	1/1	0.88	0.31	70,70,70,70	0
55	MG	BA	3101	1/1	0.88	0.35	63,63,63,63	0
55	MG	AA	1718	1/1	0.88	0.27	82,82,82,82	0
55	MG	BA	3286	1/1	0.88	0.26	66,66,66,66	0
55	MG	B3	101	1/1	0.88	0.45	71,71,71,71	0
55	MG	DA	3522	1/1	0.88	0.16	78,78,78,78	0
55	MG	DA	3523	1/1	0.88	0.33	81,81,81,81	0
55	MG	DA	3411	1/1	0.88	0.11	70,70,70,70	0
55	MG	CB	102	1/1	0.88	0.16	87,87,87,87	0
55	MG	CA	1673	1/1	0.88	0.21	64,64,64,64	0
55	MG	DA	3295	1/1	0.88	0.32	50,50,50,50	0
55	MG	BA	3579	1/1	0.88	0.19	92,92,92,92	0
55	MG	BA	3459	1/1	0.88	0.36	70,70,70,70	0
55	MG	BA	3287	1/1	0.88	0.31	62,62,62,62	0
55	MG	AC	101	1/1	0.88	0.22	53,53,53,53	0
55	MG	CA	1605	1/1	0.88	0.42	76,76,76,76	0
55	MG	DA	3425	1/1	0.88	0.23	81,81,81,81	0
55	MG	DB	212	1/1	0.88	0.14	88,88,88,88	0
55	MG	DA	3426	1/1	0.88	0.25	58,58,58,58	0
55	MG	BA	3343	1/1	0.88	0.24	60,60,60,60	0
55	MG	DA	3428	1/1	0.88	0.33	84,84,84,84	0
55	MG	AA	1795	1/1	0.88	0.22	73,73,73,73	0
55	MG	AA	1778	1/1	0.88	0.19	106,106,106,106	0
55	MG	BA	3465	1/1	0.88	0.23	93,93,93,93	0
55	MG	CA	1642	1/1	0.89	0.22	91,91,91,91	0
55	MG	DA	3293	1/1	0.89	0.31	75,75,75,75	0
55	MG	BA	3323	1/1	0.89	0.28	66,66,66,66	0
55	MG	BA	3160	1/1	0.89	0.30	42,42,42,42	0
55	MG	BA	3528	1/1	0.89	0.31	76,76,76,76	0
55	MG	CA	1647	1/1	0.89	0.34	61,61,61,61	0
55	MG	DA	3301	1/1	0.89	0.25	63,63,63,63	0
55	MG	BA	3016	1/1	0.89	0.35	39,39,39,39	0
55	MG	AA	1694	1/1	0.89	0.24	91,91,91,91	0
55	MG	CA	1653	1/1	0.89	0.14	77,77,77,77	0
55	MG	DA	3307	1/1	0.89	0.26	77,77,77,77	0
55	MG	DA	3438	1/1	0.89	0.20	87,87,87,87	0
55	MG	BA	3185	1/1	0.89	0.31	76,76,76,76	0
55	MG	BA	3109	1/1	0.89	0.21	70,70,70,70	0
55	MG	DA	3310	1/1	0.89	0.34	71,71,71,71	0
55	MG	DA	3113	1/1	0.89	0.28	43,43,43,43	0
55	MG	CA	1739	1/1	0.89	0.46	75,75,75,75	0
55	MG	DA	3118	1/1	0.89	0.29	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3333	1/1	0.89	0.33	80,80,80,80	0
55	MG	AA	1604	1/1	0.89	0.25	67,67,67,67	0
55	MG	DA	3450	1/1	0.89	0.24	88,88,88,88	0
55	MG	BA	3536	1/1	0.89	0.24	73,73,73,73	0
55	MG	DA	3452	1/1	0.89	0.20	83,83,83,83	0
55	MG	DA	3326	1/1	0.89	0.27	70,70,70,70	0
55	MG	BA	3335	1/1	0.89	0.25	58,58,58,58	0
55	MG	BA	3112	1/1	0.89	0.21	77,77,77,77	0
55	MG	DA	3331	1/1	0.89	0.33	50,50,50,50	0
55	MG	DA	3127	1/1	0.89	0.38	74,74,74,74	0
55	MG	BA	3277	1/1	0.89	0.39	86,86,86,86	0
55	MG	AA	1774	1/1	0.89	0.16	91,91,91,91	0
55	MG	DA	3131	1/1	0.89	0.30	79,79,79,79	0
55	MG	AA	1653	1/1	0.89	0.39	81,81,81,81	0
55	MG	BA	3285	1/1	0.89	0.29	72,72,72,72	0
55	MG	BA	3211	1/1	0.89	0.30	39,39,39,39	0
55	MG	DA	3011	1/1	0.89	0.13	65,65,65,65	0
55	MG	AA	1610	1/1	0.89	0.30	51,51,51,51	0
55	MG	BA	3289	1/1	0.89	0.36	60,60,60,60	0
55	MG	BA	3553	1/1	0.89	0.20	78,78,78,78	0
55	MG	CA	1675	1/1	0.89	0.28	62,62,62,62	0
55	MG	BA	3413	1/1	0.89	0.33	78,78,78,78	0
55	MG	BA	3078	1/1	0.89	0.31	65,65,65,65	0
55	MG	DA	3155	1/1	0.89	0.24	46,46,46,46	0
55	MG	BA	3128	1/1	0.89	0.34	46,46,46,46	0
55	MG	BA	3561	1/1	0.89	0.19	74,74,74,74	0
55	MG	DA	3165	1/1	0.89	0.50	65,65,65,65	0
55	MG	DA	3482	1/1	0.89	0.23	81,81,81,81	0
55	MG	BA	3416	1/1	0.89	0.19	87,87,87,87	0
55	MG	AA	1764	1/1	0.89	0.16	79,79,79,79	0
55	MG	DA	3029	1/1	0.89	0.32	79,79,79,79	0
55	MG	DA	3192	1/1	0.89	0.29	62,62,62,62	0
55	MG	BA	3418	1/1	0.89	0.28	78,78,78,78	0
55	MG	DA	3194	1/1	0.89	0.32	73,73,73,73	0
55	MG	BA	3357	1/1	0.89	0.36	81,81,81,81	0
55	MG	DA	3365	1/1	0.89	0.36	58,58,58,58	0
55	MG	AA	1816	1/1	0.89	0.23	81,81,81,81	0
55	MG	DA	3037	1/1	0.89	0.30	98,98,98,98	0
55	MG	CA	1688	1/1	0.89	0.30	71,71,71,71	0
55	MG	CA	1602	1/1	0.89	0.28	80,80,80,80	0
55	MG	BA	3569	1/1	0.89	0.34	85,85,85,85	0
55	MG	DA	3373	1/1	0.89	0.29	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1617	1/1	0.89	0.31	69,69,69,69	0
55	MG	BA	3423	1/1	0.89	0.28	61,61,61,61	0
55	MG	DA	3227	1/1	0.89	0.46	50,50,50,50	0
55	MG	DA	3378	1/1	0.89	0.32	63,63,63,63	0
55	MG	BA	3424	1/1	0.89	0.38	72,72,72,72	0
55	MG	BA	3574	1/1	0.89	0.34	78,78,78,78	0
55	MG	BA	3575	1/1	0.89	0.24	71,71,71,71	0
55	MG	BA	3425	1/1	0.89	0.39	91,91,91,91	0
55	MG	BA	3227	1/1	0.89	0.34	91,91,91,91	0
55	MG	BA	3232	1/1	0.89	0.18	72,72,72,72	0
55	MG	DA	3246	1/1	0.89	0.34	53,53,53,53	0
55	MG	AA	1766	1/1	0.89	0.14	79,79,79,79	0
55	MG	AA	1628	1/1	0.89	0.43	69,69,69,69	0
55	MG	BA	3435	1/1	0.89	0.20	65,65,65,65	0
55	MG	BA	3501	1/1	0.89	0.18	55,55,55,55	0
55	MG	BA	3142	1/1	0.89	0.24	51,51,51,51	0
55	MG	BA	3310	1/1	0.89	0.23	57,57,57,57	0
55	MG	AA	1802	1/1	0.89	0.31	85,85,85,85	0
55	MG	BA	3442	1/1	0.89	0.24	76,76,76,76	0
55	MG	BA	3312	1/1	0.89	0.28	57,57,57,57	0
55	MG	AA	1650	1/1	0.89	0.32	71,71,71,71	0
55	MG	BA	3512	1/1	0.89	0.24	69,69,69,69	0
55	MG	AA	1785	1/1	0.89	0.30	96,96,96,96	0
55	MG	BA	3376	1/1	0.89	0.28	73,73,73,73	0
55	MG	AA	1662	1/1	0.89	0.40	81,81,81,81	0
55	MG	BA	3256	1/1	0.89	0.30	61,61,61,61	0
55	MG	DA	3274	1/1	0.89	0.27	87,87,87,87	0
55	MG	DA	3074	1/1	0.89	0.19	70,70,70,70	0
55	MG	BA	3010	1/1	0.89	0.29	46,46,46,46	0
55	MG	CA	1799	1/1	0.89	0.23	96,96,96,96	0
55	MG	BA	3318	1/1	0.89	0.41	75,75,75,75	0
55	MG	DA	3081	1/1	0.89	0.32	64,64,64,64	0
55	MG	BA	3609	1/1	0.89	0.37	70,70,70,70	0
55	MG	BA	3456	1/1	0.89	0.32	78,78,78,78	0
55	MG	BA	3258	1/1	0.89	0.23	45,45,45,45	0
55	MG	CA	1804	1/1	0.89	0.24	75,75,75,75	0
55	MG	CA	1779	1/1	0.90	0.22	72,72,72,72	0
55	MG	BA	3195	1/1	0.90	0.38	47,47,47,47	0
55	MG	AA	1657	1/1	0.90	0.26	50,50,50,50	0
55	MG	BA	3557	1/1	0.90	0.25	77,77,77,77	0
55	MG	BB	204	1/1	0.90	0.28	78,78,78,78	0
55	MG	CA	1641	1/1	0.90	0.30	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3196	1/1	0.90	0.29	50,50,50,50	0
55	MG	BA	3014	1/1	0.90	0.30	53,53,53,53	0
55	MG	DA	3051	1/1	0.90	0.27	85,85,85,85	0
55	MG	BA	3332	1/1	0.90	0.18	61,61,61,61	0
55	MG	BA	3560	1/1	0.90	0.33	78,78,78,78	0
55	MG	BA	3499	1/1	0.90	0.26	68,68,68,68	0
55	MG	CA	1789	1/1	0.90	0.33	71,71,71,71	0
55	MG	DA	3351	1/1	0.90	0.20	79,79,79,79	0
55	MG	BA	3205	1/1	0.90	0.16	80,80,80,80	0
55	MG	AA	1688	1/1	0.90	0.25	72,72,72,72	0
55	MG	CA	1795	1/1	0.90	0.21	76,76,76,76	0
55	MG	BA	3131	1/1	0.90	0.23	59,59,59,59	0
55	MG	AA	1762	1/1	0.90	0.22	80,80,80,80	0
55	MG	BA	3067	1/1	0.90	0.15	48,48,48,48	0
55	MG	DA	3234	1/1	0.90	0.26	52,52,52,52	0
55	MG	AA	1667	1/1	0.90	0.27	68,68,68,68	0
55	MG	BA	3221	1/1	0.90	0.29	60,60,60,60	0
55	MG	DA	3239	1/1	0.90	0.22	45,45,45,45	0
55	MG	BE	302	1/1	0.90	0.21	56,56,56,56	0
55	MG	BA	3136	1/1	0.90	0.12	74,74,74,74	0
55	MG	BA	3098	1/1	0.90	0.14	48,48,48,48	0
55	MG	AA	1606	1/1	0.90	0.12	91,91,91,91	0
55	MG	BA	3405	1/1	0.90	0.30	56,56,56,56	0
55	MG	BA	3517	1/1	0.90	0.38	70,70,70,70	0
55	MG	DA	3372	1/1	0.90	0.27	65,65,65,65	0
55	MG	DA	3480	1/1	0.90	0.20	63,63,63,63	0
55	MG	B2	201	1/1	0.90	0.31	85,85,85,85	0
55	MG	BA	3102	1/1	0.90	0.23	66,66,66,66	0
55	MG	AA	1601	1/1	0.90	0.28	56,56,56,56	0
55	MG	B7	101	1/1	0.90	0.31	67,67,67,67	0
55	MG	BA	3581	1/1	0.90	0.32	69,69,69,69	0
55	MG	CA	1670	1/1	0.90	0.36	56,56,56,56	0
55	MG	BA	3229	1/1	0.90	0.10	50,50,50,50	0
55	MG	AA	1605	1/1	0.90	0.29	82,82,82,82	0
55	MG	DA	3382	1/1	0.90	0.33	78,78,78,78	0
55	MG	AA	1680	1/1	0.90	0.25	80,80,80,80	0
55	MG	BA	3149	1/1	0.90	0.26	80,80,80,80	0
55	MG	BA	3108	1/1	0.90	0.29	86,86,86,86	0
55	MG	CA	1750	1/1	0.90	0.32	79,79,79,79	0
55	MG	BA	3305	1/1	0.90	0.37	70,70,70,70	0
55	MG	DA	3001	1/1	0.90	0.27	67,67,67,67	0
55	MG	BA	3244	1/1	0.90	0.21	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3103	1/1	0.90	0.29	50,50,50,50	0
55	MG	CA	1683	1/1	0.90	0.35	87,87,87,87	0
55	MG	BA	3152	1/1	0.90	0.32	40,40,40,40	0
55	MG	DA	3116	1/1	0.90	0.26	74,74,74,74	0
55	MG	AA	1808	1/1	0.90	0.34	76,76,76,76	0
55	MG	BA	3531	1/1	0.90	0.13	53,53,53,53	0
55	MG	DA	3291	1/1	0.90	0.35	65,65,65,65	0
55	MG	BA	3001	1/1	0.90	0.32	47,47,47,47	0
55	MG	BA	3252	1/1	0.90	0.26	67,67,67,67	0
55	MG	DA	3510	1/1	0.90	0.27	85,85,85,85	0
55	MG	BA	3253	1/1	0.90	0.16	51,51,51,51	0
55	MG	AA	1759	1/1	0.90	0.21	77,77,77,77	0
55	MG	DA	3514	1/1	0.90	0.29	59,59,59,59	0
55	MG	BA	3370	1/1	0.90	0.26	56,56,56,56	0
55	MG	BA	3114	1/1	0.90	0.18	74,74,74,74	0
55	MG	CA	1621	1/1	0.90	0.30	66,66,66,66	0
55	MG	BA	3168	1/1	0.90	0.25	49,49,49,49	0
55	MG	DA	3023	1/1	0.90	0.21	57,57,57,57	0
55	MG	CA	1695	1/1	0.90	0.44	87,87,87,87	0
55	MG	DA	3305	1/1	0.90	0.28	77,77,77,77	0
55	MG	BA	3170	1/1	0.90	0.36	55,55,55,55	0
55	MG	CA	1697	1/1	0.90	0.29	65,65,65,65	0
55	MG	BA	3543	1/1	0.90	0.28	80,80,80,80	0
55	MG	DA	3526	1/1	0.90	0.31	68,68,68,68	0
55	MG	BA	3008	1/1	0.90	0.29	37,37,37,37	0
55	MG	DA	3311	1/1	0.90	0.30	73,73,73,73	0
55	MG	BA	3187	1/1	0.90	0.44	73,73,73,73	0
55	MG	DA	3032	1/1	0.90	0.14	76,76,76,76	0
55	MG	BA	3617	1/1	0.90	0.40	71,71,71,71	0
55	MG	BA	3380	1/1	0.90	0.17	65,65,65,65	0
55	MG	BA	3549	1/1	0.90	0.25	68,68,68,68	0
55	MG	DA	3154	1/1	0.90	0.27	69,69,69,69	0
55	MG	BA	3057	1/1	0.90	0.10	70,70,70,70	0
55	MG	BA	3439	1/1	0.90	0.31	71,71,71,71	0
55	MG	BA	3269	1/1	0.90	0.28	61,61,61,61	0
55	MG	CA	1636	1/1	0.90	0.28	78,78,78,78	0
55	MG	DR	201	1/1	0.90	0.12	71,71,71,71	0
55	MG	DA	3167	1/1	0.90	0.31	70,70,70,70	0
55	MG	DA	3439	1/1	0.90	0.15	62,62,62,62	0
55	MG	DA	3168	1/1	0.90	0.23	49,49,49,49	0
55	MG	DA	3316	1/1	0.91	0.25	61,61,61,61	0
55	MG	CA	1793	1/1	0.91	0.30	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1634	1/1	0.91	0.27	62,62,62,62	0
55	MG	BA	3587	1/1	0.91	0.17	64,64,64,64	0
55	MG	DA	3172	1/1	0.91	0.27	88,88,88,88	0
55	MG	DA	3173	1/1	0.91	0.18	60,60,60,60	0
55	MG	DA	3175	1/1	0.91	0.38	83,83,83,83	0
55	MG	DA	3052	1/1	0.91	0.40	71,71,71,71	0
55	MG	DA	3181	1/1	0.91	0.32	50,50,50,50	0
55	MG	DA	3053	1/1	0.91	0.35	62,62,62,62	0
55	MG	DA	3334	1/1	0.91	0.14	68,68,68,68	0
55	MG	AA	1705	1/1	0.91	0.28	83,83,83,83	0
55	MG	DA	3186	1/1	0.91	0.23	60,60,60,60	0
55	MG	BA	3297	1/1	0.91	0.21	58,58,58,58	0
55	MG	BA	3299	1/1	0.91	0.37	89,89,89,89	0
55	MG	DA	3339	1/1	0.91	0.34	66,66,66,66	0
55	MG	CA	1666	1/1	0.91	0.28	71,71,71,71	0
55	MG	BA	3111	1/1	0.91	0.26	59,59,59,59	0
55	MG	BA	3359	1/1	0.91	0.33	79,79,79,79	0
55	MG	DA	3205	1/1	0.91	0.24	67,67,67,67	0
55	MG	CA	1669	1/1	0.91	0.10	60,60,60,60	0
55	MG	BA	3240	1/1	0.91	0.42	88,88,88,88	0
55	MG	DA	3346	1/1	0.91	0.32	75,75,75,75	0
55	MG	AA	1773	1/1	0.91	0.24	87,87,87,87	0
55	MG	DA	3348	1/1	0.91	0.37	73,73,73,73	0
55	MG	BA	3030	1/1	0.91	0.33	44,44,44,44	0
55	MG	DA	3214	1/1	0.91	0.18	40,40,40,40	0
55	MG	BA	3245	1/1	0.91	0.41	49,49,49,49	0
55	MG	DA	3352	1/1	0.91	0.28	64,64,64,64	0
55	MG	BA	3308	1/1	0.91	0.23	61,61,61,61	0
55	MG	BA	3167	1/1	0.91	0.32	73,73,73,73	0
55	MG	DA	3225	1/1	0.91	0.40	73,73,73,73	0
55	MG	AA	1642	1/1	0.91	0.47	72,72,72,72	0
55	MG	BA	3169	1/1	0.91	0.39	63,63,63,63	0
55	MG	AA	1631	1/1	0.91	0.17	66,66,66,66	0
55	MG	BA	3176	1/1	0.91	0.30	48,48,48,48	0
55	MG	DA	3232	1/1	0.91	0.29	44,44,44,44	0
55	MG	BA	3614	1/1	0.91	0.12	69,69,69,69	0
55	MG	CC	102	1/1	0.91	0.27	73,73,73,73	0
55	MG	CA	1619	1/1	0.91	0.25	61,61,61,61	0
55	MG	BA	3182	1/1	0.91	0.15	43,43,43,43	0
55	MG	BA	3616	1/1	0.91	0.18	58,58,58,58	0
55	MG	BA	3033	1/1	0.91	0.24	38,38,38,38	0
55	MG	BA	3120	1/1	0.91	0.23	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3370	1/1	0.91	0.13	67,67,67,67	0
55	MG	BA	3492	1/1	0.91	0.36	77,77,77,77	0
55	MG	DA	3087	1/1	0.91	0.29	63,63,63,63	0
55	MG	BA	3122	1/1	0.91	0.17	37,37,37,37	0
55	MG	DA	3003	1/1	0.91	0.18	64,64,64,64	0
55	MG	BA	3494	1/1	0.91	0.43	76,76,76,76	0
55	MG	BA	3193	1/1	0.91	0.32	85,85,85,85	0
55	MG	BA	3035	1/1	0.91	0.17	37,37,37,37	0
55	MG	DA	3265	1/1	0.91	0.23	50,50,50,50	0
55	MG	BA	3267	1/1	0.91	0.16	61,61,61,61	0
55	MG	DA	3267	1/1	0.91	0.24	64,64,64,64	0
55	MG	BA	3200	1/1	0.91	0.27	62,62,62,62	0
55	MG	CA	1634	1/1	0.91	0.35	77,77,77,77	0
55	MG	DA	3384	1/1	0.91	0.31	65,65,65,65	0
55	MG	DA	3012	1/1	0.91	0.37	66,66,66,66	0
55	MG	DA	3504	1/1	0.91	0.23	65,65,65,65	0
55	MG	DA	3106	1/1	0.91	0.27	48,48,48,48	0
55	MG	DA	3389	1/1	0.91	0.32	64,64,64,64	0
55	MG	DA	3107	1/1	0.91	0.24	53,53,53,53	0
55	MG	DA	3391	1/1	0.91	0.16	78,78,78,78	0
55	MG	DA	3110	1/1	0.91	0.29	58,58,58,58	0
55	MG	AA	1709	1/1	0.91	0.24	70,70,70,70	0
55	MG	CA	1700	1/1	0.91	0.33	77,77,77,77	0
55	MG	DA	3017	1/1	0.91	0.29	75,75,75,75	0
55	MG	AA	1645	1/1	0.91	0.33	50,50,50,50	0
55	MG	BA	3048	1/1	0.91	0.35	77,77,77,77	0
55	MG	AA	1815	1/1	0.91	0.45	84,84,84,84	0
55	MG	CA	1705	1/1	0.91	0.32	80,80,80,80	0
55	MG	AA	1796	1/1	0.91	0.22	75,75,75,75	0
55	MG	BA	3135	1/1	0.91	0.36	72,72,72,72	0
55	MG	BB	212	1/1	0.91	0.29	81,81,81,81	0
55	MG	AA	1658	1/1	0.91	0.31	49,49,49,49	0
55	MG	DA	3027	1/1	0.91	0.15	77,77,77,77	0
55	MG	BA	3281	1/1	0.91	0.33	72,72,72,72	0
55	MG	BA	3336	1/1	0.91	0.33	66,66,66,66	0
55	MG	AA	1712	1/1	0.91	0.28	78,78,78,78	0
55	MG	BA	3338	1/1	0.91	0.16	71,71,71,71	0
55	MG	BA	3516	1/1	0.91	0.34	78,78,78,78	0
55	MG	CA	1649	1/1	0.91	0.21	64,64,64,64	0
55	MG	AA	1837	1/1	0.91	0.26	73,73,73,73	0
55	MG	CA	1652	1/1	0.91	0.27	71,71,71,71	0
55	MG	AA	1839	1/1	0.91	0.30	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	AA	1669	1/1	0.91	0.33	68,68,68,68	0
55	MG	AA	1841	1/1	0.91	0.27	59,59,59,59	0
55	MG	AA	1660	1/1	0.91	0.33	53,53,53,53	0
55	MG	BA	3407	1/1	0.91	0.09	59,59,59,59	0
55	MG	AA	1741	1/1	0.91	0.26	67,67,67,67	0
55	MG	AA	1603	1/1	0.91	0.25	63,63,63,63	0
55	MG	DA	3158	1/1	0.91	0.34	44,44,44,44	0
55	MG	BA	3526	1/1	0.91	0.29	86,86,86,86	0
55	MG	DA	3314	1/1	0.91	0.32	76,76,76,76	0
55	MG	DA	3164	1/1	0.91	0.35	47,47,47,47	0
55	MG	D3	101	1/1	0.91	0.30	66,66,66,66	0
55	MG	BA	3503	1/1	0.92	0.18	65,65,65,65	0
55	MG	AA	1788	1/1	0.92	0.41	77,77,77,77	0
55	MG	DA	3016	1/1	0.92	0.33	78,78,78,78	0
55	MG	DA	3226	1/1	0.92	0.30	62,62,62,62	0
55	MG	AA	1632	1/1	0.92	0.21	67,67,67,67	0
55	MG	DA	3446	1/1	0.92	0.35	75,75,75,75	0
55	MG	AA	1602	1/1	0.92	0.20	79,79,79,79	0
55	MG	DA	3095	1/1	0.92	0.25	49,49,49,49	0
55	MG	BA	3070	1/1	0.92	0.12	63,63,63,63	0
55	MG	DA	3100	1/1	0.92	0.28	44,44,44,44	0
55	MG	BA	3003	1/1	0.92	0.27	47,47,47,47	0
55	MG	DA	3104	1/1	0.92	0.27	43,43,43,43	0
55	MG	BA	3153	1/1	0.92	0.27	52,52,52,52	0
55	MG	AA	1780	1/1	0.92	0.17	86,86,86,86	0
55	MG	DA	3108	1/1	0.92	0.21	54,54,54,54	0
55	MG	DA	3244	1/1	0.92	0.38	71,71,71,71	0
55	MG	BA	3006	1/1	0.92	0.24	38,38,38,38	0
55	MG	DA	3247	1/1	0.92	0.16	87,87,87,87	0
55	MG	BA	3235	1/1	0.92	0.28	54,54,54,54	0
55	MG	BA	3113	1/1	0.92	0.32	57,57,57,57	0
55	MG	BA	3578	1/1	0.92	0.34	81,81,81,81	0
55	MG	DA	3465	1/1	0.92	0.24	74,74,74,74	0
55	MG	DA	3359	1/1	0.92	0.31	76,76,76,76	0
55	MG	AA	1704	1/1	0.92	0.10	83,83,83,83	0
55	MG	BF	302	1/1	0.92	0.11	72,72,72,72	0
55	MG	DA	3030	1/1	0.92	0.23	74,74,74,74	0
55	MG	DA	3262	1/1	0.92	0.39	48,48,48,48	0
55	MG	AA	1697	1/1	0.92	0.23	84,84,84,84	0
55	MG	DA	3472	1/1	0.92	0.37	71,71,71,71	0
55	MG	BA	3051	1/1	0.92	0.21	74,74,74,74	0
55	MG	BA	3117	1/1	0.92	0.38	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3350	1/1	0.92	0.25	55,55,55,55	0
55	MG	BA	3052	1/1	0.92	0.17	64,64,64,64	0
55	MG	BA	3174	1/1	0.92	0.49	71,71,71,71	0
55	MG	AA	1629	1/1	0.92	0.17	86,86,86,86	0
55	MG	BA	3181	1/1	0.92	0.24	39,39,39,39	0
55	MG	BA	3469	1/1	0.92	0.21	60,60,60,60	0
55	MG	BA	3249	1/1	0.92	0.13	30,30,30,30	0
55	MG	BA	3471	1/1	0.92	0.24	72,72,72,72	0
55	MG	BA	3251	1/1	0.92	0.34	68,68,68,68	0
55	MG	AA	1723	1/1	0.92	0.34	84,84,84,84	0
55	MG	DA	3145	1/1	0.92	0.34	60,60,60,60	0
55	MG	CA	1733	1/1	0.92	0.36	69,69,69,69	0
55	MG	DA	3488	1/1	0.92	0.25	86,86,86,86	0
55	MG	BA	3184	1/1	0.92	0.12	39,39,39,39	0
55	MG	BA	3126	1/1	0.92	0.33	46,46,46,46	0
55	MG	AN	202	1/1	0.92	0.19	82,82,82,82	0
55	MG	BA	3601	1/1	0.92	0.25	85,85,85,85	0
55	MG	DA	3284	1/1	0.92	0.25	56,56,56,56	0
55	MG	DA	3285	1/1	0.92	0.19	50,50,50,50	0
55	MG	DA	3286	1/1	0.92	0.08	47,47,47,47	0
55	MG	BA	3188	1/1	0.92	0.28	60,60,60,60	0
55	MG	BA	3421	1/1	0.92	0.24	62,62,62,62	0
55	MG	BA	3056	1/1	0.92	0.18	54,54,54,54	0
55	MG	DA	3157	1/1	0.92	0.31	47,47,47,47	0
55	MG	BA	3129	1/1	0.92	0.34	52,52,52,52	0
55	MG	CA	1679	1/1	0.92	0.38	85,85,85,85	0
55	MG	CA	1615	1/1	0.92	0.22	81,81,81,81	0
55	MG	BA	3020	1/1	0.92	0.34	41,41,41,41	0
55	MG	DA	3166	1/1	0.92	0.31	58,58,58,58	0
55	MG	BA	3058	1/1	0.92	0.17	62,62,62,62	0
55	MG	BA	3320	1/1	0.92	0.23	62,62,62,62	0
55	MG	BA	3429	1/1	0.92	0.09	75,75,75,75	0
55	MG	CA	1620	1/1	0.92	0.34	64,64,64,64	0
55	MG	BA	3430	1/1	0.92	0.16	57,57,57,57	0
55	MG	BA	3372	1/1	0.92	0.16	73,73,73,73	0
55	MG	BA	3090	1/1	0.92	0.36	49,49,49,49	0
55	MG	BA	3021	1/1	0.92	0.30	41,41,41,41	0
55	MG	DA	3184	1/1	0.92	0.42	61,61,61,61	0
55	MG	BA	3096	1/1	0.92	0.32	56,56,56,56	0
55	MG	BA	3620	1/1	0.92	0.29	68,68,68,68	0
55	MG	DA	3189	1/1	0.92	0.26	41,41,41,41	0
55	MG	BA	3097	1/1	0.92	0.28	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3024	1/1	0.92	0.21	27,27,27,27	0
55	MG	BA	3556	1/1	0.92	0.30	58,58,58,58	0
55	MG	DA	3318	1/1	0.92	0.18	63,63,63,63	0
55	MG	CA	1631	1/1	0.92	0.12	81,81,81,81	0
55	MG	DA	3421	1/1	0.92	0.21	62,62,62,62	0
55	MG	DB	201	1/1	0.92	0.32	81,81,81,81	0
55	MG	AA	1646	1/1	0.92	0.23	67,67,67,67	0
55	MG	DA	3424	1/1	0.92	0.32	70,70,70,70	0
55	MG	DA	3204	1/1	0.92	0.23	51,51,51,51	0
55	MG	BA	3440	1/1	0.92	0.35	74,74,74,74	0
55	MG	AA	1821	1/1	0.92	0.30	75,75,75,75	0
55	MG	DA	3328	1/1	0.92	0.21	47,47,47,47	0
55	MG	BA	3331	1/1	0.92	0.19	65,65,65,65	0
55	MG	BA	3386	1/1	0.92	0.28	59,59,59,59	0
55	MG	DA	3431	1/1	0.92	0.38	91,91,91,91	0
55	MG	DA	3210	1/1	0.92	0.28	63,63,63,63	0
55	MG	DA	3433	1/1	0.92	0.37	57,57,57,57	0
55	MG	DE	301	1/1	0.92	0.22	41,41,41,41	0
55	MG	CA	1701	1/1	0.92	0.40	88,88,88,88	0
55	MG	BA	3066	1/1	0.92	0.29	62,62,62,62	0
55	MG	DA	3216	1/1	0.92	0.15	49,49,49,49	0
55	MG	DA	3013	1/1	0.92	0.37	56,56,56,56	0
55	MG	DA	3220	1/1	0.92	0.30	66,66,66,66	0
55	MG	DA	3221	1/1	0.92	0.45	63,63,63,63	0
56	ZN	AQ	102	1/1	0.92	0.15	122,122,122,122	0
55	MG	DA	3109	1/1	0.93	0.22	65,65,65,65	0
55	MG	DA	3235	1/1	0.93	0.26	48,48,48,48	0
55	MG	BA	3095	1/1	0.93	0.24	37,37,37,37	0
55	MG	DA	3021	1/1	0.93	0.24	51,51,51,51	0
55	MG	AA	1784	1/1	0.93	0.39	66,66,66,66	0
55	MG	AA	1771	1/1	0.93	0.07	70,70,70,70	0
55	MG	BA	3050	1/1	0.93	0.24	39,39,39,39	0
55	MG	BA	3234	1/1	0.93	0.35	86,86,86,86	0
55	MG	BA	3294	1/1	0.93	0.27	72,72,72,72	0
55	MG	AA	1644	1/1	0.93	0.13	62,62,62,62	0
55	MG	DA	3457	1/1	0.93	0.33	65,65,65,65	0
55	MG	DA	3121	1/1	0.93	0.19	64,64,64,64	0
55	MG	BA	3296	1/1	0.93	0.25	53,53,53,53	0
55	MG	DA	3460	1/1	0.93	0.37	72,72,72,72	0
55	MG	BA	3236	1/1	0.93	0.30	52,52,52,52	0
55	MG	A1	101	1/1	0.93	0.15	66,66,66,66	0
55	MG	BA	3483	1/1	0.93	0.25	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3173	1/1	0.93	0.33	52,52,52,52	0
55	MG	BA	3023	1/1	0.93	0.23	45,45,45,45	0
55	MG	A1	102	1/1	0.93	0.30	86,86,86,86	0
55	MG	DA	3134	1/1	0.93	0.23	72,72,72,72	0
55	MG	BA	3180	1/1	0.93	0.24	37,37,37,37	0
55	MG	DA	3137	1/1	0.93	0.23	82,82,82,82	0
55	MG	BA	3365	1/1	0.93	0.16	50,50,50,50	0
55	MG	CA	1643	1/1	0.93	0.28	82,82,82,82	0
55	MG	BA	3428	1/1	0.93	0.32	68,68,68,68	0
55	MG	DA	3474	1/1	0.93	0.30	83,83,83,83	0
55	MG	AA	1699	1/1	0.93	0.19	64,64,64,64	0
55	MG	BA	3028	1/1	0.93	0.33	46,46,46,46	0
55	MG	AA	1619	1/1	0.93	0.24	63,63,63,63	0
55	MG	BA	3081	1/1	0.93	0.29	75,75,75,75	0
55	MG	BA	3082	1/1	0.93	0.32	64,64,64,64	0
55	MG	DA	3046	1/1	0.93	0.20	65,65,65,65	0
55	MG	CA	1650	1/1	0.93	0.21	102,102,102,102	0
55	MG	AA	1829	1/1	0.93	0.35	77,77,77,77	0
55	MG	CA	1794	1/1	0.93	0.28	74,74,74,74	0
55	MG	CA	1721	1/1	0.93	0.24	80,80,80,80	0
55	MG	BA	3189	1/1	0.93	0.31	49,49,49,49	0
55	MG	BA	3567	1/1	0.93	0.31	80,80,80,80	0
55	MG	DA	3385	1/1	0.93	0.39	62,62,62,62	0
55	MG	DA	3160	1/1	0.93	0.20	49,49,49,49	0
55	MG	BA	3374	1/1	0.93	0.34	71,71,71,71	0
55	MG	DA	3388	1/1	0.93	0.18	74,74,74,74	0
55	MG	DA	3288	1/1	0.93	0.22	47,47,47,47	0
55	MG	BA	3190	1/1	0.93	0.23	63,63,63,63	0
55	MG	BA	3502	1/1	0.93	0.21	67,67,67,67	0
55	MG	CA	1728	1/1	0.93	0.33	69,69,69,69	0
55	MG	DA	3060	1/1	0.93	0.38	73,73,73,73	0
55	MG	AA	1799	1/1	0.93	0.34	78,78,78,78	0
55	MG	DA	3169	1/1	0.93	0.23	69,69,69,69	0
55	MG	BA	3572	1/1	0.93	0.25	87,87,87,87	0
55	MG	BA	3144	1/1	0.93	0.23	48,48,48,48	0
55	MG	AA	1664	1/1	0.93	0.10	45,45,45,45	0
55	MG	DA	3176	1/1	0.93	0.33	65,65,65,65	0
55	MG	BA	3197	1/1	0.93	0.38	46,46,46,46	0
55	MG	BA	3319	1/1	0.93	0.25	65,65,65,65	0
55	MG	AA	1622	1/1	0.93	0.23	76,76,76,76	0
55	MG	BA	3147	1/1	0.93	0.12	55,55,55,55	0
55	MG	BA	3148	1/1	0.93	0.17	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3063	1/1	0.93	0.07	43,43,43,43	0
55	MG	DA	3187	1/1	0.93	0.22	42,42,42,42	0
55	MG	BA	3453	1/1	0.93	0.34	60,60,60,60	0
55	MG	DA	3512	1/1	0.93	0.33	75,75,75,75	0
55	MG	BA	3515	1/1	0.93	0.22	72,72,72,72	0
55	MG	BA	3150	1/1	0.93	0.27	36,36,36,36	0
55	MG	BA	3270	1/1	0.93	0.09	76,76,76,76	0
55	MG	CC	103	1/1	0.93	0.36	72,72,72,72	0
55	MG	CA	1672	1/1	0.93	0.29	75,75,75,75	0
55	MG	DA	3198	1/1	0.93	0.21	47,47,47,47	0
55	MG	DA	3317	1/1	0.93	0.16	81,81,81,81	0
55	MG	DA	3418	1/1	0.93	0.35	78,78,78,78	0
55	MG	DA	3202	1/1	0.93	0.29	47,47,47,47	0
55	MG	BA	3208	1/1	0.93	0.06	45,45,45,45	0
55	MG	BA	3209	1/1	0.93	0.25	39,39,39,39	0
55	MG	BA	3520	1/1	0.93	0.29	44,44,44,44	0
55	MG	DA	3324	1/1	0.93	0.29	78,78,78,78	0
55	MG	BA	3590	1/1	0.93	0.27	63,63,63,63	0
55	MG	AA	1783	1/1	0.93	0.42	67,67,67,67	0
55	MG	BA	3395	1/1	0.93	0.14	72,72,72,72	0
55	MG	BA	3015	1/1	0.93	0.20	38,38,38,38	0
55	MG	BA	3119	1/1	0.93	0.24	62,62,62,62	0
55	MG	DA	3215	1/1	0.93	0.24	42,42,42,42	0
55	MG	BA	3398	1/1	0.93	0.29	70,70,70,70	0
55	MG	BA	3218	1/1	0.93	0.26	48,48,48,48	0
55	MG	BA	3279	1/1	0.93	0.13	70,70,70,70	0
55	MG	BA	3154	1/1	0.93	0.21	55,55,55,55	0
55	MG	BA	3602	1/1	0.93	0.26	67,67,67,67	0
55	MG	BA	3155	1/1	0.93	0.08	45,45,45,45	0
55	MG	BA	3283	1/1	0.93	0.25	49,49,49,49	0
55	MG	BA	3284	1/1	0.93	0.34	56,56,56,56	0
55	MG	DE	303	1/1	0.93	0.32	56,56,56,56	0
55	MG	BA	3045	1/1	0.93	0.25	45,45,45,45	0
55	MG	CA	1623	1/1	0.93	0.15	90,90,90,90	0
55	MG	DA	3229	1/1	0.93	0.40	62,62,62,62	0
55	MG	BA	3121	1/1	0.93	0.25	57,57,57,57	0
55	MG	BA	3163	1/1	0.93	0.38	50,50,50,50	0
55	MG	BA	3288	1/1	0.93	0.33	76,76,76,76	0
55	MG	DA	3245	1/1	0.94	0.35	60,60,60,60	0
55	MG	DA	3142	1/1	0.94	0.27	40,40,40,40	0
55	MG	AA	1811	1/1	0.94	0.33	67,67,67,67	0
55	MG	BA	3022	1/1	0.94	0.27	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3002	1/1	0.94	0.26	43,43,43,43	0
55	MG	DA	3250	1/1	0.94	0.29	63,63,63,63	0
55	MG	DA	3147	1/1	0.94	0.26	53,53,53,53	0
55	MG	BA	3373	1/1	0.94	0.30	64,64,64,64	0
55	MG	DA	3149	1/1	0.94	0.35	57,57,57,57	0
55	MG	DA	3255	1/1	0.94	0.20	75,75,75,75	0
55	MG	DA	3256	1/1	0.94	0.23	49,49,49,49	0
55	MG	DA	3257	1/1	0.94	0.19	49,49,49,49	0
55	MG	DA	3360	1/1	0.94	0.19	65,65,65,65	0
55	MG	BA	3326	1/1	0.94	0.23	52,52,52,52	0
55	MG	DA	3463	1/1	0.94	0.16	73,73,73,73	0
55	MG	DA	3261	1/1	0.94	0.27	58,58,58,58	0
55	MG	BA	3237	1/1	0.94	0.36	57,57,57,57	0
55	MG	AA	1830	1/1	0.94	0.30	73,73,73,73	0
55	MG	BA	3130	1/1	0.94	0.29	44,44,44,44	0
55	MG	BA	3427	1/1	0.94	0.26	65,65,65,65	0
55	MG	DA	3069	1/1	0.94	0.32	60,60,60,60	0
55	MG	BA	3025	1/1	0.94	0.23	42,42,42,42	0
55	MG	DA	3071	1/1	0.94	0.19	81,81,81,81	0
55	MG	BA	3194	1/1	0.94	0.28	68,68,68,68	0
55	MG	DA	3006	1/1	0.94	0.23	71,71,71,71	0
55	MG	BA	3159	1/1	0.94	0.29	58,58,58,58	0
55	MG	AG	301	1/1	0.94	0.38	81,81,81,81	0
55	MG	DA	3076	1/1	0.94	0.25	86,86,86,86	0
55	MG	DA	3077	1/1	0.94	0.10	64,64,64,64	0
55	MG	BA	3161	1/1	0.94	0.10	56,56,56,56	0
55	MG	BA	3201	1/1	0.94	0.45	66,66,66,66	0
55	MG	DA	3170	1/1	0.94	0.41	68,68,68,68	0
55	MG	BA	3589	1/1	0.94	0.18	41,41,41,41	0
55	MG	DA	3280	1/1	0.94	0.30	46,46,46,46	0
55	MG	BA	3434	1/1	0.94	0.34	75,75,75,75	0
55	MG	BA	3202	1/1	0.94	0.22	51,51,51,51	0
55	MG	BA	3162	1/1	0.94	0.29	45,45,45,45	0
55	MG	DA	3177	1/1	0.94	0.30	74,74,74,74	0
55	MG	DA	3178	1/1	0.94	0.31	59,59,59,59	0
55	MG	BA	3539	1/1	0.94	0.12	74,74,74,74	0
55	MG	AA	1659	1/1	0.94	0.32	69,69,69,69	0
55	MG	BA	3029	1/1	0.94	0.28	35,35,35,35	0
55	MG	BA	3597	1/1	0.94	0.26	79,79,79,79	0
55	MG	BA	3542	1/1	0.94	0.28	72,72,72,72	0
55	MG	BA	3599	1/1	0.94	0.32	69,69,69,69	0
55	MG	BA	3007	1/1	0.94	0.41	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3294	1/1	0.94	0.19	64,64,64,64	0
55	MG	BA	3544	1/1	0.94	0.23	72,72,72,72	0
55	MG	DA	3296	1/1	0.94	0.39	51,51,51,51	0
55	MG	DA	3190	1/1	0.94	0.32	61,61,61,61	0
55	MG	DA	3191	1/1	0.94	0.26	46,46,46,46	0
55	MG	BA	3545	1/1	0.94	0.18	69,69,69,69	0
55	MG	AA	1745	1/1	0.94	0.41	67,67,67,67	0
55	MG	BA	3255	1/1	0.94	0.23	46,46,46,46	0
55	MG	DA	3195	1/1	0.94	0.32	70,70,70,70	0
55	MG	DA	3404	1/1	0.94	0.13	61,61,61,61	0
55	MG	BA	3443	1/1	0.94	0.21	77,77,77,77	0
55	MG	DA	3098	1/1	0.94	0.15	68,68,68,68	0
55	MG	AA	1627	1/1	0.94	0.27	53,53,53,53	0
55	MG	DA	3102	1/1	0.94	0.20	51,51,51,51	0
55	MG	BA	3346	1/1	0.94	0.16	51,51,51,51	0
55	MG	BA	3610	1/1	0.94	0.34	61,61,61,61	0
55	MG	DA	3105	1/1	0.94	0.20	45,45,45,45	0
55	MG	CA	1792	1/1	0.94	0.31	70,70,70,70	0
55	MG	BA	3302	1/1	0.94	0.24	26,26,26,26	0
55	MG	DA	3033	1/1	0.94	0.17	62,62,62,62	0
55	MG	DA	3211	1/1	0.94	0.25	42,42,42,42	0
55	MG	AA	1806	1/1	0.94	0.22	81,81,81,81	0
55	MG	DA	3213	1/1	0.94	0.24	41,41,41,41	0
55	MG	DA	3520	1/1	0.94	0.34	76,76,76,76	0
55	MG	BA	3034	1/1	0.94	0.22	41,41,41,41	0
55	MG	BA	3401	1/1	0.94	0.23	62,62,62,62	0
55	MG	BA	3259	1/1	0.94	0.13	40,40,40,40	0
55	MG	DA	3217	1/1	0.94	0.26	55,55,55,55	0
55	MG	BA	3260	1/1	0.94	0.25	47,47,47,47	0
55	MG	DA	3325	1/1	0.94	0.34	73,73,73,73	0
55	MG	AA	1652	1/1	0.94	0.34	81,81,81,81	0
55	MG	BA	3217	1/1	0.94	0.18	52,52,52,52	0
55	MG	AA	1800	1/1	0.94	0.38	82,82,82,82	0
55	MG	DA	3223	1/1	0.94	0.24	52,52,52,52	0
55	MG	BA	3040	1/1	0.94	0.31	54,54,54,54	0
55	MG	BA	3177	1/1	0.94	0.28	57,57,57,57	0
55	MG	BA	3409	1/1	0.94	0.13	68,68,68,68	0
55	MG	CA	1746	1/1	0.94	0.37	57,57,57,57	0
55	MG	BA	3564	1/1	0.94	0.28	84,84,84,84	0
55	MG	BA	3179	1/1	0.94	0.36	64,64,64,64	0
55	MG	BA	3017	1/1	0.94	0.23	25,25,25,25	0
55	MG	DA	3050	1/1	0.94	0.33	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3130	1/1	0.94	0.13	60,60,60,60	0
55	MG	DA	3233	1/1	0.94	0.33	52,52,52,52	0
55	MG	BA	3018	1/1	0.94	0.26	54,54,54,54	0
55	MG	AA	1722	1/1	0.94	0.35	68,68,68,68	0
55	MG	BA	3183	1/1	0.94	0.14	47,47,47,47	0
55	MG	AA	1717	1/1	0.94	0.32	74,74,74,74	0
55	MG	BA	3125	1/1	0.94	0.42	52,52,52,52	0
55	MG	BB	210	1/1	0.94	0.34	64,64,64,64	0
55	MG	BA	3233	1/1	0.94	0.22	48,48,48,48	0
56	ZN	CG	303	1/1	0.94	0.21	118,118,118,118	0
55	MG	BA	3165	1/1	0.95	0.36	61,61,61,61	0
55	MG	BA	3141	1/1	0.95	0.26	35,35,35,35	0
55	MG	BA	3383	1/1	0.95	0.20	71,71,71,71	0
55	MG	DA	3392	1/1	0.95	0.35	68,68,68,68	0
55	MG	CA	1613	1/1	0.95	0.20	68,68,68,68	0
55	MG	BA	3307	1/1	0.95	0.31	39,39,39,39	0
55	MG	BA	3199	1/1	0.95	0.22	49,49,49,49	0
55	MG	AA	1691	1/1	0.95	0.34	50,50,50,50	0
55	MG	CA	1726	1/1	0.95	0.48	75,75,75,75	0
55	MG	BA	3344	1/1	0.95	0.25	55,55,55,55	0
55	MG	DA	3240	1/1	0.95	0.29	42,42,42,42	0
55	MG	DA	3163	1/1	0.95	0.40	62,62,62,62	0
55	MG	BA	3004	1/1	0.95	0.27	35,35,35,35	0
55	MG	BA	3389	1/1	0.95	0.17	59,59,59,59	0
55	MG	CA	1674	1/1	0.95	0.10	70,70,70,70	0
55	MG	AA	1798	1/1	0.95	0.16	58,58,58,58	0
55	MG	CA	1676	1/1	0.95	0.38	55,55,55,55	0
55	MG	AA	1641	1/1	0.95	0.19	57,57,57,57	0
55	MG	AA	1792	1/1	0.95	0.11	55,55,55,55	0
55	MG	DA	3408	1/1	0.95	0.08	73,73,73,73	0
55	MG	DA	3171	1/1	0.95	0.31	63,63,63,63	0
55	MG	DA	3489	1/1	0.95	0.10	71,71,71,71	0
55	MG	DA	3252	1/1	0.95	0.26	64,64,64,64	0
55	MG	AA	1676	1/1	0.95	0.24	70,70,70,70	0
55	MG	BA	3436	1/1	0.95	0.19	59,59,59,59	0
55	MG	DA	3174	1/1	0.95	0.27	44,44,44,44	0
55	MG	BA	3175	1/1	0.95	0.10	69,69,69,69	0
55	MG	DA	3097	1/1	0.95	0.19	52,52,52,52	0
55	MG	DA	3258	1/1	0.95	0.13	37,37,37,37	0
55	MG	CA	1738	1/1	0.95	0.32	63,63,63,63	0
55	MG	DA	3099	1/1	0.95	0.14	40,40,40,40	0
55	MG	DA	3035	1/1	0.95	0.16	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3420	1/1	0.95	0.18	67,67,67,67	0
55	MG	DA	3180	1/1	0.95	0.29	52,52,52,52	0
55	MG	BB	205	1/1	0.95	0.26	74,74,74,74	0
55	MG	DA	3423	1/1	0.95	0.39	75,75,75,75	0
55	MG	BA	3576	1/1	0.95	0.24	74,74,74,74	0
55	MG	BA	3352	1/1	0.95	0.29	76,76,76,76	0
55	MG	BA	3353	1/1	0.95	0.29	52,52,52,52	0
55	MG	BA	3207	1/1	0.95	0.30	41,41,41,41	0
55	MG	BA	3356	1/1	0.95	0.33	70,70,70,70	0
55	MG	DA	3188	1/1	0.95	0.47	56,56,56,56	0
55	MG	BA	3037	1/1	0.95	0.20	44,44,44,44	0
55	MG	BA	3009	1/1	0.95	0.17	36,36,36,36	0
55	MG	BA	3039	1/1	0.95	0.21	42,42,42,42	0
55	MG	BA	3250	1/1	0.95	0.19	60,60,60,60	0
55	MG	AA	1623	1/1	0.95	0.36	65,65,65,65	0
55	MG	DA	3114	1/1	0.95	0.41	54,54,54,54	0
55	MG	DA	3115	1/1	0.95	0.26	49,49,49,49	0
55	MG	BA	3538	1/1	0.95	0.36	66,66,66,66	0
55	MG	BA	3322	1/1	0.95	0.37	64,64,64,64	0
55	MG	CN	201	1/1	0.95	0.15	74,74,74,74	0
55	MG	BA	3061	1/1	0.95	0.44	61,61,61,61	0
55	MG	DA	3203	1/1	0.95	0.14	48,48,48,48	0
55	MG	BA	3041	1/1	0.95	0.23	46,46,46,46	0
55	MG	BA	3451	1/1	0.95	0.31	65,65,65,65	0
55	MG	DA	3444	1/1	0.95	0.10	73,73,73,73	0
55	MG	BA	3497	1/1	0.95	0.28	71,71,71,71	0
55	MG	BA	3013	1/1	0.95	0.29	34,34,34,34	0
55	MG	AN	201	1/1	0.95	0.16	68,68,68,68	0
55	MG	DB	203	1/1	0.95	0.25	66,66,66,66	0
55	MG	BA	3047	1/1	0.95	0.35	74,74,74,74	0
55	MG	BA	3186	1/1	0.95	0.21	36,36,36,36	0
55	MG	BA	3329	1/1	0.95	0.29	65,65,65,65	0
55	MG	BU	201	1/1	0.95	0.21	81,81,81,81	0
55	MG	BA	3158	1/1	0.95	0.14	41,41,41,41	0
55	MG	BA	3504	1/1	0.95	0.22	45,45,45,45	0
55	MG	B5	101	1/1	0.95	0.17	45,45,45,45	0
55	MG	BA	3027	1/1	0.95	0.28	36,36,36,36	0
55	MG	AA	1663	1/1	0.95	0.10	47,47,47,47	0
55	MG	BA	3262	1/1	0.95	0.36	33,33,33,33	0
55	MG	BA	3554	1/1	0.95	0.28	45,45,45,45	0
55	MG	BA	3508	1/1	0.95	0.31	59,59,59,59	0
55	MG	BA	3605	1/1	0.95	0.34	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3263	1/1	0.95	0.43	54,54,54,54	0
55	MG	BA	3091	1/1	0.95	0.25	35,35,35,35	0
55	MG	DA	3306	1/1	0.95	0.33	65,65,65,65	0
55	MG	BA	3138	1/1	0.95	0.41	46,46,46,46	0
55	MG	BA	3139	1/1	0.95	0.24	35,35,35,35	0
55	MG	D5	2001	1/1	0.95	0.23	46,46,46,46	0
55	MG	AA	1701	1/1	0.95	0.17	70,70,70,70	0
55	MG	CA	1776	1/1	0.95	0.34	71,71,71,71	0
55	MG	BF	301	1/1	0.96	0.07	73,73,73,73	0
55	MG	BA	3224	1/1	0.96	0.11	55,55,55,55	0
55	MG	DA	3141	1/1	0.96	0.30	38,38,38,38	0
55	MG	BA	3100	1/1	0.96	0.25	42,42,42,42	0
55	MG	DA	3495	1/1	0.96	0.14	63,63,63,63	0
55	MG	BA	3064	1/1	0.96	0.10	49,49,49,49	0
55	MG	DA	3144	1/1	0.96	0.24	60,60,60,60	0
55	MG	DA	3200	1/1	0.96	0.29	44,44,44,44	0
55	MG	DA	3201	1/1	0.96	0.12	47,47,47,47	0
55	MG	DA	3260	1/1	0.96	0.35	41,41,41,41	0
55	MG	BA	3612	1/1	0.96	0.36	66,66,66,66	0
55	MG	DA	3321	1/1	0.96	0.41	66,66,66,66	0
55	MG	DA	3009	1/1	0.96	0.25	68,68,68,68	0
55	MG	CA	1671	1/1	0.96	0.31	49,49,49,49	0
55	MG	B0	201	1/1	0.96	0.20	51,51,51,51	0
55	MG	BA	3124	1/1	0.96	0.39	45,45,45,45	0
55	MG	DA	3055	1/1	0.96	0.44	68,68,68,68	0
55	MG	AA	1608	1/1	0.96	0.18	64,64,64,64	0
55	MG	DA	3152	1/1	0.96	0.13	67,67,67,67	0
55	MG	BA	3261	1/1	0.96	0.36	52,52,52,52	0
55	MG	BA	3230	1/1	0.96	0.44	56,56,56,56	0
55	MG	BA	3198	1/1	0.96	0.09	45,45,45,45	0
55	MG	BA	3172	1/1	0.96	0.17	34,34,34,34	0
55	MG	BA	3103	1/1	0.96	0.29	52,52,52,52	0
55	MG	BA	3083	1/1	0.96	0.10	62,62,62,62	0
55	MG	AC	104	1/1	0.96	0.24	56,56,56,56	0
55	MG	AA	1719	1/1	0.96	0.21	79,79,79,79	0
55	MG	BA	3107	1/1	0.96	0.26	36,36,36,36	0
55	MG	DA	3278	1/1	0.96	0.28	42,42,42,42	0
55	MG	BA	3271	1/1	0.96	0.07	35,35,35,35	0
55	MG	DA	3111	1/1	0.96	0.17	52,52,52,52	0
55	MG	AA	1763	1/1	0.96	0.31	53,53,53,53	0
55	MG	BA	3306	1/1	0.96	0.21	67,67,67,67	0
55	MG	BA	3042	1/1	0.96	0.17	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	BA	3274	1/1	0.96	0.15	46,46,46,46	0
55	MG	BA	3043	1/1	0.96	0.11	32,32,32,32	0
55	MG	BA	3011	1/1	0.96	0.19	42,42,42,42	0
55	MG	DA	3287	1/1	0.96	0.36	65,65,65,65	0
55	MG	BA	3012	1/1	0.96	0.20	45,45,45,45	0
55	MG	DB	204	1/1	0.96	0.25	82,82,82,82	0
55	MG	BA	3488	1/1	0.96	0.24	80,80,80,80	0
55	MG	BA	3046	1/1	0.96	0.22	39,39,39,39	0
55	MG	BA	3092	1/1	0.96	0.25	32,32,32,32	0
55	MG	DA	3122	1/1	0.96	0.32	46,46,46,46	0
55	MG	BA	3347	1/1	0.96	0.30	68,68,68,68	0
55	MG	BB	213	1/1	0.96	0.29	66,66,66,66	0
55	MG	DA	3079	1/1	0.96	0.29	54,54,54,54	0
55	MG	DA	3126	1/1	0.96	0.11	41,41,41,41	0
55	MG	DA	3238	1/1	0.96	0.31	60,60,60,60	0
55	MG	BA	3280	1/1	0.96	0.30	50,50,50,50	0
55	MG	BA	3213	1/1	0.96	0.37	49,49,49,49	0
55	MG	DA	3241	1/1	0.96	0.23	46,46,46,46	0
55	MG	BA	3093	1/1	0.96	0.18	57,57,57,57	0
55	MG	AA	1673	1/1	0.96	0.29	78,78,78,78	0
55	MG	AA	1671	1/1	0.96	0.14	67,67,67,67	0
55	MG	DA	3132	1/1	0.96	0.14	53,53,53,53	0
55	MG	AA	1838	1/1	0.96	0.21	61,61,61,61	0
55	MG	DA	3135	1/1	0.96	0.19	49,49,49,49	0
55	MG	BA	3079	1/1	0.96	0.31	55,55,55,55	0
56	ZN	AG	302	1/1	0.96	0.23	95,95,95,95	0
55	MG	AA	1750	1/1	0.96	0.36	62,62,62,62	0
55	MG	BA	3192	1/1	0.96	0.16	34,34,34,34	0
55	MG	DA	3159	1/1	0.97	0.12	37,37,37,37	0
55	MG	DA	3299	1/1	0.97	0.15	38,38,38,38	0
55	MG	BA	3220	1/1	0.97	0.21	44,44,44,44	0
55	MG	BA	3450	1/1	0.97	0.08	54,54,54,54	0
55	MG	DA	3243	1/1	0.97	0.30	79,79,79,79	0
55	MG	BA	3231	1/1	0.97	0.36	73,73,73,73	0
55	MG	BA	3452	1/1	0.97	0.24	41,41,41,41	0
55	MG	BA	3074	1/1	0.97	0.29	49,49,49,49	0
55	MG	AA	1707	1/1	0.97	0.31	50,50,50,50	0
55	MG	DA	3219	1/1	0.97	0.14	70,70,70,70	0
55	MG	BA	3390	1/1	0.97	0.30	60,60,60,60	0
55	MG	BA	3214	1/1	0.97	0.27	67,67,67,67	0
55	MG	AA	1842	1/1	0.97	0.27	59,59,59,59	0
55	MG	DA	3374	1/1	0.97	0.32	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	MG	DA	3054	1/1	0.97	0.22	58,58,58,58	0
55	MG	BA	3377	1/1	0.97	0.41	62,62,62,62	0
55	MG	BA	3298	1/1	0.97	0.26	65,65,65,65	0
55	MG	DA	3101	1/1	0.97	0.18	43,43,43,43	0
55	MG	DA	3199	1/1	0.97	0.26	61,61,61,61	0
55	MG	BE	303	1/1	0.97	0.28	44,44,44,44	0
55	MG	BA	3410	1/1	0.97	0.30	62,62,62,62	0
55	MG	BA	3216	1/1	0.97	0.17	33,33,33,33	0
55	MG	BA	3608	1/1	0.97	0.23	39,39,39,39	0
55	MG	BA	3196	1/1	0.97	0.15	33,33,33,33	0
55	MG	BA	3123	1/1	0.97	0.11	51,51,51,51	0
55	MG	DA	3206	1/1	0.97	0.42	65,65,65,65	0
55	MG	DA	3323	1/1	0.97	0.09	42,42,42,42	0
55	MG	BA	3228	1/1	0.97	0.51	72,72,72,72	0
55	MG	BA	3099	1/1	0.97	0.37	67,67,67,67	0
55	MG	DA	3182	1/1	0.97	0.37	44,44,44,44	0
55	MG	BA	3241	1/1	0.97	0.27	60,60,60,60	0
55	MG	B1	201	1/1	0.97	0.21	47,47,47,47	0
55	MG	BA	3077	1/1	0.98	0.20	54,54,54,54	0
55	MG	DA	3329	1/1	0.98	0.15	44,44,44,44	0
55	MG	DA	3161	1/1	0.98	0.19	45,45,45,45	0
55	MG	BA	3596	1/1	0.98	0.29	55,55,55,55	0
55	MG	BA	3171	1/1	0.98	0.33	61,61,61,61	0
55	MG	BA	3036	1/1	0.98	0.29	44,44,44,44	0
55	MG	DP	201	1/1	0.98	0.25	65,65,65,65	0
55	MG	BA	3212	1/1	0.98	0.32	43,43,43,43	0
55	MG	BA	3264	1/1	0.98	0.08	30,30,30,30	0
55	MG	BA	3243	1/1	0.98	0.31	48,48,48,48	0
55	MG	BA	3491	1/1	0.98	0.34	42,42,42,42	0
55	MG	BA	3157	1/1	0.98	0.37	45,45,45,45	0
55	MG	BA	3382	1/1	0.98	0.26	43,43,43,43	0
55	MG	BA	3355	1/1	0.98	0.31	46,46,46,46	0
55	MG	BA	3178	1/1	0.98	0.20	36,36,36,36	0
55	MG	DA	3133	1/1	0.98	0.23	42,42,42,42	0
56	ZN	CQ	101	1/1	0.98	0.05	120,120,120,120	0

6.5 Other polymers (i)

There are no such residues in this entry.