Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 09:01 PM UTC

PDB ID	:	4V5E / pdb_00004v5e
Title	:	Insights into translational termination from the structure of RF2 bound to the ribosome
Authors	:	Weixlbaumer, A.; Jin, H.; Neubauer, C.; Voorhees, R.M.; Petry, S.; Kelley, A.C.; Ramakrishnan, V.
Deposited on	:	2009-04-30
Resolution	:	3.45 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:

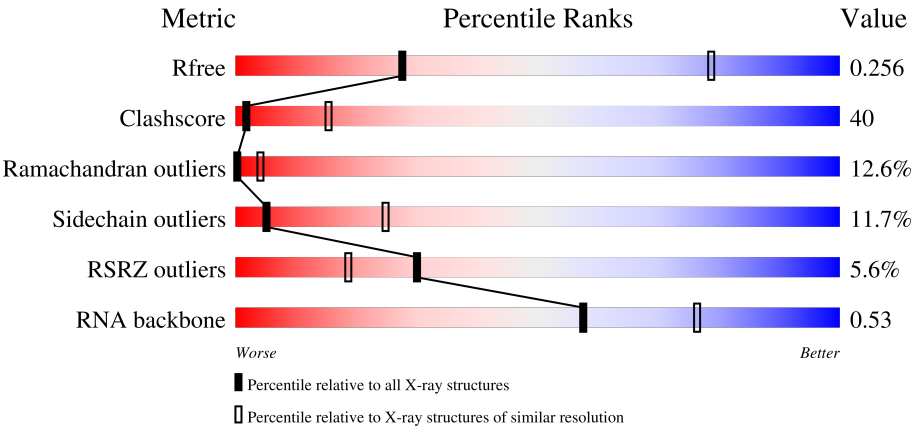
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
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 3.45 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	1070 (3.50-3.42)
Clashscore	190562	1128 (3.50-3.42)
Ramachandran outliers	187476	1101 (3.50-3.42)
Sidechain outliers	187428	1102 (3.50-3.42)
RSRZ outliers	180081	1070 (3.50-3.42)
RNA backbone	3983	1186 (3.92-3.00)

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	1522	3% 26% 60% 11% ••
1	CA	1522	3% 26% 60% 11% ••
2	AB	256	2% 19% 59% 14% 8%
2	CB	256	4% 20% 57% 15% 8%

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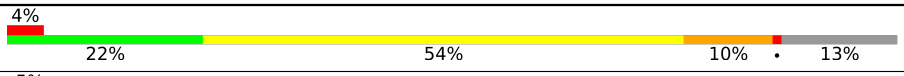
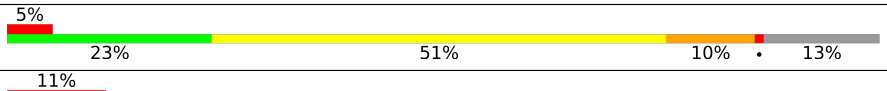
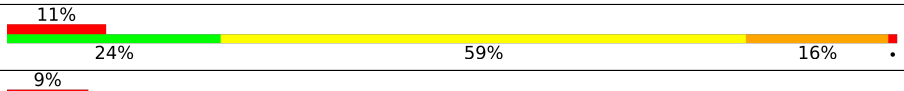
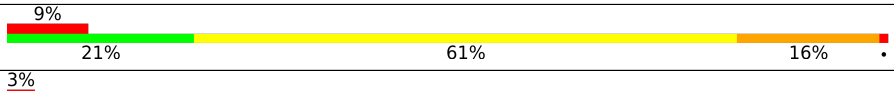
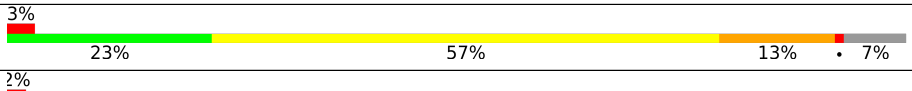
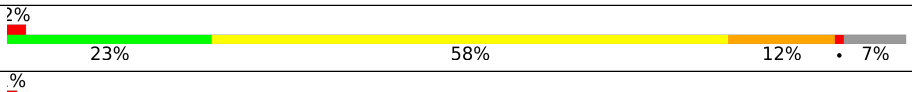
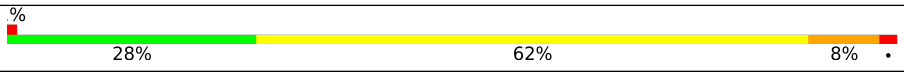
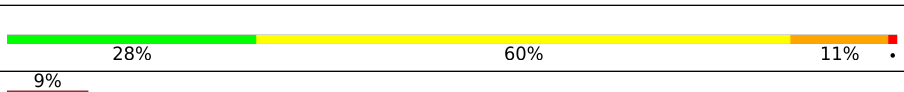
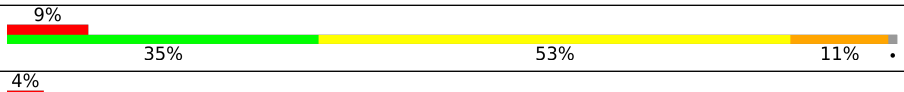
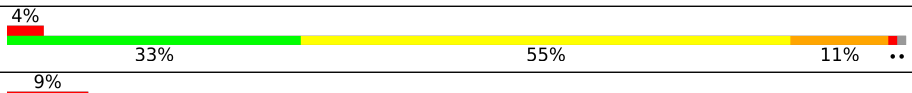
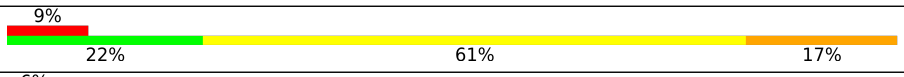
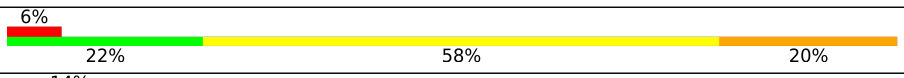
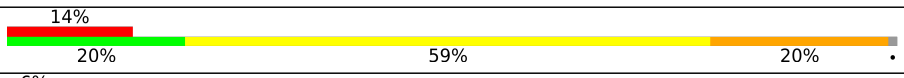
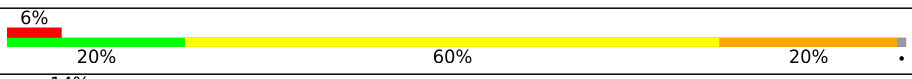
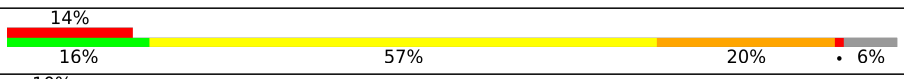
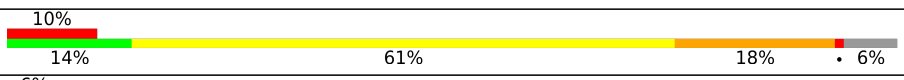
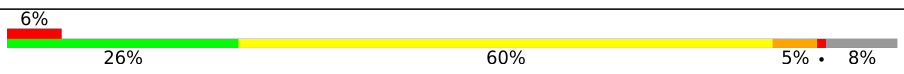
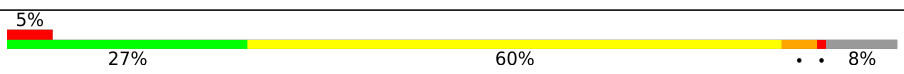
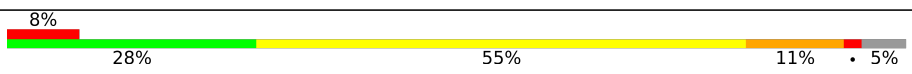
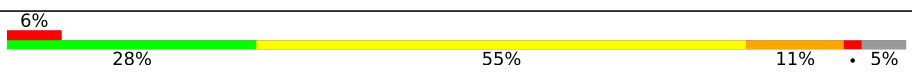
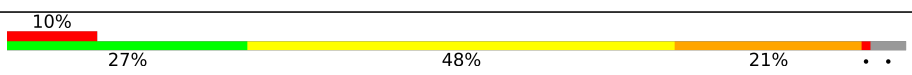
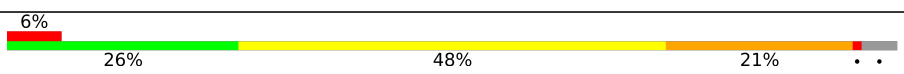
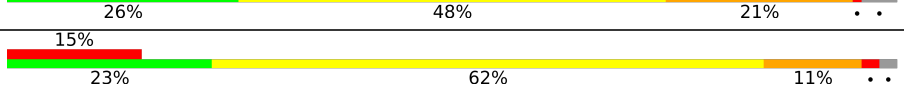
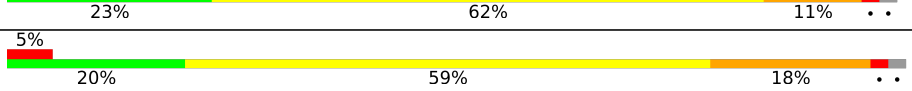
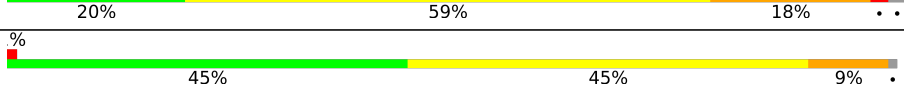
Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

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Mol	Chain	Length	Quality of chain
15	CO	89	4% 46% 44% 9%
16	AP	88	13% 18% 60% 17% 5%
16	CP	88	11% 19% 58% 18% 5%
17	AQ	105	5% 26% 58% 10% 5%
17	CQ	105	6% 30% 54% 10% 5%
18	AR	88	15% 51% 14% 20%
18	CR	88	17% 52% 10% 20%
19	AS	93	13% 12% 54% 18% 15%
19	CS	93	8% 11% 55% 18% 15%
20	AT	106	17% 20% 58% 16% 7%
20	CT	106	23% 20% 58% 16% 7%
21	AU	27	41% 30% 56% 7%
21	CU	27	19% 33% 52% 7%
22	AV	76	30% 53% 17%
22	AW	76	17% 20% 61% 16%
22	CV	76	% 29% 47% 24%
22	CW	76	4% 17% 61% 18%
23	AX	8	25% 25% 50% 12% 12%
23	CX	8	25% 50% 38% 12%
24	AY	351	5% 23% 56% 17%
24	CY	351	4% 24% 55% 19%
25	B0	85	6% 26% 53% 11% 11%
25	D0	85	4% 28% 49% 12% 11%
26	B1	98	3% 26% 50% 20%
26	D1	98	3% 32% 44% 19%

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Mol	Chain	Length	Quality of chain
27	B2	72	15% 51% 32%
27	D2	72	7% 21% 53% 24%
28	B3	60	3% 38% 38% 23%
28	D3	60	3% 37% 45% 18%
29	B4	71	3% 10% 25% 8% 56%
29	D4	71	7% 13% 23% 8% 56%
30	B5	60	3% 30% 48% 15% 5%
30	D5	60	7% 30% 43% 18% 7%
31	B6	54	13% 39% 31% 13% 17%
31	D6	54	13% 35% 33% 15% 17%
32	B7	49	4% 57% 39%
32	D7	49	4% 51% 45%
33	B8	65	9% 17% 54% 18% 9%
33	D8	65	8% 14% 57% 18% 9%
34	B9	37	5% 32% 51% 14%
34	D9	37	16% 30% 54% 14%
35	BA	2901	3% 34% 52% 12%
35	DA	2901	3% 34% 51% 13%
36	BB	122	% 31% 56% 8%
36	DB	122	31% 54% 11%
37	BC	229	23% 31% 38% 14% 17%
37	DC	229	23% 32% 36% 14% 17%
38	BD	276	7% 32% 50% 14%
38	DD	276	8% 34% 49% 14%
39	BE	206	5% 21% 47% 28%

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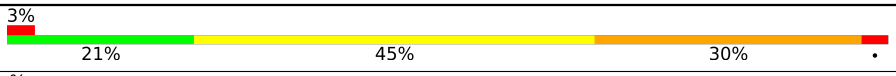
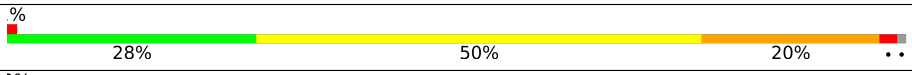
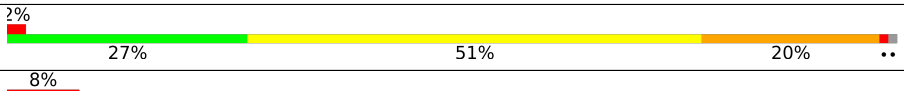
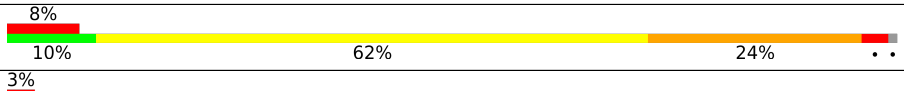
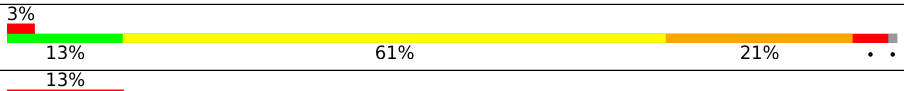
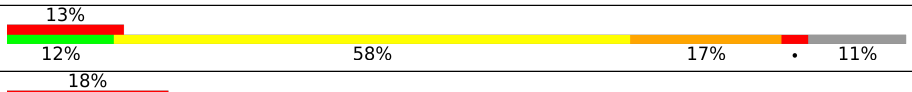
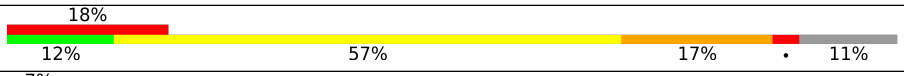
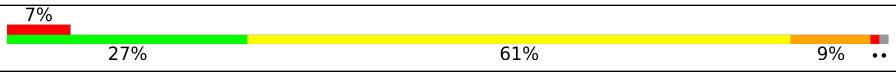
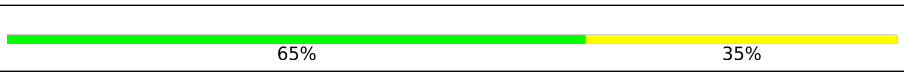
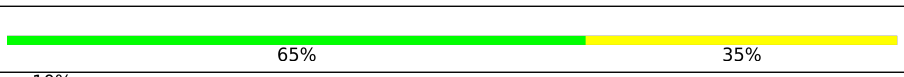
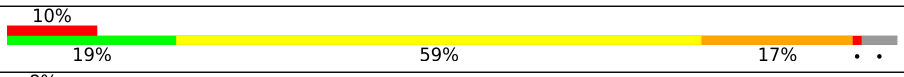
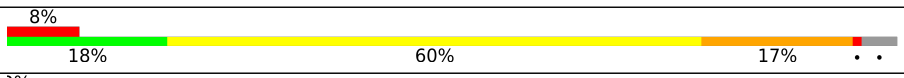
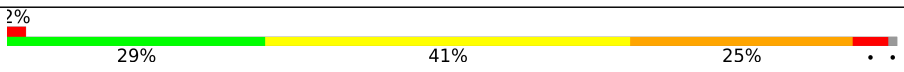
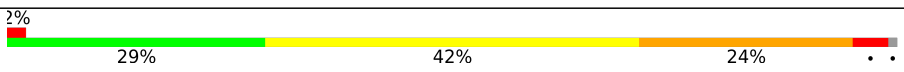
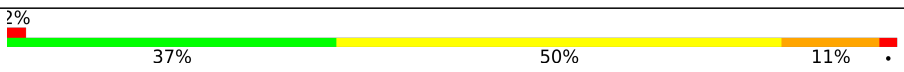
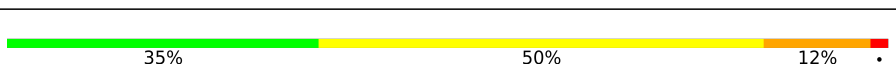
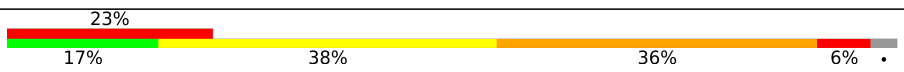
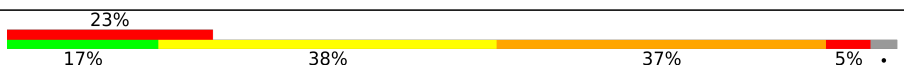
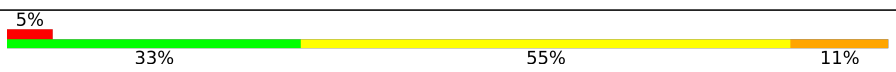
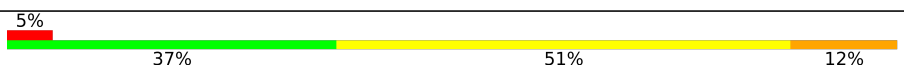
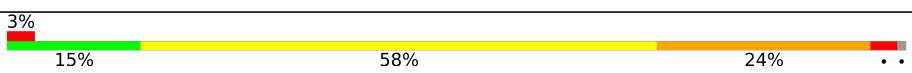
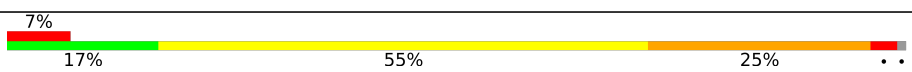
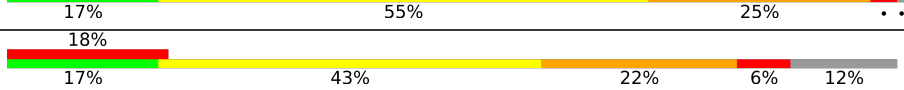
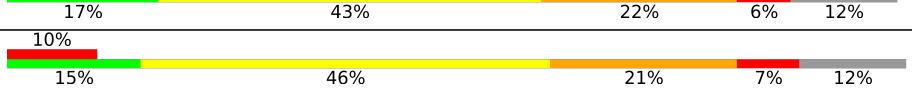
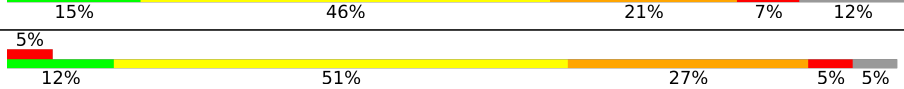
Mol	Chain	Length	Quality of chain
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BI	148	
44	BJ	130	
44	DJ	130	
45	BK	147	
45	DK	147	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	
52	BT	146	

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Mol	Chain	Length	Quality of chain
52	DT	146	9% 12% 49% 28% 5% 5%
53	BU	118	% 31% 50% 16%
53	DU	118	% 28% 52% 17%
54	BV	101	3% 34% 45% 18%
54	DV	101	9% 33% 47% 17%
55	BW	113	% 36% 50% 12%
55	DW	113	% 37% 50% 12%
56	BX	96	2% 31% 55% 9%
56	DX	96	4% 30% 56% 9%
57	BY	110	19% 15% 40% 30% 7% 8%
57	DY	110	12% 15% 40% 29% 8% 8%
58	BZ	206	6% 16% 43% 24% 14%
58	DZ	206	2% 18% 41% 25% 14%
59	DI	148	% 20% 54% 23%

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
60	MG	BA	3024	-	-	-	X
60	MG	BA	3102	-	-	-	X
60	MG	BA	3120	-	-	-	X
60	MG	BA	3292	-	-	-	X
60	MG	DA	3078	-	-	-	X
60	MG	DA	3107	-	-	-	X
60	MG	DA	3295	-	-	-	X
60	MG	DA	3303	-	-	-	X
60	MG	DD	301	-	-	-	X

2 Entry composition (i)

There are 61 unique types of molecules in this entry. The entry contains 304505 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	126	Total	C	N	O	S	0	0	1
			976	614	197	164	1			
12	CL	126	Total	C	N	O	S	0	0	1
			976	614	197	164	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	121	Total	C	N	O	S	0	0	1
			956	591	198	165	2			
13	CM	121	Total	C	N	O	S	0	0	1
			956	591	198	165	2			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	AW	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	CV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	CW	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	8	Total	C	N	O	P	0	0	0
			166	76	29	54	7			
23	CX	8	Total	C	N	O	P	0	0	0
			166	76	29	54	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	351	Total	C	N	O	S	0	0	0
			2799	1751	503	537	8			
24	CY	351	Total	C	N	O	S	0	0	0
			2799	1751	503	537	8			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AY	303	GLU	ARG	conflict	UNP Q5SM01
CY	303	GLU	ARG	conflict	UNP Q5SM01

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			
25	D0	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
31	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2886	Total	C	N	O	P	0	0	0
			62154	27663	11625	19981	2885			
35	DA	2886	Total	C	N	O	P	0	0	0
			62154	27663	11625	19981	2885			

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
37	BC	191	Total	C	N	O	0	0	1
			1142	691	221	230			
37	DC	191	Total	C	N	O	0	0	1
			1142	691	221	230			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			
58	DZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

- Molecule 59 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	DI	146	Total	C	N	O	S	0	0	1
			1133	724	201	207	1			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AA	157	Total	Mg	0	0
			157	157		
60	AE	1	Total	Mg	0	0
			1	1		
60	AL	1	Total	Mg	0	0
			1	1		
60	AM	1	Total	Mg	0	0
			1	1		
60	AV	7	Total	Mg	0	0
			7	7		
60	AW	5	Total	Mg	0	0
			5	5		
60	AY	1	Total	Mg	0	0
			1	1		
60	B1	1	Total	Mg	0	0
			1	1		
60	B3	1	Total	Mg	0	0
			1	1		
60	B5	2	Total	Mg	0	0
			2	2		
60	B7	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	BA	354	Total Mg 354 354	0	0
60	BB	4	Total Mg 4 4	0	0
60	BC	1	Total Mg 1 1	0	0
60	BD	2	Total Mg 2 2	0	0
60	BF	1	Total Mg 1 1	0	0
60	BH	1	Total Mg 1 1	0	0
60	BP	1	Total Mg 1 1	0	0
60	BQ	1	Total Mg 1 1	0	0
60	BS	1	Total Mg 1 1	0	0
60	BU	1	Total Mg 1 1	0	0
60	CA	157	Total Mg 157 157	0	0
60	CL	1	Total Mg 1 1	0	0
60	CN	1	Total Mg 1 1	0	0
60	CV	7	Total Mg 7 7	0	0
60	CW	5	Total Mg 5 5	0	0
60	CY	1	Total Mg 1 1	0	0
60	D1	1	Total Mg 1 1	0	0
60	D3	1	Total Mg 1 1	0	0
60	D5	2	Total Mg 2 2	0	0
60	D7	1	Total Mg 1 1	0	0
60	DA	353	Total Mg 353 353	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	DB	4	Total Mg 4 4	0	0
60	DC	1	Total Mg 1 1	0	0
60	DD	2	Total Mg 2 2	0	0
60	DF	3	Total Mg 3 3	0	0
60	DH	1	Total Mg 1 1	0	0
60	DQ	1	Total Mg 1 1	0	0
60	DR	1	Total Mg 1 1	0	0
60	DU	1	Total Mg 1 1	0	0
60	DX	1	Total Mg 1 1	0	0
60	DY	1	Total Mg 1 1	0	0

- Molecule 61 is ZINC ION (CCD ID: ZN) (formula: Zn).

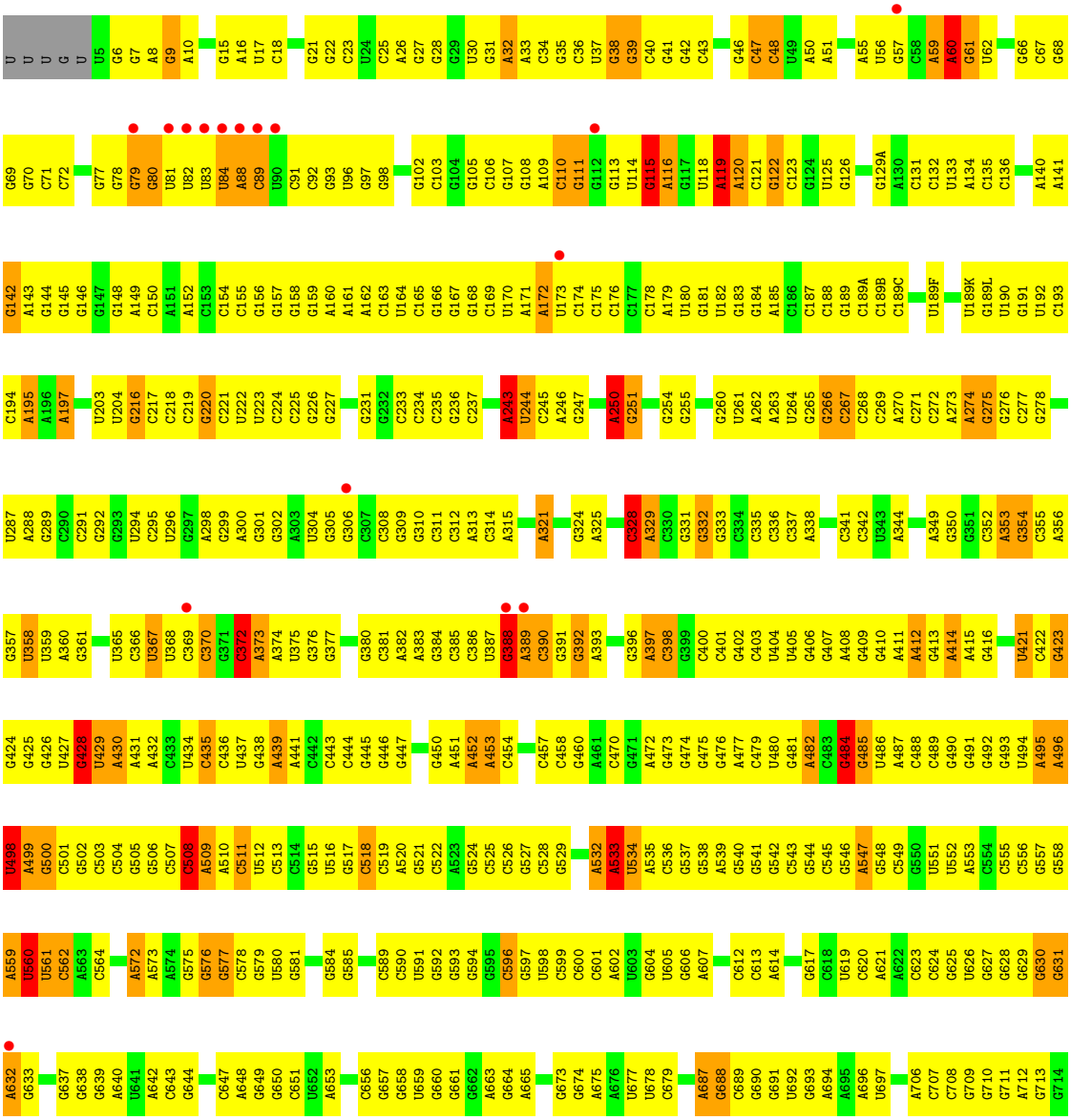
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	AD	1	Total Zn 1 1	0	0
61	AN	1	Total Zn 1 1	0	0
61	B9	1	Total Zn 1 1	0	0
61	CD	1	Total Zn 1 1	0	0
61	CN	1	Total Zn 1 1	0	0
61	D9	1	Total Zn 1 1	0	0

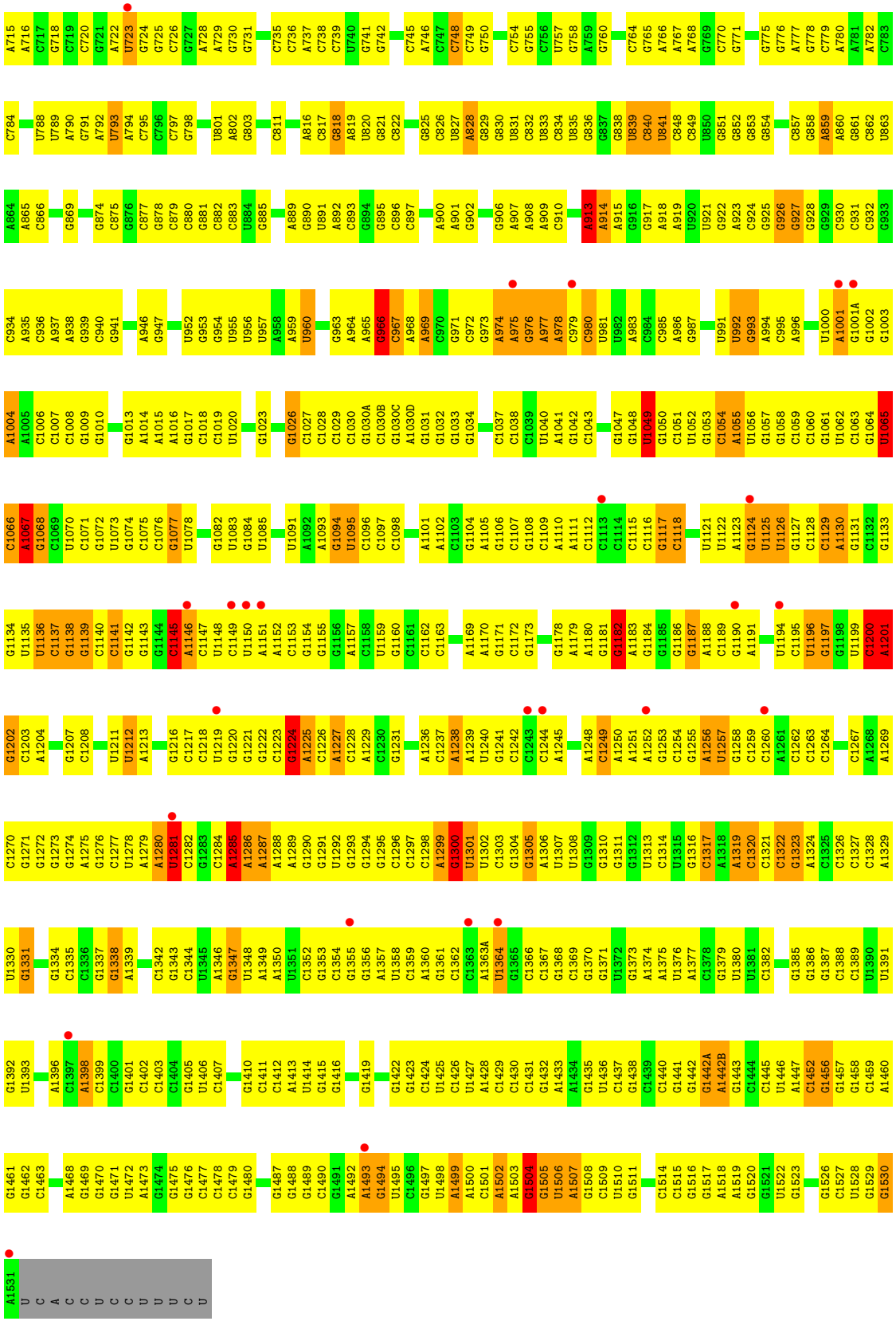
3 Residue-property plots (i)

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

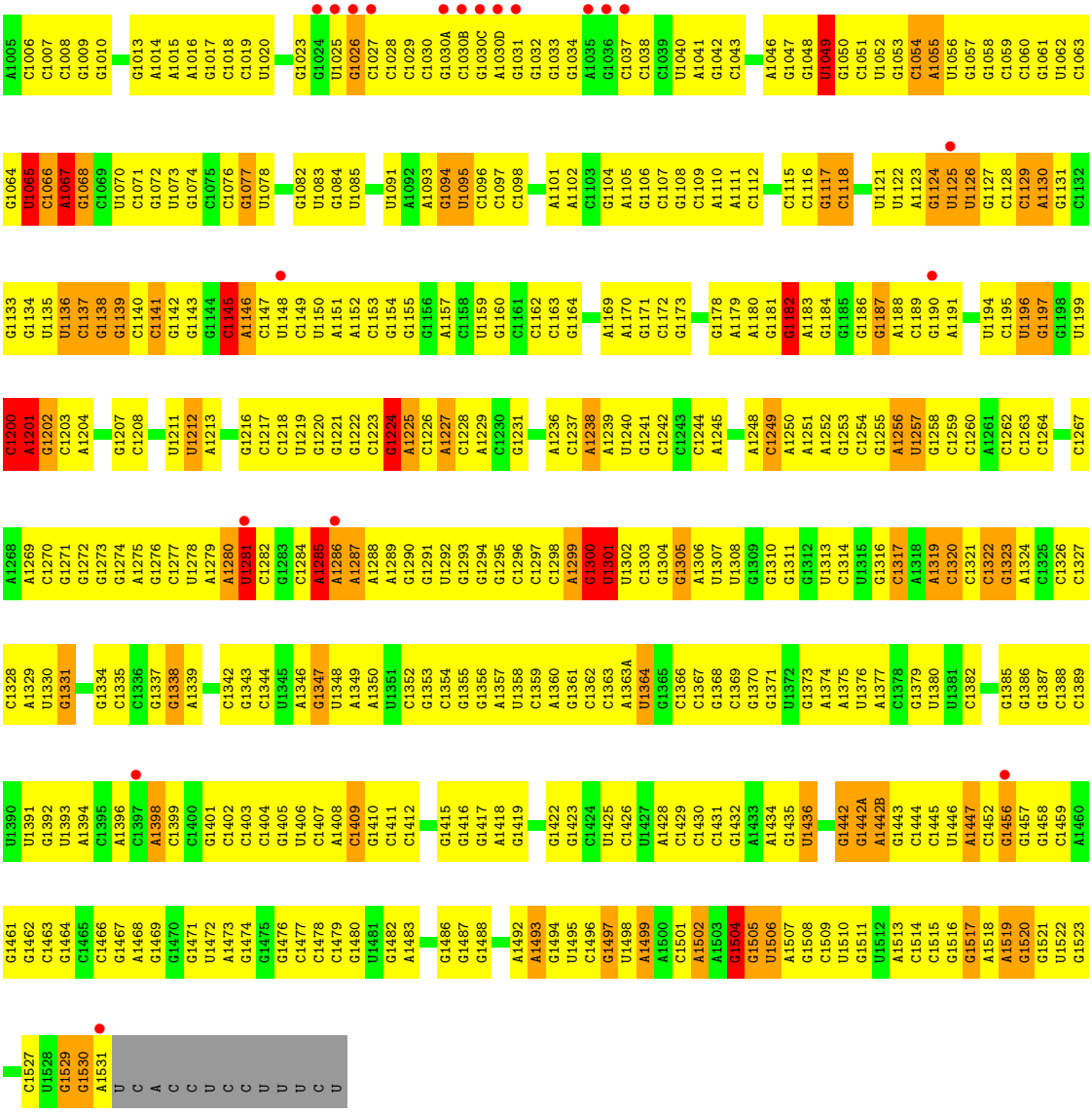
Chain AA:





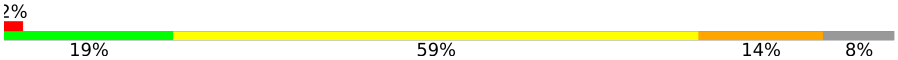
• Molecule 1: 16S ribosomal RNA

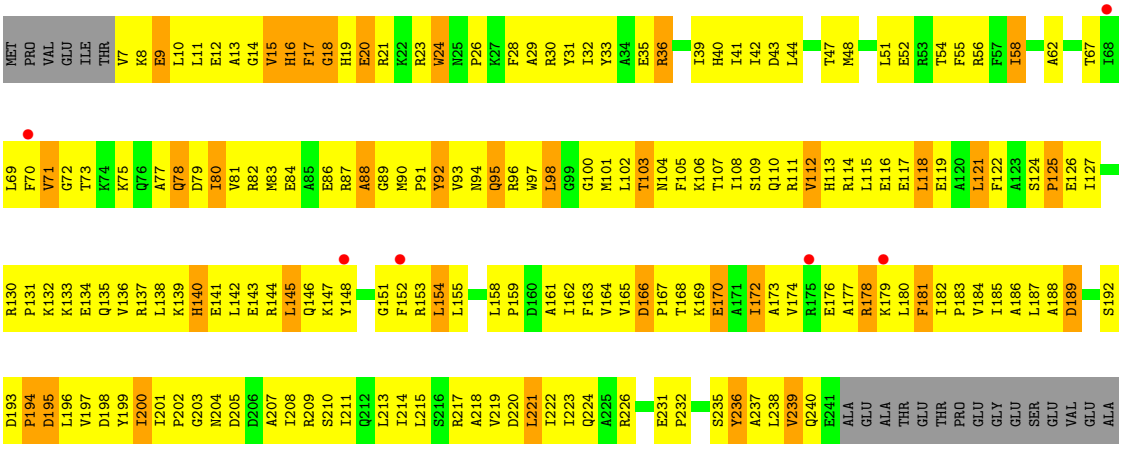
Chain CA:



• Molecule 2: 30S RIBOSOMAL PROTEIN S2

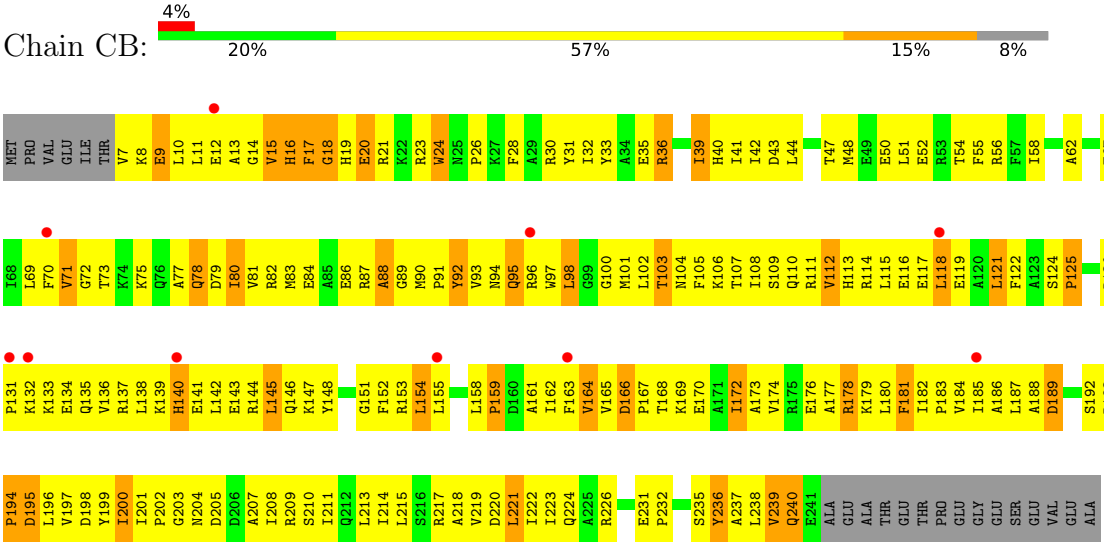
Chain AB:





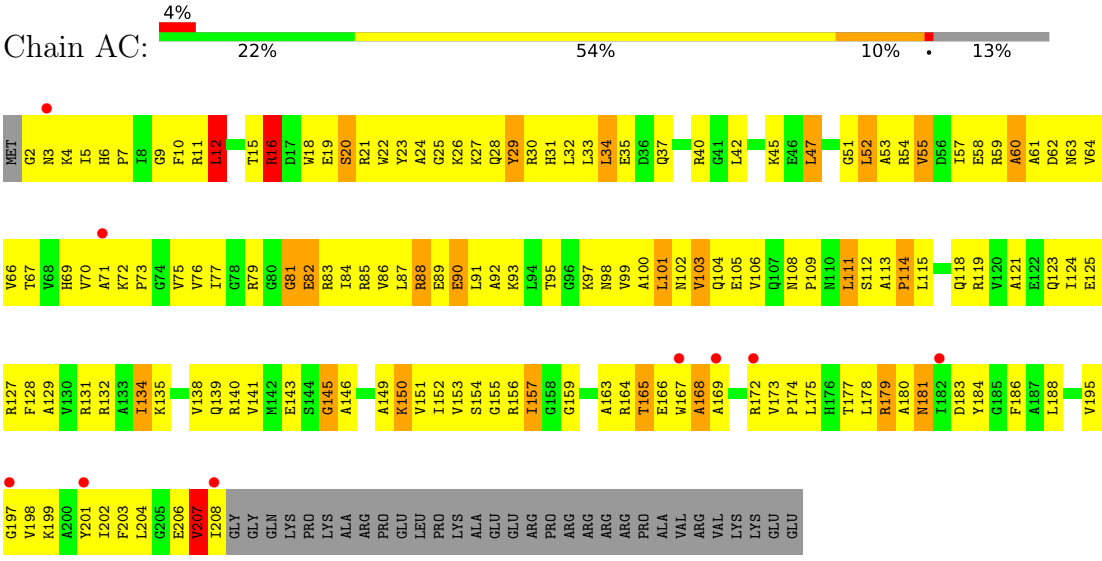
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

Chain CB:



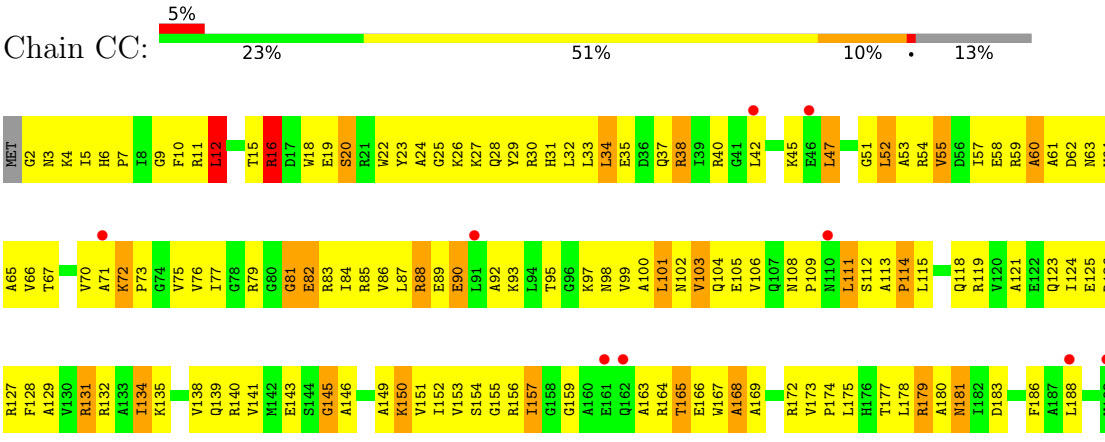
• Molecule 3: 30S RIBOSOMAL PROTEIN S3

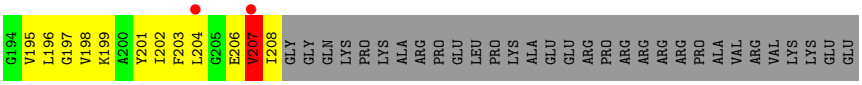
Chain AC:



• Molecule 3: 30S RIBOSOMAL PROTEIN S3

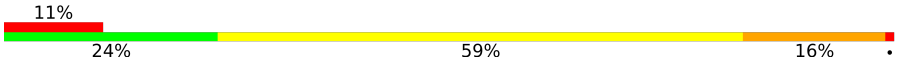
Chain CC:

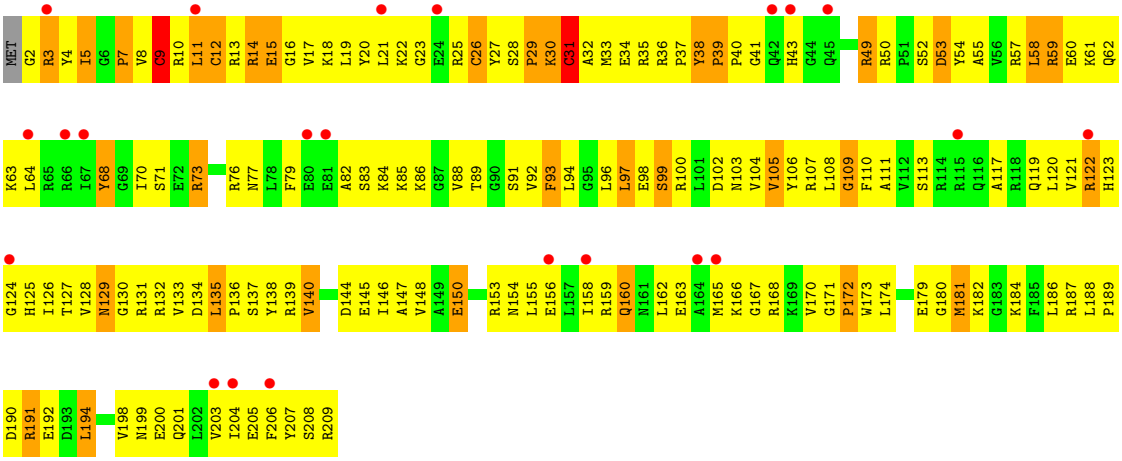




• Molecule 4: 30S RIBOSOMAL PROTEIN S4

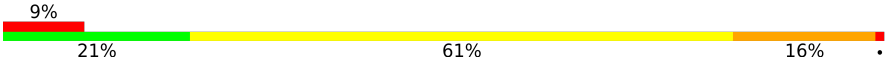
Chain AD:

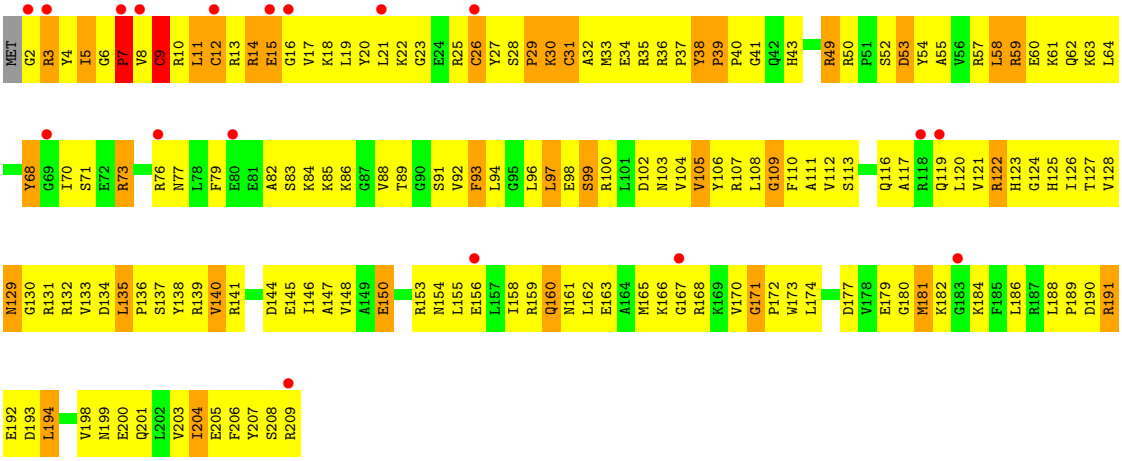




• Molecule 4: 30S RIBOSOMAL PROTEIN S4

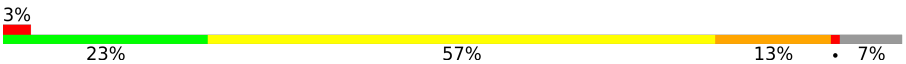
Chain CD:

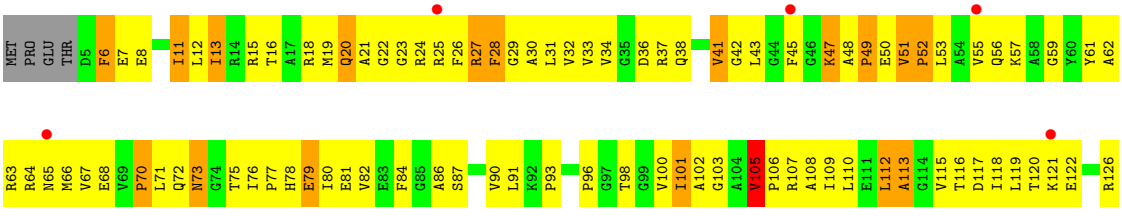




• Molecule 5: 30S RIBOSOMAL PROTEIN S5

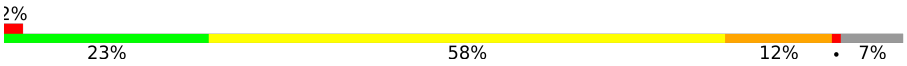
Chain AE:

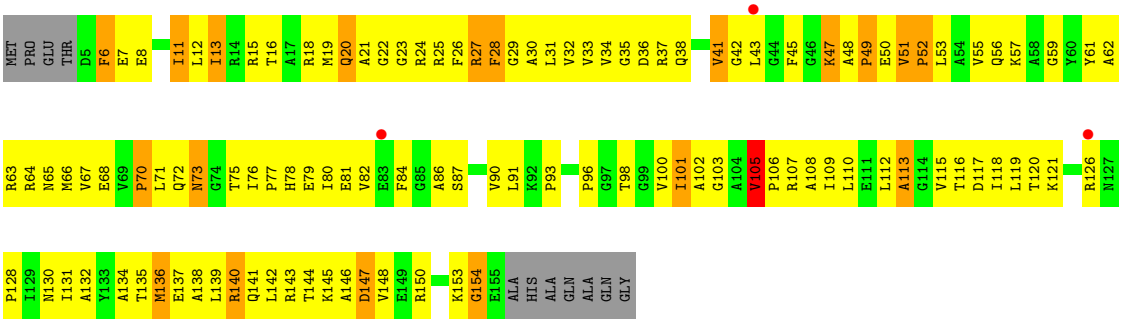




• Molecule 5: 30S RIBOSOMAL PROTEIN S5

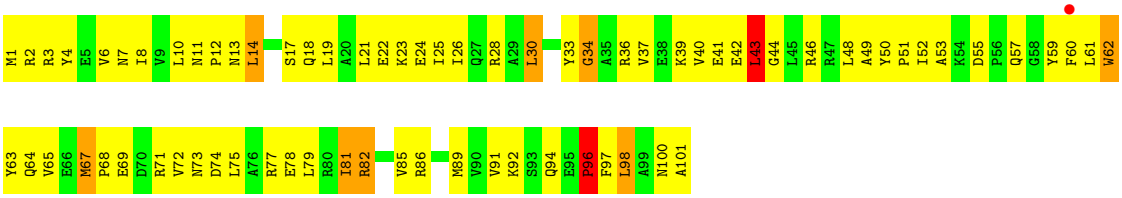
Chain CE:





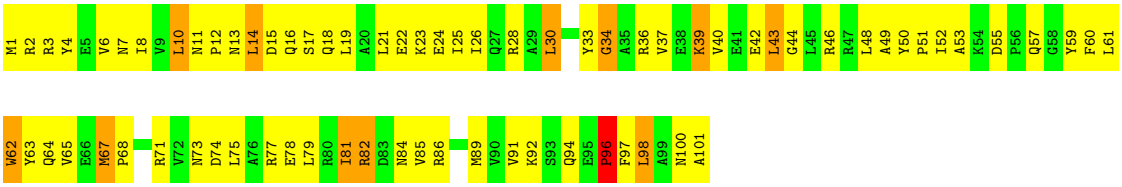
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain AF:



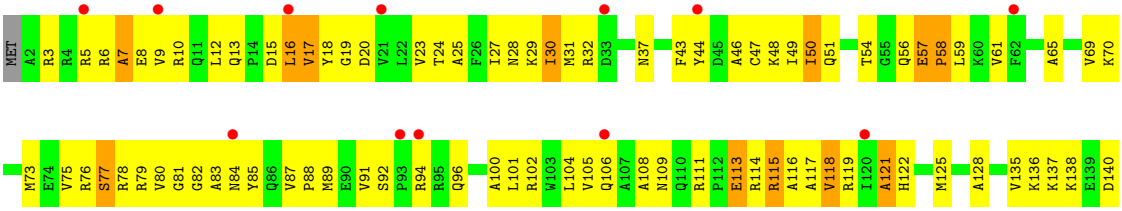
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

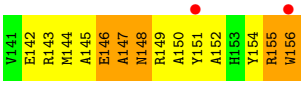
Chain CF:



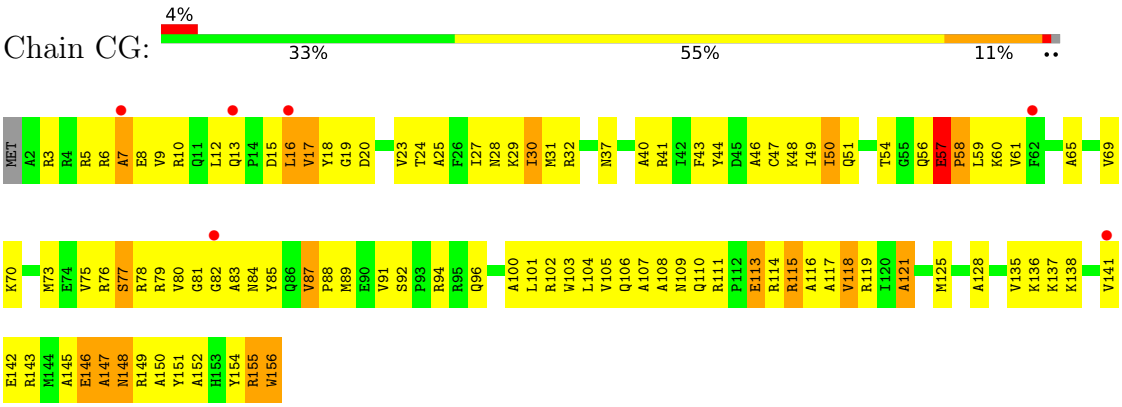
• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain AG:

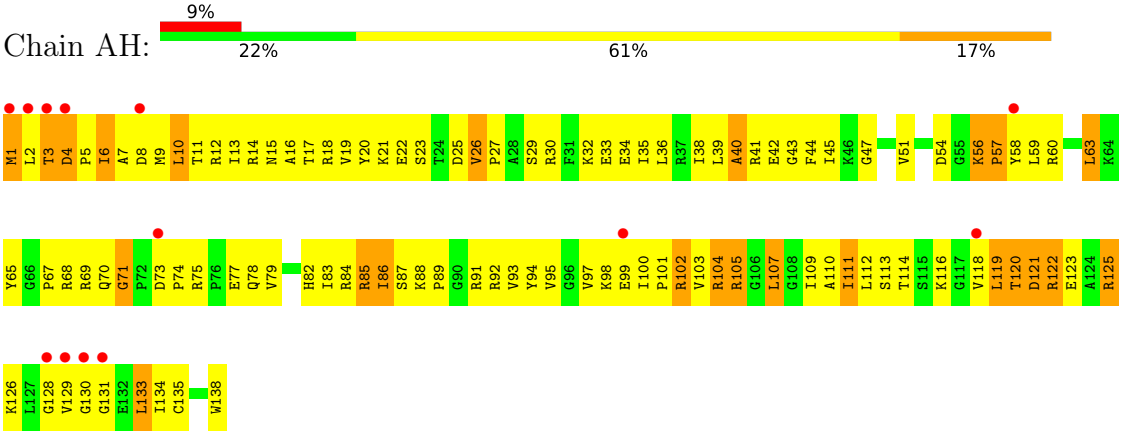




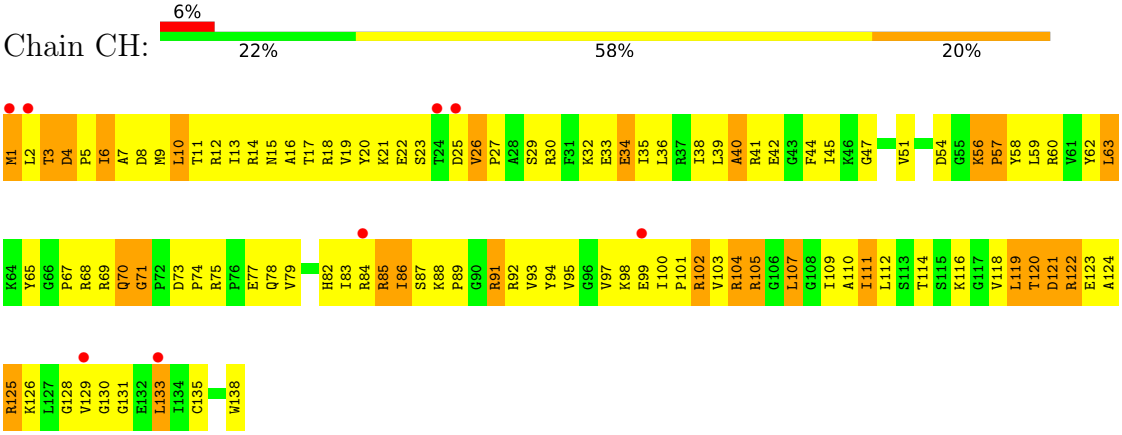
• Molecule 7: 30S RIBOSOMAL PROTEIN S7



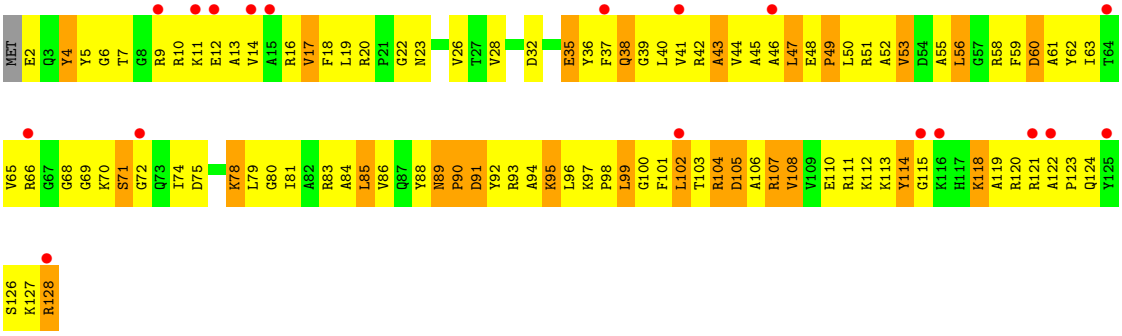
• Molecule 8: 30S RIBOSOMAL PROTEIN S8



• Molecule 8: 30S RIBOSOMAL PROTEIN S8

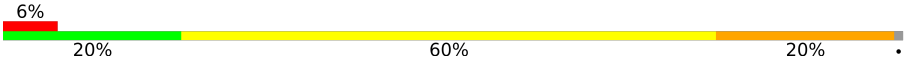


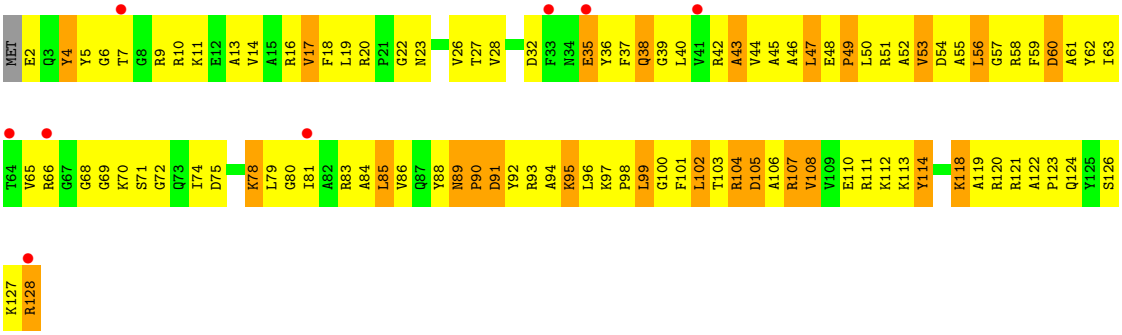
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



• Molecule 9: 30S RIBOSOMAL PROTEIN S9

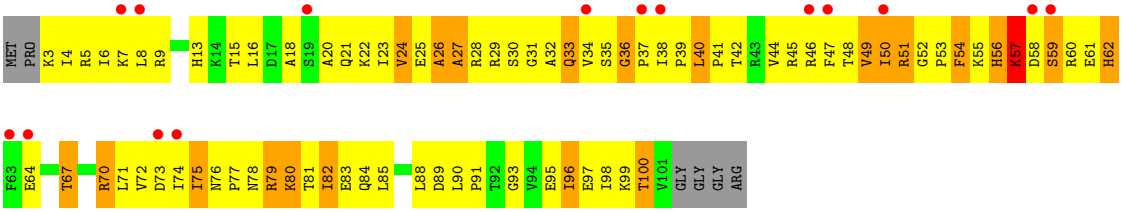
Chain CI:





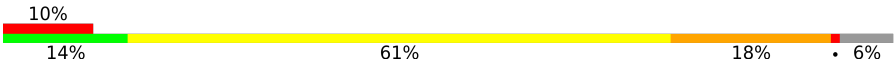
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

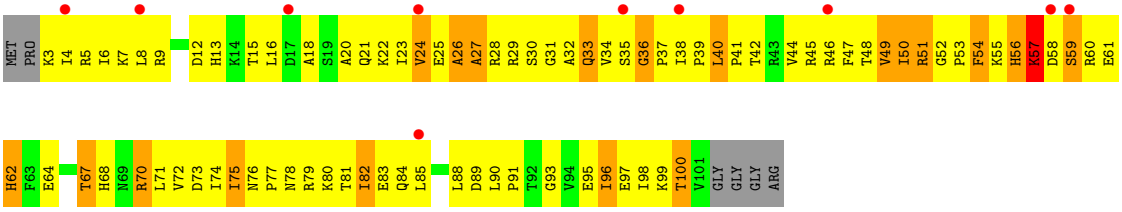
Chain AJ:



• Molecule 10: 30S RIBOSOMAL PROTEIN S10

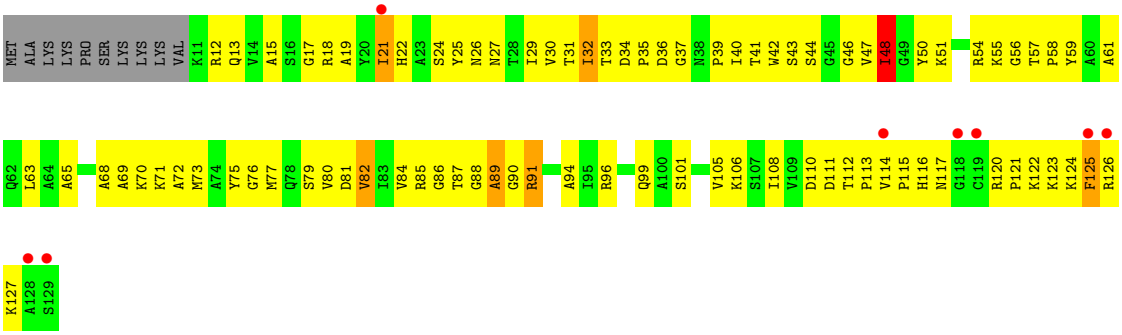
Chain CJ:





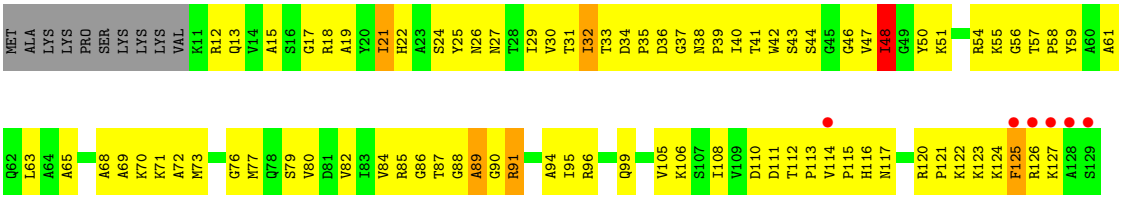
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

Chain AK:



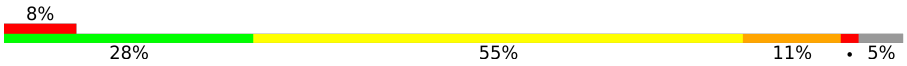
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

Chain CK:



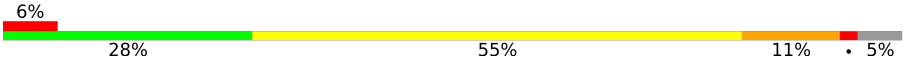
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

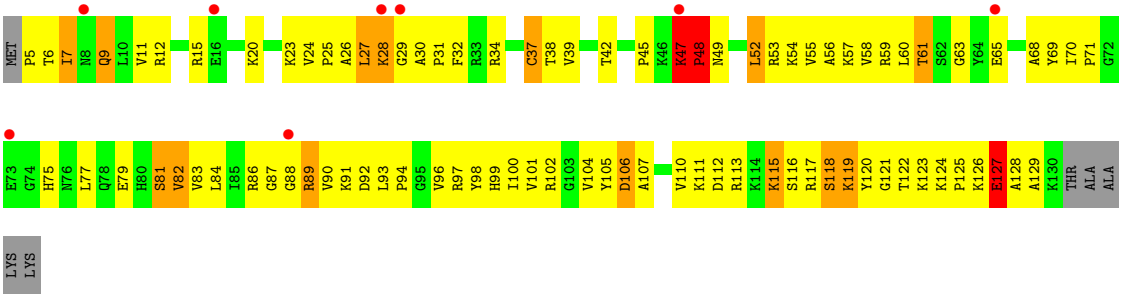
Chain AL:



• Molecule 12: 30S RIBOSOMAL PROTEIN S12

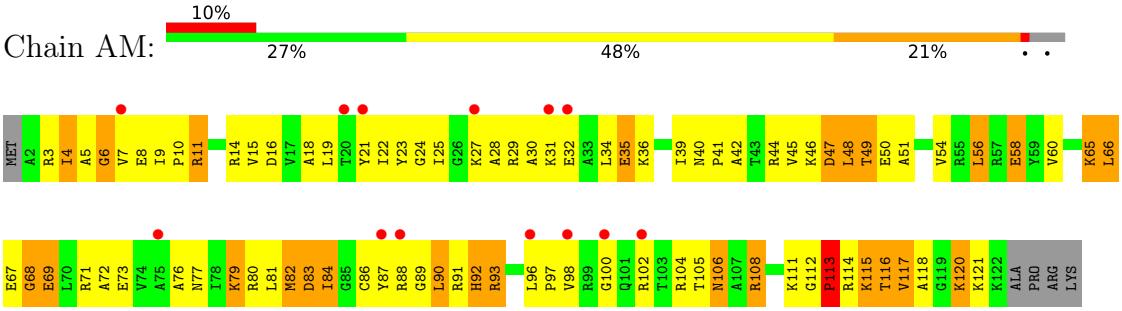
Chain CL:





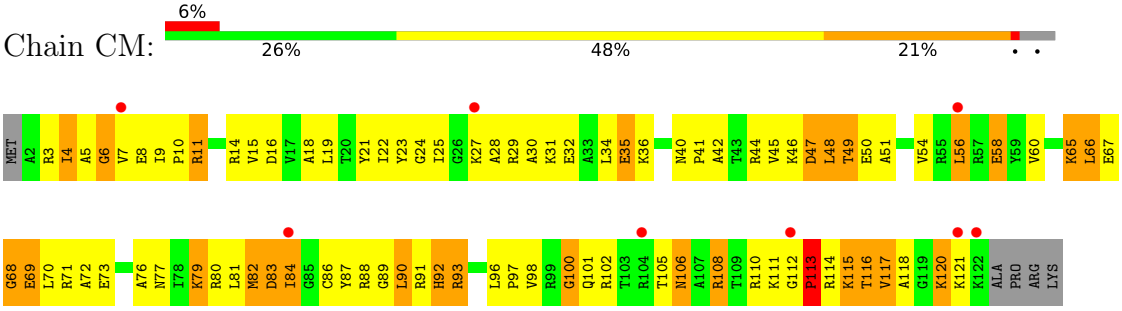
• Molecule 13: 30S RIBOSOMAL PROTEIN S13

Chain AM:



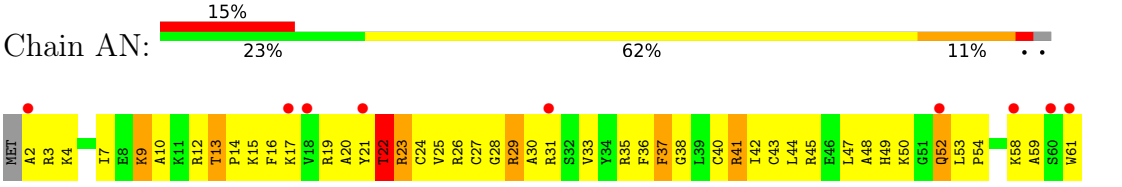
• Molecule 13: 30S RIBOSOMAL PROTEIN S13

Chain CM:



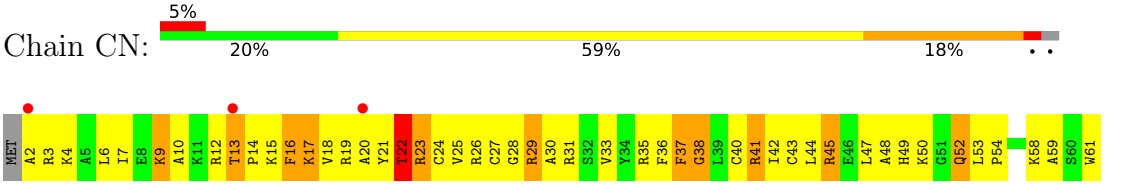
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain AN:



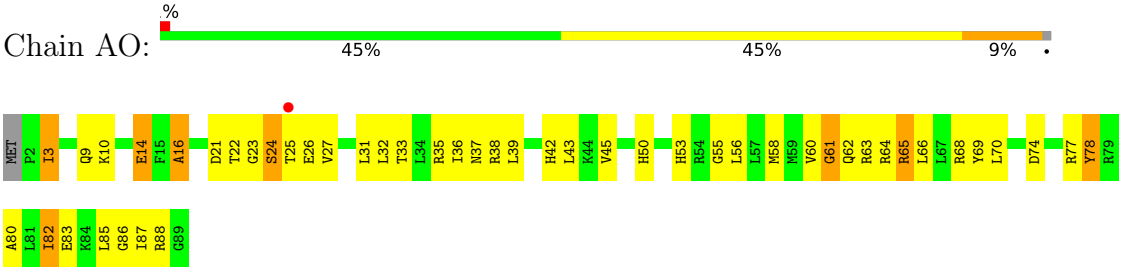
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain CN:



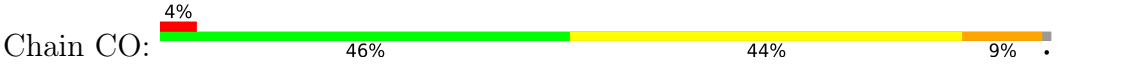
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

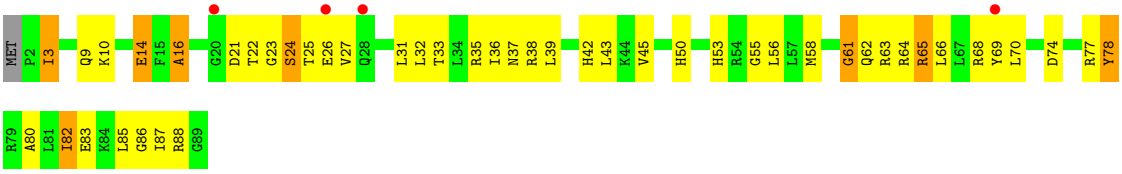
Chain AO:



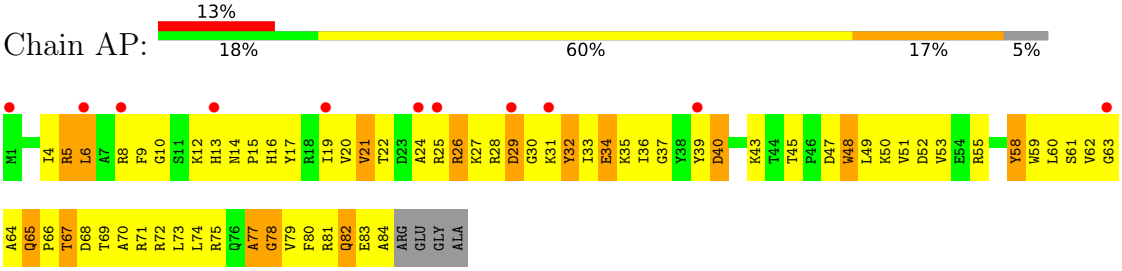
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain CO:

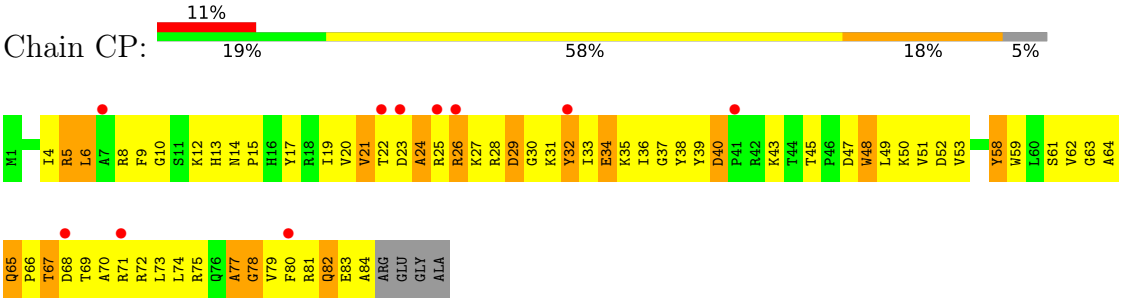




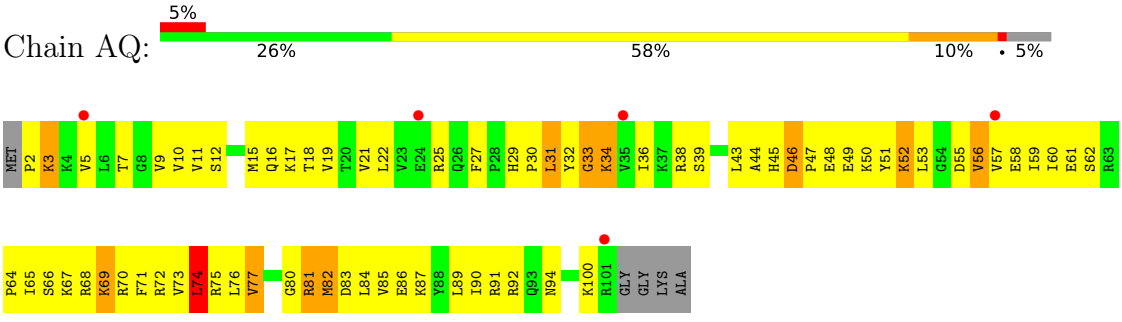
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



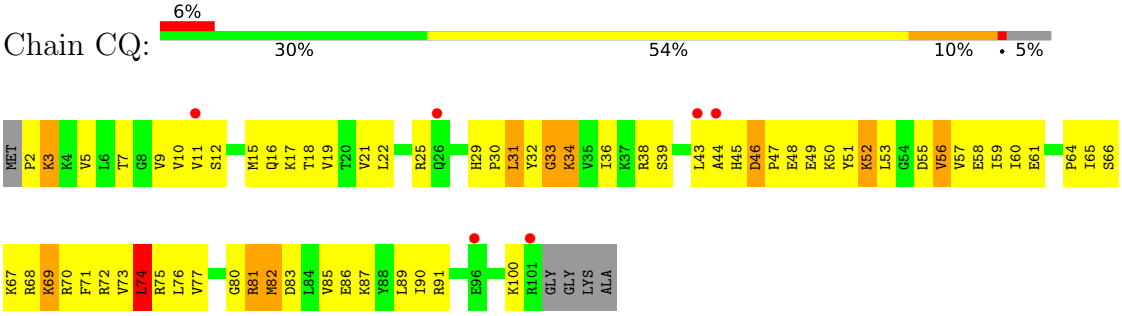
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



• Molecule 17: 30S RIBOSOMAL PROTEIN S17

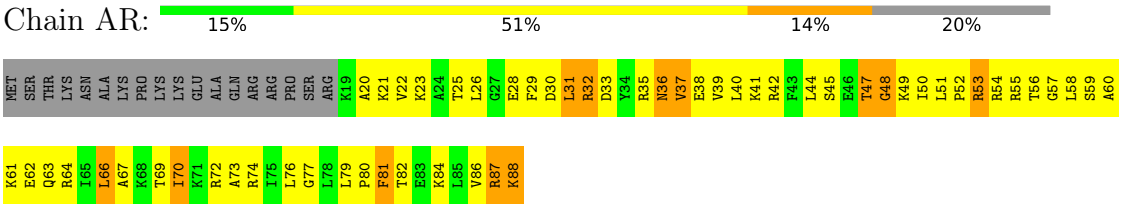


• Molecule 17: 30S RIBOSOMAL PROTEIN S17



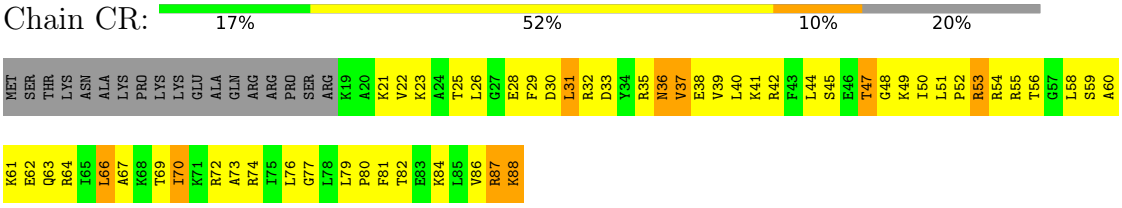
• Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AR:



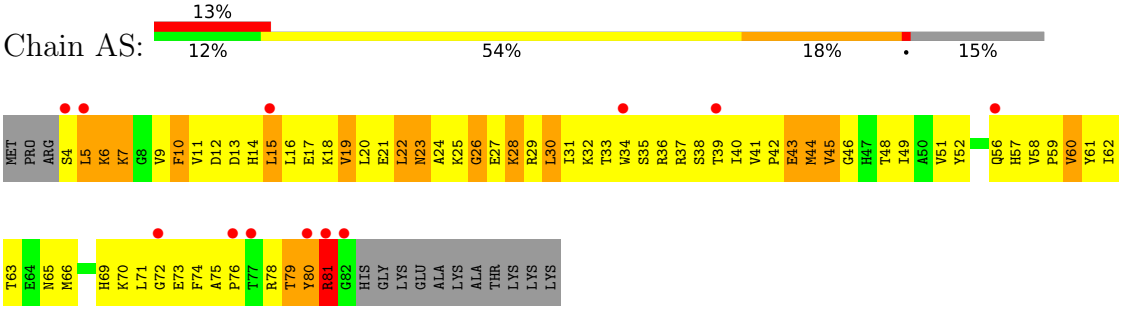
• Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain CR:



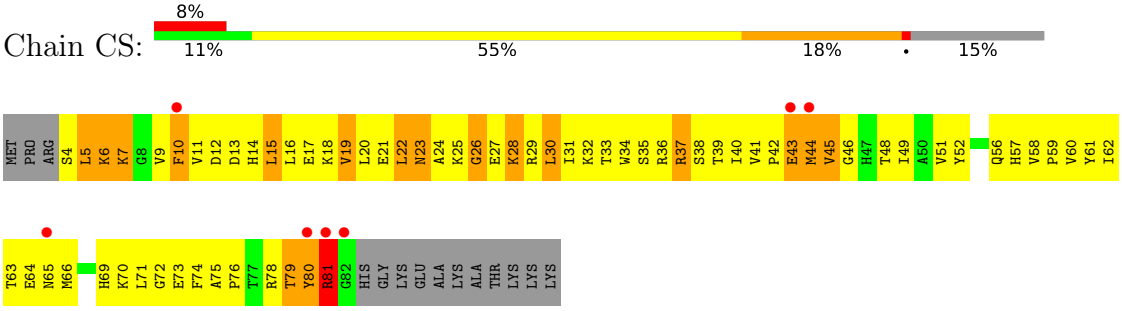
• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AS:



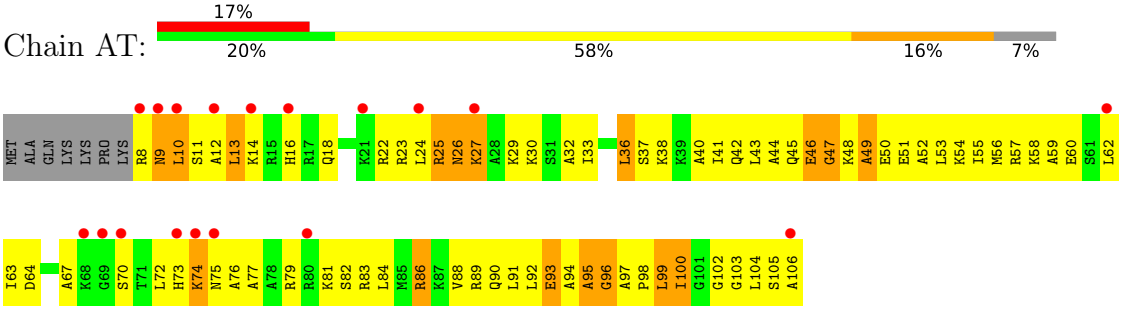
• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain CS:



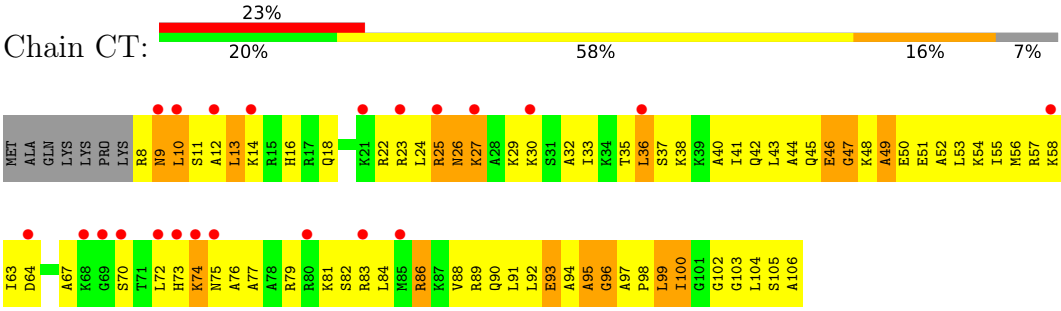
• Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain AT:



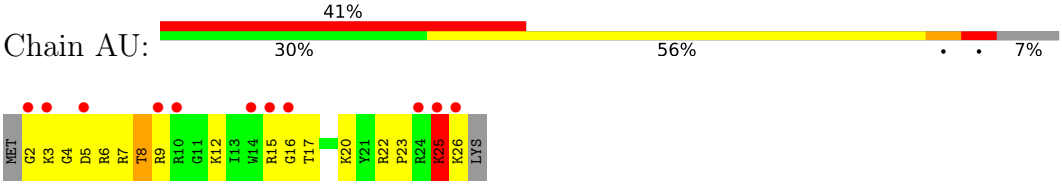
• Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain CT:



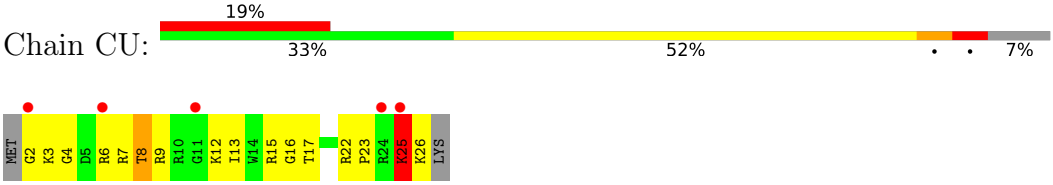
• Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain AU:



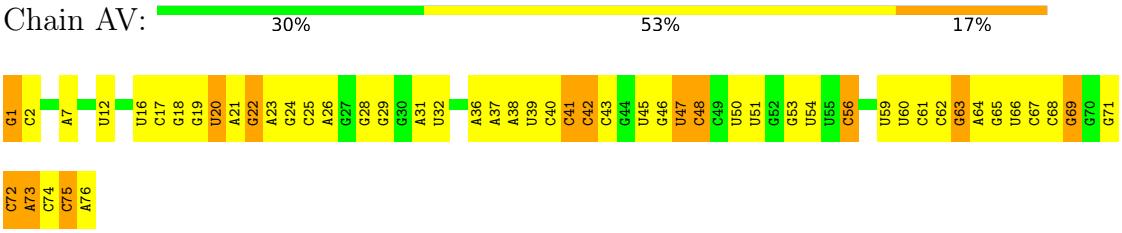
• Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain CU:



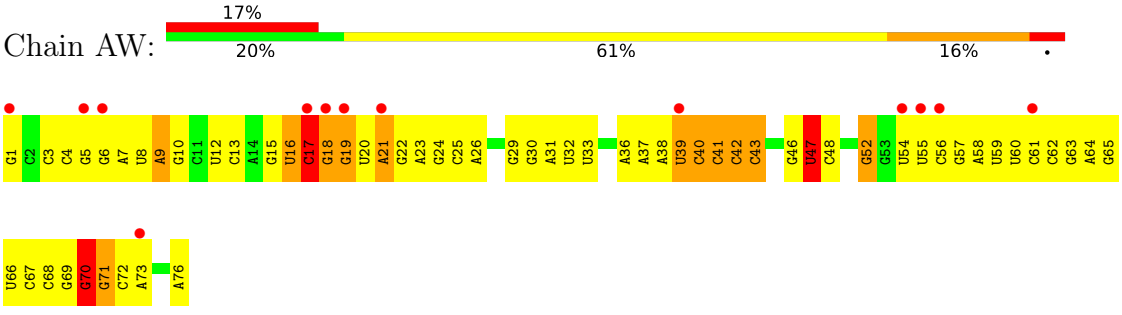
• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)

Chain AV:



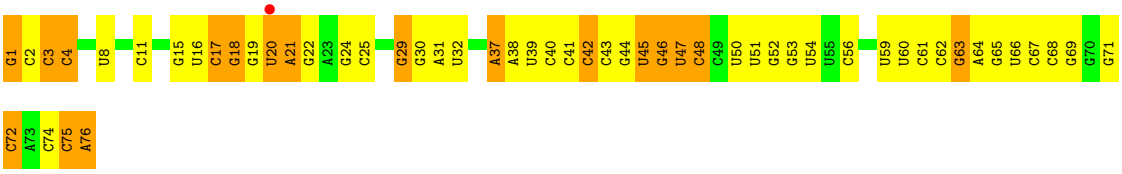
• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)

Chain AW:



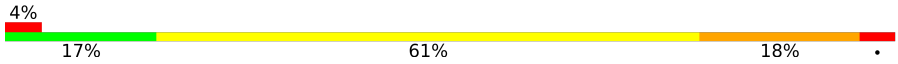
• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)

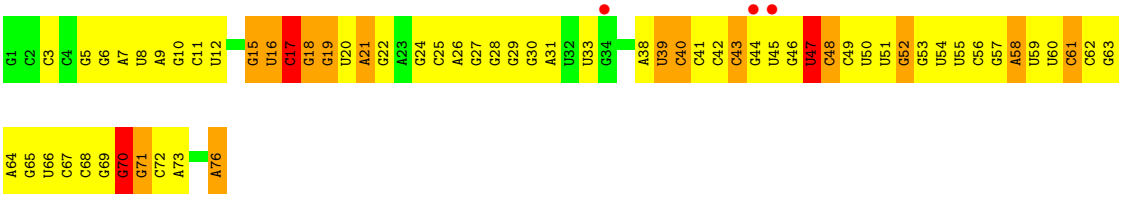
Chain CV:



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

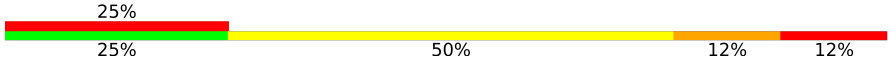
Chain CW:

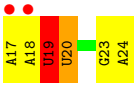




• Molecule 23: MRNA

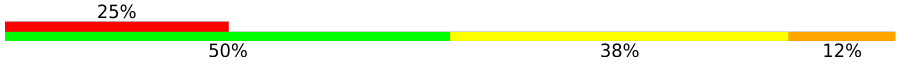
Chain AX:

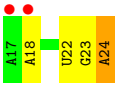




• Molecule 23: MRNA

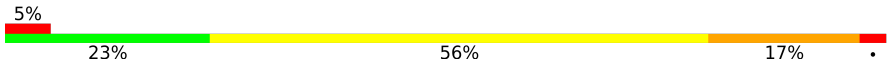
Chain CX:

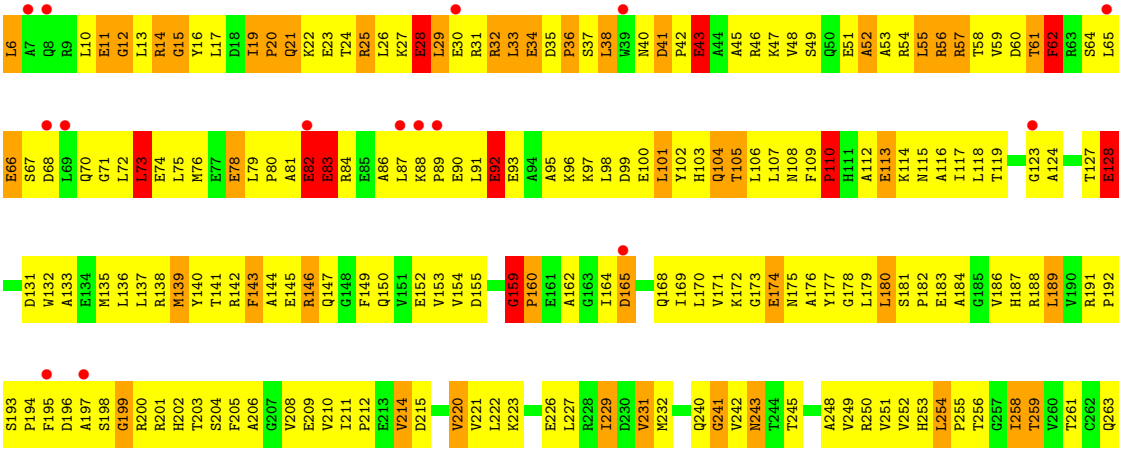


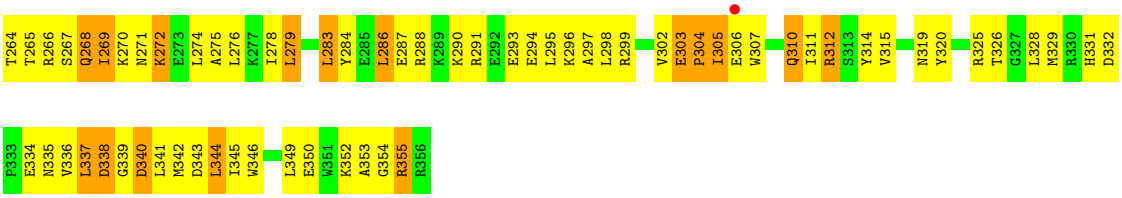


• Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2

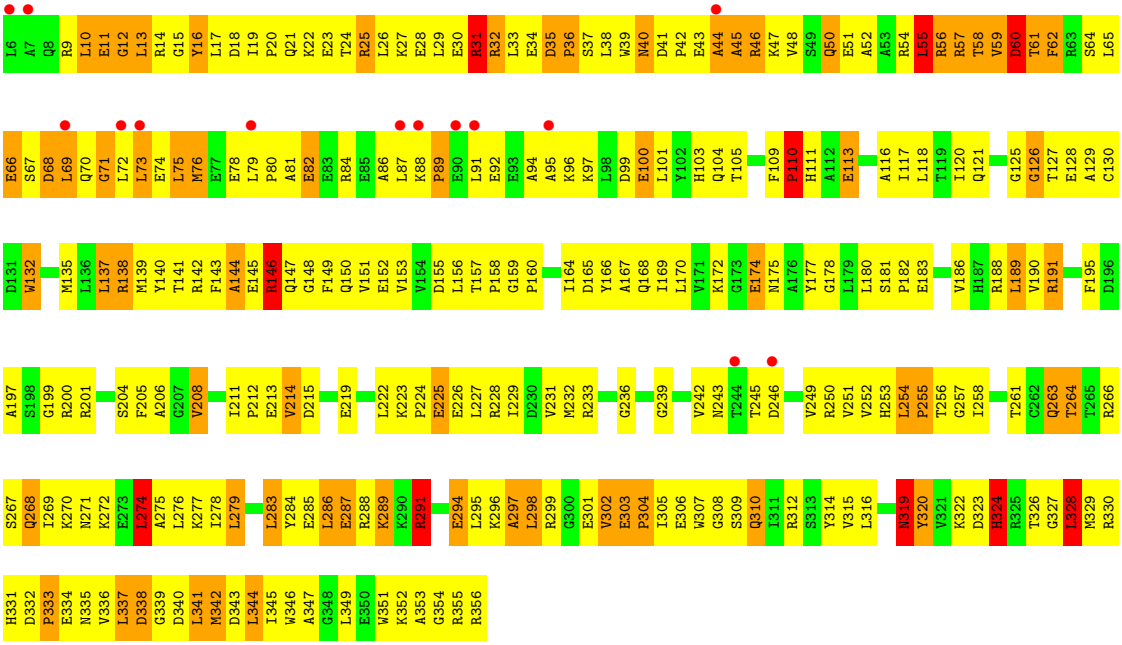
Chain AY:





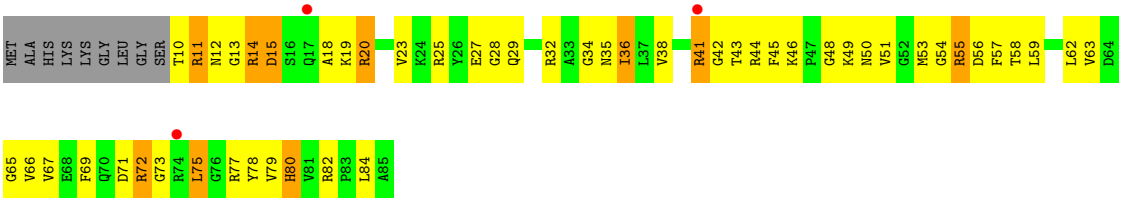


• Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2



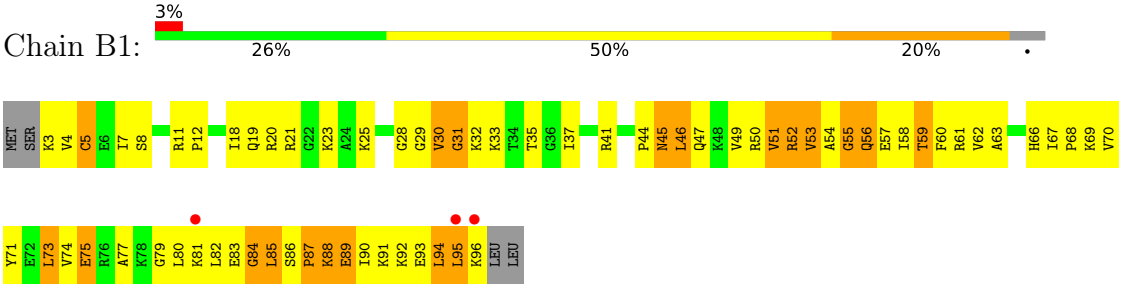
• Molecule 25: 50S RIBOSOMAL PROTEIN L27

• Molecule 25: 50S RIBOSOMAL PROTEIN L27



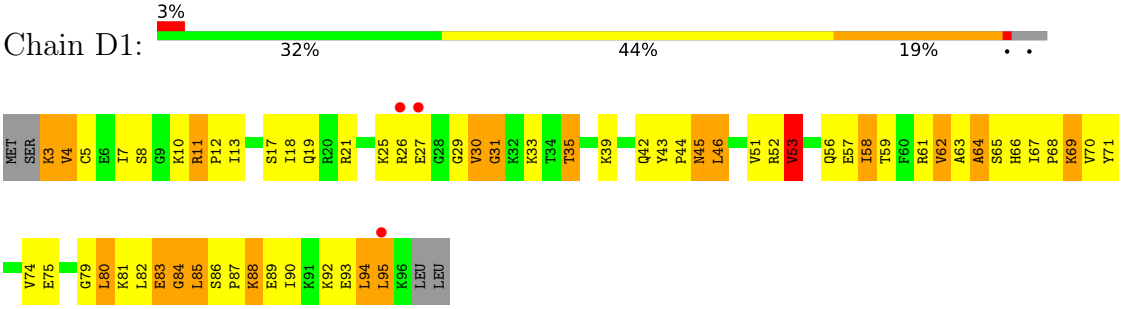
• Molecule 26: 50S RIBOSOMAL PROTEIN L28

Chain B1:



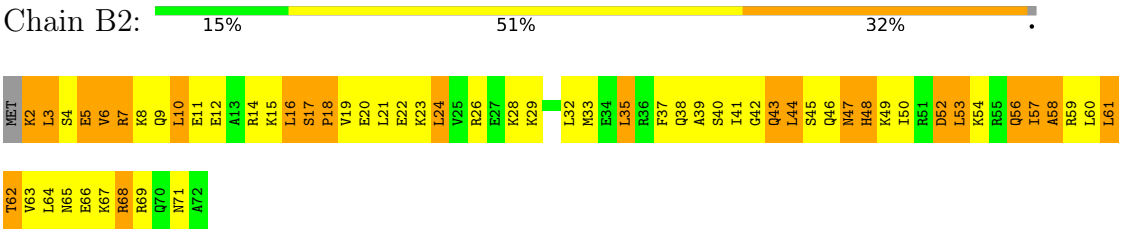
• Molecule 26: 50S RIBOSOMAL PROTEIN L28

Chain D1:



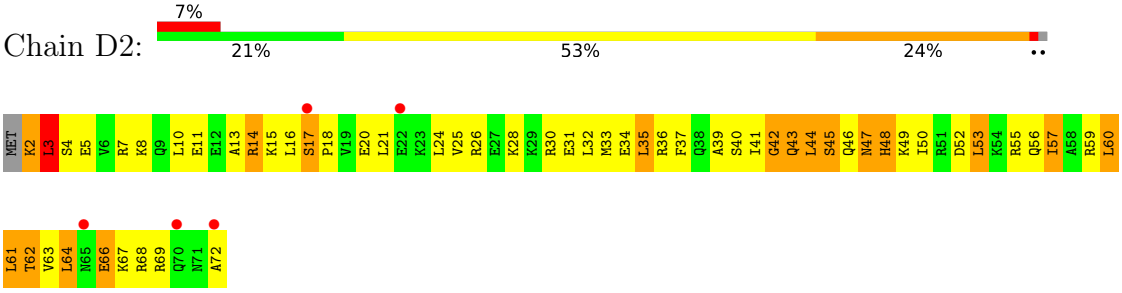
• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain B2:



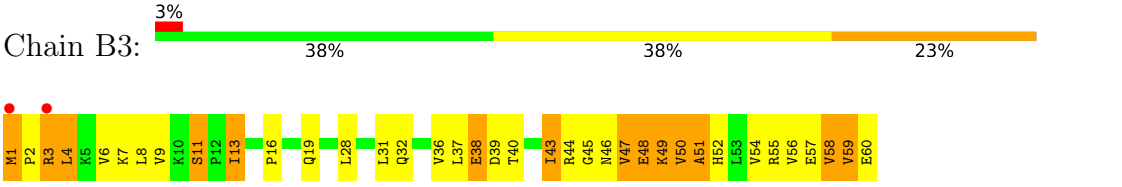
• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain D2:



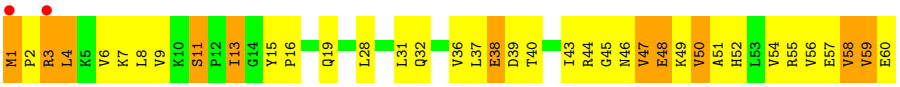
• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain B3:



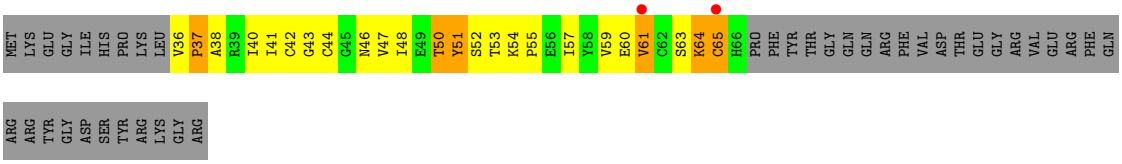
• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain D3:



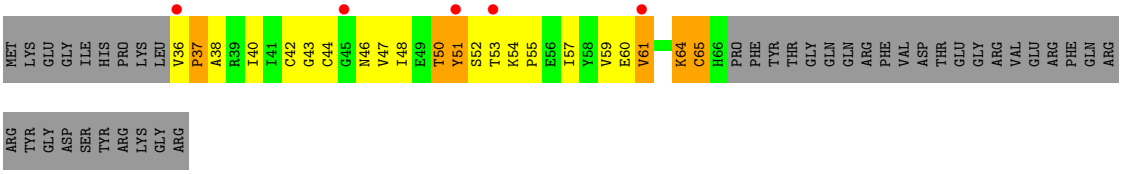
• Molecule 29: 50S RIBOSOMAL PROTEIN L31

Chain B4:



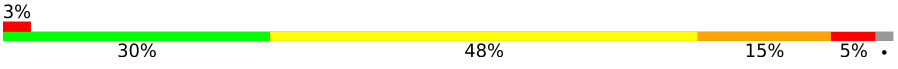
• Molecule 29: 50S RIBOSOMAL PROTEIN L31

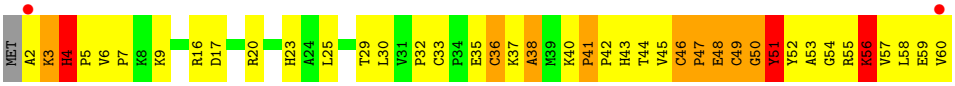
Chain D4:



• Molecule 30: 50S RIBOSOMAL PROTEIN L32

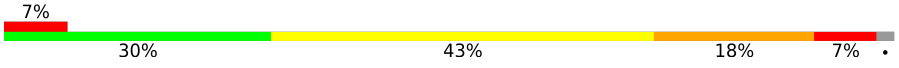
Chain B5:

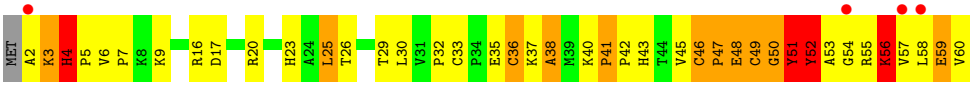




• Molecule 30: 50S RIBOSOMAL PROTEIN L32

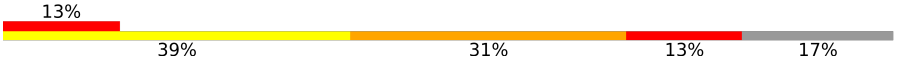
Chain D5:

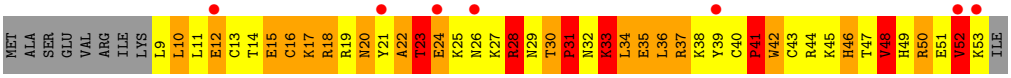




• Molecule 31: 50S RIBOSOMAL PROTEIN L33

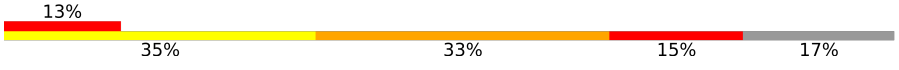
Chain B6:

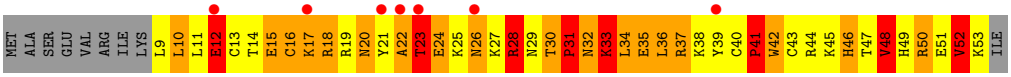




• Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain D6:



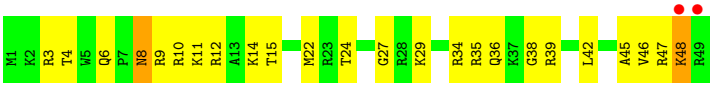


• Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain B7:

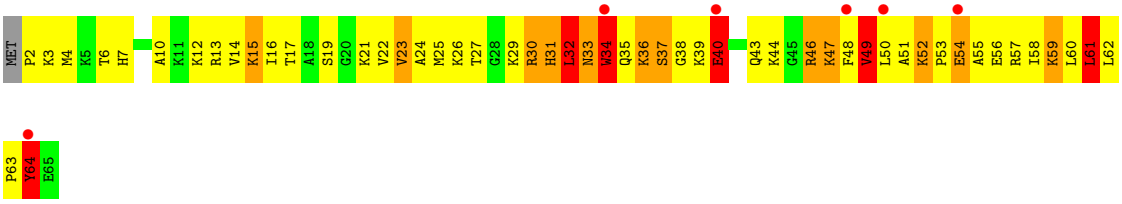
• Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain D7:



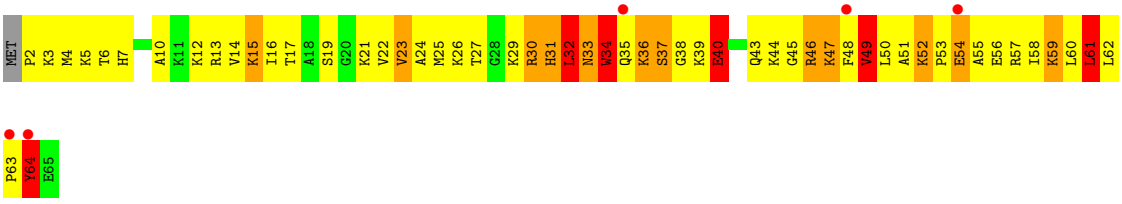
• Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain B8:



• Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain D8:

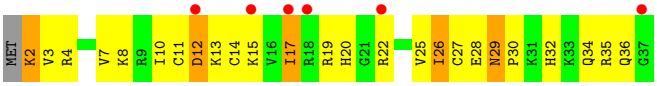


• Molecule 34: 50S RIBOSOMAL PROTEIN L36

Chain B9:

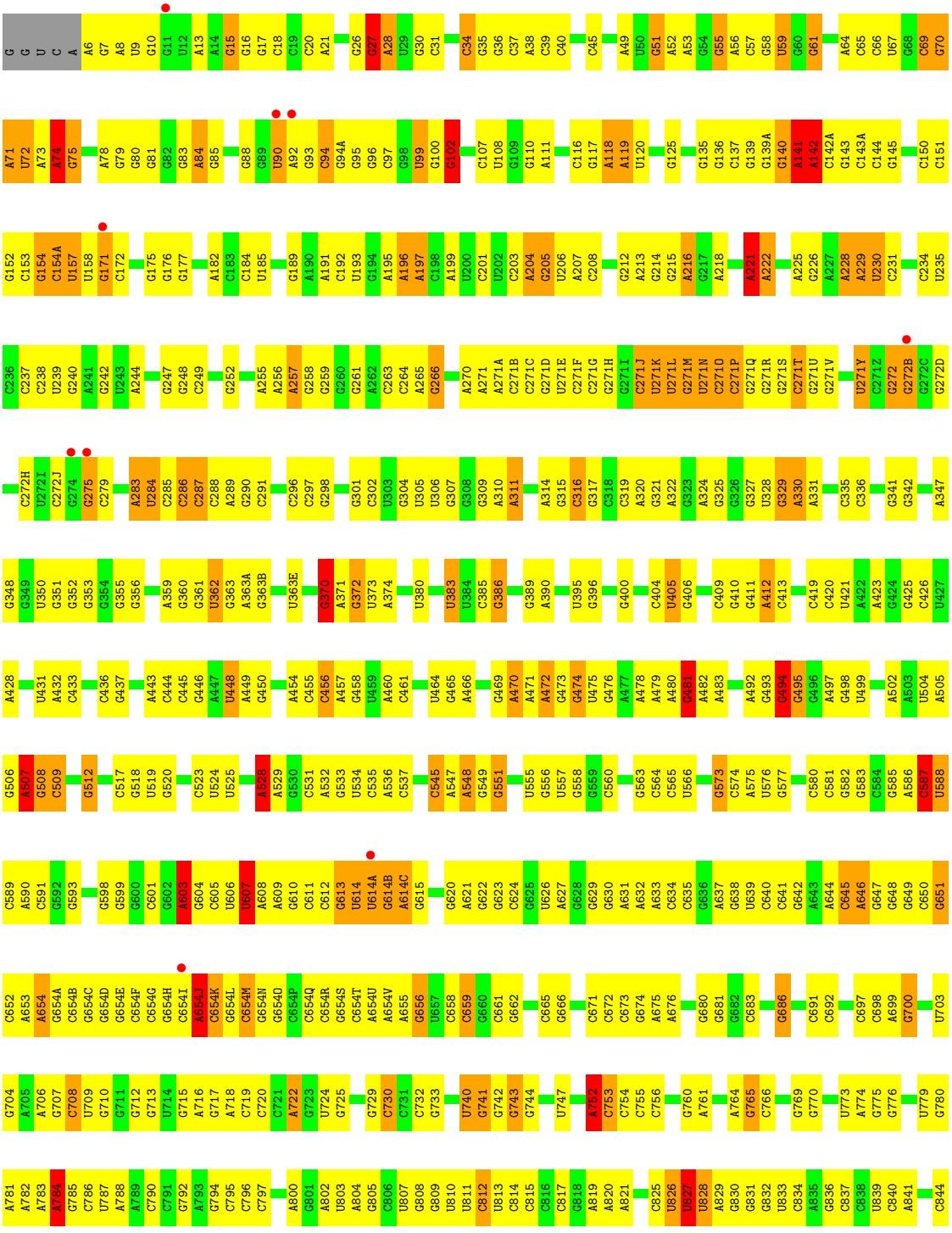
• Molecule 34: 50S RIBOSOMAL PROTEIN L36

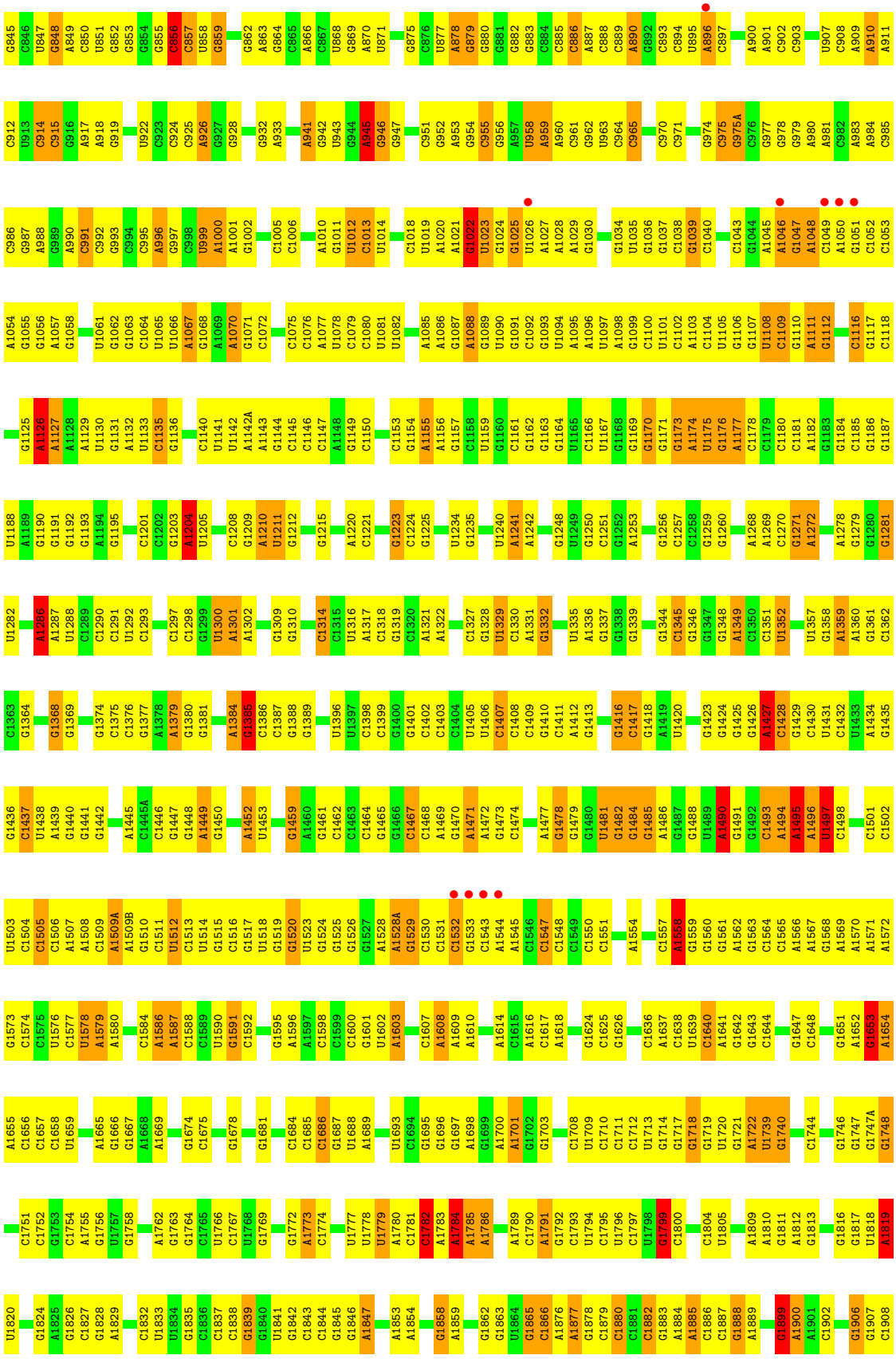
Chain D9:

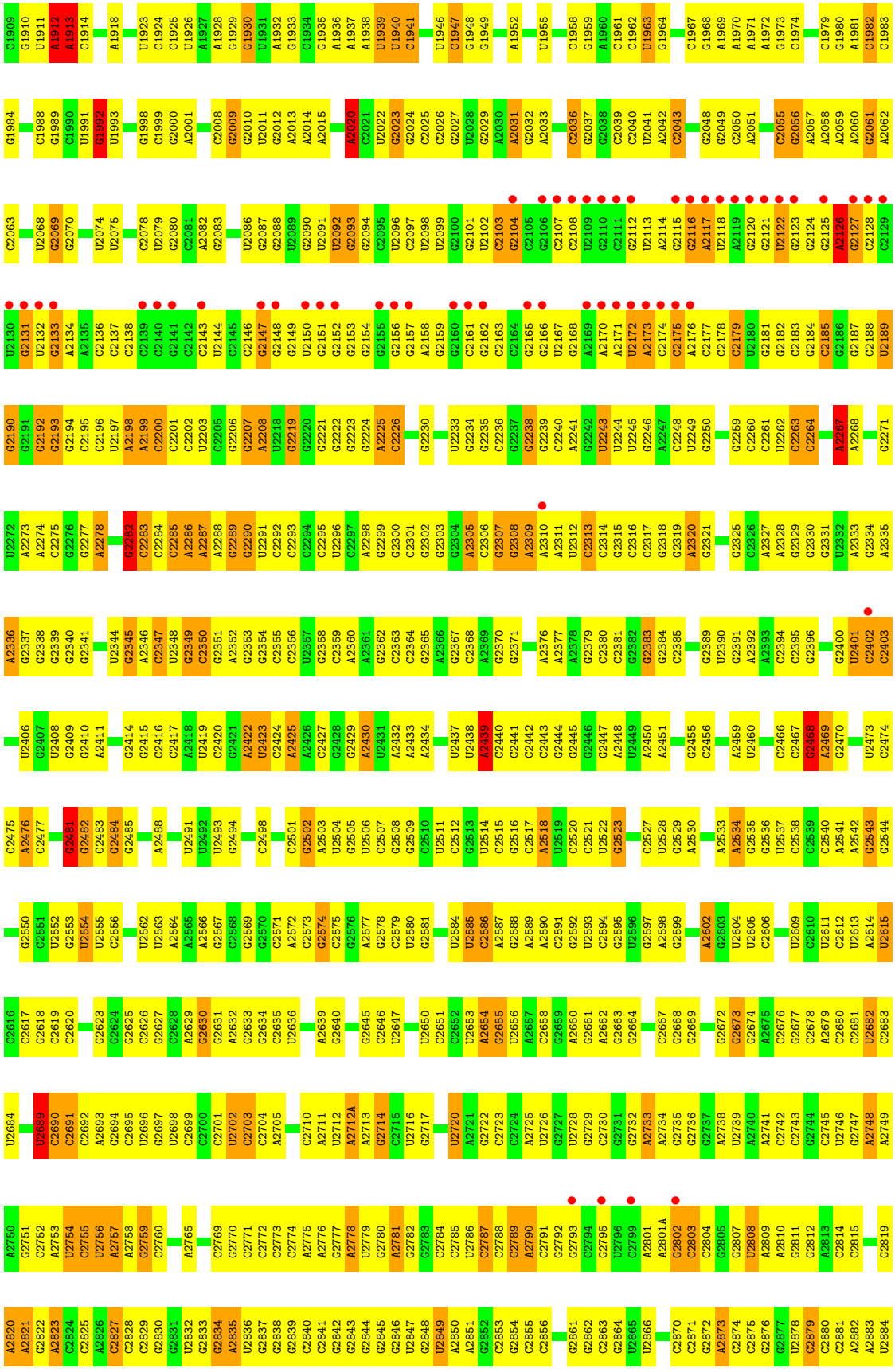


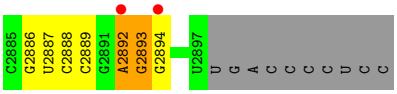
• Molecule 35: 23S RIBOSOMAL RNA

Chain BA:



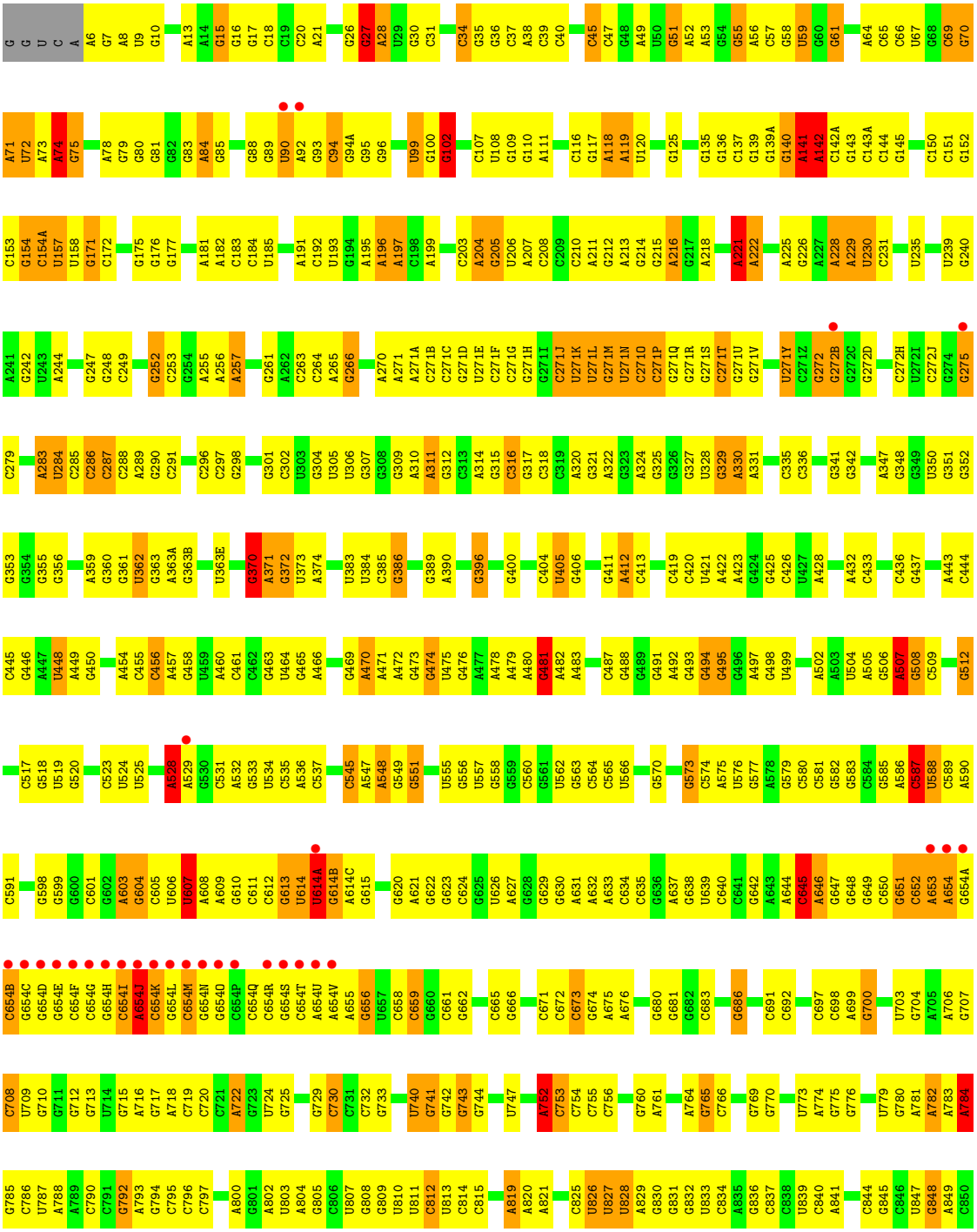


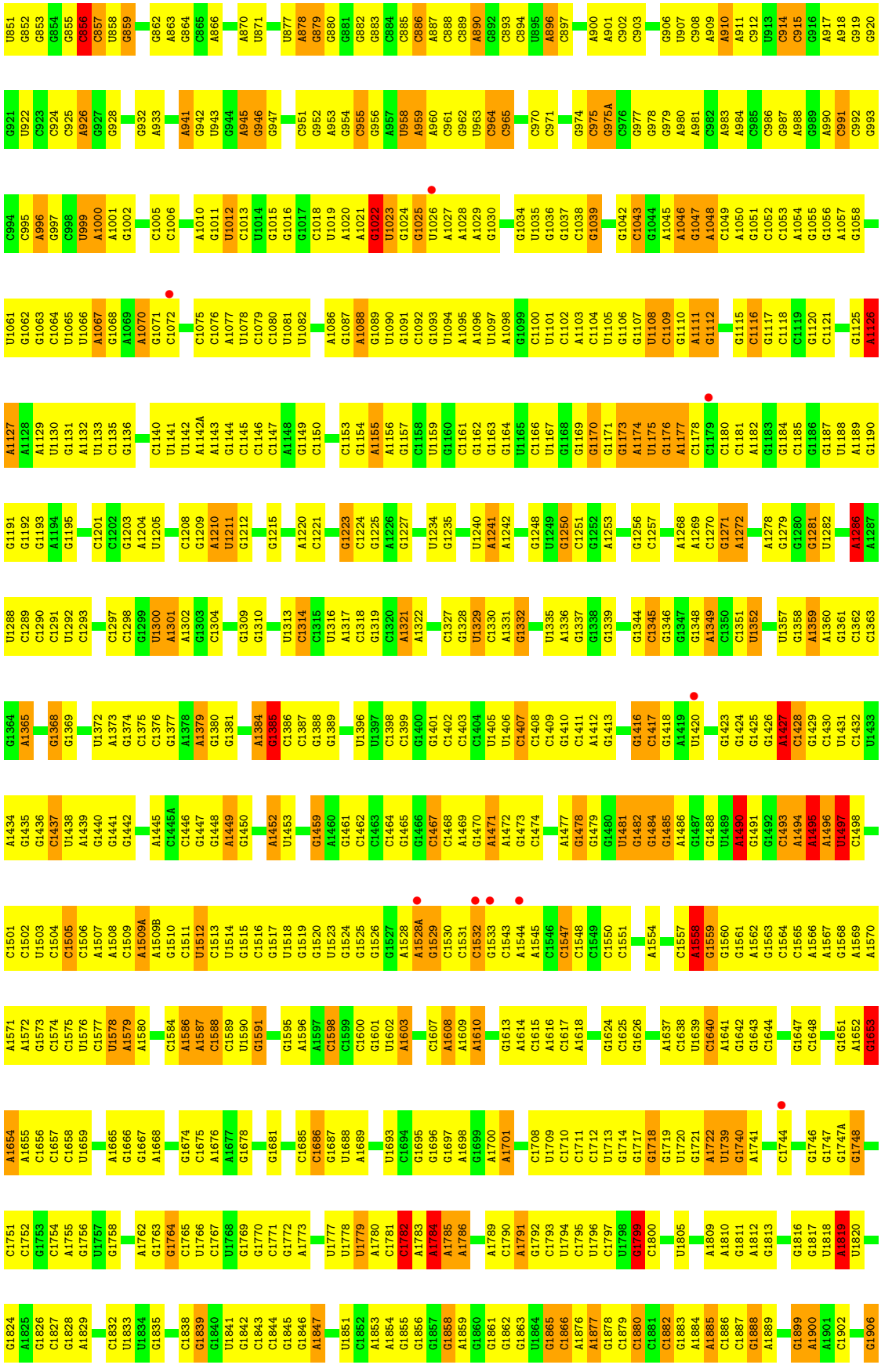


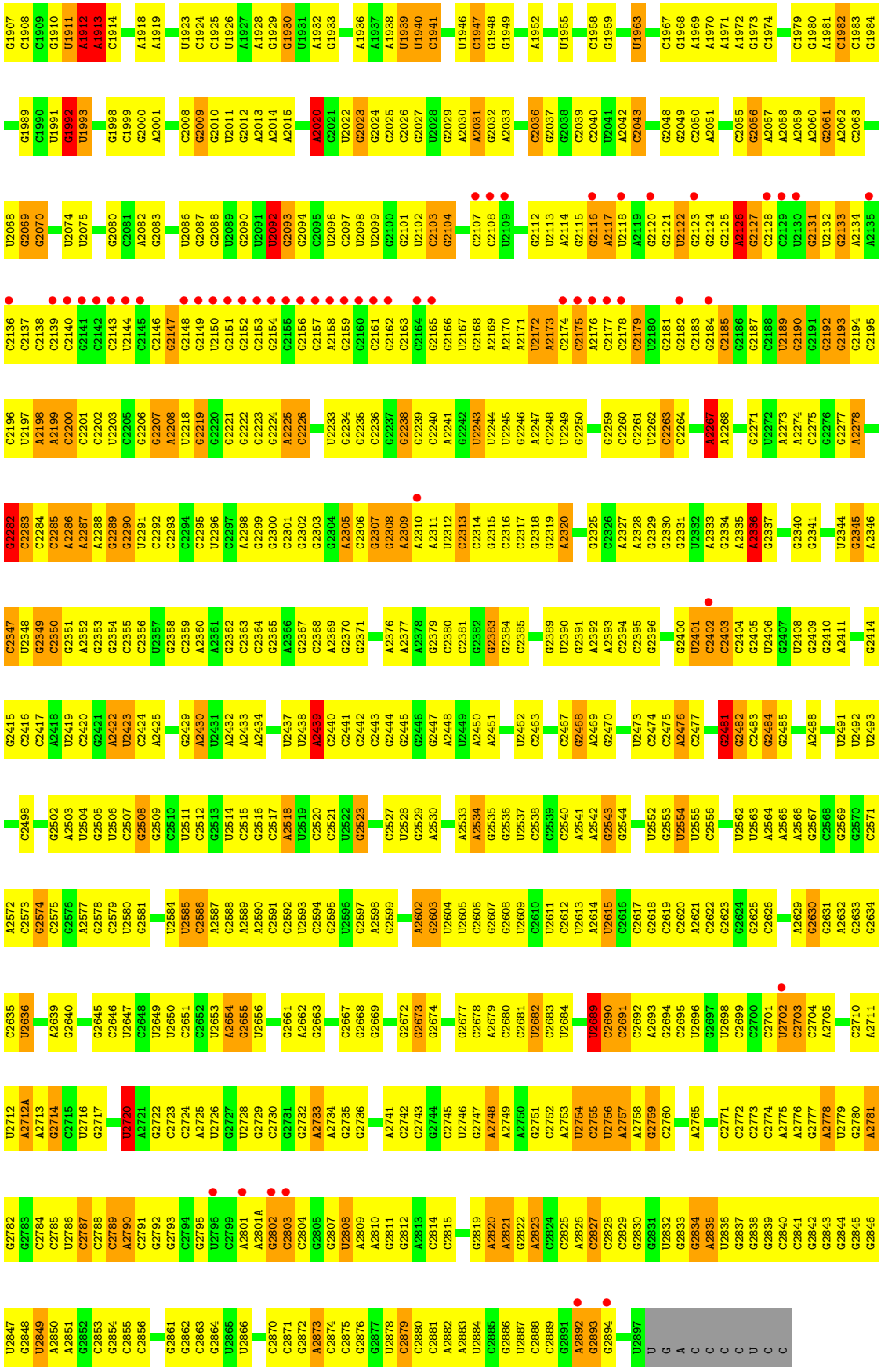


• Molecule 35: 23S RIBOSOMAL RNA

Chain DA:

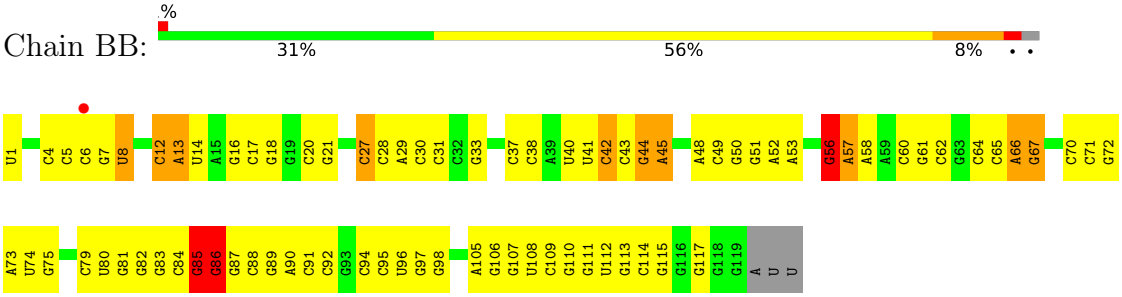






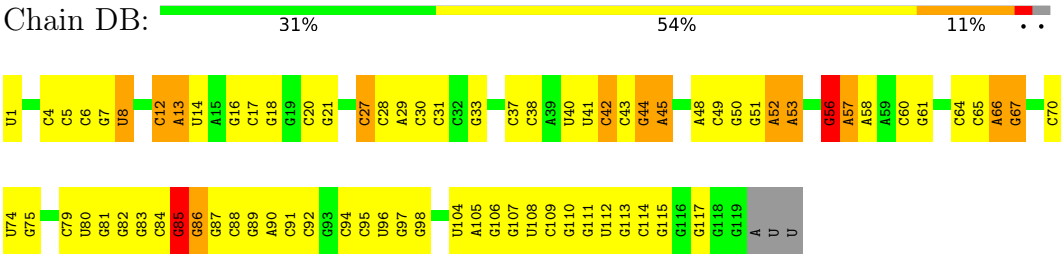
• Molecule 36: 5S RIBOSOMAL RNA

Chain BB:



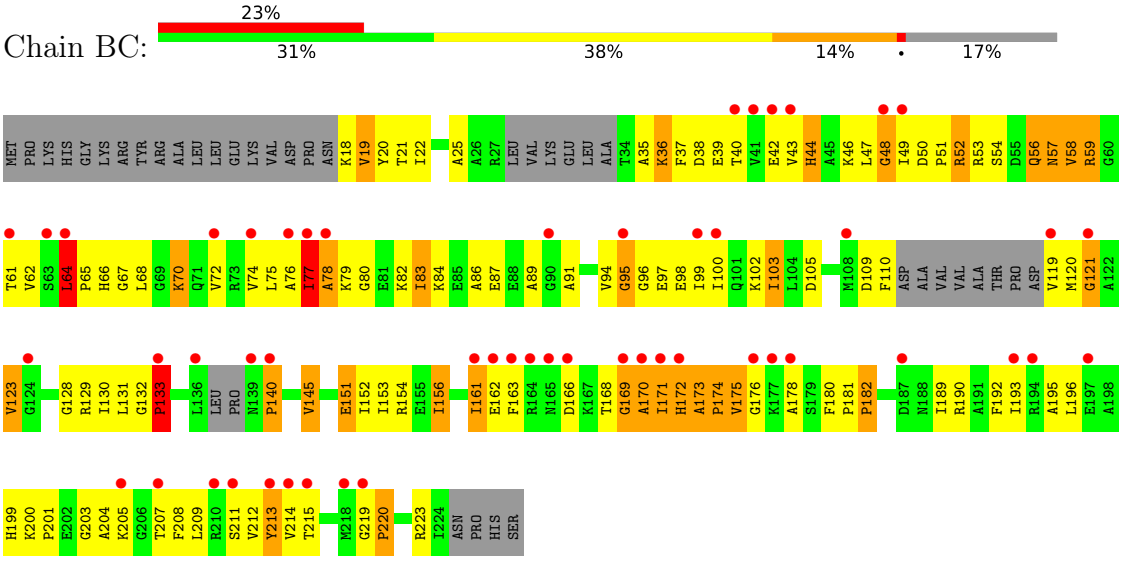
• Molecule 36: 5S RIBOSOMAL RNA

Chain DB:



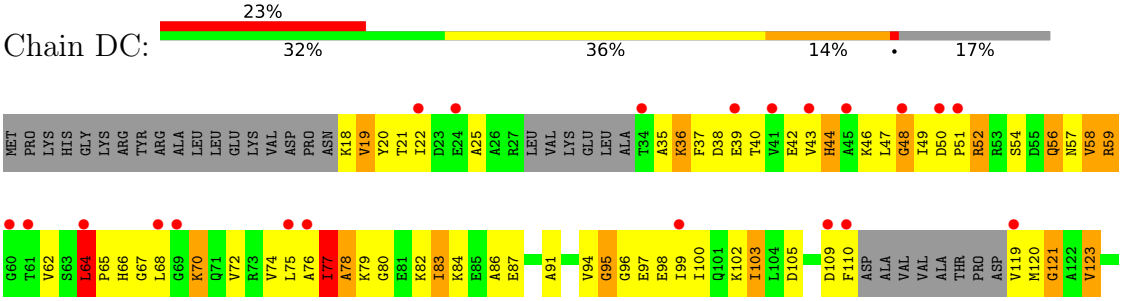
• Molecule 37: 50S RIBOSOMAL PROTEIN L1

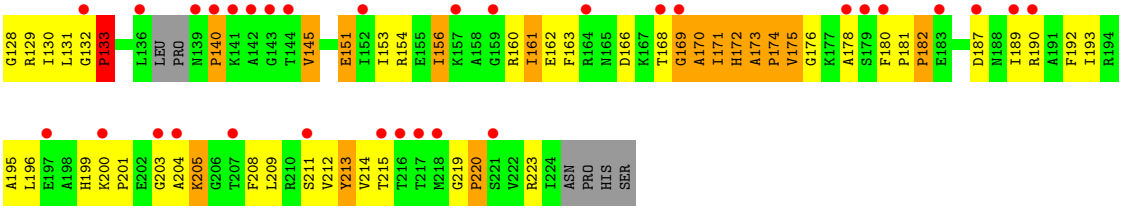
Chain BC:



• Molecule 37: 50S RIBOSOMAL PROTEIN L1

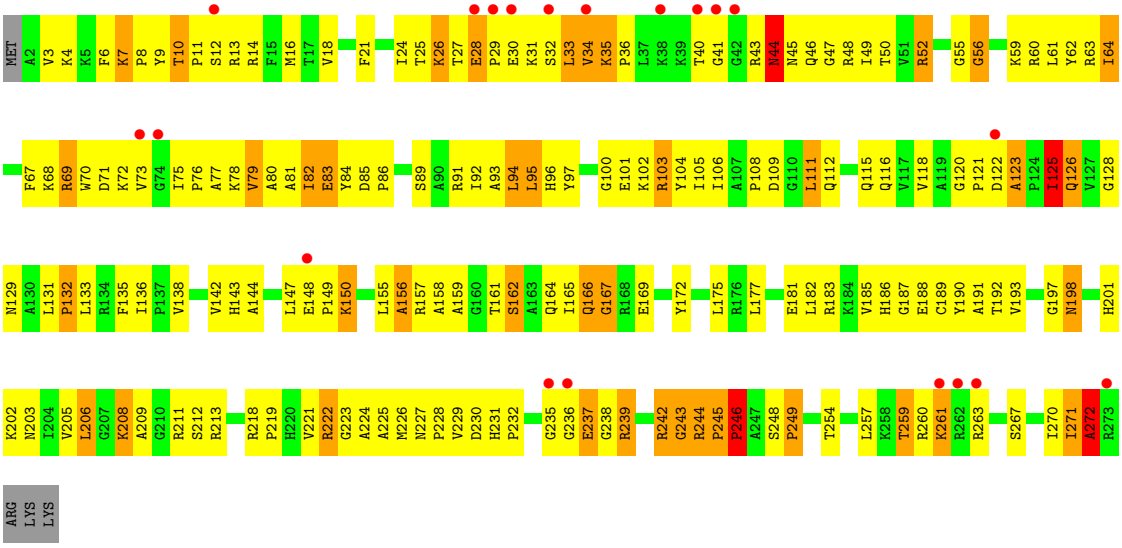
Chain DC:





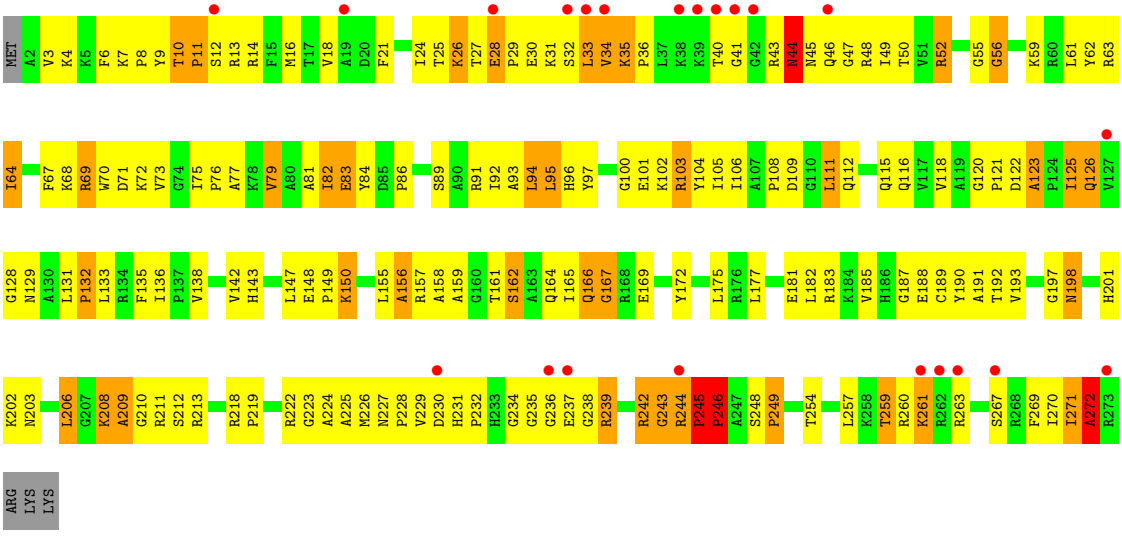
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

Chain BD:



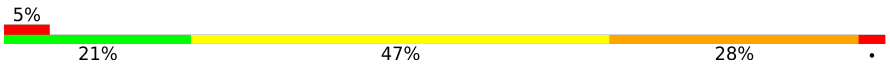
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

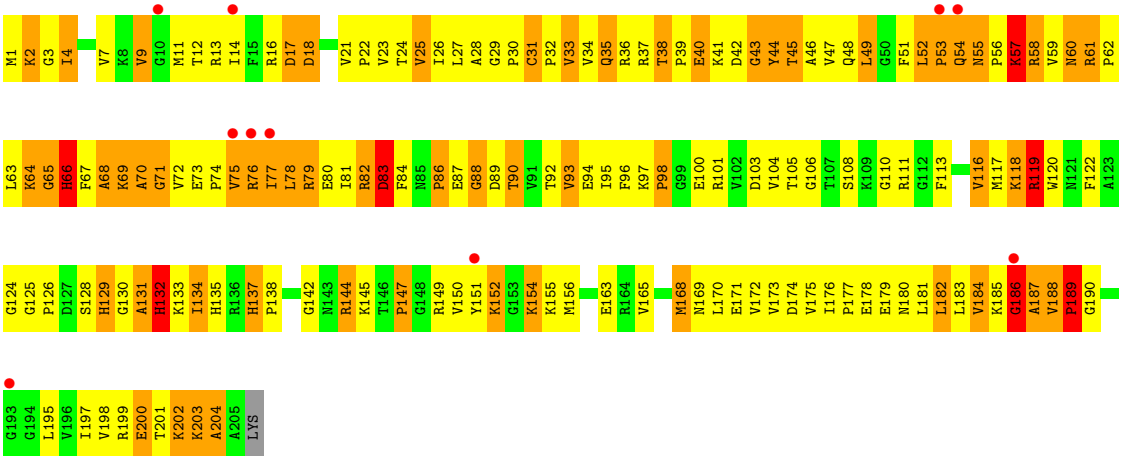
Chain DD:



• Molecule 39: 50S RIBOSOMAL PROTEIN L3

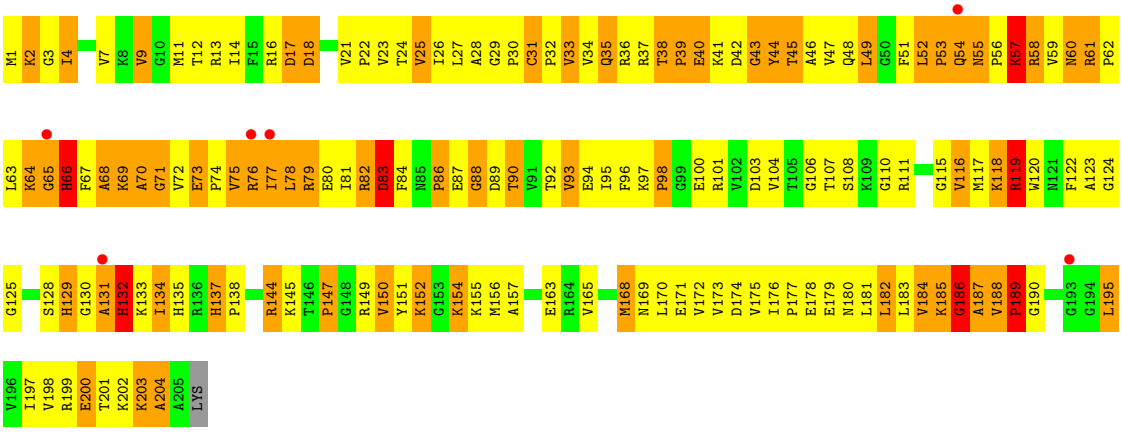
Chain BE:





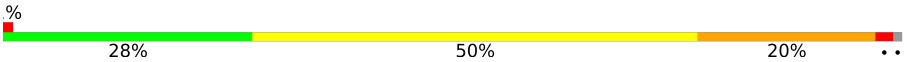
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

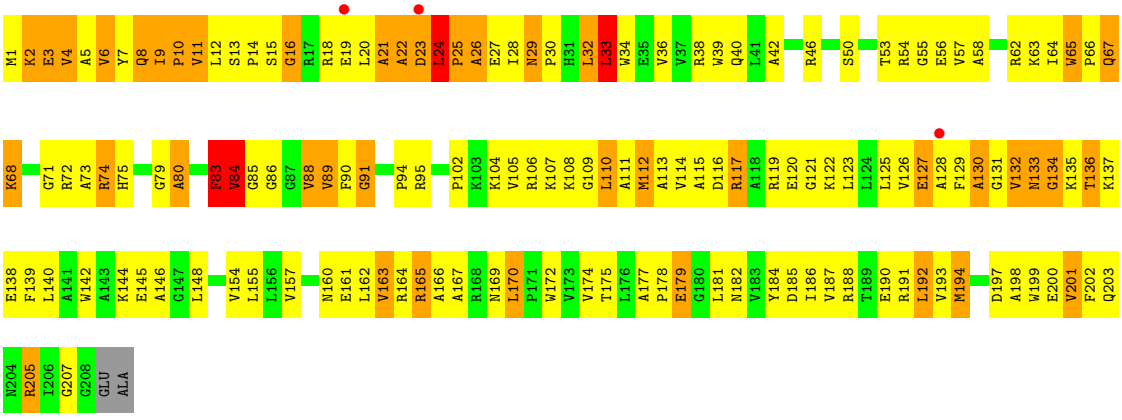
Chain DE:



• Molecule 40: 50S RIBOSOMAL PROTEIN L4

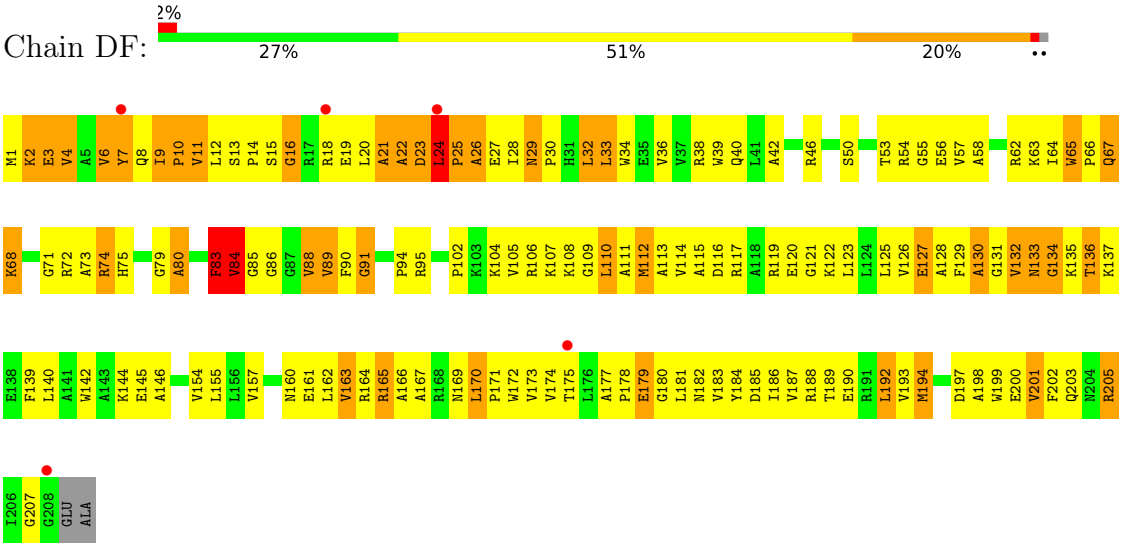
Chain BF:





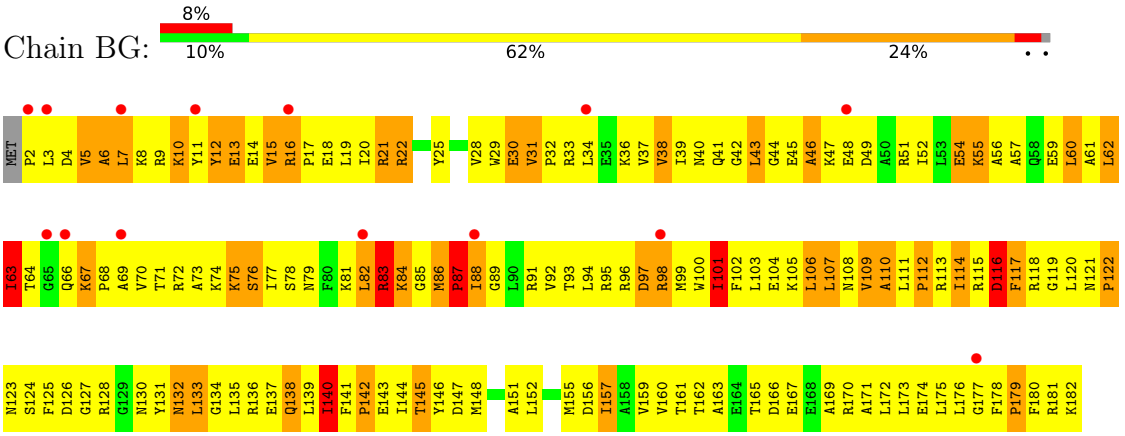
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

Chain DF:



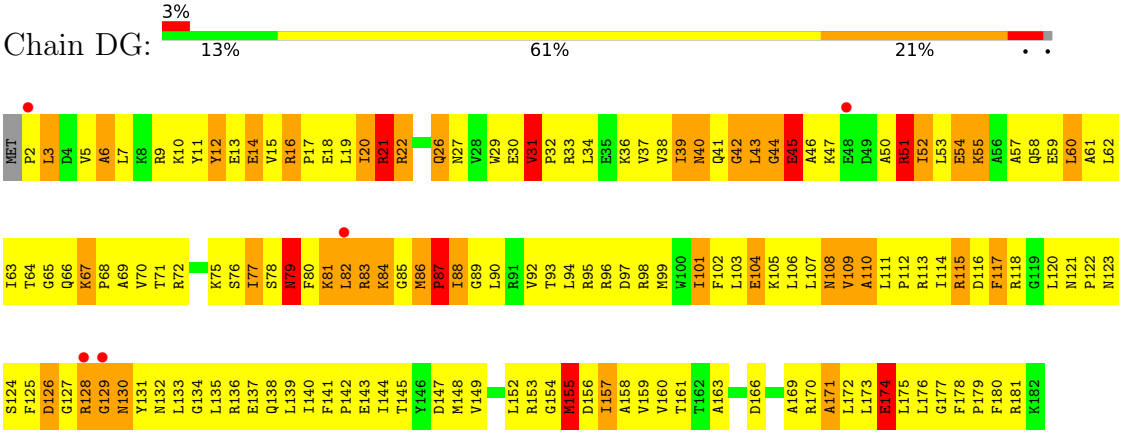
• Molecule 41: 50S RIBOSOMAL PROTEIN L5

Chain BG:



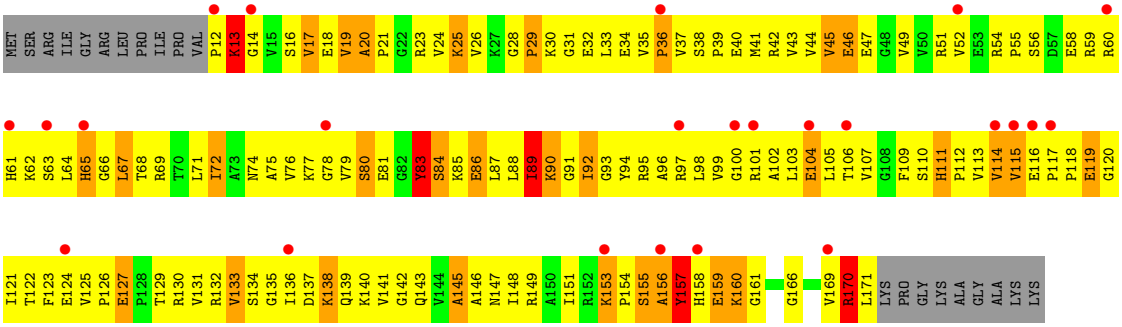
• Molecule 41: 50S RIBOSOMAL PROTEIN L5

Chain DG:



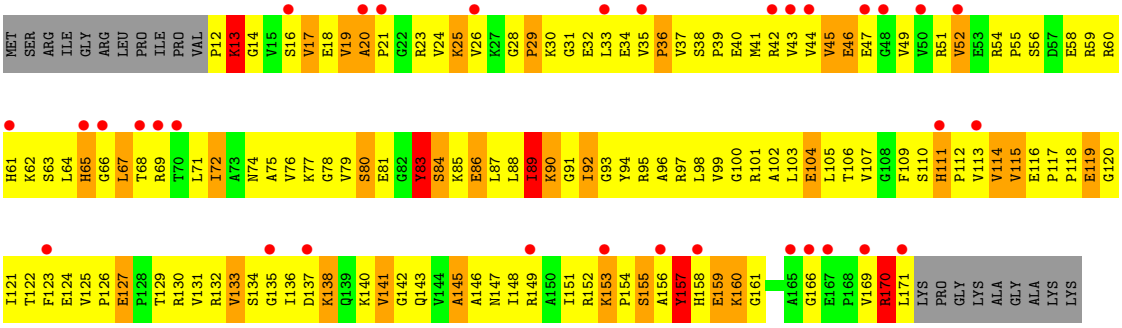
• Molecule 42: 50S RIBOSOMAL PROTEIN L6

Chain BH:



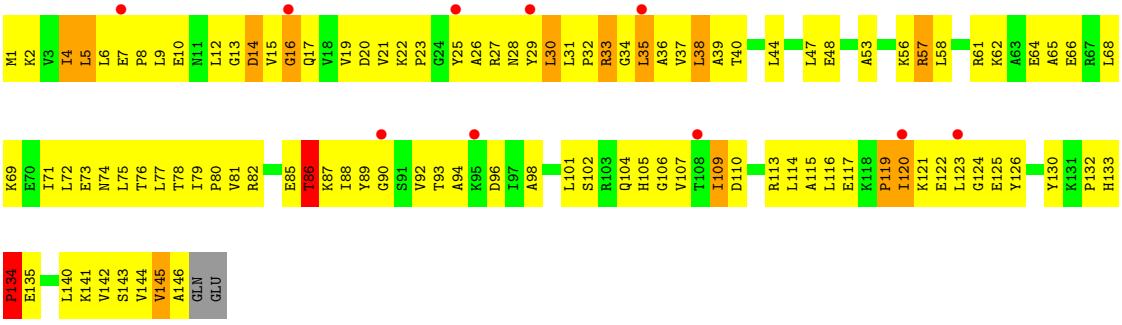
• Molecule 42: 50S RIBOSOMAL PROTEIN L6

Chain DH:



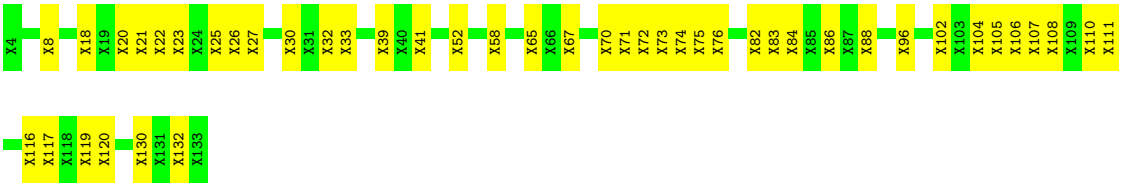
• Molecule 43: 50S RIBOSOMAL PROTEIN L9

Chain BI:



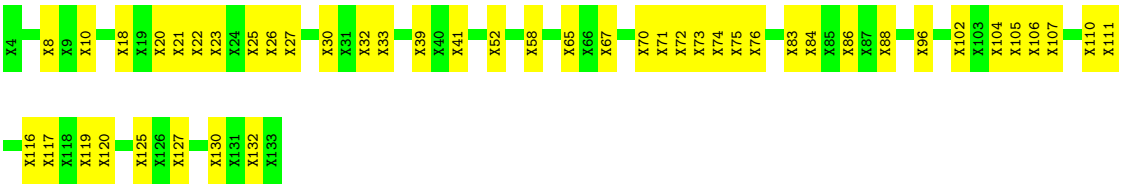
• Molecule 44: 50S RIBOSOMAL PROTEIN L10

Chain BJ:



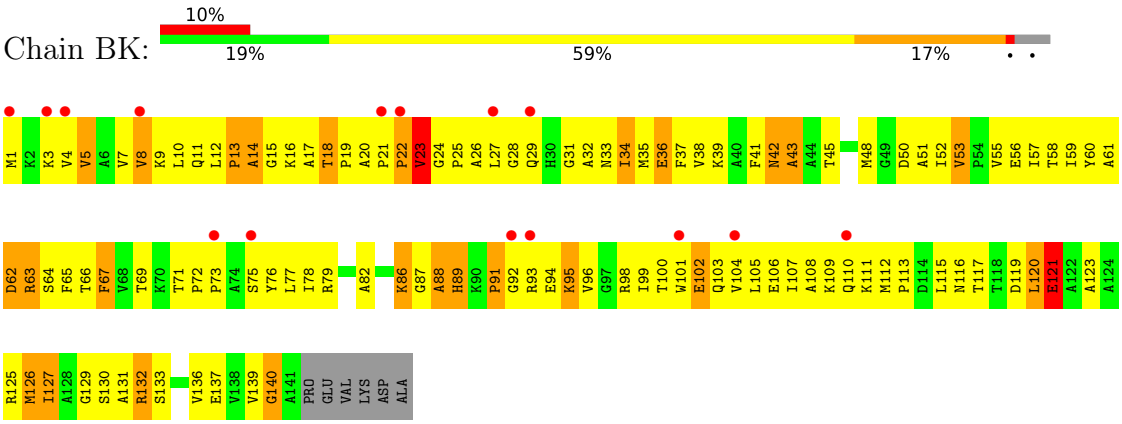
• Molecule 44: 50S RIBOSOMAL PROTEIN L10

Chain DJ:



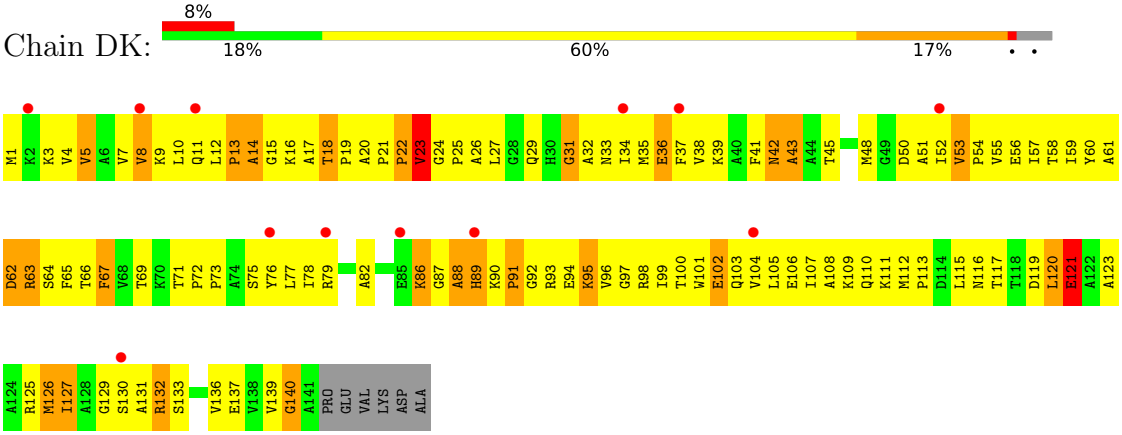
• Molecule 45: 50S RIBOSOMAL PROTEIN L11

Chain BK:



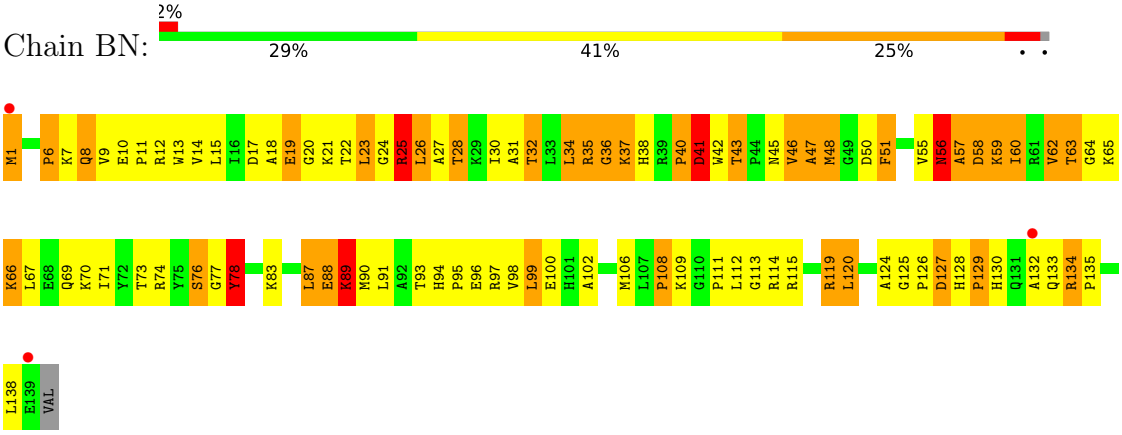
• Molecule 45: 50S RIBOSOMAL PROTEIN L11

Chain DK:



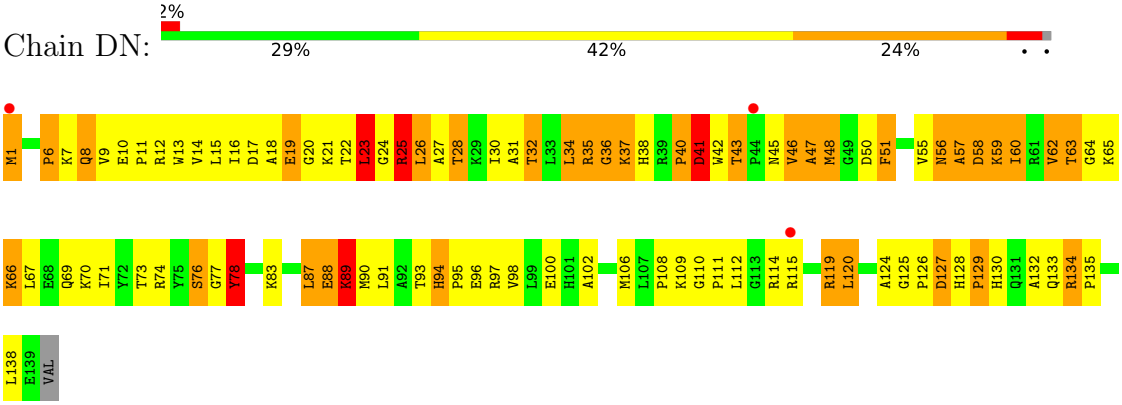
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain BN:



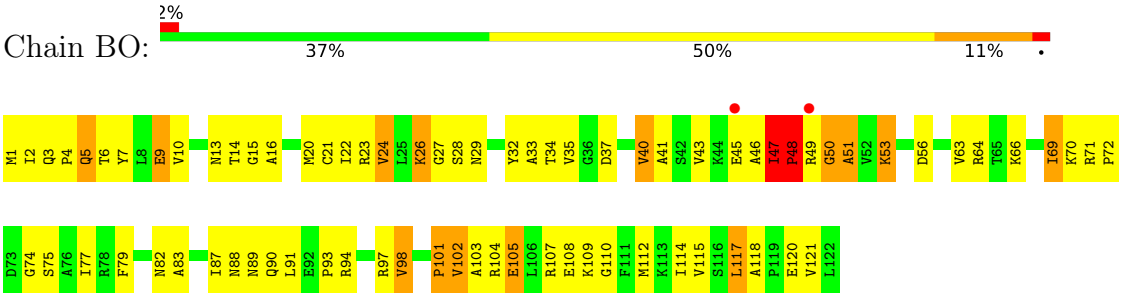
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain DN:



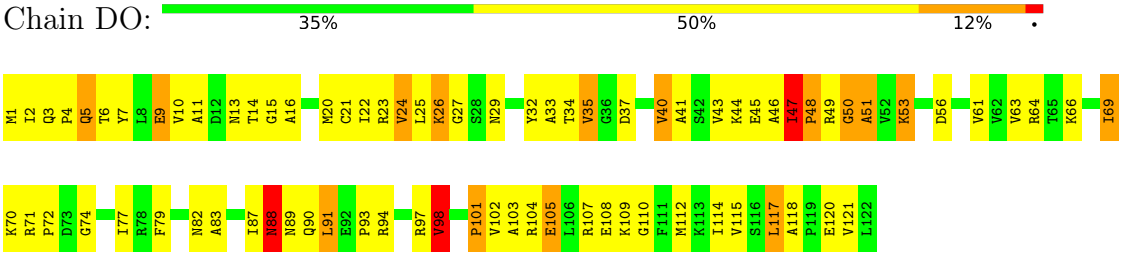
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain BO:



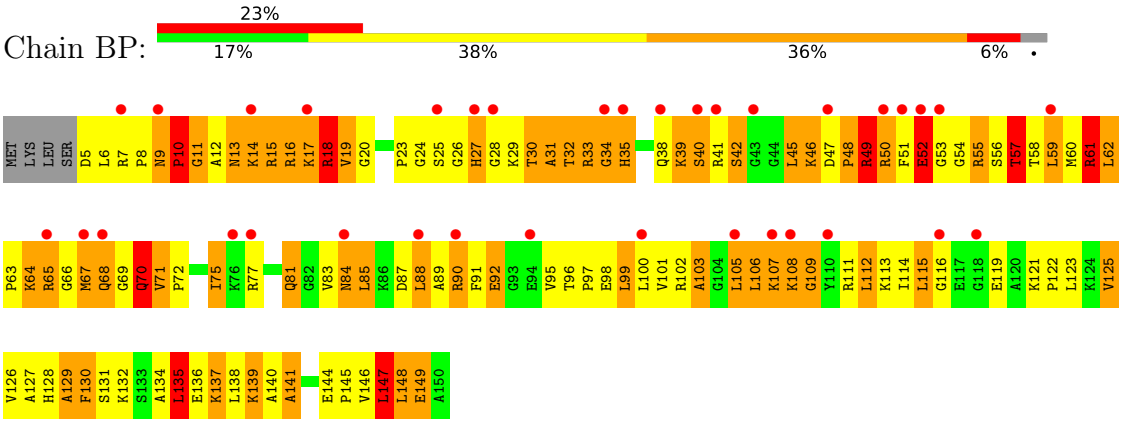
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain DO:



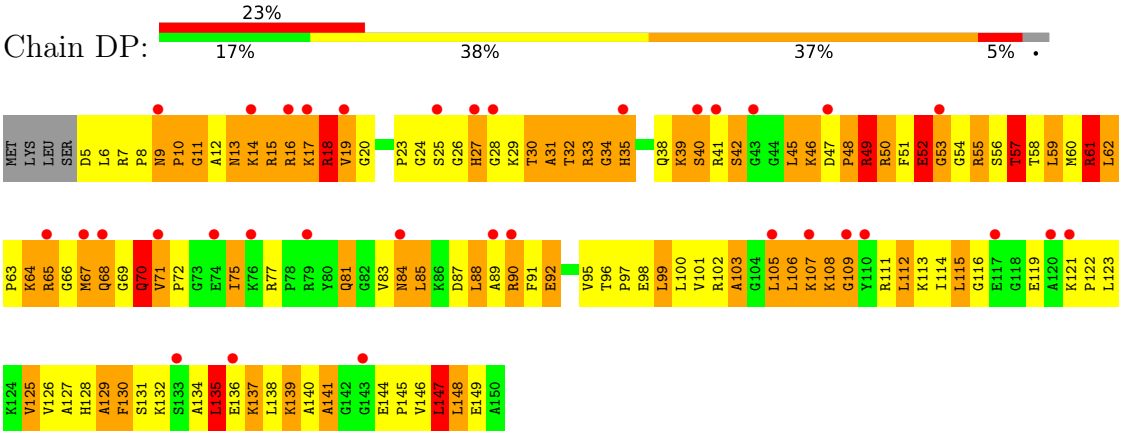
• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain BP:



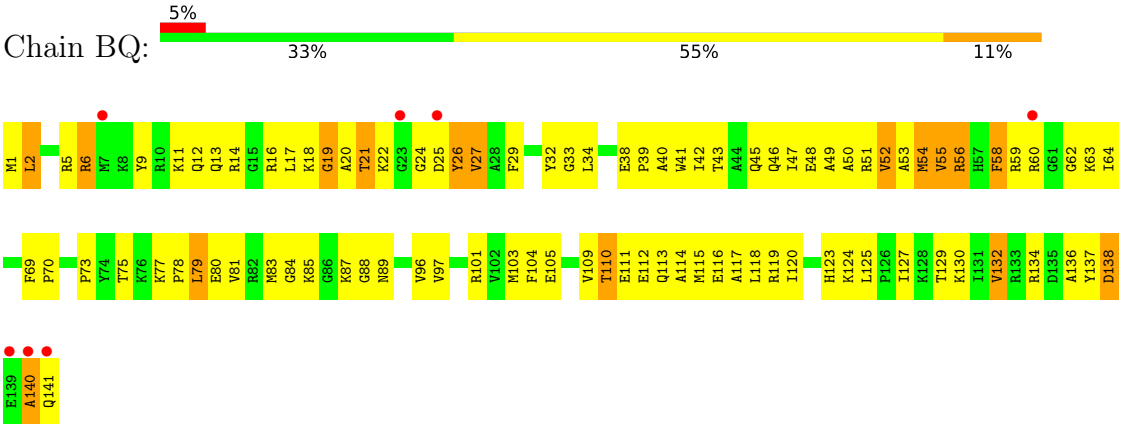
• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain DP:



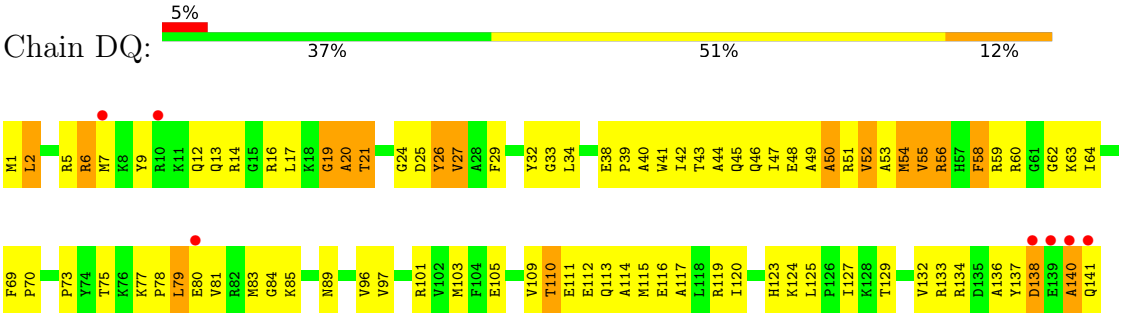
• Molecule 49: 50S RIBOSOMAL PROTEIN L16

Chain BQ:



• Molecule 49: 50S RIBOSOMAL PROTEIN L16

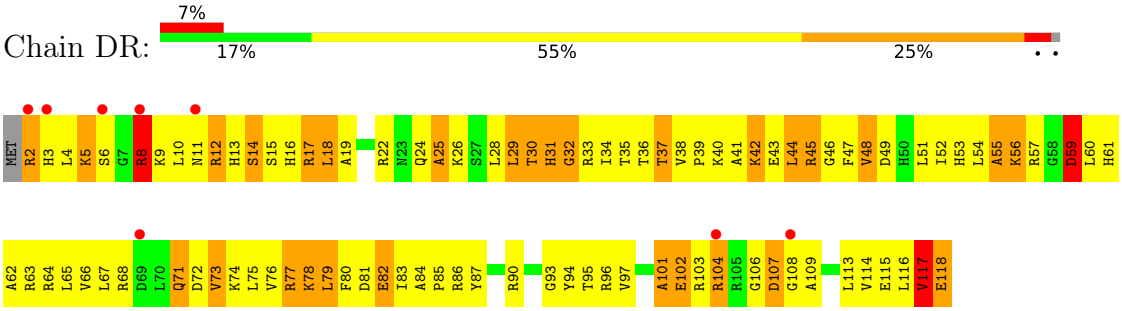
Chain DQ:



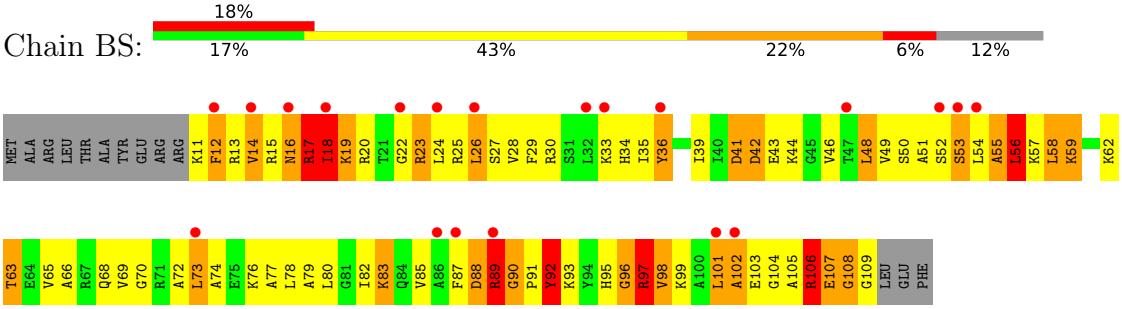
• Molecule 50: 50S RIBOSOMAL PROTEIN L17

Chain BR:

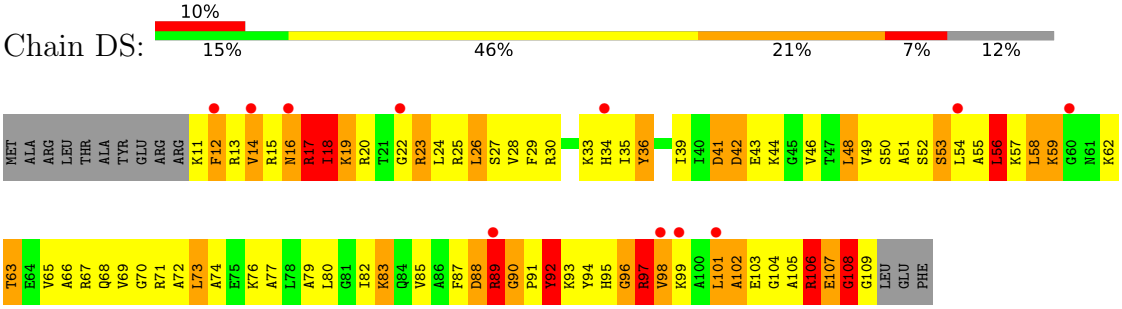
• Molecule 50: 50S RIBOSOMAL PROTEIN L17



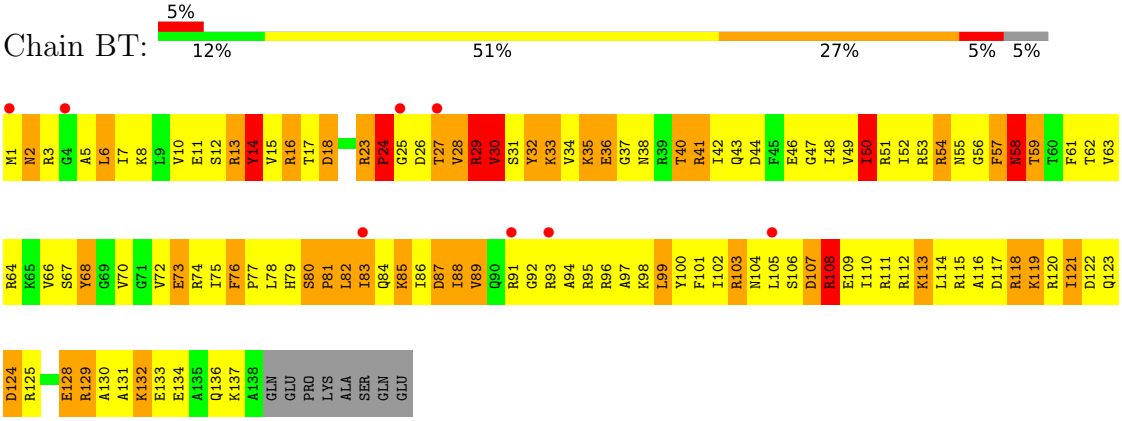
• Molecule 51: 50S RIBOSOMAL PROTEIN L18



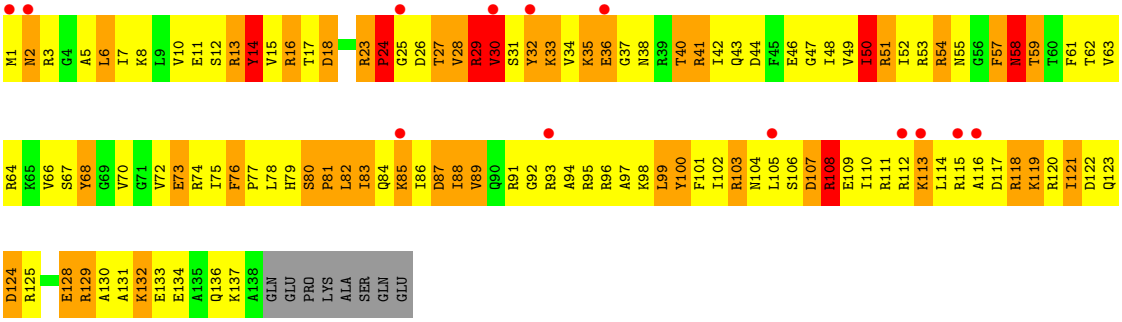
• Molecule 51: 50S RIBOSOMAL PROTEIN L18



• Molecule 52: 50S RIBOSOMAL PROTEIN L19

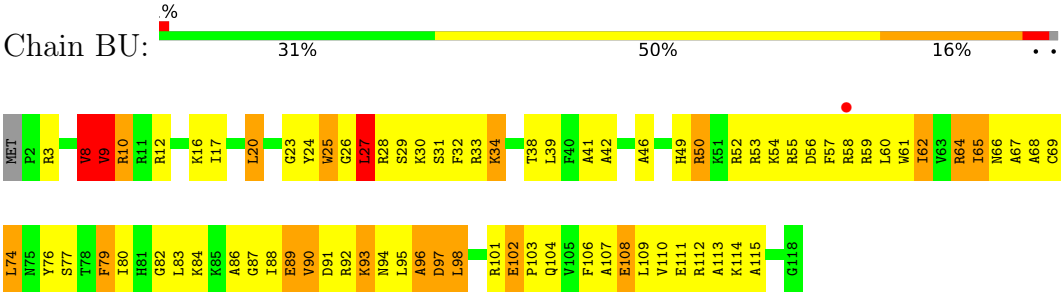


• Molecule 52: 50S RIBOSOMAL PROTEIN L19



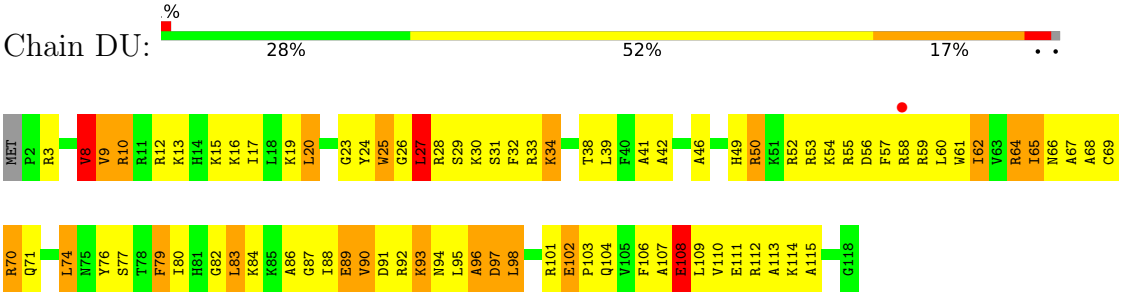
• Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain BU:



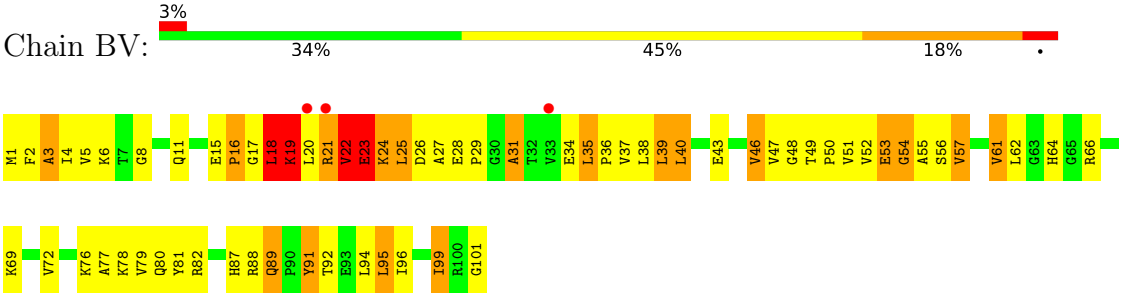
• Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain DU:



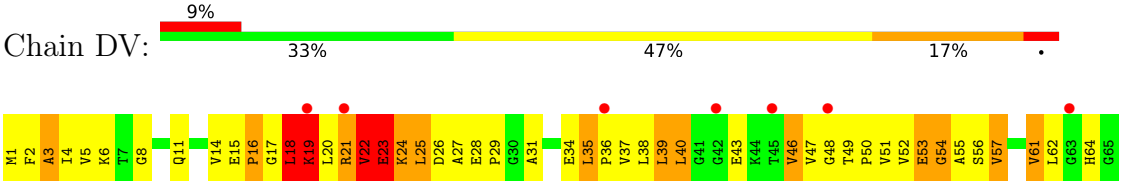
• Molecule 54: 50S RIBOSOMAL PROTEIN L21

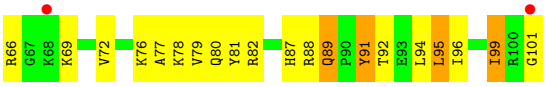
Chain BV:



• Molecule 54: 50S RIBOSOMAL PROTEIN L21

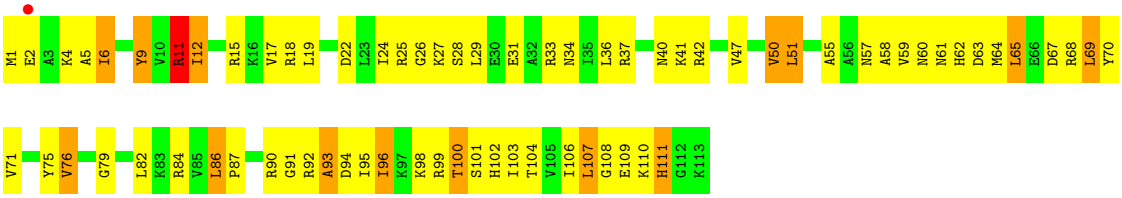
Chain DV:





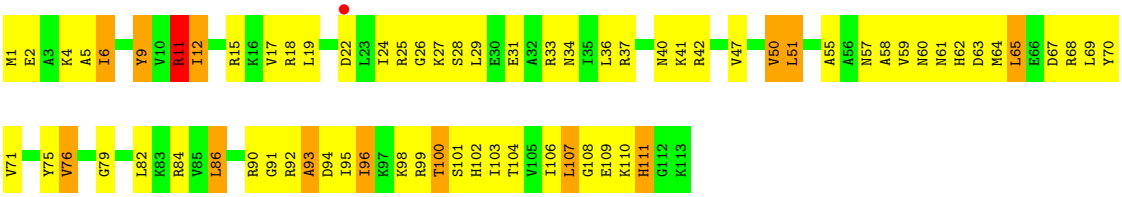
• Molecule 55: 50S RIBOSOMAL PROTEIN L22

Chain BW:



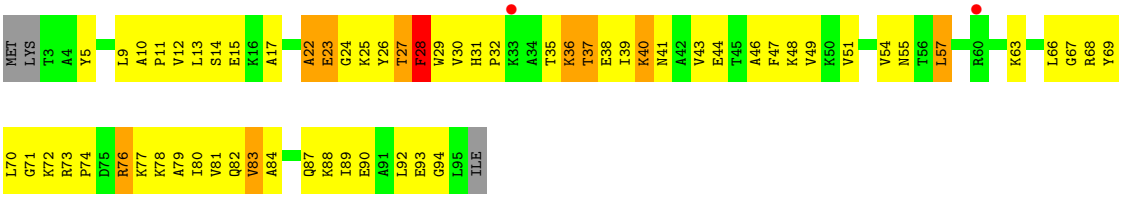
• Molecule 55: 50S RIBOSOMAL PROTEIN L22

Chain DW:



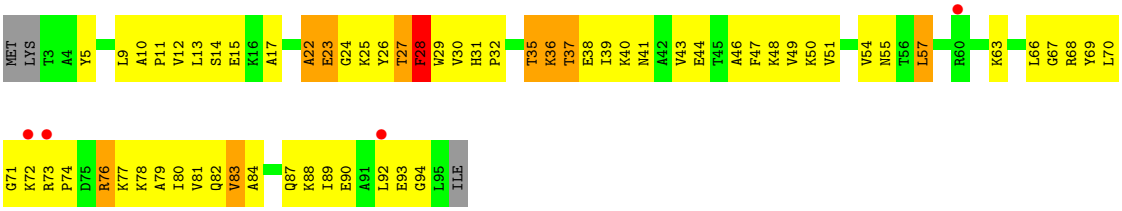
• Molecule 56: 50S RIBOSOMAL PROTEIN L23

Chain BX:



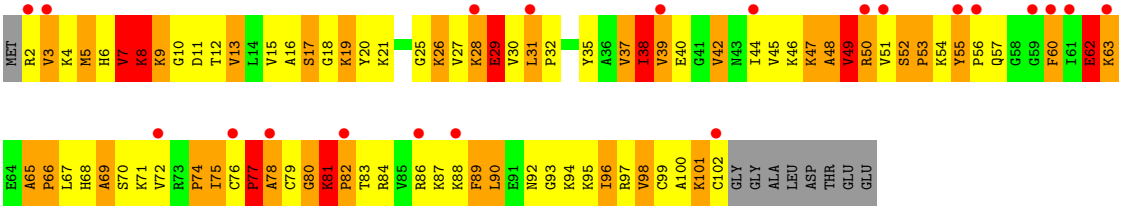
• Molecule 56: 50S RIBOSOMAL PROTEIN L23

Chain DX:



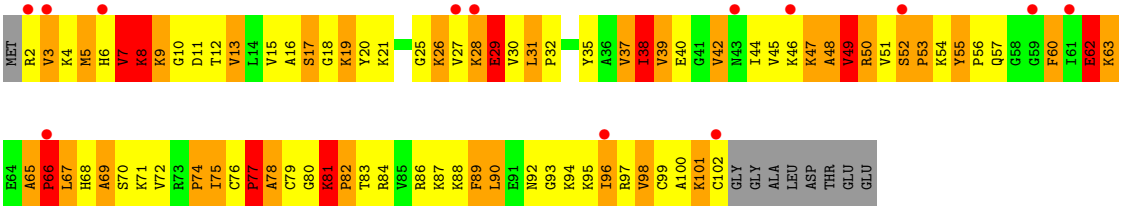
• Molecule 57: 50S RIBOSOMAL PROTEIN L24

Chain BY:



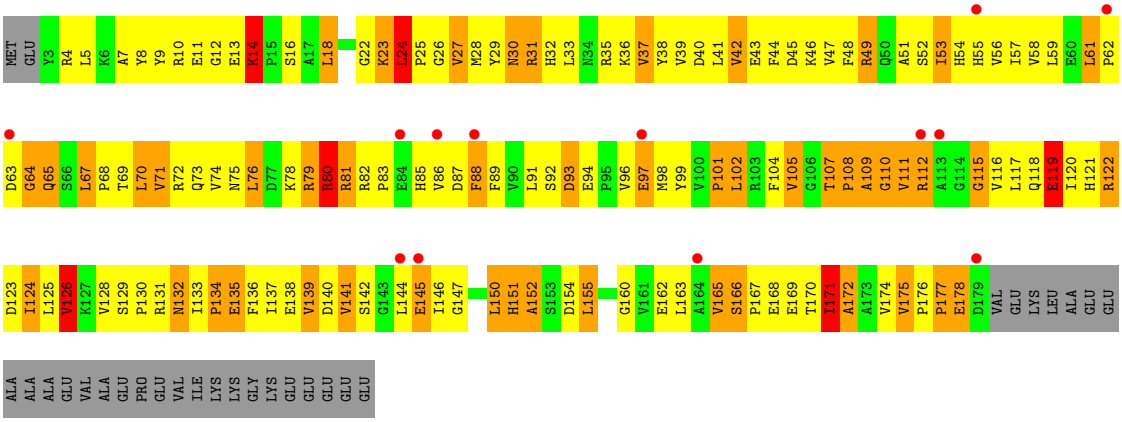
• Molecule 57: 50S RIBOSOMAL PROTEIN L24

Chain DY:



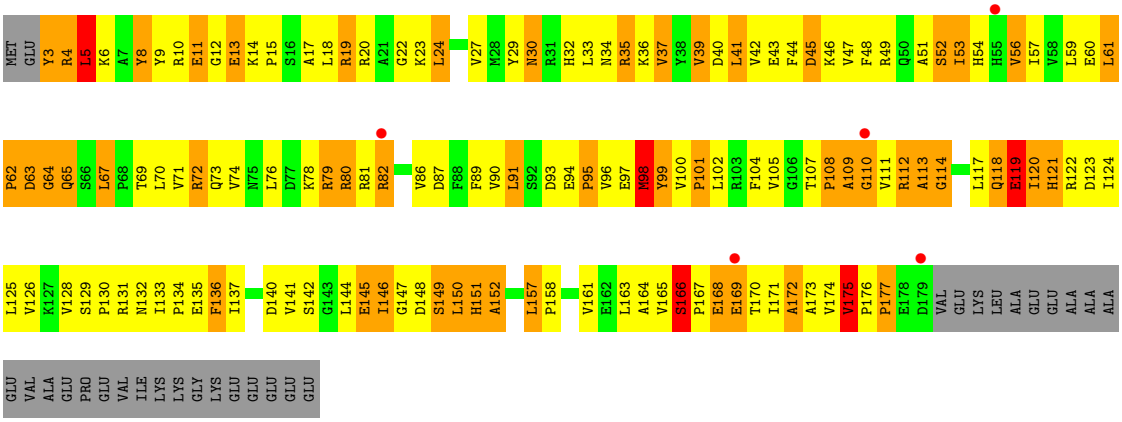
• Molecule 58: 50S RIBOSOMAL PROTEIN L25

Chain BZ:



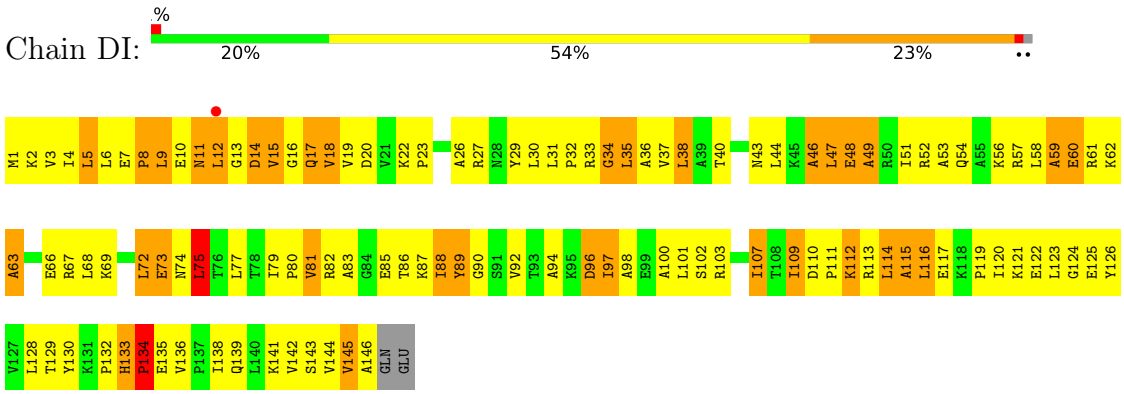
• Molecule 58: 50S RIBOSOMAL PROTEIN L25

Chain DZ:



• Molecule 59: 50S RIBOSOMAL PROTEIN L9

Chain DI:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	211.34Å 450.91Å 614.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.57 – 3.45 49.57 – 3.45	Depositor EDS
% Data completeness (in resolution range)	99.6 (49.57-3.45) 99.6 (49.57-3.45)	Depositor EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.16 (at 3.48Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.210 , 0.257 0.208 , 0.256	Depositor DCC
R_{free} test set	33081 reflections (4.35%)	wwPDB-VP
Wilson B-factor (Å^2)	76.9	Xtriage
Anisotropy	0.053	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 86.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.23$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	304505	wwPDB-VP
Average B, all atoms (Å^2)	88.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.41% 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

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AA	0.42	0/36190	0.63	33/56486 (0.1%)
1	CA	0.43	0/36190	0.63	34/56486 (0.1%)
2	AB	0.38	1/1936 (0.1%)	0.95	10/2611 (0.4%)
2	CB	0.39	1/1936 (0.1%)	0.95	9/2611 (0.3%)
3	AC	0.40	1/1637 (0.1%)	0.90	7/2207 (0.3%)
3	CC	0.43	1/1637 (0.1%)	0.90	9/2207 (0.4%)
4	AD	0.39	0/1733	0.96	6/2318 (0.3%)
4	CD	0.41	0/1733	0.97	11/2318 (0.5%)
5	AE	0.44	1/1163 (0.1%)	0.92	2/1566 (0.1%)
5	CE	0.45	1/1163 (0.1%)	0.94	2/1566 (0.1%)
6	AF	0.34	0/856	0.91	1/1154 (0.1%)
6	CF	0.35	0/856	0.90	1/1154 (0.1%)
7	AG	0.35	0/1276	0.91	3/1709 (0.2%)
7	CG	0.40	0/1276	0.93	5/1709 (0.3%)
8	AH	0.41	0/1136	0.97	5/1527 (0.3%)
8	CH	0.42	0/1136	0.97	4/1527 (0.3%)
9	AI	0.34	0/1029	1.00	8/1378 (0.6%)
9	CI	0.37	0/1029	1.00	8/1378 (0.6%)
10	AJ	0.43	1/808 (0.1%)	0.93	4/1087 (0.4%)
10	CJ	0.44	1/808 (0.1%)	0.95	4/1087 (0.4%)
11	AK	0.40	0/900	0.96	1/1213 (0.1%)
11	CK	0.43	0/900	0.96	1/1213 (0.1%)
12	AL	0.51	1/992 (0.1%)	1.14	8/1329 (0.6%)
12	CL	0.52	1/992 (0.1%)	1.14	9/1329 (0.7%)
13	AM	0.42	1/966 (0.1%)	1.00	4/1294 (0.3%)
13	CM	0.46	1/966 (0.1%)	1.01	4/1294 (0.3%)
14	AN	0.38	0/501	0.94	1/664 (0.2%)
14	CN	0.43	0/501	0.97	3/664 (0.5%)
15	AO	0.37	0/745	0.85	2/992 (0.2%)
15	CO	0.40	0/745	0.84	2/992 (0.2%)
16	AP	0.47	1/717 (0.1%)	0.97	2/965 (0.2%)
16	CP	0.46	1/717 (0.1%)	0.97	2/965 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AQ	0.43	1/837 (0.1%)	0.94	2/1119 (0.2%)
17	CQ	0.42	1/837 (0.1%)	0.94	0/1119
18	AR	0.35	0/579	0.97	5/768 (0.7%)
18	CR	0.38	0/579	0.96	2/768 (0.3%)
19	AS	0.45	1/643 (0.2%)	0.92	3/867 (0.3%)
19	CS	0.46	1/643 (0.2%)	0.93	3/867 (0.3%)
20	AT	0.36	0/765	0.91	2/1007 (0.2%)
20	CT	0.35	0/765	0.92	2/1007 (0.2%)
21	AU	0.54	1/213 (0.5%)	0.86	1/279 (0.4%)
21	CU	0.55	1/213 (0.5%)	0.88	1/279 (0.4%)
22	AV	0.43	0/1809	0.73	1/2819 (0.0%)
22	AW	0.47	0/1809	0.70	3/2819 (0.1%)
22	CV	0.45	0/1809	0.75	1/2819 (0.0%)
22	CW	0.42	0/1809	0.67	4/2819 (0.1%)
23	AX	0.47	0/185	0.79	0/286
23	CX	0.50	0/185	0.79	0/286
24	AY	0.42	0/2847	1.11	32/3846 (0.8%)
24	CY	0.45	0/2847	1.18	40/3846 (1.0%)
25	B0	0.50	0/615	1.02	1/819 (0.1%)
25	D0	0.55	0/615	1.04	1/819 (0.1%)
26	B1	0.58	1/739 (0.1%)	1.10	4/983 (0.4%)
26	D1	0.62	1/739 (0.1%)	1.13	5/983 (0.5%)
27	B2	0.49	0/600	1.04	3/793 (0.4%)
27	D2	0.57	0/600	1.07	4/793 (0.5%)
28	B3	0.60	1/473 (0.2%)	1.18	6/636 (0.9%)
28	D3	0.58	1/473 (0.2%)	1.16	5/636 (0.8%)
29	B4	0.51	1/229 (0.4%)	0.82	0/311
29	D4	0.53	1/229 (0.4%)	0.84	0/311
30	B5	0.56	0/473	1.25	4/639 (0.6%)
30	D5	0.57	0/473	1.28	6/639 (0.9%)
31	B6	0.74	1/388 (0.3%)	1.38	5/520 (1.0%)
31	D6	0.81	1/388 (0.3%)	1.42	9/520 (1.7%)
32	B7	0.61	1/427 (0.2%)	1.14	3/563 (0.5%)
32	D7	0.62	1/427 (0.2%)	1.16	4/563 (0.7%)
33	B8	0.80	1/516 (0.2%)	1.26	5/681 (0.7%)
33	D8	0.82	1/516 (0.2%)	1.26	6/681 (0.9%)
34	B9	0.50	0/302	1.22	2/397 (0.5%)
34	D9	0.51	0/302	1.26	2/397 (0.5%)
35	BA	0.45	0/69614	0.71	72/108679 (0.1%)
35	DA	0.46	0/69614	0.71	76/108679 (0.1%)
36	BB	0.45	1/2853 (0.0%)	0.78	5/4451 (0.1%)
36	DB	0.46	1/2853 (0.0%)	0.77	5/4451 (0.1%)
37	BC	0.53	1/1145 (0.1%)	1.02	11/1556 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
37	DC	0.53	1/1145 (0.1%)	1.03	12/1556 (0.8%)
38	BD	0.64	1/2155 (0.0%)	0.98	5/2907 (0.2%)
38	DD	0.67	1/2155 (0.0%)	0.98	5/2907 (0.2%)
39	BE	0.55	1/1597 (0.1%)	1.19	22/2155 (1.0%)
39	DE	0.55	1/1597 (0.1%)	1.19	22/2155 (1.0%)
40	BF	0.61	1/1659 (0.1%)	1.24	17/2246 (0.8%)
40	DF	0.62	1/1659 (0.1%)	1.25	17/2246 (0.8%)
41	BG	0.43	0/1499	1.08	12/2016 (0.6%)
41	DG	0.50	0/1499	1.16	18/2016 (0.9%)
42	BH	0.47	1/1246 (0.1%)	1.09	10/1684 (0.6%)
42	DH	0.48	1/1246 (0.1%)	1.09	11/1684 (0.7%)
43	BI	0.43	1/1147 (0.1%)	0.98	4/1553 (0.3%)
45	BK	0.42	1/1057 (0.1%)	0.99	6/1432 (0.4%)
45	DK	0.41	1/1057 (0.1%)	0.99	6/1432 (0.4%)
46	BN	0.50	1/1132 (0.1%)	1.12	9/1527 (0.6%)
46	DN	0.53	1/1132 (0.1%)	1.12	15/1527 (1.0%)
47	BO	0.52	0/943	1.10	8/1269 (0.6%)
47	DO	0.50	0/943	1.09	10/1269 (0.8%)
48	BP	0.58	0/1131	1.09	9/1504 (0.6%)
48	DP	0.63	0/1131	1.11	8/1504 (0.5%)
49	BQ	0.55	0/1143	1.07	6/1527 (0.4%)
49	DQ	0.55	0/1143	1.08	7/1527 (0.5%)
50	BR	0.45	0/974	1.01	6/1302 (0.5%)
50	DR	0.48	0/974	1.03	6/1302 (0.5%)
51	BS	0.55	1/779 (0.1%)	1.25	8/1038 (0.8%)
51	DS	0.69	1/779 (0.1%)	1.28	7/1038 (0.7%)
52	BT	0.50	1/1156 (0.1%)	1.21	16/1544 (1.0%)
52	DT	0.51	1/1156 (0.1%)	1.22	18/1544 (1.2%)
53	BU	0.58	0/975	1.27	13/1297 (1.0%)
53	DU	0.58	0/975	1.29	14/1297 (1.1%)
54	BV	0.50	0/790	0.96	1/1057 (0.1%)
54	DV	0.56	0/790	0.99	1/1057 (0.1%)
55	BW	0.50	0/907	0.98	3/1216 (0.2%)
55	DW	0.53	0/907	1.01	2/1216 (0.2%)
56	BX	0.52	1/740 (0.1%)	1.06	4/995 (0.4%)
56	DX	0.53	1/740 (0.1%)	1.08	5/995 (0.5%)
57	BY	0.63	1/789 (0.1%)	1.18	10/1053 (0.9%)
57	DY	0.63	1/789 (0.1%)	1.18	10/1053 (0.9%)
58	BZ	0.51	1/1436 (0.1%)	1.19	16/1951 (0.8%)
58	DZ	0.51	0/1436	1.15	16/1951 (0.8%)
59	DI	0.49	1/1148 (0.1%)	1.15	13/1554 (0.8%)
All	All	0.46	59/327803 (0.0%)	0.81	959/489223 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	9
1	CA	0	10
22	AW	3	0
22	CV	0	2
22	CW	3	0
23	AX	0	1
30	B5	0	1
30	D5	0	2
35	BA	2	40
35	DA	3	46
All	All	11	111

All (59) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	DB	86	G	P-OP2	-6.53	1.35	1.49
36	BB	86	G	P-OP1	-6.14	1.36	1.49
29	D4	65	CYS	C-N	-6.03	1.25	1.33
29	B4	65	CYS	C-N	-5.90	1.25	1.33
13	AM	121	LYS	C-N	-5.89	1.25	1.33
33	B8	64	TYR	C-N	-5.84	1.25	1.33
45	BK	140	GLY	C-N	-5.82	1.25	1.33
52	BT	137	LYS	C-N	-5.79	1.25	1.33
21	CU	25	LYS	C-N	-5.78	1.25	1.33
2	AB	240	GLN	C-N	-5.78	1.25	1.33
13	CM	121	LYS	C-N	-5.77	1.25	1.33
42	BH	170	ARG	C-N	-5.77	1.25	1.33
3	AC	207	VAL	C-N	-5.74	1.25	1.33
40	BF	207	GLY	C-N	-5.74	1.25	1.33
12	AL	129	ALA	C-N	-5.74	1.25	1.33
32	B7	48	LYS	C-N	-5.73	1.25	1.33
46	DN	138	LEU	C-N	-5.73	1.25	1.33
52	DT	137	LYS	C-N	-5.72	1.25	1.33
40	DF	207	GLY	C-N	-5.71	1.25	1.33
37	DC	223	ARG	C-N	-5.71	1.25	1.33
42	DH	170	ARG	C-N	-5.71	1.25	1.33
56	DX	94	GLY	C-N	-5.71	1.25	1.33
17	AQ	100	LYS	C-N	-5.70	1.25	1.33
16	AP	83	GLU	C-N	-5.67	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	CP	83	GLU	C-N	-5.66	1.25	1.33
3	CC	207	VAL	C-N	-5.64	1.25	1.33
51	BS	108	GLY	C-N	-5.64	1.25	1.33
21	AU	25	LYS	C-N	-5.63	1.25	1.33
2	CB	240	GLN	C-N	-5.63	1.25	1.33
12	CL	129	ALA	C-N	-5.62	1.25	1.33
43	BI	145	VAL	C-N	-5.61	1.25	1.33
45	DK	140	GLY	C-N	-5.61	1.25	1.33
59	DI	145	VAL	C-N	-5.60	1.25	1.33
5	AE	154	GLY	C-N	-5.59	1.25	1.33
39	DE	204	ALA	C-N	-5.59	1.25	1.33
37	BC	223	ARG	C-N	-5.58	1.25	1.33
17	CQ	100	LYS	C-N	-5.58	1.25	1.33
56	BX	94	GLY	C-N	-5.58	1.25	1.33
10	CJ	100	THR	C-N	-5.58	1.25	1.33
32	D7	48	LYS	C-N	-5.58	1.25	1.33
46	BN	138	LEU	C-N	-5.57	1.25	1.33
57	BY	101	LYS	C-N	-5.57	1.25	1.33
5	CE	154	GLY	C-N	-5.56	1.25	1.33
39	BE	204	ALA	C-N	-5.55	1.25	1.33
10	AJ	100	THR	C-N	-5.52	1.25	1.33
19	AS	81	ARG	C-N	-5.50	1.25	1.33
38	BD	272	ALA	C-N	-5.50	1.25	1.33
28	D3	59	VAL	C-N	-5.47	1.25	1.33
33	D8	64	TYR	C-N	-5.46	1.25	1.33
38	DD	272	ALA	C-N	-5.45	1.25	1.33
19	CS	81	ARG	C-N	-5.44	1.25	1.33
26	B1	95	LEU	C-N	-5.43	1.25	1.33
28	B3	59	VAL	C-N	-5.33	1.25	1.33
57	DY	101	LYS	C-N	-5.29	1.25	1.33
26	D1	95	LEU	C-N	-5.27	1.25	1.33
31	B6	52	VAL	C-N	-5.27	1.25	1.33
51	DS	108	GLY	C-N	-5.27	1.25	1.33
58	BZ	178	GLU	C-N	-5.15	1.26	1.33
31	D6	52	VAL	C-N	-5.00	1.26	1.33

All (959) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BB	85	G	OP1-P-O3'	-17.56	55.33	108.00
51	DS	16	ASN	N-CA-C	-16.48	91.42	111.69
53	BU	97	ASP	N-CA-C	-16.27	93.37	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
51	BS	16	ASN	N-CA-C	-16.17	91.80	111.69
53	DU	97	ASP	N-CA-C	-16.07	93.61	113.38
35	BA	1992	G	C2'-C3'-O3'	15.73	133.09	109.50
35	DA	1992	G	C2'-C3'-O3'	14.96	131.94	109.50
36	DB	85	G	OP2-P-O3'	-14.90	63.30	108.00
35	BA	1784	A	C2'-C3'-O3'	14.14	130.71	109.50
35	DA	1799	G	C2'-C3'-O3'	14.14	130.71	109.50
35	DA	1784	A	C2'-C3'-O3'	13.79	130.18	109.50
35	BA	1799	G	C2'-C3'-O3'	13.24	129.37	109.50
34	D9	12	ASP	N-CA-C	-12.89	96.20	114.12
34	B9	12	ASP	N-CA-C	-12.68	96.49	114.12
58	BZ	175	VAL	CA-C-N	12.19	128.56	119.66
58	BZ	175	VAL	C-N-CA	12.19	128.56	119.66
35	DA	1819	A	C2'-C3'-O3'	12.00	127.50	109.50
35	BA	1819	A	C2'-C3'-O3'	11.96	127.44	109.50
41	BG	54	GLU	N-CA-C	-11.61	99.10	113.38
35	DA	1653	G	C2'-C3'-O3'	11.32	126.48	109.50
35	BA	1653	G	C2'-C3'-O3'	11.31	126.47	109.50
39	DE	65	GLY	N-CA-C	-11.03	102.53	114.67
35	DA	603	A	C2'-C3'-O3'	10.85	125.78	109.50
12	AL	26	ALA	N-CA-C	-10.71	100.16	113.02
12	CL	26	ALA	N-CA-C	-10.60	100.30	113.02
2	AB	118	LEU	N-CA-C	-10.50	99.87	112.89
39	BE	65	GLY	N-CA-C	-10.48	103.15	114.67
46	BN	46	VAL	N-CA-C	10.47	120.82	111.81
2	CB	118	LEU	N-CA-C	-10.36	100.04	112.89
46	DN	25	ARG	N-CA-C	-10.24	100.78	113.38
35	BA	603	A	C2'-C3'-O3'	10.14	124.72	109.50
46	BN	25	ARG	N-CA-C	-9.97	101.11	113.38
46	DN	46	VAL	N-CA-C	9.95	121.12	111.67
53	DU	34	LYS	N-CA-C	-9.93	100.46	111.28
48	DP	64	LYS	N-CA-C	-9.89	100.76	113.12
22	CV	1	G	O5'-C5'-C4'	9.80	126.21	111.50
1	AA	1067	A	C2'-C3'-O3'	9.68	124.02	109.50
40	DF	6	VAL	N-CA-C	9.63	122.02	107.77
24	CY	34	GLU	N-CA-C	-9.62	102.77	112.97
52	BT	108	ARG	N-CA-C	-9.52	100.43	112.90
48	BP	64	LYS	N-CA-C	-9.45	101.31	113.12
1	CA	1067	A	C2'-C3'-O3'	9.43	123.64	109.50
1	AA	1504	G	C2'-C3'-O3'	9.42	123.63	109.50
59	DI	74	ASN	N-CA-C	-9.38	98.83	110.65
53	BU	34	LYS	N-CA-C	-9.28	101.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	DT	108	ARG	N-CA-C	-9.26	100.77	112.90
1	CA	1504	G	C2'-C3'-O3'	9.26	123.39	109.50
4	CD	12	CYS	N-CA-C	-9.23	101.10	111.71
41	DG	54	GLU	N-CA-C	-9.22	102.03	113.28
24	CY	55	LEU	N-CA-C	-9.22	102.16	113.50
35	BA	1819	A	C4'-C3'-O3'	9.20	123.19	109.40
41	DG	51	ARG	N-CA-C	9.15	123.68	109.96
41	BG	97	ASP	N-CA-C	9.13	121.00	111.14
35	DA	1819	A	C4'-C3'-O3'	9.12	123.08	109.40
52	DT	23	ARG	CA-C-N	9.09	131.21	119.84
52	DT	23	ARG	C-N-CA	9.09	131.21	119.84
30	D5	46	CYS	CA-C-N	9.08	131.19	119.84
30	D5	46	CYS	C-N-CA	9.08	131.19	119.84
52	DT	76	PHE	CA-C-N	9.07	128.72	119.56
52	DT	76	PHE	C-N-CA	9.07	128.72	119.56
35	BA	1799	G	C4'-C3'-O3'	9.03	122.94	109.40
35	DA	1784	A	C4'-C3'-O3'	9.00	122.90	109.40
52	BT	23	ARG	CA-C-N	9.00	131.09	119.84
52	BT	23	ARG	C-N-CA	9.00	131.09	119.84
36	BB	85	G	OP2-P-O3'	9.00	134.99	108.00
24	AY	15	GLY	N-CA-C	-8.97	101.40	115.67
40	DF	194	MET	N-CA-C	8.97	123.14	109.23
30	B5	46	CYS	CA-C-N	8.84	130.89	119.84
30	B5	46	CYS	C-N-CA	8.84	130.89	119.84
4	AD	12	CYS	N-CA-C	-8.84	101.55	111.71
12	AL	118	SER	N-CA-C	-8.80	101.68	111.28
40	BF	6	VAL	N-CA-C	8.80	121.28	107.28
35	BA	1784	A	C4'-C3'-O3'	8.80	122.60	109.40
22	AW	47	U	N1-C1'-C2'	8.74	125.12	112.00
12	CL	118	SER	N-CA-C	-8.71	101.78	111.28
58	DZ	176	PRO	N-CA-C	8.70	121.31	110.70
22	AW	17	C	N1-C1'-C2'	8.69	127.04	114.00
39	DE	188	VAL	CA-C-N	8.65	130.65	119.84
39	DE	188	VAL	C-N-CA	8.65	130.65	119.84
11	AK	40	ILE	N-CA-C	-8.63	102.88	110.74
1	CA	1182	G	C2'-C3'-O3'	-8.60	100.81	113.70
1	AA	1182	G	C2'-C3'-O3'	-8.59	100.82	113.70
52	BT	76	PHE	CA-C-N	8.59	128.23	119.56
52	BT	76	PHE	C-N-CA	8.59	128.23	119.56
50	DR	8	ARG	N-CA-C	8.55	129.01	110.80
35	BA	1786	A	N9-C1'-C2'	8.53	126.80	114.00
35	DA	1786	A	N9-C1'-C2'	8.51	126.77	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BA	945	A	C2'-C3'-O3'	8.50	122.25	109.50
1	CA	687	A	C2'-C3'-O3'	8.47	122.21	109.50
50	BR	8	ARG	N-CA-C	8.43	128.76	110.80
36	DB	85	G	OP1-P-O3'	8.38	133.15	108.00
1	AA	687	A	C2'-C3'-O3'	8.30	121.95	109.50
5	CE	113	ALA	N-CA-C	-8.28	102.21	111.82
24	CY	236	GLY	CA-C-N	8.27	128.20	119.85
24	CY	236	GLY	C-N-CA	8.27	128.20	119.85
1	CA	1201	A	C2'-C3'-O3'	8.24	121.86	109.50
46	DN	41	ASP	N-CA-C	-8.22	103.76	113.21
45	DK	53	VAL	N-CA-C	8.22	115.68	107.55
22	CW	70	G	C2'-C3'-O3'	8.21	126.01	113.70
35	DA	1799	G	C4'-C3'-O3'	8.20	121.71	109.40
39	BE	188	VAL	CA-C-N	8.20	130.09	119.84
39	BE	188	VAL	C-N-CA	8.20	130.09	119.84
45	BK	53	VAL	N-CA-C	8.18	115.65	107.55
56	DX	23	GLU	N-CA-C	-8.17	98.74	110.59
5	AE	113	ALA	N-CA-C	-8.15	102.36	111.82
24	CY	61	THR	N-CA-C	-8.15	103.32	113.18
1	CA	1065	U	C2'-C3'-O3'	8.14	121.71	109.50
16	AP	5	ARG	N-CA-C	8.08	118.90	108.24
9	CI	35	GLU	N-CA-C	-8.07	105.41	114.62
40	BF	194	MET	N-CA-C	8.01	121.57	108.99
9	AI	35	GLU	N-CA-C	-7.99	105.51	114.62
30	D5	41	PRO	N-CA-C	-7.99	100.96	110.70
24	AY	57	ARG	N-CA-C	-7.98	102.64	112.38
42	DH	80	SER	N-CA-C	-7.98	103.45	113.02
1	AA	1201	A	C2'-C3'-O3'	7.96	121.44	109.50
58	BZ	35	ARG	N-CA-C	7.92	122.47	109.24
35	DA	945	A	C2'-C3'-O3'	7.91	121.37	109.50
41	DG	44	GLY	N-CA-C	-7.91	104.41	114.37
42	DH	17	VAL	N-CA-C	7.91	114.67	106.21
4	AD	93	PHE	N-CA-C	-7.90	102.36	110.97
24	AY	55	LEU	N-CA-C	-7.89	103.64	113.18
35	DA	370	G	C2'-C3'-O3'	7.87	121.30	109.50
1	AA	1065	U	C2'-C3'-O3'	7.86	121.28	109.50
41	DG	180	PHE	N-CA-C	7.85	121.20	108.41
42	BH	80	SER	N-CA-C	-7.84	103.61	113.02
24	AY	272	LYS	N-CA-C	-7.82	102.70	111.14
56	BX	23	GLU	N-CA-C	-7.81	99.26	110.59
39	DE	58	ARG	N-CA-C	-7.79	102.63	114.16
4	CD	93	PHE	N-CA-C	-7.79	102.48	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AY	105	THR	N-CA-C	-7.79	104.27	114.31
48	BP	54	GLY	N-CA-C	-7.77	105.27	113.58
1	CA	533	A	C2'-C3'-O3'	7.76	121.14	109.50
13	CM	92	HIS	N-CA-C	-7.76	103.94	113.41
1	AA	533	A	C2'-C3'-O3'	7.73	121.09	109.50
1	AA	748	C	C2'-C3'-O3'	7.73	121.10	109.50
22	CW	47	U	N1-C1'-C2'	7.73	123.60	112.00
48	DP	54	GLY	N-CA-C	-7.73	105.31	113.58
39	DE	168	MET	N-CA-C	7.73	121.90	110.46
9	AI	118	LYS	N-CA-C	7.71	119.69	110.44
1	CA	748	C	C2'-C3'-O3'	7.69	121.03	109.50
36	BB	85	G	C2'-C3'-O3'	7.69	125.23	113.70
9	AI	99	LEU	N-CA-C	-7.68	104.81	114.56
39	BE	58	ARG	N-CA-C	-7.67	102.80	114.16
59	DI	73	GLU	N-CA-C	-7.66	103.04	113.30
39	BE	168	MET	N-CA-C	7.65	121.79	110.46
13	AM	92	HIS	N-CA-C	-7.65	104.08	113.41
35	BA	2439	A	C2'-C3'-O3'	7.65	120.97	109.50
1	AA	115	G	C2'-C3'-O3'	7.64	120.97	109.50
27	D2	66	GLU	N-CA-C	-7.63	103.82	113.43
30	B5	41	PRO	N-CA-C	-7.61	101.42	110.70
1	AA	60	A	C2'-C3'-O3'	7.57	120.86	109.50
42	BH	17	VAL	N-CA-C	7.56	114.30	106.21
1	CA	115	G	C2'-C3'-O3'	7.55	120.82	109.50
53	DU	8	VAL	N-CA-C	7.54	117.62	110.30
53	DU	70	ARG	N-CA-C	-7.54	103.54	112.89
45	DK	34	ILE	N-CA-C	-7.54	102.82	113.07
46	BN	41	ASP	N-CA-C	-7.54	104.54	113.21
37	DC	133	PRO	N-CA-CB	7.52	111.14	103.25
1	CA	60	A	C2'-C3'-O3'	7.49	120.73	109.50
22	CW	17	C	N1-C1'-C2'	7.49	125.24	114.00
35	BA	271(Y)	U	C4'-C3'-O3'	-7.48	101.78	113.00
9	CI	99	LEU	N-CA-C	-7.48	105.06	114.56
24	AY	159	GLY	CA-C-N	7.47	129.18	119.84
24	AY	159	GLY	C-N-CA	7.47	129.18	119.84
16	CP	77	ALA	N-CA-C	-7.45	101.20	113.50
33	D8	38	GLY	N-CA-C	-7.44	103.87	112.50
37	BC	201	PRO	N-CA-CB	7.43	110.25	103.34
2	CB	152	PHE	N-CA-C	-7.42	104.08	113.43
22	AW	70	G	C2'-C3'-O3'	7.42	124.83	113.70
35	DA	271(Y)	U	C4'-C3'-O3'	-7.41	101.88	113.00
47	BO	94	ARG	N-CA-C	-7.41	104.24	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	BK	34	ILE	N-CA-C	-7.41	103.00	113.07
45	DK	127	ILE	N-CA-C	-7.41	105.77	111.62
35	BA	370	G	C2'-C3'-O3'	7.40	120.59	109.50
2	AB	152	PHE	N-CA-C	-7.40	104.11	113.43
40	BF	163	VAL	N-CA-C	-7.38	103.09	110.62
31	B6	24	GLU	N-CA-C	7.37	118.24	108.07
37	DC	201	PRO	N-CA-CB	7.36	110.18	103.34
12	CL	119	LYS	N-CA-C	-7.35	98.63	110.32
31	D6	24	GLU	N-CA-C	7.35	118.22	108.07
40	BF	83	PHE	N-CA-C	7.35	123.30	112.94
57	BY	65	ALA	CA-C-N	7.34	129.01	119.84
57	BY	65	ALA	C-N-CA	7.34	129.01	119.84
1	AA	992	U	C2'-C3'-O3'	7.33	120.50	109.50
9	CI	118	LYS	N-CA-C	7.29	119.19	110.44
35	DA	2439	A	C2'-C3'-O3'	7.29	120.44	109.50
24	CY	59	VAL	N-CA-C	-7.26	105.75	112.43
40	DF	91	GLY	CA-C-N	7.24	127.24	119.78
40	DF	91	GLY	C-N-CA	7.24	127.24	119.78
33	D8	17	THR	N-CA-C	7.23	119.31	110.41
33	B8	17	THR	N-CA-C	7.23	119.30	110.41
35	DA	221	A	C2'-C3'-O3'	7.23	120.34	109.50
12	AL	127	GLU	N-CA-C	-7.22	104.56	113.15
50	DR	57	ARG	N-CA-C	-7.22	101.53	110.41
35	BA	2225	A	C2'-C3'-O3'	7.21	120.31	109.50
35	BA	752	A	C2'-C3'-O3'	7.20	120.30	109.50
39	DE	200	GLU	N-CA-C	-7.20	101.02	110.53
51	DS	73	LEU	N-CA-C	-7.20	103.36	111.14
51	BS	73	LEU	N-CA-C	-7.20	103.36	111.14
11	CK	40	ILE	N-CA-C	-7.18	103.85	110.82
53	BU	70	ARG	N-CA-C	-7.17	103.99	112.89
12	AL	119	LYS	N-CA-C	-7.17	98.92	110.32
37	BC	133	PRO	N-CA-CB	7.15	110.76	103.25
24	AY	286	LEU	N-CA-C	-7.15	104.56	113.28
1	CA	992	U	C2'-C3'-O3'	7.11	120.17	109.50
31	B6	48	VAL	N-CA-C	7.11	117.66	111.90
40	DF	83	PHE	N-CA-C	7.10	122.95	112.94
16	AP	77	ALA	N-CA-C	-7.10	101.97	113.19
12	CL	127	GLU	N-CA-C	-7.09	104.72	113.15
24	CY	57	ARG	N-CA-C	-7.08	104.64	113.20
20	CT	86	ARG	N-CA-C	-7.07	104.81	113.50
57	DY	65	ALA	CA-C-N	7.06	128.66	119.84
57	DY	65	ALA	C-N-CA	7.06	128.66	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	CP	5	ARG	N-CA-C	7.04	117.54	108.24
24	CY	127	THR	N-CA-C	7.04	118.61	111.07
53	BU	8	VAL	N-CA-C	7.04	117.13	110.30
53	BU	98	LEU	N-CA-C	-7.03	103.61	111.28
24	CY	56	ARG	N-CA-C	-7.03	103.37	112.23
40	DF	68	LYS	N-CA-C	7.03	119.07	108.46
37	BC	220	PRO	N-CA-CB	7.02	110.62	103.25
46	BN	51	PHE	N-CA-C	-7.02	100.10	110.48
47	DO	94	ARG	N-CA-C	-7.01	104.72	113.28
24	CY	286	LEU	N-CA-C	-7.01	104.72	113.20
24	AY	67	SER	N-CA-C	-7.00	104.82	113.15
37	BC	181	PRO	N-CA-CB	7.00	109.87	103.08
42	BH	157	TYR	N-CA-C	-6.99	95.92	110.80
28	B3	1	MET	CA-C-N	-6.98	112.29	119.83
28	B3	1	MET	C-N-CA	-6.98	112.29	119.83
33	B8	49	VAL	N-CA-C	-6.98	98.09	109.12
35	BA	221	A	C2'-C3'-O3'	6.97	119.96	109.50
32	D7	6	GLN	CA-C-N	6.97	127.39	119.93
32	D7	6	GLN	C-N-CA	6.97	127.39	119.93
59	DI	59	ALA	N-CA-C	-6.97	105.71	114.56
33	B8	38	GLY	N-CA-C	-6.97	104.37	112.73
45	BK	127	ILE	N-CA-C	-6.97	106.12	111.62
53	BU	27	LEU	N-CA-C	-6.96	104.91	113.19
40	BF	29	ASN	CA-C-N	6.96	128.54	119.84
40	BF	29	ASN	C-N-CA	6.96	128.54	119.84
35	DA	654(J)	A	C2'-C3'-O3'	6.95	119.92	109.50
39	DE	125	GLY	CA-C-N	6.95	128.53	119.84
39	DE	125	GLY	C-N-CA	6.95	128.53	119.84
51	DS	106	ARG	N-CA-C	-6.95	104.77	113.18
1	AA	328	C	C2'-C3'-O3'	6.95	119.92	109.50
35	DA	2225	A	C2'-C3'-O3'	6.94	119.91	109.50
58	DZ	148	ASP	N-CA-C	6.94	120.34	110.14
33	D8	49	VAL	N-CA-C	-6.92	98.18	109.12
47	BO	9	GLU	N-CA-C	-6.92	100.04	110.28
37	DC	220	PRO	N-CA-CB	6.90	110.50	103.25
1	CA	388	G	C4'-C3'-O3'	-6.90	102.65	113.00
53	BU	50	ARG	N-CA-C	-6.90	103.37	111.03
40	BF	68	LYS	N-CA-C	6.88	118.85	108.46
42	DH	157	TYR	N-CA-C	-6.88	96.14	110.80
57	DY	7	VAL	N-CA-C	6.87	123.62	109.34
41	DG	3	LEU	N-CA-C	-6.87	104.05	113.18
40	BF	58	ALA	N-CA-C	6.86	120.21	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	CH	125	ARG	N-CA-C	-6.85	103.81	111.28
1	CA	508	C	C2'-C3'-O3'	6.85	119.77	109.50
35	BA	1427	A	C2'-C3'-O3'	6.84	119.77	109.50
39	BE	200	GLU	N-CA-C	-6.84	101.49	110.53
24	CY	44	ALA	N-CA-C	-6.84	105.71	112.97
51	BS	106	ARG	N-CA-C	-6.84	104.90	113.18
35	BA	1022	G	C2'-C3'-O3'	6.84	119.76	109.50
48	DP	16	ARG	N-CA-C	-6.84	104.94	113.55
1	CA	560	U	C2'-C3'-O3'	6.83	119.75	109.50
52	DT	14	TYR	N-CA-C	-6.83	104.93	112.72
1	AA	1224	G	C2'-C3'-O3'	6.83	119.74	109.50
27	D2	67	LYS	N-CA-C	-6.82	103.78	111.07
46	DN	51	PHE	N-CA-C	-6.81	100.40	110.48
35	DA	752	A	C2'-C3'-O3'	6.81	119.72	109.50
1	AA	560	U	C2'-C3'-O3'	6.81	119.71	109.50
34	D9	4	ARG	N-CA-C	6.81	116.85	107.73
24	CY	50	GLN	N-CA-C	-6.80	104.97	113.20
1	AA	388	G	C4'-C3'-O3'	-6.80	102.80	113.00
53	DU	98	LEU	N-CA-C	-6.80	103.87	111.28
41	DG	118	ARG	N-CA-C	-6.79	106.88	114.62
41	DG	59	GLU	N-CA-C	-6.78	103.58	110.97
51	DS	98	VAL	N-CA-C	6.77	120.48	109.78
1	CA	1200	C	C4'-C3'-O3'	-6.77	102.85	113.00
1	AA	508	C	C2'-C3'-O3'	6.75	119.62	109.50
22	AV	1	G	O5'-C5'-C4'	6.74	121.62	111.50
35	DA	856	C	C2'-C3'-O3'	6.74	123.81	113.70
37	DC	181	PRO	N-CA-CB	6.72	109.60	103.08
7	CG	69	VAL	N-CA-C	-6.72	107.33	113.71
1	AA	1200	C	C4'-C3'-O3'	-6.72	102.92	113.00
9	CI	17	VAL	N-CA-C	6.71	117.53	107.80
37	DC	140	PRO	N-CA-CB	6.70	110.29	103.25
1	CA	328	C	C2'-C3'-O3'	6.69	119.54	109.50
2	CB	23	ARG	N-CA-C	-6.69	102.46	113.50
20	AT	86	ARG	N-CA-C	-6.69	104.94	113.23
41	BG	31	VAL	CA-C-N	6.68	126.92	119.90
41	BG	31	VAL	C-N-CA	6.68	126.92	119.90
57	BY	7	VAL	N-CA-C	6.68	123.25	109.34
39	BE	125	GLY	CA-C-N	6.68	128.45	120.23
39	BE	125	GLY	C-N-CA	6.68	128.45	120.23
35	DA	1126	A	C2'-C3'-O3'	6.68	119.52	109.50
58	BZ	176	PRO	N-CA-C	6.68	116.88	110.47
53	DU	50	ARG	N-CA-C	-6.66	103.64	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	DG	83	ARG	N-CA-C	6.65	116.77	108.19
48	BP	53	GLY	N-CA-C	-6.65	97.42	113.18
6	CF	67	MET	N-CA-C	6.64	113.98	108.07
1	AA	428	G	C2'-C3'-O3'	6.64	119.45	109.50
53	DU	27	LEU	N-CA-C	-6.63	105.30	113.19
2	AB	23	ARG	N-CA-C	-6.63	102.56	113.50
13	CM	79	LYS	N-CA-C	-6.62	103.98	111.14
50	BR	57	ARG	N-CA-C	-6.62	102.26	110.41
9	AI	17	VAL	N-CA-C	6.62	117.40	107.80
39	BE	70	ALA	N-CA-C	-6.62	104.14	111.36
35	BA	1126	A	C2'-C3'-O3'	6.62	119.43	109.50
24	CY	197	ALA	N-CA-C	6.62	118.15	111.07
52	BT	14	TYR	N-CA-C	-6.61	105.18	112.72
1	CA	1224	G	C2'-C3'-O3'	6.61	119.42	109.50
40	BF	91	GLY	CA-C-N	6.61	126.59	119.78
40	BF	91	GLY	C-N-CA	6.61	126.59	119.78
58	BZ	176	PRO	CA-C-N	6.61	128.10	119.84
58	BZ	176	PRO	C-N-CA	6.61	128.10	119.84
14	CN	9	LYS	N-CA-C	-6.61	105.19	113.18
52	BT	89	VAL	N-CA-C	6.60	117.77	107.28
14	AN	9	LYS	N-CA-C	-6.60	105.23	113.28
47	BO	51	ALA	N-CA-C	-6.60	104.17	111.82
52	DT	89	VAL	N-CA-C	6.60	117.77	107.28
48	BP	16	ARG	N-CA-C	-6.59	105.24	113.55
48	DP	53	GLY	N-CA-C	-6.59	97.55	113.18
35	BA	2285	C	C5'-C4'-C3'	-6.59	106.11	116.00
53	BU	10	ARG	N-CA-C	6.58	119.01	111.11
51	BS	98	VAL	N-CA-C	6.58	120.17	109.78
35	DA	1022	G	C2'-C3'-O3'	6.57	119.35	109.50
47	DO	66	LYS	N-CA-C	-6.57	105.30	113.38
38	DD	46	GLN	N-CA-C	-6.56	96.82	110.80
37	DC	174	PRO	N-CA-CB	6.56	110.14	103.25
35	DA	1558	A	C2'-C3'-O3'	6.55	119.33	109.50
53	DU	10	ARG	N-CA-C	6.54	118.96	111.11
24	CY	60	ASP	N-CA-C	-6.54	105.31	113.55
37	DC	182	PRO	N-CA-CB	6.53	110.11	103.25
27	B2	16	LEU	N-CA-C	6.53	120.90	112.41
37	BC	182	PRO	N-CA-CB	6.53	110.11	103.25
37	BC	25	ALA	N-CA-C	-6.53	103.92	112.41
43	BI	48	GLU	N-CA-C	-6.51	105.19	113.01
24	CY	58	THR	N-CA-C	-6.51	105.49	113.50
34	B9	4	ARG	N-CA-C	6.50	117.05	107.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	D3	1	MET	CA-C-N	-6.50	112.81	119.83
28	D3	1	MET	C-N-CA	-6.50	112.81	119.83
40	DF	163	VAL	N-CA-C	-6.50	102.97	111.09
24	AY	297	ALA	N-CA-C	-6.50	105.42	113.15
35	DA	2285	C	C5'-C4'-C3'	-6.49	106.27	116.00
40	DF	29	ASN	CA-C-N	6.49	127.95	119.84
40	DF	29	ASN	C-N-CA	6.49	127.95	119.84
30	B5	9	LYS	N-CA-C	6.49	119.17	108.99
6	AF	67	MET	N-CA-C	6.49	113.84	108.07
43	BI	44	LEU	N-CA-C	-6.48	105.19	113.23
35	DA	1912	A	C2'-C3'-O3'	6.48	123.42	113.70
37	BC	140	PRO	N-CA-CB	6.48	110.05	103.25
59	DI	60	GLU	N-CA-C	-6.47	104.43	112.90
42	BH	133	VAL	N-CA-C	6.47	117.16	108.11
37	DC	25	ALA	N-CA-C	-6.46	104.00	112.41
1	CA	1504	G	C4'-C3'-O3'	6.46	119.08	109.40
39	DE	70	ALA	N-CA-C	-6.46	104.32	111.36
35	BA	2282	G	C2'-C3'-O3'	6.45	119.18	109.50
38	BD	46	GLN	N-CA-C	-6.45	97.05	110.80
35	DA	1427	A	C2'-C3'-O3'	6.45	119.18	109.50
53	BU	96	ALA	N-CA-C	-6.45	102.53	111.81
40	DF	58	ALA	N-CA-C	6.44	119.63	110.68
24	CY	257	GLY	N-CA-C	-6.43	106.26	115.64
37	BC	174	PRO	N-CA-CB	6.42	110.00	103.25
58	BZ	124	ILE	N-CA-C	6.42	117.60	108.42
8	AH	125	ARG	N-CA-C	-6.42	104.21	111.07
13	AM	79	LYS	N-CA-C	-6.42	104.21	111.14
35	BA	955	C	C5'-C4'-C3'	-6.41	106.39	116.00
35	DA	2278	A	C5'-C4'-C3'	6.41	125.61	116.00
35	DA	2286	A	N9-C1'-C2'	6.41	123.61	114.00
47	DO	47	ILE	CA-C-N	6.40	127.84	119.84
47	DO	47	ILE	C-N-CA	6.40	127.84	119.84
47	DO	51	ALA	N-CA-C	-6.39	104.40	111.82
47	BO	47	ILE	CA-C-N	6.39	127.82	119.84
47	BO	47	ILE	C-N-CA	6.39	127.82	119.84
35	BA	2278	A	C5'-C4'-C3'	6.38	125.57	116.00
35	DA	955	C	C5'-C4'-C3'	-6.37	106.44	116.00
24	CY	73	LEU	N-CA-C	-6.36	105.50	113.20
35	BA	654(J)	A	C2'-C3'-O3'	6.35	119.02	109.50
42	BH	65	HIS	N-CA-C	-6.34	100.66	110.10
35	DA	474	G	C2'-C3'-O3'	6.34	119.00	109.50
52	DT	29	ARG	N-CA-C	6.34	124.30	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AR	53	ARG	N-CA-C	-6.33	105.52	113.18
46	BN	109	LYS	N-CA-C	6.33	120.20	112.23
58	DZ	175	VAL	CA-C-N	6.33	126.89	120.38
58	DZ	175	VAL	C-N-CA	6.33	126.89	120.38
52	BT	57	PHE	N-CA-C	-6.32	100.06	109.86
59	DI	5	LEU	N-CA-C	6.32	118.48	110.33
58	DZ	79	ARG	N-CA-C	-6.31	100.94	110.28
35	DA	1495	A	N9-C1'-C2'	6.31	121.46	112.00
52	DT	57	PHE	N-CA-C	-6.30	100.09	109.86
31	D6	26	ASN	N-CA-C	-6.29	100.67	110.42
24	AY	243	ASN	N-CA-C	6.29	118.21	111.36
51	BS	19	LYS	N-CA-C	-6.29	104.88	113.30
32	D7	15	THR	N-CA-C	6.28	119.06	111.40
1	CA	428	G	C2'-C3'-O3'	6.27	118.91	109.50
27	B2	56	GLN	N-CA-C	-6.26	104.37	111.07
47	BO	66	LYS	N-CA-C	-6.26	105.67	113.38
30	D5	9	LYS	N-CA-C	6.25	118.81	108.99
51	DS	19	LYS	N-CA-C	-6.25	104.92	113.30
35	DA	193	U	C5'-C4'-C3'	-6.25	106.63	116.00
40	DF	80	ALA	CA-C-N	6.24	125.94	119.82
40	DF	80	ALA	C-N-CA	6.24	125.94	119.82
40	BF	71	GLY	N-CA-C	-6.24	106.81	114.92
3	CC	19	GLU	N-CA-C	-6.24	105.94	112.93
35	DA	2282	G	C2'-C3'-O3'	6.24	118.86	109.50
24	AY	104	GLN	N-CA-C	-6.24	104.98	112.59
32	B7	6	GLN	CA-C-N	6.24	126.60	119.93
32	B7	6	GLN	C-N-CA	6.24	126.60	119.93
31	D6	48	VAL	N-CA-C	6.24	116.92	111.56
58	BZ	67	LEU	N-CA-C	6.23	117.92	110.07
24	CY	283	LEU	N-CA-C	-6.23	104.03	111.69
19	AS	21	GLU	N-CA-C	-6.23	104.03	111.69
35	BA	784	A	N9-C1'-C2'	6.22	121.33	112.00
24	CY	25	ARG	N-CA-C	-6.22	104.61	111.82
35	DA	784	A	N9-C1'-C2'	6.21	121.31	112.00
40	BF	80	ALA	CA-C-N	6.21	125.91	119.82
40	BF	80	ALA	C-N-CA	6.21	125.91	119.82
53	DU	96	ALA	N-CA-C	-6.21	102.87	111.81
31	B6	42	TRP	N-CA-C	-6.21	103.86	112.30
35	BA	856	C	C2'-C3'-O3'	6.21	123.01	113.70
50	DR	101	ALA	N-CA-C	-6.21	100.80	110.42
52	BT	124	ASP	N-CA-C	-6.20	104.44	112.68
43	BI	57	ARG	N-CA-C	-6.20	105.74	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BE	137	HIS	CA-C-N	6.19	126.09	119.28
39	BE	137	HIS	C-N-CA	6.19	126.09	119.28
35	DA	826	U	C5'-C4'-C3'	-6.19	106.71	116.00
33	B8	54	GLU	N-CA-C	-6.19	104.29	112.34
24	CY	345	ILE	N-CA-C	-6.19	104.48	110.42
40	DF	190	GLU	N-CA-C	6.18	120.08	112.54
7	CG	82	GLY	N-CA-C	-6.18	107.37	115.47
8	CH	56	LYS	CA-C-N	6.17	127.55	119.84
8	CH	56	LYS	C-N-CA	6.17	127.55	119.84
35	BA	1495	A	N9-C1'-C2'	6.17	121.25	112.00
42	DH	65	HIS	N-CA-C	-6.17	100.91	110.10
24	CY	89	PRO	N-CA-C	-6.17	105.94	114.27
40	BF	154	VAL	N-CA-C	6.14	116.97	108.12
3	AC	19	GLU	N-CA-C	-6.14	106.06	112.93
52	DT	124	ASP	N-CA-C	-6.13	104.52	112.68
35	BA	1558	A	C2'-C3'-O3'	6.13	118.70	109.50
58	DZ	98	MET	N-CA-C	6.13	117.20	108.74
2	AB	112	VAL	N-CA-C	-6.12	104.38	110.62
7	AG	82	GLY	N-CA-C	-6.12	107.46	115.47
49	DQ	140	ALA	N-CA-C	6.12	116.31	108.24
39	DE	137	HIS	CA-C-N	6.11	126.00	119.28
39	DE	137	HIS	C-N-CA	6.11	126.00	119.28
24	CY	268	GLN	N-CA-C	-6.11	104.53	112.23
46	DN	109	LYS	N-CA-C	6.11	120.46	112.89
19	CS	21	GLU	N-CA-C	-6.11	104.18	111.69
58	DZ	67	LEU	CA-C-N	6.11	127.47	119.84
58	DZ	67	LEU	C-N-CA	6.11	127.47	119.84
48	DP	52	GLU	N-CA-C	6.10	123.80	110.80
48	BP	52	GLU	N-CA-C	6.10	123.80	110.80
32	B7	15	THR	N-CA-C	6.10	118.84	111.40
35	BA	826	U	C5'-C4'-C3'	-6.10	106.85	116.00
52	BT	29	ARG	N-CA-C	6.08	123.76	110.80
59	DI	67	ARG	N-CA-C	-6.07	104.58	112.23
47	DO	9	GLU	N-CA-C	-6.07	100.61	110.20
35	BA	2286	A	N9-C1'-C2'	6.07	123.10	114.00
2	CB	112	VAL	N-CA-C	-6.07	104.43	110.62
56	DX	28	PHE	N-CA-C	6.05	118.27	109.07
26	B1	75	GLU	N-CA-C	-6.05	104.60	111.07
42	DH	133	VAL	N-CA-C	6.05	116.58	108.11
3	AC	134	ILE	N-CA-C	-6.04	105.93	111.67
24	CY	75	LEU	N-CA-C	-6.04	105.96	113.15
35	BA	1159	U	C5'-C4'-C3'	-6.04	106.94	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	AH	56	LYS	CA-C-N	6.03	127.38	119.84
8	AH	56	LYS	C-N-CA	6.03	127.38	119.84
1	CA	913	A	C2'-C3'-O3'	6.03	118.54	109.50
24	AY	76	MET	N-CA-C	-6.03	105.58	113.17
52	BT	54	ARG	N-CA-C	6.02	119.19	110.28
43	BI	94	ALA	N-CA-C	-6.02	104.72	111.28
56	BX	22	ALA	N-CA-C	-6.01	98.00	110.80
59	DI	133	HIS	CA-C-N	6.01	127.35	119.84
59	DI	133	HIS	C-N-CA	6.01	127.35	119.84
48	BP	59	LEU	N-CA-C	-6.00	105.88	112.72
41	DG	45	GLU	N-CA-C	-6.00	105.67	112.87
10	CJ	26	ALA	N-CA-C	-6.00	105.61	113.17
41	DG	77	ILE	N-CA-C	6.00	117.16	109.30
58	DZ	107	THR	CA-C-N	6.00	127.34	119.84
58	DZ	107	THR	C-N-CA	6.00	127.34	119.84
50	BR	56	LYS	N-CA-C	-5.99	104.66	111.07
24	CY	71	GLY	N-CA-C	-5.99	108.08	114.67
8	CH	40	ALA	N-CA-C	-5.99	105.64	113.12
39	DE	150	VAL	N-CA-C	5.99	116.50	108.11
24	AY	92	GLU	N-CA-C	-5.99	104.67	111.14
35	DA	507	A	N9-C1'-C2'	-5.98	103.03	112.00
47	DO	40	VAL	N-CA-C	-5.98	103.53	110.05
58	BZ	107	THR	CA-C-N	5.98	127.31	119.84
58	BZ	107	THR	C-N-CA	5.98	127.31	119.84
24	AY	269	ILE	N-CA-C	5.97	116.09	110.30
10	AJ	79	ARG	N-CA-C	-5.97	105.96	113.72
10	CJ	79	ARG	N-CA-C	-5.97	105.96	113.72
33	D8	54	GLU	N-CA-C	-5.96	104.59	112.34
48	DP	59	LEU	N-CA-C	-5.96	105.93	112.72
35	DA	481	G	C4'-C3'-O3'	-5.95	104.07	113.00
52	DT	100	TYR	N-CA-C	-5.94	105.52	112.89
3	CC	134	ILE	N-CA-C	-5.94	106.03	111.67
49	BQ	140	ALA	N-CA-C	5.94	116.08	108.24
24	CY	303	GLU	N-CA-C	5.94	122.94	109.81
1	AA	243	A	C2'-C3'-O3'	5.94	118.41	109.50
24	CY	105	THR	N-CA-C	-5.93	105.81	113.16
35	DA	784	A	C4'-C3'-O3'	-5.93	104.11	113.00
35	DA	2780	G	C4'-C3'-O3'	-5.93	100.51	109.40
8	AH	40	ALA	N-CA-C	-5.92	105.72	113.12
19	AS	22	LEU	N-CA-C	-5.92	105.32	112.54
40	DF	71	GLY	N-CA-C	-5.92	107.52	115.21
1	AA	913	A	C2'-C3'-O3'	5.92	118.37	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AJ	26	ALA	N-CA-C	-5.91	105.72	113.17
24	CY	62	PHE	N-CA-C	-5.91	104.42	111.69
41	BG	181	ARG	N-CA-C	-5.91	105.17	112.38
3	CC	88	ARG	N-CA-C	-5.91	104.19	111.75
41	BG	88	ILE	N-CA-C	5.90	118.37	108.81
18	CR	53	ARG	N-CA-C	-5.90	105.93	113.01
57	DY	8	LYS	N-CA-C	5.90	119.08	110.17
52	DT	93	ARG	N-CA-C	-5.89	104.12	111.90
56	DX	22	ALA	N-CA-C	-5.89	98.25	110.80
12	AL	81	SER	N-CA-C	5.89	121.03	111.37
52	DT	6	LEU	N-CA-C	-5.89	104.20	111.33
46	BN	43	THR	CA-C-N	5.89	125.59	119.82
46	BN	43	THR	C-N-CA	5.89	125.59	119.82
58	BZ	112	ARG	N-CA-C	-5.88	104.87	111.28
24	CY	67	SER	N-CA-C	-5.88	106.11	113.28
3	AC	204	LEU	N-CA-C	5.87	117.46	108.30
35	BA	193	U	C5'-C4'-C3'	-5.87	107.20	116.00
41	DG	31	VAL	CA-C-N	5.87	127.18	119.84
41	DG	31	VAL	C-N-CA	5.87	127.18	119.84
12	AL	61	THR	N-CA-C	-5.86	105.39	112.54
24	CY	76	MET	N-CA-C	-5.86	106.17	113.38
59	DI	62	LYS	N-CA-C	-5.86	104.85	112.23
26	B1	57	GLU	N-CA-C	-5.85	100.17	109.59
52	DT	130	ALA	N-CA-C	-5.84	106.78	112.97
42	BH	113	VAL	N-CA-C	5.83	116.26	108.27
1	CA	484	G	C2'-C3'-O3'	5.83	118.25	109.50
35	BA	2689	U	C2'-C3'-O3'	5.83	118.24	109.50
26	D1	31	GLY	N-CA-C	5.83	118.33	111.63
52	BT	130	ALA	N-CA-C	-5.82	106.80	112.97
12	CL	81	SER	N-CA-C	5.82	120.92	111.37
35	DA	2092	U	C2'-C3'-O3'	5.82	118.23	109.50
50	DR	55	ALA	N-CA-C	-5.82	106.14	113.18
3	CC	204	LEU	N-CA-C	5.81	117.37	108.30
1	CA	1300	G	C2'-C3'-O3'	5.81	118.21	109.50
1	CA	250	A	C2'-C3'-O3'	5.80	118.21	109.50
26	B1	25	LYS	N-CA-C	-5.80	104.39	112.45
35	DA	512	G	C4'-C3'-O3'	-5.79	104.31	113.00
35	BA	474	G	C2'-C3'-O3'	5.79	118.19	109.50
51	BS	17	ARG	N-CA-C	-5.79	98.47	110.80
45	BK	43	ALA	N-CA-C	-5.78	106.39	113.50
3	AC	88	ARG	N-CA-C	-5.77	104.36	111.75
1	AA	1300	G	C2'-C3'-O3'	5.77	118.16	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	BT	50	ILE	CB-CA-C	-5.77	104.67	111.94
35	DA	1497	U	N1-C1'-C2'	5.77	120.66	112.00
35	BA	1126	A	N9-C1'-C2'	5.77	122.65	114.00
47	BO	40	VAL	N-CA-C	-5.77	103.76	110.05
56	BX	28	PHE	N-CA-C	5.76	117.82	109.07
51	DS	17	ARG	N-CA-C	-5.76	98.53	110.80
35	BA	481	G	C4'-C3'-O3'	-5.76	104.36	113.00
37	DC	83	ILE	N-CA-C	-5.76	107.15	113.43
1	AA	484	G	C2'-C3'-O3'	5.75	118.13	109.50
35	DA	2689	U	C2'-C3'-O3'	5.75	118.12	109.50
40	DF	154	VAL	N-CA-C	5.75	116.40	108.12
35	BA	2481	G	C2'-C3'-O3'	5.75	118.12	109.50
52	DT	50	ILE	CB-CA-C	-5.75	104.70	111.94
19	CS	22	LEU	N-CA-C	-5.74	105.54	112.54
41	DG	20	ILE	N-CA-C	-5.73	103.26	111.17
57	BY	8	LYS	N-CA-C	5.73	118.82	110.17
27	D2	14	ARG	N-CA-C	-5.73	106.27	113.20
24	AY	73	LEU	N-CA-C	-5.72	105.56	112.54
52	BT	93	ARG	N-CA-C	-5.72	104.34	111.90
58	BZ	24	LEU	CA-C-N	5.72	125.70	120.21
58	BZ	24	LEU	C-N-CA	5.72	125.70	120.21
1	AA	119	A	C2'-C3'-O3'	5.72	118.08	109.50
1	CA	243	A	C2'-C3'-O3'	5.72	118.07	109.50
35	BA	1912	A	C2'-C3'-O3'	5.71	122.27	113.70
47	BO	117	LEU	N-CA-C	5.71	118.28	111.71
24	AY	25	ARG	N-CA-C	-5.71	105.81	112.89
46	DN	78	TYR	N-CA-C	5.71	119.12	109.87
1	CA	1502	A	N9-C1'-C2'	5.71	122.56	114.00
1	CA	1049	U	C2'-C3'-O3'	5.71	118.06	109.50
1	AA	250	A	C2'-C3'-O3'	5.70	118.06	109.50
37	BC	83	ILE	N-CA-C	-5.70	107.22	113.43
59	DI	85	GLU	N-CA-C	-5.70	106.45	113.41
41	DG	55	LYS	N-CA-C	-5.70	104.45	111.40
49	DQ	138	ASP	N-CA-C	-5.69	100.64	109.24
52	BT	6	LEU	N-CA-C	-5.69	104.44	111.33
24	CY	297	ALA	N-CA-C	-5.69	106.47	113.41
53	DU	56	ASP	N-CA-C	-5.68	105.84	112.89
42	BH	74	ASN	N-CA-C	-5.68	105.07	112.23
33	D8	36	LYS	N-CA-C	-5.68	99.75	109.24
39	DE	186	GLY	N-CA-C	5.68	126.64	113.18
24	AY	19	ILE	CB-CA-C	-5.67	108.31	113.70
1	AA	1049	U	C2'-C3'-O3'	5.67	118.01	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BD	83	GLU	N-CA-C	5.67	118.12	109.95
12	CL	61	THR	N-CA-C	-5.67	105.63	112.54
33	B8	36	LYS	N-CA-C	-5.66	99.78	109.24
4	CD	39	PRO	CA-C-N	5.66	126.92	119.84
4	CD	39	PRO	C-N-CA	5.66	126.92	119.84
24	CY	274	LEU	N-CA-C	-5.66	104.48	111.33
40	DF	183	VAL	N-CA-C	5.66	116.43	110.72
40	BF	33	LEU	N-CA-C	-5.65	105.02	111.07
35	DA	1159	U	C5'-C4'-C3'	-5.65	107.52	116.00
58	DZ	169	GLU	N-CA-C	-5.65	101.68	110.10
52	DT	30	VAL	N-CA-C	5.65	121.09	109.34
7	AG	69	VAL	N-CA-C	-5.65	108.35	113.71
46	DN	94	HIS	CA-C-N	5.64	126.02	119.47
46	DN	94	HIS	C-N-CA	5.64	126.02	119.47
36	DB	86	G	O5'-P-OP2	5.64	124.92	108.00
49	BQ	125	LEU	CA-C-N	5.64	126.38	120.12
49	BQ	125	LEU	C-N-CA	5.64	126.38	120.12
46	DN	43	THR	CA-C-N	5.64	125.34	119.82
46	DN	43	THR	C-N-CA	5.64	125.34	119.82
39	BE	186	GLY	N-CA-C	5.63	126.53	113.18
26	D1	62	VAL	N-CA-C	5.63	117.93	108.81
7	AG	147	ALA	N-CA-C	-5.63	105.91	112.89
24	CY	229	ILE	N-CA-C	5.63	115.70	107.37
2	CB	200	ILE	N-CA-C	5.63	117.42	108.87
45	DK	43	ALA	N-CA-C	-5.62	106.58	113.50
35	DA	964	C	C5'-C4'-C3'	-5.62	107.58	116.00
36	BB	44	G	N9-C1'-C2'	5.61	120.42	112.00
21	CU	8	THR	N-CA-C	5.61	116.80	108.60
15	AO	61	GLY	N-CA-C	-5.60	106.00	112.50
42	DH	74	ASN	N-CA-C	-5.60	105.18	112.23
55	BW	103	ILE	N-CA-C	5.59	115.71	107.15
39	DE	119	ARG	N-CA-C	-5.59	106.45	113.72
1	AA	1502	A	N9-C1'-C2'	5.58	122.38	114.00
1	CA	966	G	N9-C1'-C2'	-5.58	105.63	114.00
42	DH	141	VAL	N-CA-C	-5.58	106.26	111.45
41	BG	67	LYS	CA-C-N	5.58	125.34	119.76
41	BG	67	LYS	C-N-CA	5.58	125.34	119.76
1	CA	119	A	C2'-C3'-O3'	5.58	117.87	109.50
15	AO	78	TYR	N-CA-C	-5.58	104.84	111.03
14	CN	38	GLY	N-CA-C	-5.58	105.68	114.10
24	CY	294	GLU	N-CA-C	-5.58	104.65	112.12
58	DZ	145	GLU	N-CA-C	-5.58	101.45	110.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	B3	11	SER	CA-C-N	5.57	126.63	120.45
28	B3	11	SER	C-N-CA	5.57	126.63	120.45
24	AY	66	GLU	N-CA-C	-5.57	106.16	113.12
48	BP	30	THR	N-CA-C	5.57	118.49	109.86
35	DA	1126	A	N9-C1'-C2'	5.57	122.35	114.00
50	DR	56	LYS	N-CA-C	-5.57	105.11	111.07
35	BA	659	C	C5'-C4'-C3'	-5.56	107.65	116.00
40	BF	190	GLU	N-CA-C	5.56	119.32	112.54
52	BT	30	VAL	N-CA-C	5.55	120.89	109.34
35	BA	1497	U	N1-C1'-C2'	5.55	120.33	112.00
35	BA	1913	A	N9-C1'-C2'	5.55	120.33	112.00
35	DA	27	G	N9-C1'-C2'	5.55	120.33	112.00
59	DI	128	LEU	N-CA-C	5.55	118.45	109.79
35	DA	1913	A	N9-C1'-C2'	5.55	120.32	112.00
24	CY	70	GLN	N-CA-C	-5.54	106.72	112.93
35	BA	507	A	N9-C1'-C2'	-5.54	103.69	112.00
53	BU	56	ASP	N-CA-C	-5.54	106.02	112.89
26	D1	4	VAL	N-CA-C	5.54	116.71	108.46
35	DA	1781	C	N1-C1'-C2'	5.54	122.31	114.00
38	DD	209	ALA	N-CA-C	-5.53	105.33	111.36
1	CA	1145	C	C2'-C3'-O3'	-5.53	105.41	113.70
48	DP	30	THR	N-CA-C	5.53	118.42	109.86
13	CM	84	ILE	N-CA-C	-5.51	105.57	113.07
1	AA	1145	C	C2'-C3'-O3'	-5.51	105.43	113.70
50	BR	101	ALA	N-CA-C	-5.51	101.88	110.42
35	BA	2780	G	C4'-C3'-O3'	-5.51	101.14	109.40
15	CO	78	TYR	N-CA-C	-5.51	104.92	111.03
24	CY	291	ARG	N-CA-C	-5.50	106.15	112.92
9	CI	96	LEU	N-CA-C	-5.50	106.41	114.39
1	AA	966	G	N9-C1'-C2'	-5.50	105.75	114.00
31	B6	50	ARG	CB-CA-C	-5.50	108.51	116.54
4	CD	38	TYR	N-CA-C	5.50	114.46	108.14
26	D1	18	ILE	N-CA-C	5.50	115.46	106.72
31	D6	42	TRP	N-CA-C	-5.50	104.83	112.30
50	BR	55	ALA	N-CA-C	-5.49	106.53	113.18
25	D0	36	ILE	N-CA-C	-5.49	101.74	109.21
21	AU	8	THR	N-CA-C	5.49	116.61	108.60
58	DZ	52	SER	CB-CA-C	-5.49	110.27	116.63
15	CO	61	GLY	N-CA-C	-5.48	106.14	112.50
24	AY	128	GLU	N-CA-C	-5.48	104.99	110.97
22	CW	76	A	C4'-C3'-O3'	5.48	121.22	113.00
49	BQ	138	ASP	N-CA-C	-5.48	100.96	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BA	512	G	C4'-C3'-O3'	-5.47	104.79	113.00
31	D6	50	ARG	CB-CA-C	-5.47	108.55	116.54
53	BU	82	GLY	N-CA-C	-5.47	106.16	112.50
31	D6	46	HIS	N-CA-C	5.47	122.45	110.80
35	DA	142	A	N9-C1'-C2'	5.46	120.19	112.00
4	AD	38	TYR	N-CA-C	5.46	114.42	108.14
59	DI	46	ALA	N-CA-C	-5.45	105.76	112.90
7	CG	147	ALA	N-CA-C	-5.45	106.13	112.89
24	CY	66	GLU	N-CA-C	-5.45	104.99	111.69
38	DD	83	GLU	N-CA-C	5.44	117.79	109.95
35	BA	1109	C	N1-C1'-C2'	5.44	120.16	112.00
24	CY	95	ALA	N-CA-C	-5.44	106.49	113.23
35	DA	2481	G	C2'-C3'-O3'	5.43	117.65	109.50
36	DB	56	G	C2'-C3'-O3'	5.43	117.65	109.50
42	DH	113	VAL	N-CA-C	5.43	115.71	108.27
24	AY	304	PRO	N-CA-C	-5.43	107.57	114.35
42	DH	67	LEU	N-CA-C	-5.43	105.47	111.71
35	BA	2267	A	N9-C1'-C2'	5.42	120.14	112.00
28	D3	11	SER	CA-C-N	5.42	126.47	120.45
28	D3	11	SER	C-N-CA	5.42	126.47	120.45
39	BE	119	ARG	N-CA-C	-5.42	106.67	113.72
56	DX	35	THR	N-CA-C	-5.42	102.02	110.42
9	AI	96	LEU	N-CA-C	-5.42	106.53	114.39
58	DZ	166	SER	CA-C-N	5.42	140.01	127.00
58	DZ	166	SER	C-N-CA	5.42	140.01	127.00
39	BE	31	CYS	CA-C-N	5.42	126.61	119.84
39	BE	31	CYS	C-N-CA	5.42	126.61	119.84
49	BQ	117	ALA	N-CA-C	-5.41	106.51	113.01
31	D6	12	GLU	N-CA-C	-5.41	99.11	108.69
35	BA	2502	G	C4'-C3'-O3'	-5.41	104.89	113.00
35	DA	1109	C	N1-C1'-C2'	5.41	120.11	112.00
4	CD	9	CYS	N-CA-C	-5.40	105.92	113.37
46	BN	78	TYR	N-CA-C	5.40	118.62	109.87
35	BA	1223	G	C5'-C4'-C3'	-5.39	107.91	116.00
41	DG	129	GLY	N-CA-C	-5.39	100.40	113.18
39	DE	60	ASN	CB-CA-C	-5.39	109.38	115.79
24	CY	289	LYS	N-CA-C	-5.38	104.29	111.24
58	DZ	5	LEU	N-CA-C	5.38	117.44	108.99
57	DY	63	LYS	N-CA-C	5.38	122.26	110.80
46	BN	56	ASN	N-CA-C	-5.37	104.30	111.02
12	CL	9	GLN	N-CA-C	-5.37	104.84	111.40
51	DS	56	LEU	N-CA-C	-5.37	104.34	112.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	DA	1992	G	C4'-C3'-C2'	5.37	107.97	102.60
36	BB	56	G	C2'-C3'-O3'	5.37	117.55	109.50
47	DO	117	LEU	N-CA-C	5.37	117.88	111.71
1	AA	372	C	C4'-C3'-O3'	5.36	117.44	109.40
35	DA	1365	A	C5'-C4'-C3'	5.36	124.04	116.00
52	DT	54	ARG	N-CA-C	5.36	118.66	110.20
24	AY	293	GLU	N-CA-C	-5.35	106.70	113.18
31	D6	23	THR	N-CA-C	5.35	122.19	110.80
24	AY	62	PHE	N-CA-C	-5.35	104.34	112.04
12	CL	58	VAL	N-CA-C	5.35	115.82	108.12
48	DP	20	GLY	N-CA-C	-5.35	104.24	112.85
13	AM	84	ILE	N-CA-C	-5.34	105.80	113.07
45	BK	121	GLU	N-CA-C	-5.34	105.02	112.45
1	CA	1285	A	C2'-C3'-O3'	5.34	117.51	109.50
57	DY	81	LYS	CA-C-N	5.34	126.51	119.84
57	DY	81	LYS	C-N-CA	5.34	126.51	119.84
17	AQ	62	SER	N-CA-C	5.33	116.38	108.86
35	DA	2126	A	C2'-C3'-O3'	5.33	117.50	109.50
49	DQ	125	LEU	CA-C-N	5.33	126.03	120.12
49	DQ	125	LEU	C-N-CA	5.33	126.03	120.12
24	AY	263	GLN	N-CA-C	-5.33	105.06	112.30
24	AY	61	THR	N-CA-C	-5.33	106.74	113.18
41	DG	88	ILE	N-CA-C	5.32	120.41	109.34
33	D8	45	GLY	N-CA-C	-5.32	102.32	111.57
38	BD	7	LYS	N-CA-C	-5.31	103.34	109.93
3	AC	111	LEU	N-CA-C	-5.31	104.44	112.99
18	AR	48	GLY	N-CA-C	-5.31	107.89	115.64
39	BE	150	VAL	N-CA-C	5.31	115.54	108.11
28	D3	47	VAL	N-CA-C	-5.31	105.21	110.62
37	DC	102	LYS	N-CA-C	-5.31	106.39	112.92
41	DG	121	ASN	CA-C-N	5.30	125.02	119.82
41	DG	121	ASN	C-N-CA	5.30	125.02	119.82
46	DN	110	GLY	CA-C-N	5.30	125.11	119.28
46	DN	110	GLY	C-N-CA	5.30	125.11	119.28
57	DY	94	LYS	N-CA-C	5.30	117.37	107.99
2	CB	121	LEU	N-CA-C	-5.30	106.66	113.23
30	D5	52	TYR	N-CA-C	-5.30	100.61	109.24
35	BA	142	A	N9-C1'-C2'	5.29	119.94	112.00
39	BE	60	ASN	CB-CA-C	-5.29	109.50	115.79
35	DA	587	C	O4'-C1'-C2'	5.28	111.08	105.80
57	BY	6	HIS	N-CA-C	5.28	117.10	109.07
24	CY	68	ASP	N-CA-C	-5.28	106.81	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	DA	1490	A	C2'-C3'-O3'	-5.28	105.78	113.70
1	AA	84	U	N1-C1'-C2'	5.28	119.92	112.00
59	DI	49	ALA	N-CA-C	-5.28	104.90	112.13
41	BG	55	LYS	N-CA-C	-5.28	105.17	111.03
35	DA	1947	C	C5'-C4'-C3'	-5.28	108.08	116.00
37	BC	54	SER	N-CA-C	5.28	115.32	107.88
49	DQ	117	ALA	N-CA-C	-5.28	106.68	113.01
2	AB	200	ILE	N-CA-C	5.27	117.45	109.12
51	BS	56	LEU	N-CA-C	-5.27	104.51	112.99
30	D5	59	GLU	N-CA-C	5.27	122.02	110.80
35	DA	781	A	C4'-C3'-O3'	-5.27	105.10	113.00
48	BP	20	GLY	N-CA-C	-5.26	104.37	112.85
46	DN	56	ASN	N-CA-C	-5.26	104.44	111.02
35	BA	1490	A	C2'-C3'-O3'	-5.26	105.81	113.70
37	BC	102	LYS	N-CA-C	-5.26	106.45	112.92
39	BE	142	GLY	N-CA-C	5.26	120.17	111.59
57	BY	81	LYS	CA-C-N	5.26	126.42	119.84
57	BY	81	LYS	C-N-CA	5.26	126.42	119.84
19	CS	65	ASN	N-CA-C	-5.26	107.03	113.50
24	CY	254	LEU	N-CA-C	5.26	121.44	109.81
24	AY	299	ARG	N-CA-C	-5.25	107.00	113.41
51	BS	55	ALA	N-CA-C	-5.25	107.17	113.21
31	D6	32	ASN	N-CA-C	5.25	117.06	108.55
24	AY	303	GLU	N-CA-C	5.25	121.40	109.81
46	DN	23	LEU	CA-C-N	-5.24	117.20	123.44
46	DN	23	LEU	C-N-CA	-5.24	117.20	123.44
1	AA	1504	G	C4'-C3'-O3'	5.24	117.26	109.40
4	AD	39	PRO	CA-C-N	5.24	126.39	119.84
4	AD	39	PRO	C-N-CA	5.24	126.39	119.84
1	CA	84	U	N1-C1'-C2'	5.24	119.86	112.00
12	CL	79	GLU	N-CA-C	5.24	117.07	111.36
35	BA	2481	G	N9-C1'-C2'	5.24	121.86	114.00
58	BZ	9	TYR	N-CA-C	5.24	118.02	109.59
41	BG	25	TYR	N-CA-C	5.23	117.44	110.53
18	AR	70	ILE	N-CA-C	-5.23	105.29	110.62
2	AB	58	ILE	N-CA-C	-5.23	104.52	111.05
4	CD	204	ILE	N-CA-C	-5.23	106.71	111.67
3	CC	173	VAL	CA-C-N	5.22	126.37	119.84
3	CC	173	VAL	C-N-CA	5.22	126.37	119.84
13	CM	11	ARG	N-CA-C	5.22	116.92	109.14
4	AD	9	CYS	N-CA-C	-5.22	106.16	113.37
9	AI	43	ALA	N-CA-C	5.22	117.38	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	D1	17	SER	N-CA-C	-5.22	100.58	108.67
35	BA	27	G	N9-C1'-C2'	5.22	119.82	112.00
35	BA	2126	A	C2'-C3'-O3'	5.22	117.33	109.50
35	BA	74	A	C2'-C3'-O3'	5.21	117.32	109.50
24	AY	21	GLN	N-CA-C	-5.21	107.58	114.04
57	BY	63	LYS	N-CA-C	5.21	121.90	110.80
38	BD	167	GLY	N-CA-C	5.21	117.34	112.08
56	DX	5	TYR	N-CA-C	-5.21	106.77	113.02
1	CA	328	C	N1-C1'-C2'	5.21	121.81	114.00
35	DA	614(A)	U	C2'-C3'-O3'	-5.21	105.89	113.70
35	BA	1781	C	N1-C1'-C2'	5.20	121.80	114.00
35	DA	1223	G	C5'-C4'-C3'	-5.20	108.20	116.00
39	BE	44	TYR	N-CA-C	5.20	121.86	114.16
35	BA	781	A	C4'-C3'-O3'	-5.20	105.20	113.00
2	CB	125	PRO	N-CA-C	-5.20	109.27	114.68
35	DA	74	A	C2'-C3'-O3'	5.20	117.29	109.50
54	DV	25	LEU	N-CA-C	-5.20	101.23	109.59
10	AJ	27	ALA	N-CA-C	-5.19	108.70	114.62
35	BA	1899	G	C4'-C3'-O3'	-5.19	105.22	113.00
2	CB	166	ASP	CA-C-N	5.19	126.32	119.84
2	CB	166	ASP	C-N-CA	5.19	126.32	119.84
27	D2	57	ILE	CB-CA-C	-5.19	105.06	111.70
35	DA	2481	G	N9-C1'-C2'	5.18	121.77	114.00
49	DQ	50	ALA	N-CA-C	-5.18	107.62	114.04
35	BA	1947	C	C5'-C4'-C3'	-5.18	108.23	116.00
35	BA	2521	C	C5'-C4'-C3'	-5.18	108.23	116.00
39	DE	38	THR	CA-C-N	5.18	125.48	119.47
39	DE	38	THR	C-N-CA	5.18	125.48	119.47
5	AE	86	ALA	N-CA-C	-5.18	106.65	113.17
13	AM	11	ARG	N-CA-C	5.18	116.85	109.14
37	DC	54	SER	N-CA-C	5.18	115.18	107.88
39	DE	44	TYR	N-CA-C	5.18	121.82	114.16
9	CI	43	ALA	N-CA-C	5.17	117.32	111.11
35	BA	1992	G	C4'-C3'-C2'	5.17	107.77	102.60
57	DY	13	VAL	N-CA-C	5.17	116.35	108.80
10	AJ	80	LYS	N-CA-C	-5.17	106.82	113.02
10	CJ	27	ALA	N-CA-C	-5.17	108.73	114.62
35	DA	2724	C	C5'-C4'-C3'	5.17	123.75	116.00
24	AY	268	GLN	N-CA-C	-5.17	105.08	111.33
35	BA	629	G	C5'-C4'-C3'	-5.17	108.25	116.00
2	AB	166	ASP	CA-C-N	5.16	126.29	119.84
2	AB	166	ASP	C-N-CA	5.16	126.29	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	AL	79	GLU	N-CA-C	5.16	116.99	111.36
8	AH	47	GLY	N-CA-C	5.16	117.09	110.96
36	DB	44	G	N9-C1'-C2'	5.16	119.73	112.00
42	BH	67	LEU	N-CA-C	-5.15	105.78	111.71
54	BV	25	LEU	N-CA-C	-5.15	101.29	109.59
1	AA	328	C	N1-C1'-C2'	5.15	121.73	114.00
53	DU	74	LEU	N-CA-C	5.15	117.46	110.35
3	CC	111	LEU	N-CA-C	-5.15	104.70	112.99
47	DO	91	LEU	N-CA-C	5.15	118.23	111.28
56	BX	5	TYR	N-CA-C	-5.15	106.84	113.02
55	DW	101	SER	N-CA-C	5.15	117.98	109.85
40	DF	7	TYR	N-CA-C	-5.15	103.69	110.43
53	DU	83	LEU	N-CA-C	-5.15	104.74	111.02
35	BA	827	U	N1-C1'-C2'	5.15	119.72	112.00
24	AY	56	ARG	N-CA-C	-5.14	105.30	112.45
45	DK	121	GLU	N-CA-C	-5.14	105.31	112.45
35	BA	2501	C	N1-C1'-C2'	5.14	119.70	112.00
45	BK	132	ARG	N-CA-C	-5.14	106.71	112.87
35	BA	2447	G	N9-C1'-C2'	5.13	121.70	114.00
2	AB	125	PRO	N-CA-C	-5.13	109.34	114.68
39	BE	137	HIS	N-CA-C	5.13	117.24	110.36
31	B6	23	THR	N-CA-C	5.12	121.72	110.80
35	DA	481	G	N9-C1'-C2'	5.12	119.69	112.00
41	BG	165	THR	CB-CA-C	-5.12	109.00	116.53
32	D7	22	MET	N-CA-C	5.12	117.53	111.33
50	DR	25	ALA	N-CA-C	-5.12	105.34	111.03
26	B1	31	GLY	N-CA-C	5.12	120.39	112.81
57	BY	94	LYS	N-CA-C	5.12	117.05	107.99
5	CE	86	ALA	N-CA-C	-5.12	106.72	113.17
10	CJ	80	LYS	N-CA-C	-5.12	106.88	113.02
35	DA	1598	C	C5'-C4'-C3'	-5.12	108.32	116.00
19	AS	65	ASN	N-CA-C	-5.12	107.21	113.50
35	BA	587	C	C2'-C3'-O3'	5.12	117.17	109.50
45	DK	132	ARG	N-CA-C	-5.11	106.74	112.87
18	AR	81	PHE	N-CA-C	-5.11	106.13	112.93
1	CA	372	C	C4'-C3'-O3'	5.11	117.06	109.40
35	BA	784	A	C4'-C3'-O3'	-5.11	105.34	113.00
39	DE	31	CYS	CA-C-N	5.11	126.22	119.84
39	DE	31	CYS	C-N-CA	5.11	126.22	119.84
9	AI	53	VAL	N-CA-C	-5.11	108.15	113.10
38	BD	209	ALA	N-CA-C	-5.11	105.80	111.36
9	CI	36	TYR	N-CA-C	-5.10	107.18	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	121	LEU	N-CA-C	-5.10	106.90	113.23
38	DD	167	GLY	N-CA-C	5.10	117.23	112.08
35	DA	906	G	C5'-C4'-C3'	-5.10	108.35	116.00
18	AR	32	ARG	N-CA-C	-5.10	105.14	113.19
35	DA	2447	G	N9-C1'-C2'	5.10	121.64	114.00
1	AA	1285	A	C2'-C3'-O3'	5.10	117.14	109.50
18	CR	70	ILE	N-CA-C	-5.10	105.57	110.72
35	DA	629	G	C5'-C4'-C3'	-5.10	108.36	116.00
39	BE	38	THR	CA-C-N	5.09	125.38	119.47
39	BE	38	THR	C-N-CA	5.09	125.38	119.47
41	BG	98	ARG	N-CA-C	-5.09	106.90	113.01
35	DA	645	C	N1-C1'-C2'	5.09	119.64	112.00
35	DA	1899	G	C4'-C3'-O3'	-5.09	105.37	113.00
35	BA	537	C	C5'-C4'-C3'	-5.08	108.37	116.00
12	AL	9	GLN	N-CA-C	-5.08	105.20	111.40
27	B2	5	GLU	N-CA-C	-5.08	105.19	111.33
52	DT	51	ARG	N-CA-C	5.08	117.43	108.75
17	AQ	27	PHE	N-CA-C	5.08	112.70	108.13
35	BA	827	U	C2'-C3'-O3'	-5.08	106.09	113.70
3	AC	173	VAL	CA-C-N	5.07	126.18	119.84
3	AC	173	VAL	C-N-CA	5.07	126.18	119.84
14	CN	45	ARG	N-CA-C	-5.07	105.93	111.82
35	DA	659	C	C5'-C4'-C3'	-5.07	108.39	116.00
38	DD	269	PHE	N-CA-C	-5.07	107.07	114.12
24	AY	83	GLU	N-CA-C	-5.07	107.16	113.19
4	CD	141	ARG	CA-C-N	5.07	126.17	119.84
4	CD	141	ARG	C-N-CA	5.07	126.17	119.84
7	CG	57	GLU	CA-C-N	5.07	126.17	119.84
7	CG	57	GLU	C-N-CA	5.07	126.17	119.84
49	BQ	22	LYS	N-CA-C	-5.07	106.61	112.89
20	AT	9	ASN	N-CA-C	5.06	116.22	108.42
28	B3	43	ILE	N-CA-C	-5.06	105.56	110.42
53	BU	9	VAL	N-CA-C	5.06	119.87	109.34
35	DA	537	C	C5'-C4'-C3'	-5.06	108.41	116.00
35	DA	2521	C	C5'-C4'-C3'	-5.06	108.41	116.00
20	CT	9	ASN	N-CA-C	5.06	116.21	108.42
55	BW	101	SER	N-CA-C	5.06	117.84	109.85
24	AY	82	GLU	N-CA-C	-5.05	108.86	114.62
53	DU	82	GLY	N-CA-C	-5.05	106.64	112.50
42	BH	111	HIS	CA-C-N	5.05	126.16	119.84
42	BH	111	HIS	C-N-CA	5.05	126.16	119.84
58	BZ	171	ILE	N-CA-C	5.05	119.85	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BA	1204	A	N9-C1'-C2'	5.05	121.58	114.00
48	BP	10	PRO	N-CA-C	-5.05	102.06	112.47
35	BA	481	G	N9-C1'-C2'	5.05	119.57	112.00
40	BF	8	GLN	N-CA-C	5.04	118.24	107.70
49	DQ	44	ALA	N-CA-C	-5.04	105.78	111.28
1	CA	1200	C	N1-C1'-C2'	5.04	119.56	112.00
57	DY	6	HIS	N-CA-C	5.04	116.74	109.07
28	B3	47	VAL	N-CA-C	-5.04	104.75	111.05
35	DA	1304	C	C5'-C4'-C3'	-5.04	108.44	116.00
55	DW	103	ILE	N-CA-C	5.04	115.59	107.73
3	CC	72	LYS	CA-C-N	5.03	124.82	119.28
3	CC	72	LYS	C-N-CA	5.03	124.82	119.28
42	DH	111	HIS	CA-C-N	5.03	126.13	119.84
42	DH	111	HIS	C-N-CA	5.03	126.13	119.84
37	DC	187	ASP	N-CA-C	-5.03	106.39	112.88
9	CI	53	VAL	N-CA-C	-5.03	108.22	113.10
35	DA	2267	A	N9-C1'-C2'	5.03	119.54	112.00
57	BY	13	VAL	N-CA-C	5.03	116.14	108.80
58	BZ	126	VAL	N-CA-C	5.02	114.88	107.75
53	DU	108	GLU	N-CA-C	-5.02	104.89	111.02
39	DE	195	LEU	N-CA-C	5.02	117.75	109.76
35	DA	1321	A	C5'-C4'-C3'	-5.02	108.47	116.00
55	BW	69	LEU	N-CA-C	5.02	117.57	110.50
4	CD	171	GLY	CA-C-N	5.02	126.11	119.84
4	CD	171	GLY	C-N-CA	5.02	126.11	119.84
39	DE	137	HIS	N-CA-C	5.01	117.08	110.36
47	DO	88	ASN	N-CA-C	-5.01	103.32	110.59
35	BA	494	G	C5'-C4'-O4'	-5.01	102.28	109.80
50	BR	70	LEU	N-CA-C	-5.01	102.49	109.96
25	B0	36	ILE	N-CA-C	-5.01	102.40	109.21
53	BU	74	LEU	N-CA-C	5.01	117.26	110.35
9	AI	36	TYR	N-CA-C	-5.00	107.31	113.41

All (11) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	AW	17	C	C1'
22	AW	47	U	C1'
22	AW	70	G	C3'
35	BA	1784	A	C3'
35	BA	1799	G	C3'
22	CW	17	C	C1'

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Mol	Chain	Res	Type	Atom
22	CW	47	U	C1'
22	CW	70	G	C3'
35	DA	1784	A	C3'
35	DA	1799	G	C3'
35	DA	1819	A	C3'

All (111) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1077	G	Sidechain
1	AA	110	C	Sidechain
1	AA	1281	U	Sidechain
1	AA	324	G	Sidechain
1	AA	38	G	Sidechain
1	AA	388	G	Sidechain
1	AA	498	U	Sidechain
1	AA	760	G	Sidechain
1	AA	966	G	Sidechain
23	AX	19	U	Sidechain
30	B5	51	TYR	Sidechain
35	BA	102	G	Sidechain
35	BA	1126	A	Sidechain
35	BA	1156	A	Sidechain
35	BA	1215	G	Sidechain
35	BA	1225	G	Sidechain
35	BA	1286	A	Sidechain
35	BA	1379	A	Sidechain
35	BA	1385	G	Sidechain
35	BA	141	A	Sidechain
35	BA	15	G	Sidechain
35	BA	171	G	Sidechain
35	BA	1772	G	Sidechain
35	BA	1779	U	Sidechain
35	BA	1782	C	Sidechain
35	BA	2009	G	Sidechain
35	BA	2020	A	Sidechain
35	BA	2267	A	Sidechain
35	BA	2401	U	Sidechain
35	BA	2437	U	Sidechain
35	BA	2468	G	Sidechain
35	BA	2481	G	Sidechain
35	BA	257	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	2595	G	Sidechain
35	BA	2597	G	Sidechain
35	BA	283	A	Sidechain
35	BA	383	U	Sidechain
35	BA	395	U	Sidechain
35	BA	472	A	Sidechain
35	BA	507	A	Sidechain
35	BA	528	A	Sidechain
35	BA	603	A	Sidechain
35	BA	607	U	Sidechain
35	BA	652	C	Sidechain
35	BA	673	C	Sidechain
35	BA	70	G	Sidechain
35	BA	700	G	Sidechain
35	BA	743	G	Sidechain
35	BA	800	A	Sidechain
35	BA	856	C	Sidechain
35	BA	859	G	Sidechain
1	CA	1077	G	Sidechain
1	CA	1281	U	Sidechain
1	CA	1301	U	Sidechain
1	CA	1409	C	Sidechain
1	CA	1493	A	Sidechain
1	CA	1519	A	Sidechain
1	CA	498	U	Sidechain
1	CA	760	G	Sidechain
1	CA	961	U	Sidechain
1	CA	966	G	Sidechain
22	CV	29	G	Sidechain
22	CV	8	U	Sidechain
30	D5	51	TYR	Sidechain
30	D5	52	TYR	Sidechain
35	DA	102	G	Sidechain
35	DA	1126	A	Sidechain
35	DA	1215	G	Sidechain
35	DA	1225	G	Sidechain
35	DA	1286	A	Sidechain
35	DA	1385	G	Sidechain
35	DA	141	A	Sidechain
35	DA	15	G	Sidechain
35	DA	1613	G	Sidechain
35	DA	171	G	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	1772	G	Sidechain
35	DA	1779	U	Sidechain
35	DA	1782	C	Sidechain
35	DA	1911	U	Sidechain
35	DA	1940	U	Sidechain
35	DA	2009	G	Sidechain
35	DA	2020	A	Sidechain
35	DA	2070	G	Sidechain
35	DA	2267	A	Sidechain
35	DA	2336	A	Sidechain
35	DA	2393	A	Sidechain
35	DA	2401	U	Sidechain
35	DA	2437	U	Sidechain
35	DA	2481	G	Sidechain
35	DA	2508	G	Sidechain
35	DA	257	A	Sidechain
35	DA	2595	G	Sidechain
35	DA	2597	G	Sidechain
35	DA	2603	G	Sidechain
35	DA	2720	U	Sidechain
35	DA	371	A	Sidechain
35	DA	383	U	Sidechain
35	DA	463	G	Sidechain
35	DA	507	A	Sidechain
35	DA	528	A	Sidechain
35	DA	562	U	Sidechain
35	DA	607	U	Sidechain
35	DA	652	C	Sidechain
35	DA	673	C	Sidechain
35	DA	70	G	Sidechain
35	DA	700	G	Sidechain
35	DA	743	G	Sidechain
35	DA	800	A	Sidechain
35	DA	856	C	Sidechain
35	DA	859	G	Sidechain
35	DA	89	G	Sidechain

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	32329	0	16318	1298	0
1	CA	32329	0	16318	1284	0
2	AB	1901	0	1951	263	0
2	CB	1901	0	1951	265	0
3	AC	1613	0	1677	205	0
3	CC	1613	0	1677	203	0
4	AD	1703	0	1763	224	0
4	CD	1703	0	1763	226	0
5	AE	1147	0	1207	148	0
5	CE	1147	0	1207	140	0
6	AF	843	0	857	97	0
6	CF	843	0	857	101	0
7	AG	1257	0	1296	123	0
7	CG	1257	0	1296	120	0
8	AH	1116	0	1177	170	0
8	CH	1116	0	1177	164	0
9	AI	1011	0	1043	167	0
9	CI	1011	0	1043	181	0
10	AJ	795	0	840	175	0
10	CJ	795	0	840	169	0
11	AK	885	0	904	102	0
11	CK	885	0	904	108	0
12	AL	976	0	1062	101	0
12	CL	976	0	1062	98	0
13	AM	956	0	1021	109	0
13	CM	956	0	1021	111	0
14	AN	492	0	529	60	0
14	CN	492	0	529	61	0
15	AO	734	0	771	58	0
15	CO	734	0	771	53	0
16	AP	701	0	720	104	0
16	CP	701	0	720	109	0
17	AQ	824	0	891	74	0
17	CQ	824	0	891	75	0
18	AR	574	0	644	81	0
18	CR	574	0	644	80	0
19	AS	630	0	652	106	0
19	CS	630	0	652	107	0
20	AT	763	0	861	119	0
20	CT	763	0	861	115	0
21	AU	209	0	221	19	0
21	CU	209	0	221	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	AV	1619	0	822	76	0
22	AW	1619	0	822	99	0
22	CV	1619	0	822	83	0
22	CW	1619	0	822	92	0
23	AX	166	0	87	17	0
23	CX	166	0	87	7	0
24	AY	2799	0	2809	377	0
24	CY	2799	0	2809	366	0
25	B0	607	0	628	87	0
25	D0	607	0	628	87	0
26	B1	732	0	808	114	0
26	D1	732	0	808	110	0
27	B2	598	0	653	90	0
27	D2	598	0	653	83	0
28	B3	468	0	523	61	3
28	D3	468	0	523	64	0
29	B4	226	0	229	34	0
29	D4	226	0	229	38	0
30	B5	459	0	480	71	0
30	D5	459	0	480	76	0
31	B6	381	0	391	121	0
31	D6	381	0	391	125	0
32	B7	419	0	467	25	0
32	D7	419	0	467	30	0
33	B8	508	0	576	123	0
33	D8	508	0	576	132	0
34	B9	299	0	324	34	0
34	D9	299	0	324	31	0
35	BA	62154	0	31337	2156	0
35	DA	62154	0	31337	2177	9
36	BB	2551	0	1295	104	6
36	DB	2551	0	1295	103	0
37	BC	1142	0	865	114	0
37	DC	1142	0	865	108	0
38	BD	2105	0	2182	273	0
38	DD	2105	0	2182	265	0
39	BE	1564	0	1629	255	0
39	DE	1564	0	1629	265	0
40	BF	1624	0	1677	237	0
40	DF	1624	0	1677	241	0
41	BG	1474	0	1535	311	0
41	DG	1474	0	1535	268	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	BH	1223	0	1282	222	0
42	DH	1223	0	1282	222	0
43	BI	1132	0	1218	126	0
44	BJ	651	0	146	35	0
44	DJ	651	0	146	36	0
45	BK	1038	0	1089	168	0
45	DK	1038	0	1089	197	0
46	BN	1105	0	1180	138	0
46	DN	1105	0	1180	133	0
47	BO	933	0	996	94	0
47	DO	933	0	996	97	0
48	BP	1114	0	1187	278	0
48	DP	1114	0	1187	275	0
49	BQ	1122	0	1179	132	0
49	DQ	1122	0	1179	128	0
50	BR	960	0	1021	140	0
50	DR	960	0	1020	142	0
51	BS	771	0	832	161	0
51	DS	771	0	832	159	0
52	BT	1142	0	1202	239	0
52	DT	1142	0	1202	240	0
53	BU	958	0	1015	144	0
53	DU	958	0	1015	148	0
54	BV	779	0	852	148	0
54	DV	779	0	852	153	0
55	BW	896	0	953	81	0
55	DW	896	0	953	81	0
56	BX	726	0	778	69	0
56	DX	726	0	778	69	0
57	BY	776	0	870	188	0
57	DY	776	0	870	184	0
58	BZ	1404	0	1432	243	0
58	DZ	1404	0	1432	253	0
59	DI	1133	0	1220	189	0
60	AA	157	0	0	0	0
60	AE	1	0	0	0	0
60	AL	1	0	0	0	0
60	AM	1	0	0	0	0
60	AV	7	0	0	0	0
60	AW	5	0	0	0	0
60	AY	1	0	0	0	0
60	B1	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	B3	1	0	0	0	0
60	B5	2	0	0	0	0
60	B7	2	0	0	0	0
60	BA	354	0	0	0	0
60	BB	4	0	0	0	0
60	BC	1	0	0	0	0
60	BD	2	0	0	0	0
60	BF	1	0	0	0	0
60	BH	1	0	0	0	0
60	BP	1	0	0	0	0
60	BQ	1	0	0	0	0
60	BS	1	0	0	0	0
60	BU	1	0	0	0	0
60	CA	157	0	0	0	0
60	CL	1	0	0	0	0
60	CN	1	0	0	0	0
60	CV	7	0	0	0	0
60	CW	5	0	0	0	0
60	CY	1	0	0	0	0
60	D1	1	0	0	0	0
60	D3	1	0	0	0	0
60	D5	2	0	0	0	0
60	D7	1	0	0	0	0
60	DA	353	0	0	0	0
60	DB	4	0	0	0	0
60	DC	1	0	0	0	0
60	DD	2	0	0	0	0
60	DF	3	0	0	0	0
60	DH	1	0	0	0	0
60	DQ	1	0	0	0	0
60	DR	1	0	0	0	0
60	DU	1	0	0	0	0
60	DX	1	0	0	0	0
60	DY	1	0	0	0	0
61	AD	1	0	0	0	0
61	AN	1	0	0	0	0
61	B9	1	0	0	0	0
61	CD	1	0	0	0	0
61	CN	1	0	0	0	0
61	D9	1	0	0	0	0
All	All	304505	0	207553	20472	9

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 40.

All (20472) 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)
26:D1:81:LYS:CE	35:DA:271(H):G:H5'	1.21	1.60
26:B1:81:LYS:HE2	35:BA:271(H):G:C5'	1.23	1.59
26:D1:81:LYS:HE2	35:DA:271(H):G:C5'	1.31	1.54
26:B1:81:LYS:CE	35:BA:271(H):G:H5'	1.10	1.53
35:BA:1887:C:H2'	35:BA:1888:G:H5"	1.22	1.18
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	1.57	1.18
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	1.58	1.18
57:DY:81:LYS:HD3	57:DY:97:ARG:HB3	1.27	1.17
33:D8:52:LYS:H	33:D8:53:PRO:HD2	1.08	1.17
57:BY:81:LYS:HD3	57:BY:97:ARG:HB3	1.27	1.17
22:AV:72:C:C2'	22:AV:73:A:H5"	1.75	1.17
35:BA:271(S):G:H2'	35:BA:271(T):C:H5"	1.27	1.16
35:BA:1879:C:H2'	35:BA:1880:C:H5"	1.23	1.16
42:DH:13:LYS:HD3	42:DH:14:GLY:H	1.10	1.15
22:AW:16:U:H3'	22:AW:17:C:H5'	1.21	1.15
41:DG:22:ARG:HH11	41:DG:22:ARG:HB3	1.07	1.15
35:BA:1884:A:H2'	35:BA:1885:A:H5"	1.24	1.15
35:DA:1590:U:H2'	35:DA:1591:G:H5"	1.15	1.15
49:BQ:141:GLN:H	58:BZ:99:TYR:HB2	0.98	1.15
35:BA:2758:A:H2'	35:BA:2759:G:H5"	1.24	1.14
45:DK:94:GLU:H	58:DZ:112:ARG:NH2	1.46	1.14
35:BA:1590:U:H2'	35:BA:1591:G:H5"	1.14	1.14
35:DA:612:C:H2'	35:DA:613:G:H5"	1.29	1.14
35:DA:2348:U:H2'	35:DA:2349:G:H5"	1.18	1.13
33:B8:62:LEU:HD13	35:BA:242:G:H5"	1.15	1.13
1:CA:1305:G:H22	1:CA:1331:G:H2'	1.08	1.12
27:D2:68:ARG:HA	27:D2:72:ALA:HB3	1.30	1.12
35:DA:598:G:H5"	48:DP:15:ARG:HD2	1.31	1.12
35:DA:1887:C:H2'	35:DA:1888:G:H5"	1.23	1.12
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.08	1.11
35:DA:925:C:H2'	35:DA:926:A:H5"	1.21	1.11
31:B6:28:ARG:HH11	31:B6:28:ARG:HB3	1.14	1.11
35:BA:2348:U:H2'	35:BA:2349:G:H5"	1.17	1.11
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	1.89	1.11
31:D6:28:ARG:HH11	31:D6:28:ARG:HB3	1.12	1.11
35:DA:1884:A:H2'	35:DA:1885:A:H5"	1.24	1.11
52:BT:30:VAL:HG11	52:BT:84:GLN:HG3	1.32	1.11
33:D8:33:ASN:HD22	33:D8:34:TRP:N	1.48	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:925:C:H2'	35:BA:926:A:H5"	1.19	1.11
33:B8:33:ASN:HD22	33:B8:34:TRP:N	1.49	1.11
33:D8:4:MET:HE3	33:D8:61:LEU:HD13	1.24	1.10
35:DA:1747(A):G:H2'	35:DA:1748:G:H5"	1.33	1.10
26:B1:81:LYS:HE3	35:BA:271(H):G:H5'	1.33	1.10
48:BP:30:THR:HG22	48:BP:31:ALA:H	1.14	1.10
35:DA:2701:C:H3'	35:DA:2702:U:C5'	1.81	1.10
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.31	1.10
33:B8:4:MET:HE3	33:B8:61:LEU:HD13	1.21	1.10
35:DA:1879:C:H2'	35:DA:1880:C:H5"	1.22	1.10
22:AV:71:G:C2'	22:AV:72:C:H5"	1.80	1.10
59:DI:81:VAL:HG23	59:DI:146:ALA:N	1.66	1.10
57:DY:46:LYS:N	57:DY:62:GLU:HG2	1.65	1.10
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.17	1.09
35:DA:2758:A:H2'	35:DA:2759:G:H5"	1.25	1.09
35:BA:549:G:H2'	35:BA:551:G:H5"	1.31	1.09
42:BH:13:LYS:HD3	42:BH:14:GLY:H	1.09	1.09
35:DA:2562:U:H1'	47:DO:23:ARG:HH12	1.08	1.09
48:DP:30:THR:HG22	48:DP:31:ALA:H	1.13	1.09
35:BA:925:C:C2'	35:BA:926:A:H5"	1.82	1.09
2:CB:178:ARG:HH22	2:CB:196:LEU:HA	1.17	1.09
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.23	1.08
40:BF:3:GLU:HG2	40:BF:19:GLU:HB2	1.35	1.08
40:BF:24:LEU:HD12	40:BF:25:PRO:HD3	1.33	1.08
35:DA:271(S):G:H2'	35:DA:271(T):C:H5"	1.29	1.08
37:DC:168:THR:HA	37:DC:173:ALA:HB2	1.32	1.08
22:AV:71:G:H2'	22:AV:72:C:H5"	1.21	1.08
33:B8:52:LYS:H	33:B8:53:PRO:HD2	1.10	1.08
35:BA:598:G:H5"	48:BP:15:ARG:HD2	1.33	1.08
37:BC:168:THR:HA	37:BC:173:ALA:HB2	1.32	1.08
58:BZ:165:VAL:HG12	58:BZ:166:SER:H	1.13	1.08
28:D3:3:ARG:HB3	28:D3:36:VAL:HB	1.34	1.08
24:AY:344:LEU:HD23	24:AY:344:LEU:H	1.11	1.07
30:B5:3:LYS:HA	30:B5:3:LYS:HE3	1.33	1.07
41:BG:137:GLU:HA	41:BG:152:LEU:HD11	1.36	1.07
35:BA:2348:U:C2'	35:BA:2349:G:H5"	1.85	1.07
35:BA:2562:U:H1'	47:BO:23:ARG:HH12	1.12	1.07
57:BY:46:LYS:H	57:BY:62:GLU:HG2	0.91	1.07
35:DA:549:G:H2'	35:DA:551:G:H5"	1.29	1.07
35:DA:2312:U:H2'	35:DA:2313:C:H5"	1.33	1.07
26:B1:86:SER:HB2	26:B1:90:ILE:HG12	1.31	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	1.30	1.07
29:D4:43:GLY:H	29:D4:60:GLU:HA	1.18	1.07
30:D5:3:LYS:HA	30:D5:3:LYS:HE3	1.35	1.07
52:BT:88:ILE:HG22	52:BT:89:VAL:HG23	1.36	1.06
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.32	1.06
40:DF:3:GLU:HG2	40:DF:19:GLU:HB2	1.33	1.06
35:BA:2701:C:H3'	35:BA:2702:U:C5'	1.84	1.06
57:BY:46:LYS:N	57:BY:62:GLU:HG2	1.70	1.06
33:D8:62:LEU:HD13	35:DA:242:G:H5"	1.14	1.06
24:AY:93:GLU:HA	24:AY:96:LYS:HD2	1.38	1.06
35:BA:612:C:H2'	35:BA:613:G:H5"	1.33	1.06
40:DF:84:VAL:HG12	40:DF:85:GLY:H	1.20	1.06
30:B5:2:ALA:HA	35:BA:2015:A:H1'	1.36	1.06
35:DA:925:C:C2'	35:DA:926:A:H5"	1.84	1.06
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.27	1.06
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	1.29	1.06
4:AD:59:ARG:HE	4:AD:59:ARG:HA	1.20	1.05
25:B0:41:ARG:HD2	25:B0:41:ARG:H	1.21	1.05
30:D5:40:LYS:HE3	30:D5:46:CYS:N	1.69	1.05
58:BZ:108:PRO:HA	58:BZ:142:SER:HA	1.35	1.05
41:DG:82:LEU:HD22	41:DG:87:PRO:HG3	1.33	1.05
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.36	1.05
48:BP:40:SER:C	48:BP:41:ARG:HD2	1.81	1.05
24:CY:16:TYR:HA	24:CY:55:LEU:HD11	1.38	1.05
35:DA:2348:U:C2'	35:DA:2349:G:H5"	1.86	1.05
35:BA:1747(A):G:C2'	35:BA:1748:G:H5"	1.87	1.05
35:BA:2312:U:H2'	35:BA:2313:C:H5"	1.33	1.05
40:BF:53:THR:HG23	40:BF:55:GLY:H	1.19	1.05
41:BG:22:ARG:HH11	41:BG:22:ARG:HB3	1.19	1.05
22:CW:38:A:H3'	22:CW:39:U:H5"	1.36	1.05
23:AX:23:G:H1	24:AY:128:GLU:HG3	1.21	1.05
35:DA:1747(A):G:C2'	35:DA:1748:G:H5"	1.87	1.04
39:DE:132:HIS:HB2	39:DE:135:HIS:CE1	1.92	1.04
41:DG:46:ALA:HB2	41:DG:53:LEU:HD12	1.34	1.04
59:DI:75:LEU:HB2	59:DI:141:LYS:HB2	1.38	1.04
52:DT:88:ILE:HG22	52:DT:89:VAL:HG23	1.36	1.04
26:B1:81:LYS:CE	35:BA:271(H):G:C5'	2.00	1.04
27:B2:69:ARG:HH22	35:BA:111:A:H5"	1.19	1.04
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.14	1.04
58:BZ:151:HIS:CB	58:BZ:170:THR:HA	1.87	1.04
26:D1:81:LYS:HE3	35:DA:271(H):G:H5'	1.33	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2781:A:H5'	35:DA:2782:G:H5'	1.39	1.04
35:BA:1747(A):G:H2'	35:BA:1748:G:H5"	1.33	1.04
39:BE:132:HIS:HB2	39:BE:135:HIS:CE1	1.91	1.04
4:CD:59:ARG:HA	4:CD:59:ARG:HE	1.18	1.04
35:DA:2571:C:H5'	35:DA:2572:A:H5"	1.35	1.04
24:AY:22:LYS:HA	24:AY:25:ARG:HD2	1.39	1.04
52:BT:89:VAL:HG11	52:BT:91:ARG:HE	1.13	1.04
41:DG:51:ARG:HA	41:DG:51:ARG:HE	1.19	1.04
2:AB:178:ARG:HH22	2:AB:196:LEU:HA	1.16	1.04
28:B3:3:ARG:HB3	28:B3:36:VAL:HB	1.35	1.04
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.22	1.04
30:B5:40:LYS:HE3	30:B5:46:CYS:N	1.73	1.03
35:BA:1590:U:C2'	35:BA:1591:G:H5"	1.88	1.03
33:D8:33:ASN:HA	33:D8:36:LYS:HD2	1.38	1.03
40:DF:24:LEU:HD12	40:DF:25:PRO:HD3	1.34	1.03
27:B2:39:ALA:HA	27:B2:45:SER:HB3	1.41	1.03
33:B8:33:ASN:HA	33:B8:36:LYS:HD2	1.40	1.03
38:DD:79:VAL:HG21	38:DD:111:LEU:HD11	1.38	1.03
48:DP:40:SER:C	48:DP:41:ARG:HD2	1.82	1.03
35:BA:2571:C:H5'	35:BA:2572:A:H5"	1.35	1.03
31:D6:15:GLU:CD	31:D6:18:ARG:NE	2.17	1.03
26:D1:8:SER:HB3	26:D1:66:HIS:ND1	1.74	1.03
31:D6:15:GLU:CD	31:D6:18:ARG:HE	1.66	1.03
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.19	1.03
35:DA:2287:A:N6	35:DA:2344:U:H3	1.57	1.03
48:DP:128:HIS:HA	48:DP:147:LEU:HB3	1.40	1.03
50:DR:10:LEU:HB3	50:DR:17:ARG:HD2	1.38	1.03
52:DT:30:VAL:HG11	52:DT:84:GLN:HG3	1.36	1.03
52:DT:89:VAL:HG11	52:DT:91:ARG:HE	1.16	1.03
54:DV:46:VAL:HG22	54:DV:47:VAL:H	1.21	1.03
38:BD:79:VAL:HG21	38:BD:111:LEU:HD11	1.38	1.03
48:BP:128:HIS:HA	48:BP:147:LEU:HB3	1.38	1.03
25:D0:51:VAL:HG21	25:D0:80:HIS:HA	1.38	1.03
35:DA:271(M):G:H2'	35:DA:271(N):U:H5"	1.37	1.03
40:DF:53:THR:HG23	40:DF:55:GLY:H	1.18	1.03
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	1.99	1.03
25:D0:41:ARG:H	25:D0:41:ARG:HD2	1.22	1.02
35:DA:2758:A:C2'	35:DA:2759:G:H5"	1.89	1.02
45:DK:93:ARG:HE	58:DZ:112:ARG:HD2	1.22	1.02
35:BA:2758:A:C2'	35:BA:2759:G:H5"	1.89	1.02
35:DA:1879:C:C2'	35:DA:1880:C:H5"	1.88	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:558:G:H3'	1:AA:559:A:H5"	1.41	1.02
29:B4:43:GLY:H	29:B4:60:GLU:HA	1.18	1.02
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.21	1.02
35:DA:747:U:H5'	55:DW:90:ARG:HH12	1.22	1.02
35:BA:361:G:H2'	35:BA:362:U:H5"	1.39	1.02
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.37	1.02
41:DG:47:LYS:HE3	41:DG:81:LYS:HB2	1.37	1.02
37:BC:78:ALA:HB1	37:BC:82:LYS:HB2	1.41	1.02
52:BT:89:VAL:CG1	52:BT:91:ARG:HE	1.72	1.02
35:DA:361:G:H2'	35:DA:362:U:H5"	1.39	1.02
35:BA:1879:C:C2'	35:BA:1880:C:H5"	1.90	1.01
1:AA:1442(A):G:H3'	1:AA:1442(B):A:H5"	1.39	1.01
35:BA:2287:A:H62	35:BA:2344:U:H3	1.07	1.01
41:BG:21:ARG:HH11	41:BG:21:ARG:HB3	1.21	1.01
42:BH:159:GLU:HG3	42:BH:160:LYS:HG2	1.38	1.01
35:DA:2092:U:H4'	35:DA:2093:G:O5'	1.56	1.01
2:AB:185:ILE:HG12	2:AB:199:TYR:HB2	1.43	1.01
41:BG:114:ILE:HG22	41:BG:116:ASP:H	1.26	1.01
54:BV:49:THR:HB	54:BV:50:PRO:HD2	1.38	1.01
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.42	1.01
31:D6:28:ARG:HA	31:D6:32:ASN:HD22	1.23	1.01
57:DY:46:LYS:H	57:DY:62:GLU:HG2	0.89	1.01
35:BA:747:U:H5'	55:BW:90:ARG:HH12	1.23	1.01
35:DA:1590:U:C2'	35:DA:1591:G:H5"	1.89	1.01
35:BA:271(M):G:H2'	35:BA:271(N):U:H5"	1.39	1.01
50:BR:10:LEU:HB3	50:BR:17:ARG:HD2	1.40	1.01
5:CE:81:GLU:HG2	5:CE:90:VAL:HG12	1.42	1.01
54:DV:49:THR:HB	54:DV:50:PRO:HD2	1.36	1.01
41:BG:76:SER:HB2	41:BG:83:ARG:HG2	1.42	1.00
30:D5:2:ALA:HA	35:DA:2015:A:H1'	1.36	1.00
31:B6:28:ARG:HA	31:B6:32:ASN:HD22	1.23	1.00
35:BA:1899:G:N2	35:BA:1902:C:H41	1.60	1.00
19:CS:63:THR:H	19:CS:66:MET:HE3	1.26	1.00
45:DK:95:LYS:HG2	45:DK:137:GLU:HB3	1.40	1.00
26:D1:81:LYS:CE	35:DA:271(H):G:C5'	2.06	1.00
56:DX:11:PRO:HA	56:DX:28:PHE:HB3	1.41	1.00
58:DZ:152:ALA:HB2	58:DZ:168:GLU:N	1.77	1.00
35:BA:1173:G:H3'	35:BA:1174:A:H5'	1.43	1.00
52:DT:13:ARG:CZ	52:DT:13:ARG:HA	1.90	1.00
54:BV:46:VAL:HG22	54:BV:47:VAL:H	1.27	1.00
57:BY:28:LYS:HB2	57:BY:37:VAL:HB	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.43	0.99
9:CI:55:ALA:HA	9:CI:58:ARG:HH12	1.27	0.99
24:CY:139:MET:HE3	24:CY:341:LEU:HD11	1.44	0.99
1:AA:328:C:H4'	1:AA:329:A:H5'	1.41	0.99
1:AA:979:C:H3'	1:AA:980:C:H5"	1.44	0.99
5:AE:81:GLU:HG2	5:AE:90:VAL:HG12	1.43	0.99
4:AD:192:GLU:HB2	6:CF:16:GLN:HE22	1.25	0.99
52:BT:13:ARG:CZ	52:BT:13:ARG:HA	1.92	0.99
42:BH:96:ALA:HB2	42:BH:105:LEU:HD13	1.45	0.99
45:BK:95:LYS:HG2	45:BK:137:GLU:HB3	1.41	0.99
1:CA:558:G:H3'	1:CA:559:A:H5"	1.42	0.99
25:D0:10:THR:HG22	25:D0:11:ARG:H	1.26	0.99
22:AV:72:C:H2'	22:AV:73:A:C5'	1.91	0.99
35:BA:2287:A:N6	35:BA:2344:U:H3	1.59	0.99
55:BW:5:ALA:HB1	55:BW:50:VAL:HG23	1.44	0.99
35:DA:1173:G:H3'	35:DA:1174:A:H5'	1.43	0.99
35:DA:2701:C:H3'	35:DA:2702:U:H5"	1.00	0.99
52:DT:89:VAL:CG1	52:DT:91:ARG:HE	1.75	0.99
1:CA:328:C:H4'	1:CA:329:A:H5'	1.40	0.99
55:DW:5:ALA:HB1	55:DW:50:VAL:HG23	1.44	0.99
42:DH:159:GLU:HG3	42:DH:160:LYS:HG2	1.40	0.99
59:DI:38:LEU:HD12	59:DI:38:LEU:H	1.27	0.99
25:B0:10:THR:HG22	25:B0:11:ARG:H	1.26	0.98
35:BA:2701:C:H3'	35:BA:2702:U:H5"	1.03	0.98
35:BA:2781:A:H5'	35:BA:2782:G:H5'	1.40	0.98
35:DA:1176:G:H21	35:DA:1178:C:H1'	1.28	0.98
41:DG:97:ASP:O	41:DG:101:ILE:HG23	1.63	0.98
45:DK:21:PRO:HB2	45:DK:22:PRO:HD3	1.45	0.98
4:AD:20:TYR:HA	4:AD:26:CYS:SG	2.04	0.98
31:B6:41:PRO:HD2	31:B6:45:LYS:HA	1.45	0.98
45:BK:21:PRO:HB2	45:BK:22:PRO:HD3	1.45	0.98
41:DG:46:ALA:HA	41:DG:51:ARG:HD3	1.45	0.98
2:AB:172:ILE:H	2:AB:172:ILE:HD12	1.24	0.98
37:DC:78:ALA:HB1	37:DC:82:LYS:HB2	1.44	0.98
35:BA:1176:G:H21	35:BA:1178:C:H1'	1.29	0.98
35:DA:2562:U:H1'	47:DO:23:ARG:NH1	1.77	0.98
22:AW:5:G:H22	22:AW:68:C:H42	1.10	0.98
57:BY:8:LYS:HE3	57:BY:72:VAL:HG23	1.46	0.98
58:DZ:30:ASN:HD22	58:DZ:32:HIS:H	1.08	0.98
8:AH:122:ARG:HB2	8:AH:122:ARG:HH11	1.28	0.97
22:CW:27:G:H1	22:CW:43:C:H42	1.01	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:560:C:H4'	53:DU:52:ARG:NH2	1.79	0.97
35:DA:784:A:H5"	38:DD:227:ASN:HD21	1.26	0.97
35:DA:1899:G:N2	35:DA:1902:C:H41	1.60	0.97
58:DZ:91:LEU:H	58:DZ:91:LEU:HD12	1.29	0.97
59:DI:83:ALA:HB2	59:DI:88:ILE:HD13	1.41	0.97
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.43	0.97
31:B6:15:GLU:CD	31:B6:18:ARG:NE	2.23	0.97
42:DH:13:LYS:HE2	42:DH:13:LYS:HA	1.45	0.97
24:AY:214:VAL:HG13	24:AY:215:ASP:H	1.29	0.97
35:BA:875:G:H4'	58:BZ:170:THR:HG21	1.46	0.97
56:BX:11:PRO:HA	56:BX:28:PHE:HB3	1.42	0.97
1:CA:979:C:H3'	1:CA:980:C:H5"	1.43	0.97
35:DA:1528(A):A:H2'	35:DA:1529:G:H5"	1.43	0.97
32:B7:8:ASN:C	32:B7:8:ASN:HD22	1.69	0.97
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.46	0.97
52:BT:100:TYR:HD2	52:BT:103:ARG:HH21	1.12	0.97
54:BV:6:LYS:O	54:BV:37:VAL:HG21	1.65	0.97
35:BA:784:A:H5"	38:BD:227:ASN:HD21	1.30	0.97
35:BA:996:A:H4'	53:BU:92:ARG:HD2	1.45	0.97
35:BA:1504:C:H2'	35:BA:1505:C:H5"	1.45	0.97
45:DK:93:ARG:HB3	58:DZ:112:ARG:NE	1.78	0.97
36:BB:84:C:H2'	36:BB:85:G:H5"	1.44	0.96
52:DT:35:LYS:HE2	52:DT:41:ARG:HE	1.28	0.96
29:B4:59:VAL:HG12	29:B4:60:GLU:H	1.30	0.96
32:D7:8:ASN:HD22	32:D7:8:ASN:C	1.69	0.96
1:CA:955:U:H1'	1:CA:1227:A:H61	1.31	0.96
1:CA:1116:C:H2'	1:CA:1117:G:H5"	1.45	0.96
8:CH:122:ARG:HB2	8:CH:122:ARG:HH11	1.28	0.96
1:AA:1116:C:H2'	1:AA:1117:G:H5"	1.46	0.96
35:DA:2287:A:H62	35:DA:2344:U:H3	1.08	0.96
25:B0:51:VAL:HG21	25:B0:80:HIS:HA	1.45	0.96
42:BH:13:LYS:HE2	42:BH:13:LYS:HA	1.45	0.96
39:BE:132:HIS:HB2	39:BE:135:HIS:NE2	1.80	0.96
58:BZ:48:PHE:HA	58:BZ:51:ALA:HB3	1.47	0.96
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.01	0.96
2:CB:185:ILE:HG12	2:CB:199:TYR:HB2	1.44	0.96
35:DA:996:A:H4'	53:DU:92:ARG:HD2	1.47	0.96
51:DS:89:ARG:HH11	51:DS:92:TYR:HA	1.28	0.96
37:BC:36:LYS:HG3	37:BC:37:PHE:H	1.30	0.96
35:BA:2036:C:H5'	35:BA:2036:C:H6	1.31	0.96
51:BS:89:ARG:HH11	51:BS:92:TYR:HA	1.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1504:C:H2'	35:DA:1505:C:H5"	1.44	0.96
35:BA:1528(A):A:H2'	35:BA:1529:G:H5"	1.47	0.95
36:BB:95:C:H2'	36:BB:96:U:H6	1.31	0.95
52:BT:35:LYS:HE2	52:BT:41:ARG:HE	1.30	0.95
39:DE:132:HIS:HB2	39:DE:135:HIS:NE2	1.80	0.95
45:DK:93:ARG:H	58:DZ:112:ARG:HH21	1.13	0.95
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.44	0.95
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	1.97	0.95
35:BA:271(S):G:C2'	35:BA:271(T):C:H5"	1.96	0.95
35:BA:2533:A:H2'	35:BA:2534:A:H5"	1.48	0.95
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.28	0.95
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	1.96	0.95
31:B6:15:GLU:CD	31:B6:18:ARG:HE	1.73	0.95
35:DA:1884:A:C2'	35:DA:1885:A:H5"	1.96	0.95
29:D4:59:VAL:HG12	29:D4:60:GLU:H	1.29	0.95
35:BA:1884:A:C2'	35:BA:1885:A:H5"	1.96	0.95
41:BG:41:GLN:HG2	41:BG:155:MET:HB3	1.43	0.95
40:DF:84:VAL:HG12	40:DF:85:GLY:N	1.75	0.95
57:DY:8:LYS:HE3	57:DY:72:VAL:HG23	1.49	0.95
12:AL:55:VAL:HG12	12:AL:56:ALA:H	1.30	0.95
26:D1:81:LYS:HE2	35:DA:271(H):G:H5"	1.46	0.95
37:DC:51:PRO:HG3	37:DC:204:ALA:HA	1.49	0.95
27:B2:61:LEU:HD23	27:B2:61:LEU:H	1.32	0.95
35:BA:2562:U:H1'	47:BO:23:ARG:NH1	1.80	0.95
41:BG:39:ILE:HD11	41:BG:92:VAL:HG12	1.46	0.95
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.46	0.95
59:DI:66:GLU:HG3	59:DI:69:LYS:HD2	1.45	0.95
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.30	0.95
22:AV:72:C:H2'	22:AV:73:A:H5"	0.95	0.95
41:BG:61:ALA:HB2	41:BG:68:PRO:HD3	1.48	0.95
58:BZ:111:VAL:HG13	58:BZ:112:ARG:H	1.28	0.95
48:BP:59:LEU:HA	48:BP:61:ARG:NE	1.82	0.95
38:BD:28:GLU:HB3	38:BD:29:PRO:HD3	1.48	0.94
41:BG:107:LEU:HD23	41:BG:107:LEU:H	1.30	0.94
49:BQ:134:ARG:HD3	58:BZ:122:ARG:HH11	1.31	0.94
24:CY:51:GLU:HA	24:CY:54:ARG:NH2	1.81	0.94
57:DY:28:LYS:HB2	57:DY:37:VAL:HB	1.48	0.94
58:DZ:131:ARG:HG3	58:DZ:132:ASN:H	1.32	0.94
35:BA:560:C:H4'	53:BU:52:ARG:NH2	1.81	0.94
31:D6:41:PRO:HD2	31:D6:45:LYS:HA	1.48	0.94
37:DC:82:LYS:HE3	37:DC:151:GLU:HA	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:66:ALA:O	51:DS:69:VAL:HG12	1.67	0.94
35:DA:1019:U:HO2'	35:DA:1021:A:H2	1.10	0.94
9:AI:55:ALA:HA	9:AI:58:ARG:HH12	1.27	0.94
57:BY:60:PHE:HA	57:BY:62:GLU:OE2	1.66	0.94
35:DA:870:A:H5"	49:DQ:6:ARG:HB2	1.49	0.94
17:AQ:7:THR:HG22	17:AQ:58:GLU:HG2	1.49	0.94
35:BA:1899:G:H22	35:BA:1902:C:H41	1.10	0.94
42:DH:96:ALA:HB2	42:DH:105:LEU:HD13	1.49	0.94
50:BR:33:ARG:HG3	50:BR:115:GLU:HG3	1.49	0.94
1:CA:266:G:H5"	1:CA:268:C:H41	1.32	0.94
1:CA:1346:A:H5"	9:CI:120:ARG:HH12	1.32	0.94
7:CG:54:THR:OG1	7:CG:56:GLN:HG2	1.67	0.94
24:CY:54:ARG:HD2	24:CY:101:LEU:HD21	1.47	0.94
1:AA:266:G:H5"	1:AA:268:C:H41	1.32	0.94
19:AS:40:ILE:HG21	19:AS:62:ILE:HD11	1.49	0.94
26:B1:86:SER:HB3	26:B1:89:GLU:HB2	1.46	0.94
33:B8:34:TRP:HB2	35:BA:2420:C:OP1	1.65	0.94
58:BZ:151:HIS:HA	58:BZ:171:ILE:HG12	1.48	0.94
19:AS:63:THR:H	19:AS:66:MET:HE3	1.31	0.93
31:D6:19:ARG:HG2	31:D6:20:ASN:H	1.33	0.93
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	1.81	0.93
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	1.82	0.93
58:BZ:151:HIS:HB3	58:BZ:170:THR:HA	1.47	0.93
17:CQ:7:THR:HG22	17:CQ:58:GLU:HG2	1.49	0.93
35:DA:1012:U:O4	46:DN:28:THR:HG21	1.66	0.93
59:DI:7:GLU:HB3	59:DI:8:PRO:HD2	1.48	0.93
48:DP:59:LEU:HA	48:DP:61:ARG:NE	1.83	0.93
35:DA:612:C:C2'	35:DA:613:G:H5"	1.97	0.93
42:DH:83:TYR:HA	42:DH:135:GLY:H	1.32	0.93
58:DZ:53:ILE:CG2	58:DZ:71:VAL:HB	1.98	0.93
57:BY:28:LYS:HZ2	57:BY:28:LYS:H	0.95	0.93
38:DD:28:GLU:HB3	38:DD:29:PRO:HD3	1.47	0.93
35:DA:1116:C:H2'	35:DA:1117:G:H5'	1.50	0.93
52:DT:91:ARG:HB3	52:DT:116:ALA:HA	1.51	0.93
37:DC:36:LYS:HG3	37:DC:37:PHE:H	1.31	0.93
54:DV:6:LYS:O	54:DV:37:VAL:HG21	1.68	0.93
57:DY:60:PHE:HA	57:DY:62:GLU:OE2	1.68	0.93
49:BQ:141:GLN:N	58:BZ:99:TYR:HB2	1.84	0.93
27:D2:11:GLU:HA	27:D2:14:ARG:HD2	1.50	0.93
36:DB:56:G:H5'	41:DG:27:ASN:HD21	1.34	0.93
58:BZ:165:VAL:HG12	58:BZ:167:PRO:HA	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.32	0.93
35:BA:1064:C:H4'	45:BK:89:HIS:HD2	1.34	0.93
6:CF:8:ILE:HD11	6:CF:79:LEU:HD13	1.51	0.93
33:D8:52:LYS:H	33:D8:53:PRO:CD	1.82	0.93
1:AA:1346:A:H5"	9:AI:120:ARG:HH12	1.32	0.92
4:AD:133:VAL:HG11	4:AD:138:TYR:HD1	1.33	0.92
35:BA:1504:C:C2'	35:BA:1505:C:H5"	1.99	0.92
50:DR:2:ARG:HE	50:DR:2:ARG:N	1.66	0.92
6:AF:8:ILE:HD11	6:AF:79:LEU:HD13	1.48	0.92
43:BI:9:LEU:HD12	43:BI:12:LEU:HD12	1.50	0.92
26:D1:88:LYS:NZ	26:D1:92:LYS:HB2	1.84	0.92
35:BA:1116:C:H2'	35:BA:1117:G:H5'	1.52	0.92
35:BA:2875:C:H4'	52:BT:5:ALA:HB2	1.51	0.92
35:DA:1504:C:C2'	35:DA:1505:C:H5"	1.98	0.92
26:B1:81:LYS:HE2	35:BA:271(H):G:H5"	1.47	0.92
35:BA:1012:U:O4	46:BN:28:THR:HG21	1.68	0.92
47:BO:53:LYS:H	47:BO:53:LYS:HE2	1.35	0.92
19:CS:20:LEU:HA	19:CS:23:ASN:HD22	1.35	0.92
35:DA:2036:C:H5'	35:DA:2036:C:H6	1.31	0.92
35:DA:2801(A):A:H4'	35:DA:2802:G:H5'	1.52	0.92
50:DR:33:ARG:HG3	50:DR:115:GLU:HG3	1.51	0.92
1:CA:59:A:C5'	1:CA:60:A:H5"	1.99	0.92
37:DC:49:ILE:HG13	37:DC:50:ASP:H	1.33	0.92
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.33	0.92
24:AY:150:GLN:HB2	24:AY:172:LYS:HB2	1.49	0.92
31:B6:19:ARG:HG2	31:B6:20:ASN:H	1.33	0.92
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.52	0.92
40:BF:67:GLN:O	40:BF:67:GLN:HG3	1.67	0.92
35:DA:2312:U:C2'	35:DA:2313:C:H5"	2.00	0.92
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.33	0.92
35:BA:870:A:H5"	49:BQ:6:ARG:HB2	1.51	0.92
37:BC:49:ILE:HG13	37:BC:50:ASP:H	1.33	0.92
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.33	0.92
29:D4:51:TYR:CD2	41:DG:2:PRO:HD3	2.04	0.92
37:BC:82:LYS:HE3	37:BC:151:GLU:HA	1.51	0.92
41:DG:46:ALA:HB3	41:DG:88:ILE:HG21	1.52	0.92
1:AA:955:U:H1'	1:AA:1227:A:H61	1.33	0.92
7:AG:54:THR:OG1	7:AG:56:GLN:HG2	1.68	0.92
31:B6:20:ASN:ND2	31:B6:21:TYR:H	1.66	0.92
52:BT:3:ARG:HD2	52:BT:6:LEU:HB2	1.51	0.92
35:DA:784:A:H5"	38:DD:227:ASN:ND2	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:28:LYS:H	57:DY:28:LYS:NZ	1.67	0.92
35:DA:1899:G:H22	35:DA:1902:C:H41	1.07	0.92
40:DF:3:GLU:HA	40:DF:24:LEU:HG	1.52	0.92
41:DG:72:ARG:HH11	41:DG:86:MET:HA	1.32	0.92
1:AA:1445:C:H2'	1:AA:1446:U:H5'	1.49	0.91
27:B2:2:LYS:HB2	35:BA:97:C:H5"	1.48	0.91
28:B3:43:ILE:O	28:B3:47:VAL:HG23	1.70	0.91
35:BA:1190:G:H5"	48:BP:35:HIS:HA	1.52	0.91
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.48	0.91
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.33	0.91
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	1.83	0.91
53:DU:90:VAL:HG12	53:DU:91:ASP:H	1.35	0.91
1:CA:1116:C:C2'	1:CA:1117:G:H5"	2.00	0.91
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.52	0.91
52:DT:28:VAL:HG11	52:DT:46:GLU:HG3	1.52	0.91
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.51	0.91
50:BR:2:ARG:HE	50:BR:2:ARG:N	1.68	0.91
35:DA:271(S):G:C2'	35:DA:271(T):C:H5"	2.00	0.91
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.51	0.91
41:BG:83:ARG:HH21	41:BG:84:LYS:HZ3	1.15	0.91
48:DP:18:ARG:HB3	48:DP:18:ARG:NH1	1.86	0.91
1:AA:59:A:C5'	1:AA:60:A:H5"	1.99	0.91
1:AA:355:C:H2'	1:AA:356:A:H8	1.36	0.91
1:AA:1116:C:C2'	1:AA:1117:G:H5"	2.01	0.91
1:AA:1363(A):A:H4'	1:AA:1364:U:H5"	1.53	0.91
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.51	0.91
41:BG:107:LEU:HD13	41:BG:177:GLY:HA3	1.50	0.91
48:BP:18:ARG:HB3	48:BP:18:ARG:NH1	1.85	0.91
52:BT:28:VAL:HG11	52:BT:46:GLU:HG3	1.52	0.91
58:BZ:7:ALA:HB2	58:BZ:59:LEU:HD22	1.53	0.91
52:DT:100:TYR:HD2	52:DT:103:ARG:HH21	1.08	0.91
42:BH:158:HIS:NE2	42:BH:170:ARG:HA	1.85	0.91
28:D3:43:ILE:O	28:D3:47:VAL:HG23	1.71	0.91
36:DB:84:C:H2'	36:DB:85:G:H5"	1.53	0.91
56:DX:30:VAL:HG12	56:DX:31:HIS:H	1.34	0.91
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.36	0.91
33:B8:52:LYS:H	33:B8:53:PRO:CD	1.83	0.91
33:B8:62:LEU:CD1	35:BA:242:G:H5"	2.01	0.91
35:BA:2681:C:H5	35:BA:2725:A:H62	1.17	0.91
35:DA:1169:G:H1	35:DA:1180:C:H42	1.15	0.91
36:DB:95:C:H2'	36:DB:96:U:H6	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:28:GLY:HA3	42:DH:79:VAL:HG21	1.51	0.91
59:DI:81:VAL:HG13	59:DI:82:ARG:H	1.35	0.91
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.53	0.91
1:CA:1305:G:N2	1:CA:1331:G:H2'	1.84	0.91
12:CL:24:VAL:HG13	12:CL:98:TYR:HE2	1.34	0.91
53:BU:90:VAL:HG12	53:BU:91:ASP:H	1.36	0.91
35:DA:914:C:H2'	35:DA:915:C:H5'	1.53	0.91
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.52	0.91
35:BA:780:G:H21	35:BA:783:A:H62	1.17	0.91
42:BH:94:TYR:HA	42:BH:107:VAL:HG12	1.53	0.91
4:CD:133:VAL:HG11	4:CD:138:TYR:HD1	1.32	0.91
41:DG:60:LEU:O	41:DG:64:THR:HG22	1.71	0.91
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.52	0.90
42:BH:83:TYR:HA	42:BH:135:GLY:H	1.33	0.90
52:DT:3:ARG:HD2	52:DT:6:LEU:HB2	1.52	0.90
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.33	0.90
35:BA:1887:C:C2'	35:BA:1888:G:H5"	2.01	0.90
40:BF:3:GLU:HA	40:BF:24:LEU:HG	1.52	0.90
43:BI:62:LYS:HE2	43:BI:133:HIS:HE2	1.36	0.90
35:DA:2533:A:H2'	35:DA:2534:A:H5"	1.52	0.90
47:DO:53:LYS:HE2	47:DO:53:LYS:H	1.37	0.90
51:DS:28:VAL:HB	51:DS:89:ARG:HB2	1.53	0.90
2:CB:18:GLY:H	2:CB:42:ILE:HG22	1.37	0.90
19:AS:20:LEU:HA	19:AS:23:ASN:HD22	1.35	0.90
35:BA:2312:U:C2'	35:BA:2313:C:H5"	2.00	0.90
42:BH:97:ARG:HG2	42:BH:98:LEU:H	1.36	0.90
1:CA:355:C:H2'	1:CA:356:A:H8	1.35	0.90
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.54	0.90
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.53	0.90
24:CY:19:ILE:HG22	24:CY:52:ALA:HB2	1.54	0.90
35:DA:1022:G:H22	35:DA:1142(A):A:H2	1.18	0.90
45:DK:109:LYS:HA	45:DK:112:MET:HE3	1.51	0.90
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.52	0.90
24:CY:353:ALA:HA	24:CY:356:ARG:CZ	2.01	0.90
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.53	0.90
33:B8:59:LYS:HD3	48:BP:50:ARG:HG3	1.53	0.90
37:BC:51:PRO:HG3	37:BC:204:ALA:HA	1.51	0.90
51:BS:106:ARG:HH11	51:BS:108:GLY:H	1.16	0.90
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.36	0.90
9:AI:63:ILE:HD11	9:AI:81:ILE:HD11	1.53	0.90
35:BA:1019:U:HO2'	35:BA:1021:A:H2	1.15	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1568:G:H5”	38:BD:61:LEU:HD13	1.54	0.90
24:CY:344:LEU:HD23	24:CY:344:LEU:H	1.36	0.90
33:D8:62:LEU:CD1	35:DA:242:G:H5”	2.01	0.90
35:DA:2308:G:O6	35:DA:2310:A:H2’	1.71	0.90
52:DT:28:VAL:HG22	52:DT:47:GLY:N	1.84	0.90
54:DV:5:VAL:HG23	54:DV:37:VAL:O	1.72	0.90
26:B1:81:LYS:HE2	35:BA:271(H):G:C4’	2.00	0.90
30:B5:40:LYS:HE3	30:B5:46:CYS:H	1.36	0.90
40:BF:40:GLN:HE22	40:BF:182:ASN:HB2	1.36	0.90
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.79	0.90
52:BT:28:VAL:HG22	52:BT:47:GLY:N	1.86	0.90
1:CA:1363(A):A:H4’	1:CA:1364:U:H5”	1.52	0.90
41:DG:128:ARG:C	41:DG:130:ASN:H	1.80	0.90
35:BA:34:C:O2’	35:BA:35:G:H5’	1.72	0.90
56:BX:30:VAL:HG12	56:BX:31:HIS:H	1.36	0.90
33:D8:34:TRP:HB2	35:DA:2420:C:OP1	1.71	0.90
40:DF:40:GLN:HE22	40:DF:182:ASN:HB2	1.36	0.90
1:AA:1305:G:N2	1:AA:1331:G:H2’	1.85	0.90
22:AW:16:U:H3’	22:AW:17:C:C5’	2.02	0.90
54:BV:99:ILE:HD13	54:BV:99:ILE:H	1.36	0.90
57:BY:28:LYS:H	57:BY:28:LYS:NZ	1.70	0.90
20:CT:50:GLU:HB3	20:CT:100:ILE:HG12	1.54	0.90
31:D6:20:ASN:ND2	31:D6:21:TYR:H	1.70	0.90
35:DA:1779:U:H5	35:DA:1784:A:N7	1.70	0.90
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.52	0.89
41:BG:38:VAL:HG12	41:BG:93:THR:HA	1.54	0.89
52:BT:106:SER:HB2	52:BT:110:ILE:HD11	1.53	0.89
22:CW:38:A:H3’	22:CW:39:U:C5’	2.02	0.89
35:DA:780:G:H21	35:DA:783:A:H62	1.19	0.89
40:DF:67:GLN:HG3	40:DF:67:GLN:O	1.73	0.89
41:DG:101:ILE:HD13	41:DG:102:PHE:N	1.87	0.89
42:DH:97:ARG:HG2	42:DH:98:LEU:H	1.37	0.89
52:DT:106:SER:HB2	52:DT:110:ILE:HD11	1.54	0.89
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.52	0.89
38:BD:25:THR:CG2	38:BD:82:ILE:H	1.84	0.89
27:D2:10:LEU:HD13	27:D2:14:ARG:HH21	1.36	0.89
41:DG:22:ARG:HH11	41:DG:22:ARG:CB	1.85	0.89
58:DZ:151:HIS:HB2	58:DZ:169:GLU:O	1.72	0.89
26:D1:3:LYS:HG3	26:D1:4:VAL:H	1.36	0.89
41:DG:22:ARG:HB3	41:DG:22:ARG:NH1	1.86	0.89
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:3:LYS:HG3	26:B1:4:VAL:H	1.36	0.89
35:BA:654(M):C:H2'	35:BA:654(N):G:C8	2.08	0.89
35:BA:2068:U:H3	35:BA:2430:A:H2	0.92	0.89
42:BH:28:GLY:HA3	42:BH:79:VAL:HG21	1.51	0.89
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.54	0.89
30:D5:58:LEU:HD23	30:D5:59:GLU:H	1.37	0.89
35:DA:654(J):A:H2'	35:DA:654(L):G:C8	2.07	0.89
35:DA:1064:C:H4'	45:DK:89:HIS:HD2	1.34	0.89
40:DF:25:PRO:HG3	40:DF:119:ARG:HG3	1.54	0.89
19:CS:40:ILE:HG21	19:CS:62:ILE:HD11	1.52	0.89
42:DH:94:TYR:HA	42:DH:107:VAL:HG12	1.54	0.89
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.38	0.89
35:BA:674:G:H1'	40:BF:74:ARG:HD2	1.54	0.89
48:DP:30:THR:HG22	48:DP:31:ALA:N	1.84	0.89
52:DT:3:ARG:HG2	52:DT:6:LEU:H	1.36	0.89
28:B3:2:PRO:HD2	28:B3:39:ASP:HB2	1.54	0.89
3:CC:92:ALA:HB2	3:CC:99:VAL:HG21	1.52	0.89
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.51	0.89
33:D8:59:LYS:HD3	48:DP:50:ARG:HG3	1.55	0.89
52:BT:91:ARG:HB3	52:BT:116:ALA:HA	1.53	0.89
19:CS:63:THR:HG22	19:CS:66:MET:HE2	1.55	0.89
30:D5:40:LYS:HE3	30:D5:46:CYS:H	1.32	0.89
35:BA:774:A:H2	35:BA:787:U:HO2'	0.91	0.89
35:BA:1082:U:H5'	45:BK:117:THR:HG22	1.55	0.89
45:BK:109:LYS:HA	45:BK:112:MET:HE3	1.51	0.89
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.54	0.89
31:D6:33:LYS:HE2	31:D6:33:LYS:HA	1.54	0.89
51:DS:106:ARG:HH11	51:DS:108:GLY:H	1.17	0.89
58:DZ:165:VAL:HG12	58:DZ:166:SER:H	1.38	0.89
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.38	0.88
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.55	0.88
47:BO:53:LYS:H	47:BO:53:LYS:CE	1.85	0.88
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.53	0.88
35:DA:2302:G:H1'	41:DG:128:ARG:NH2	1.88	0.88
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.55	0.88
52:DT:129:ARG:CZ	52:DT:131:ALA:HB3	2.02	0.88
57:DY:39:VAL:HG12	57:DY:40:GLU:H	1.38	0.88
35:BA:655:A:H4'	35:BA:656:G:H5'	1.55	0.88
39:BE:69:LYS:HE3	39:BE:90:THR:H	1.38	0.88
51:BS:66:ALA:O	51:BS:69:VAL:HG12	1.73	0.88
35:DA:1190:G:H5"	48:DP:35:HIS:HA	1.52	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:52:LYS:H	17:AQ:52:LYS:HD2	1.38	0.88
20:AT:50:GLU:HB3	20:AT:100:ILE:HG12	1.54	0.88
20:AT:50:GLU:HG3	20:AT:51:GLU:H	1.39	0.88
22:AW:72:C:H2'	22:AW:73:A:O4'	1.72	0.88
33:B8:32:LEU:HD13	33:B8:32:LEU:H	1.36	0.88
33:D8:52:LYS:N	33:D8:53:PRO:HD2	1.88	0.88
35:DA:655:A:H4'	35:DA:656:G:H5'	1.56	0.88
35:DA:1568:G:H5"	38:DD:61:LEU:HD13	1.54	0.88
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.53	0.88
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.55	0.88
24:AY:97:LYS:HA	24:AY:100:GLU:HB2	1.56	0.88
33:B8:50:LEU:HD12	33:B8:51:ALA:H	1.37	0.88
35:BA:1169:G:H1	35:BA:1180:C:H42	1.19	0.88
35:DA:2875:C:H4'	52:DT:5:ALA:HB2	1.53	0.88
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.38	0.88
22:AW:20:U:H2'	22:AW:21:A:H4'	1.56	0.88
24:AY:41:ASP:N	24:AY:42:PRO:HD2	1.87	0.88
42:BH:60:ARG:HH12	42:BH:64:LEU:HD21	1.39	0.88
35:DA:330:A:H2	35:DA:1210:A:H2'	1.39	0.88
40:DF:24:LEU:CD1	40:DF:25:PRO:HD3	2.02	0.88
49:DQ:141:GLN:H	58:DZ:99:TYR:HB2	1.37	0.88
57:DY:28:LYS:HZ2	57:DY:28:LYS:N	1.71	0.88
22:AV:72:C:H5'	22:AV:72:C:H6	1.37	0.88
31:D6:28:ARG:HB3	31:D6:28:ARG:NH1	1.89	0.88
11:AK:29:ILE:HG22	11:AK:44:SER:HB2	1.56	0.88
52:BT:3:ARG:HG2	52:BT:6:LEU:H	1.37	0.88
58:BZ:152:ALA:HB1	58:BZ:167:PRO:HG2	1.55	0.88
42:DH:158:HIS:NE2	42:DH:170:ARG:HA	1.88	0.88
48:DP:147:LEU:HD12	48:DP:148:LEU:H	1.38	0.88
54:DV:99:ILE:H	54:DV:99:ILE:HD13	1.37	0.88
35:BA:2401:U:H3'	35:BA:2402:C:H5"	1.54	0.88
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.36	0.88
13:CM:27:LYS:HE3	13:CM:31:LYS:HE3	1.53	0.88
22:CV:3:C:H5'	22:CV:3:C:H6	1.35	0.88
38:DD:25:THR:CG2	38:DD:82:ILE:H	1.86	0.88
57:DY:28:LYS:H	57:DY:28:LYS:HZ2	0.92	0.88
1:AA:939:G:H5"	7:AG:102:ARG:NH2	1.89	0.88
2:CB:36:ARG:H	2:CB:41:ILE:HD13	1.39	0.88
17:CQ:52:LYS:HD2	17:CQ:52:LYS:H	1.39	0.88
3:AC:89:GLU:HG3	3:AC:93:LYS:NZ	1.89	0.88
31:B6:33:LYS:HE2	31:B6:33:LYS:HA	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:612:C:C2'	35:BA:613:G:H5"	2.03	0.88
51:BS:28:VAL:HB	51:BS:89:ARG:HB2	1.54	0.88
20:CT:50:GLU:HG3	20:CT:51:GLU:H	1.39	0.88
22:CW:16:U:H3'	22:CW:17:C:H5'	1.56	0.88
33:D8:32:LEU:H	33:D8:32:LEU:HD13	1.38	0.88
35:DA:1846:G:H5'	35:DA:1847:A:OP2	1.73	0.88
35:DA:2401:U:H3'	35:DA:2402:C:H5"	1.54	0.88
39:DE:69:LYS:HE3	39:DE:90:THR:H	1.39	0.88
58:DZ:151:HIS:HB3	58:DZ:170:THR:HA	1.56	0.88
26:B1:81:LYS:NZ	35:BA:271(H):G:H5'	1.88	0.87
12:CL:55:VAL:HG12	12:CL:56:ALA:H	1.39	0.87
42:DH:60:ARG:HH12	42:DH:64:LEU:HD21	1.38	0.87
50:BR:2:ARG:NH1	50:BR:5:LYS:HZ1	1.70	0.87
26:D1:81:LYS:HE2	35:DA:271(H):G:C4'	2.04	0.87
3:AC:92:ALA:HB2	3:AC:99:VAL:HG21	1.54	0.87
10:AJ:80:LYS:NZ	9:CI:95:LYS:HB3	1.89	0.87
35:BA:654(J):A:H2'	35:BA:654(L):G:C8	2.09	0.87
35:BA:2283:C:H2'	35:BA:2284:C:H5'	1.56	0.87
35:BA:2876:G:H1'	52:BT:3:ARG:NH2	1.89	0.87
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.55	0.87
35:DA:1826:G:H4'	38:DD:242:ARG:HE	1.38	0.87
59:DI:5:LEU:O	59:DI:6:LEU:HD23	1.74	0.87
45:DK:72:PRO:HG2	45:DK:77:LEU:HD21	1.56	0.87
49:DQ:110:THR:HB	49:DQ:112:GLU:HG2	1.56	0.87
41:BG:21:ARG:HB3	41:BG:21:ARG:NH1	1.88	0.87
48:BP:147:LEU:HD12	48:BP:148:LEU:H	1.39	0.87
57:BY:56:PRO:O	57:BY:57:GLN:HG3	1.74	0.87
41:DG:124:SER:HB2	41:DG:131:TYR:CE1	2.08	0.87
57:DY:56:PRO:O	57:DY:57:GLN:HG3	1.74	0.87
1:CA:404:U:H2'	1:CA:405:U:H6	1.40	0.87
35:DA:2068:U:N3	35:DA:2430:A:H2	1.71	0.87
41:DG:42:GLY:O	41:DG:43:LEU:HB2	1.74	0.87
41:DG:173:LEU:HB3	41:DG:178:PHE:HD2	1.38	0.87
47:DO:53:LYS:H	47:DO:53:LYS:CE	1.87	0.87
1:AA:1442(A):G:H3'	1:AA:1442(B):A:C5'	2.04	0.87
35:BA:493:G:C2'	35:BA:494:G:H5"	2.04	0.87
45:BK:72:PRO:HG2	45:BK:77:LEU:HD21	1.55	0.87
52:BT:78:LEU:O	52:BT:78:LEU:HD23	1.75	0.87
33:D8:50:LEU:HD12	33:D8:51:ALA:H	1.40	0.87
41:DG:47:LYS:HG2	41:DG:82:LEU:HD12	1.55	0.87
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.37	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:30:THR:HG22	48:BP:31:ALA:N	1.85	0.87
54:BV:19:LYS:HG3	54:BV:20:LEU:N	1.87	0.87
57:BY:48:ALA:O	57:BY:49:VAL:HG13	1.75	0.87
35:DA:674:G:H1'	40:DF:74:ARG:HD2	1.57	0.87
35:DA:2681:C:H5	35:DA:2725:A:H62	1.17	0.87
35:BA:914:C:H2'	35:BA:915:C:H5'	1.56	0.87
40:BF:24:LEU:CD1	40:BF:25:PRO:HD3	2.04	0.87
1:CA:975:A:H4'	1:CA:976:G:H5"	1.56	0.87
24:CY:231:VAL:HG12	24:CY:246:ASP:HB3	1.57	0.87
35:DA:1082:U:H5'	45:DK:117:THR:HG22	1.56	0.87
37:BC:44:HIS:HA	37:BC:175:VAL:H	1.38	0.87
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.40	0.87
4:CD:20:TYR:HA	4:CD:26:CYS:SG	2.15	0.87
35:DA:1887:C:C2'	35:DA:1888:G:H5"	2.02	0.87
59:DI:6:LEU:HD12	59:DI:34:GLY:O	1.73	0.87
52:DT:13:ARG:HA	52:DT:13:ARG:NH1	1.89	0.87
1:AA:372:C:H4'	1:AA:373:A:OP1	1.73	0.86
2:AB:36:ARG:H	2:AB:41:ILE:HD13	1.39	0.86
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.39	0.86
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.54	0.86
19:AS:6:LYS:H	19:AS:6:LYS:CE	1.88	0.86
22:AW:9:A:H61	22:AW:22:G:H3'	1.39	0.86
35:BA:2308:G:O6	35:BA:2310:A:H2'	1.74	0.86
40:BF:25:PRO:HG3	40:BF:119:ARG:HG3	1.55	0.86
35:DA:654(M):C:H2'	35:DA:654(N):G:C8	2.09	0.86
24:AY:154:VAL:HG11	24:AY:168:GLN:OE1	1.73	0.86
35:BA:1024:G:H3'	35:BA:1025:G:H5"	1.55	0.86
41:DG:72:ARG:NH1	41:DG:86:MET:HA	1.90	0.86
50:DR:10:LEU:HB3	50:DR:17:ARG:CD	2.04	0.86
1:AA:404:U:H2'	1:AA:405:U:H6	1.40	0.86
35:BA:27:G:N2	35:BA:512:G:H2'	1.90	0.86
35:BA:676:A:H8	35:BA:2069:G:H21	1.23	0.86
35:BA:1846:G:H5'	35:BA:1847:A:OP2	1.76	0.86
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.39	0.86
20:CT:89:ARG:HH22	20:CT:104:LEU:HD21	1.39	0.86
35:DA:1697:G:H3'	35:DA:1698:A:H5"	1.58	0.86
39:DE:181:LEU:HD21	52:DT:7:ILE:HG23	1.55	0.86
57:DY:8:LYS:H	57:DY:8:LYS:HD2	1.41	0.86
57:DY:87:LYS:HG3	57:DY:88:LYS:H	1.40	0.86
13:AM:27:LYS:HE3	13:AM:31:LYS:HE3	1.56	0.86
30:B5:3:LYS:HG3	30:B5:4:HIS:H	1.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:330:A:H2	35:BA:1210:A:H2'	1.39	0.86
22:CW:39:U:H2'	22:CW:40:C:H5'	1.58	0.86
24:CY:113:GLU:HA	24:CY:175:ASN:H	1.39	0.86
31:D6:30:THR:HG22	31:D6:31:PRO:HD2	1.58	0.86
35:DA:1686:C:H5'	35:DA:1686:C:H6	1.40	0.86
35:DA:2283:C:H2'	35:DA:2284:C:H5'	1.57	0.86
38:DD:106:ILE:HD11	38:DD:143:HIS:NE2	1.91	0.86
58:DZ:146:ILE:HG13	58:DZ:147:GLY:H	1.39	0.86
49:BQ:134:ARG:HD3	58:BZ:122:ARG:NH1	1.91	0.86
3:CC:89:GLU:HG3	3:CC:93:LYS:NZ	1.90	0.86
58:DZ:30:ASN:ND2	58:DZ:32:HIS:H	1.72	0.86
33:B8:33:ASN:HD22	33:B8:33:ASN:C	1.81	0.86
35:BA:1779:U:H5	35:BA:1784:A:N7	1.73	0.86
35:DA:34:C:O2'	35:DA:35:G:H5'	1.76	0.86
20:AT:89:ARG:HH22	20:AT:104:LEU:HD21	1.38	0.86
35:BA:493:G:H2'	35:BA:494:G:H5"	1.54	0.86
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.56	0.86
48:BP:23:PRO:HB2	48:BP:33:ARG:HG3	1.56	0.86
58:BZ:101:PRO:O	58:BZ:102:LEU:HD12	1.76	0.86
27:D2:55:ARG:HH11	35:DA:75:G:H4'	1.38	0.86
35:DA:2126:A:H4'	35:DA:2127:G:O5'	1.76	0.86
48:DP:7:ARG:O	48:DP:10:PRO:HD3	1.74	0.86
48:DP:23:PRO:HB2	48:DP:33:ARG:HG3	1.57	0.86
50:DR:10:LEU:CB	50:DR:17:ARG:HD2	2.06	0.86
31:B6:28:ARG:HB3	31:B6:28:ARG:NH1	1.91	0.86
48:BP:7:ARG:O	48:BP:10:PRO:HD3	1.75	0.86
50:BR:11:ASN:OD1	50:BR:12:ARG:N	2.08	0.86
37:DC:44:HIS:HA	37:DC:175:VAL:H	1.40	0.86
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.58	0.86
4:AD:108:LEU:HD11	4:AD:174:LEU:HD13	1.58	0.86
1:CA:1149:C:H2'	1:CA:1150:U:H6	1.41	0.86
35:DA:1024:G:H3'	35:DA:1025:G:H5"	1.55	0.86
54:DV:19:LYS:HG3	54:DV:20:LEU:N	1.91	0.86
35:BA:784:A:H5"	38:BD:227:ASN:ND2	1.89	0.85
35:BA:1022:G:H22	35:BA:1142(A):A:H2	1.21	0.85
57:BY:87:LYS:HG3	57:BY:88:LYS:H	1.40	0.85
11:CK:29:ILE:HG22	11:CK:44:SER:HB2	1.56	0.85
22:CV:20:U:C3'	22:CV:21:A:H5'	2.05	0.85
35:DA:2630:G:H1'	35:DA:2894:G:H1'	1.58	0.85
5:AE:8:GLU:HG3	5:AE:34:VAL:HG22	1.57	0.85
56:BX:55:ASN:HD22	56:BX:80:ILE:HD11	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:52:SER:O	57:BY:54:LYS:N	2.09	0.85
2:CB:187:LEU:HD22	2:CB:201:ILE:O	1.76	0.85
19:CS:6:LYS:CE	19:CS:6:LYS:H	1.88	0.85
24:CY:57:ARG:HA	24:CY:60:ASP:HB3	1.56	0.85
35:DA:2068:U:H3	35:DA:2430:A:H2	0.89	0.85
35:DA:2876:G:H1'	52:DT:3:ARG:NH2	1.90	0.85
41:DG:88:ILE:HG13	41:DG:89:GLY:H	1.41	0.85
35:BA:2753:A:O2'	35:BA:2754:U:H5'	1.76	0.85
35:BA:2348:U:H2'	35:BA:2349:G:C5'	2.05	0.85
53:BU:92:ARG:O	53:BU:94:ASN:N	2.09	0.85
1:CA:372:C:H4'	1:CA:373:A:OP1	1.74	0.85
35:DA:1187:G:H5"	54:DV:81:TYR:CE2	2.11	0.85
52:DT:28:VAL:HG13	52:DT:46:GLU:HA	1.59	0.85
57:DY:52:SER:O	57:DY:54:LYS:N	2.09	0.85
58:DZ:35:ARG:HG3	58:DZ:35:ARG:HH11	1.41	0.85
35:BA:212:G:O2'	35:BA:213:A:H5'	1.77	0.85
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	1.59	0.85
41:DG:67:LYS:HD3	41:DG:67:LYS:H	1.41	0.85
1:AA:370:C:H42	1:AA:391:G:H1	1.20	0.85
35:BA:2126:A:H4'	35:BA:2127:G:O5'	1.76	0.85
41:BG:97:ASP:HB3	41:BG:98:ARG:HH21	1.39	0.85
52:BT:129:ARG:CZ	52:BT:131:ALA:HB3	2.07	0.85
1:CA:1452:C:H4'	1:CA:1456:G:C4	2.11	0.85
3:CC:53:ALA:HB2	3:CC:115:LEU:HD21	1.57	0.85
5:CE:101:ILE:HD13	5:CE:101:ILE:H	1.40	0.85
24:CY:315:VAL:HG21	24:CY:320:TYR:CE2	2.11	0.85
26:D1:86:SER:HB2	26:D1:90:ILE:HG12	1.59	0.85
35:DA:2753:A:O2'	35:DA:2754:U:H5'	1.76	0.85
39:DE:93:VAL:HG21	39:DE:180:ASN:HA	1.58	0.85
24:AY:344:LEU:H	24:AY:344:LEU:CD2	1.90	0.85
35:BA:2206:G:N2	35:BA:2207:G:H5'	1.90	0.85
57:BY:28:LYS:HZ2	57:BY:28:LYS:N	1.75	0.85
35:DA:620:G:H4'	35:DA:621:A:C5'	2.06	0.85
35:DA:2103:C:H3'	35:DA:2104:G:H5"	1.58	0.85
1:AA:736:C:H2'	1:AA:737:A:H8	1.42	0.85
27:B2:59:ARG:HA	27:B2:62:THR:HB	1.57	0.85
35:BA:654(L):G:H2'	35:BA:654(M):C:O4'	1.76	0.85
22:CW:16:U:C5	22:CW:18:G:H3'	2.12	0.85
35:DA:493:G:C2'	35:DA:494:G:H5"	2.07	0.85
35:DA:774:A:H2	35:DA:787:U:HO2'	0.91	0.85
51:DS:14:VAL:HG12	51:DS:15:ARG:H	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:106:ILE:HD11	38:BD:143:HIS:NE2	1.90	0.85
41:BG:51:ARG:HA	41:BG:51:ARG:NE	1.92	0.85
24:CY:288:ARG:HA	24:CY:291:ARG:HB3	1.58	0.85
27:D2:7:ARG:HA	27:D2:10:LEU:HD12	1.56	0.85
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.57	0.85
50:DR:11:ASN:OD1	50:DR:12:ARG:N	2.09	0.85
58:DZ:152:ALA:HB2	58:DZ:168:GLU:H	1.37	0.85
51:BS:74:ALA:HB1	51:BS:103:GLU:HB2	1.59	0.85
14:CN:12:ARG:C	14:CN:14:PRO:HD2	2.01	0.85
33:D8:33:ASN:HD22	33:D8:33:ASN:C	1.82	0.85
35:DA:747:U:H5'	55:DW:90:ARG:NH1	1.92	0.85
36:DB:117:G:H5'	51:DS:55:ALA:HB1	1.58	0.85
1:AA:975:A:H4'	1:AA:976:G:H5"	1.56	0.84
35:BA:2103:C:H3'	35:BA:2104:G:H5"	1.57	0.84
54:BV:5:VAL:HG23	54:BV:37:VAL:O	1.76	0.84
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.58	0.84
24:CY:33:LEU:H	45:DK:29:GLN:NE2	1.75	0.84
31:D6:47:THR:HG22	31:D6:48:VAL:H	1.42	0.84
35:DA:1077:A:H4'	45:DK:92:GLY:HA3	1.58	0.84
40:DF:84:VAL:CG1	40:DF:85:GLY:N	2.40	0.84
51:DS:14:VAL:HG12	51:DS:15:ARG:N	1.92	0.84
1:AA:405:U:H3'	1:AA:406:G:H5'	1.59	0.84
2:AB:187:LEU:HD22	2:AB:201:ILE:O	1.77	0.84
33:B8:52:LYS:N	33:B8:53:PRO:HD2	1.91	0.84
38:BD:25:THR:HG22	38:BD:82:ILE:H	1.42	0.84
49:BQ:110:THR:HB	49:BQ:112:GLU:HG2	1.59	0.84
51:BS:14:VAL:HG12	51:BS:15:ARG:N	1.92	0.84
1:CA:405:U:H3'	1:CA:406:G:H5'	1.60	0.84
1:CA:736:C:H2'	1:CA:737:A:H8	1.41	0.84
8:CH:122:ARG:HB2	8:CH:122:ARG:NH1	1.90	0.84
35:DA:2126:A:N6	35:DA:2163:C:H4'	1.92	0.84
35:BA:747:U:H5'	55:BW:90:ARG:NH1	1.92	0.84
35:BA:1686:C:H5'	35:BA:1686:C:H6	1.41	0.84
41:BG:39:ILE:HG22	41:BG:157:ILE:HG22	1.59	0.84
4:CD:8:VAL:C	4:CD:10:ARG:H	1.82	0.84
35:DA:493:G:H2'	35:DA:494:G:H5"	1.57	0.84
41:DG:63:ILE:HA	41:DG:143:GLU:HG3	1.57	0.84
48:DP:59:LEU:HA	48:DP:61:ARG:CZ	2.08	0.84
7:AG:23:VAL:HG13	7:AG:43:PHE:HE2	1.43	0.84
27:B2:10:LEU:HB3	27:B2:14:ARG:NH1	1.91	0.84
40:BF:66:PRO:O	40:BF:67:GLN:HB3	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:46:ALA:HA	41:BG:51:ARG:HB3	1.57	0.84
46:BN:42:TRP:HB3	53:BU:64:ARG:HD2	1.59	0.84
50:BR:10:LEU:HB3	50:BR:17:ARG:CD	2.07	0.84
1:CA:939:G:H5"	7:CG:102:ARG:NH2	1.91	0.84
35:DA:654(L):G:H2'	35:DA:654(M):C:O4'	1.76	0.84
52:BT:80:SER:HB3	52:BT:81:PRO:CD	2.07	0.84
35:DA:549:G:C2'	35:DA:551:G:H5"	2.05	0.84
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.57	0.84
51:DS:17:ARG:C	51:DS:19:LYS:H	1.82	0.84
53:DU:92:ARG:O	53:DU:94:ASN:N	2.10	0.84
1:AA:736:C:H2'	1:AA:737:A:C8	2.12	0.84
8:AH:122:ARG:HB2	8:AH:122:ARG:NH1	1.91	0.84
33:B8:50:LEU:HD12	33:B8:51:ALA:N	1.93	0.84
35:BA:1077:A:H4'	45:BK:92:GLY:HA3	1.60	0.84
35:BA:1173:G:H3'	35:BA:1174:A:C5'	2.04	0.84
35:BA:2305:A:H5"	41:BG:134:GLY:HA3	1.59	0.84
39:BE:93:VAL:HG21	39:BE:180:ASN:HA	1.59	0.84
39:BE:181:LEU:HD21	52:BT:7:ILE:HG23	1.57	0.84
1:CA:15:G:H4'	5:CE:24:ARG:HH12	1.42	0.84
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.59	0.84
24:CY:65:LEU:HA	24:CY:68:ASP:HB2	1.60	0.84
35:DA:17:G:H4'	53:DU:25:TRP:CH2	2.12	0.84
35:DA:2118:U:H5	35:DA:2148:G:HO2'	1.24	0.84
48:DP:30:THR:CG2	48:DP:31:ALA:H	1.90	0.84
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.42	0.84
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.43	0.84
1:CA:736:C:H2'	1:CA:737:A:C8	2.12	0.84
9:CI:63:ILE:HD11	9:CI:81:ILE:HD11	1.59	0.84
20:CT:45:GLN:HB2	20:CT:91:LEU:HD13	1.60	0.84
35:DA:1722:A:O2'	35:DA:1739:U:H5"	1.78	0.84
50:DR:2:ARG:NH1	50:DR:5:LYS:HZ1	1.76	0.84
9:AI:9:ARG:HG3	9:AI:14:VAL:HG22	1.58	0.84
12:AL:24:VAL:HG13	12:AL:98:TYR:HE2	1.40	0.84
14:AN:12:ARG:C	14:AN:14:PRO:HD2	2.03	0.84
27:B2:2:LYS:CB	35:BA:97:C:H5"	2.08	0.84
31:B6:10:LEU:HD12	33:B8:34:TRP:CD1	2.13	0.84
35:BA:549:G:C2'	35:BA:551:G:H5"	2.07	0.84
35:BA:1722:A:O2'	35:BA:1739:U:H5"	1.77	0.84
35:BA:2630:G:H1'	35:BA:2894:G:H1'	1.59	0.84
40:BF:22:ALA:HA	40:BF:26:ALA:HB2	1.57	0.84
40:BF:25:PRO:HB3	40:BF:119:ARG:HH11	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1348:G:H2'	35:DA:1349:A:H5"	1.59	0.84
4:AD:111:ALA:HB2	4:AD:120:LEU:HD12	1.59	0.84
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.42	0.84
35:BA:1107:G:OP1	44:BJ:58:UNK:HA	1.78	0.84
58:BZ:97:GLU:HB3	58:BZ:125:LEU:HD11	1.59	0.84
4:CD:111:ALA:HB2	4:CD:120:LEU:HD12	1.59	0.84
35:DA:1173:G:H3'	35:DA:1174:A:C5'	2.05	0.84
59:DI:4:ILE:HG21	59:DI:47:LEU:HD11	1.57	0.84
35:BA:361:G:C2'	35:BA:362:U:H5"	2.07	0.84
35:BA:996:A:H4'	53:BU:92:ARG:CD	2.08	0.84
54:BV:66:ARG:HG2	54:BV:88:ARG:HB3	1.59	0.84
3:CC:131:ARG:HH12	5:CE:50:GLU:HG2	1.43	0.84
41:DG:134:GLY:C	41:DG:135:LEU:HD12	2.03	0.84
52:DT:78:LEU:O	52:DT:78:LEU:HD23	1.76	0.84
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.42	0.83
42:BH:13:LYS:CD	42:BH:14:GLY:H	1.91	0.83
24:CY:68:ASP:OD2	24:CY:91:LEU:HD21	1.78	0.83
54:DV:38:LEU:O	54:DV:39:LEU:HD13	1.76	0.83
36:BB:95:C:H2'	36:BB:96:U:C6	2.13	0.83
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.07	0.83
22:CV:71:G:C2'	22:CV:72:C:H5"	2.08	0.83
27:B2:57:ILE:HG22	27:B2:61:LEU:HD21	1.60	0.83
52:BT:13:ARG:HA	52:BT:13:ARG:NH1	1.91	0.83
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.57	0.83
22:CV:71:G:H2'	22:CV:72:C:C5'	2.07	0.83
49:DQ:141:GLN:O	58:DZ:98:MET:HB2	1.78	0.83
51:DS:92:TYR:CD1	51:DS:93:LYS:N	2.44	0.83
52:DT:28:VAL:HG12	52:DT:29:ARG:HD3	1.59	0.83
57:DY:17:SER:HA	57:DY:71:LYS:HE2	1.59	0.83
1:AA:555:C:H2'	1:AA:556:C:H6	1.42	0.83
46:BN:57:ALA:HB3	46:BN:124:ALA:HA	1.59	0.83
51:BS:74:ALA:HB1	51:BS:103:GLU:CB	2.08	0.83
57:BY:17:SER:HA	57:BY:71:LYS:HE2	1.60	0.83
7:CG:23:VAL:HG13	7:CG:43:PHE:HE2	1.43	0.83
35:DA:2206:G:N2	35:DA:2207:G:H5'	1.91	0.83
35:DA:2701:C:C3'	35:DA:2702:U:H5"	1.97	0.83
58:DZ:42:VAL:HG22	58:DZ:46:LYS:HE3	1.58	0.83
4:AD:8:VAL:C	4:AD:10:ARG:H	1.83	0.83
35:BA:330:A:HO2'	35:BA:331:A:H8	1.26	0.83
35:BA:1187:G:H5"	54:BV:81:TYR:CE2	2.13	0.83
35:BA:1697:G:H3'	35:BA:1698:A:H5"	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:72:ARG:HH11	41:BG:72:ARG:HG2	1.43	0.83
41:BG:83:ARG:NH2	41:BG:84:LYS:HZ3	1.76	0.83
48:BP:59:LEU:HA	48:BP:61:ARG:CZ	2.08	0.83
58:BZ:126:VAL:HG12	58:BZ:163:LEU:HA	1.60	0.83
5:CE:76:ILE:HD11	5:CE:142:LEU:HD21	1.60	0.83
24:CY:52:ALA:HA	24:CY:55:LEU:HB2	1.59	0.83
35:DA:2189:U:H2'	35:DA:2190:G:H5"	1.58	0.83
38:DD:223:GLY:HA2	38:DD:226:MET:HE3	1.60	0.83
59:DI:77:LEU:HD12	59:DI:77:LEU:O	1.76	0.83
5:AE:76:ILE:HD11	5:AE:142:LEU:HD21	1.58	0.83
46:BN:62:VAL:HG22	46:BN:66:LYS:HG3	1.58	0.83
47:BO:110:GLY:HA2	47:BO:112:MET:HE2	1.61	0.83
51:BS:17:ARG:C	51:BS:19:LYS:H	1.82	0.83
59:DI:77:LEU:HD11	59:DI:142:VAL:HA	1.61	0.83
1:AA:955:U:H1'	1:AA:1227:A:N6	1.94	0.83
35:BA:2068:U:N3	35:BA:2430:A:H2	1.75	0.83
48:BP:71:VAL:HB	48:BP:72:PRO:HD3	1.61	0.83
35:DA:1011:G:H5"	53:DU:77:SER:OG	1.78	0.83
38:DD:25:THR:HG22	38:DD:82:ILE:H	1.43	0.83
40:DF:22:ALA:HA	40:DF:26:ALA:HB2	1.57	0.83
46:DN:57:ALA:HB3	46:DN:124:ALA:HA	1.58	0.83
58:DZ:30:ASN:ND2	58:DZ:33:LEU:H	1.75	0.83
1:AA:328:C:H4'	1:AA:329:A:C5'	2.09	0.83
3:AC:53:ALA:HB2	3:AC:115:LEU:HD21	1.59	0.83
48:BP:30:THR:CG2	48:BP:31:ALA:H	1.91	0.83
52:BT:28:VAL:HG13	52:BT:46:GLU:HA	1.59	0.83
1:CA:955:U:H1'	1:CA:1227:A:N6	1.93	0.83
45:DK:93:ARG:H	58:DZ:112:ARG:NH2	1.76	0.83
22:AV:71:G:H2'	22:AV:72:C:C5'	2.07	0.83
43:BI:72:LEU:HD12	43:BI:140:LEU:HD13	1.60	0.83
55:BW:75:TYR:CE1	55:BW:104:THR:HB	2.14	0.83
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.44	0.83
30:D5:3:LYS:HG3	30:D5:4:HIS:H	1.43	0.83
31:D6:28:ARG:O	31:D6:32:ASN:HB3	1.78	0.83
35:DA:361:G:C2'	35:DA:362:U:H5"	2.08	0.83
41:DG:114:ILE:HG12	41:DG:140:ILE:HD13	1.61	0.83
35:BA:2126:A:N6	35:BA:2163:C:H4'	1.93	0.83
43:BI:6:LEU:O	43:BI:7:GLU:HG3	1.77	0.83
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.59	0.83
24:CY:41:ASP:N	24:CY:42:PRO:HD2	1.94	0.83
24:CY:287:GLU:O	24:CY:291:ARG:HB2	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1210:A:H5”	35:DA:1211:U:H3’	1.59	0.83
35:DA:1879:C:H2’	35:DA:1880:C:C5’	2.09	0.83
55:DW:75:TYR:CE1	55:DW:104:THR:HB	2.13	0.83
1:AA:370:C:N4	1:AA:391:G:H1	1.76	0.82
1:AA:1149:C:H2’	1:AA:1150:U:H6	1.42	0.82
4:AD:192:GLU:HB2	6:CF:16:GLN:NE2	1.94	0.82
25:B0:32:ARG:H	25:B0:35:ASN:ND2	1.77	0.82
28:B3:45:GLY:HA3	35:BA:851:U:O2’	1.78	0.82
35:BA:2310:A:O2’	35:BA:2311:A:H5’	1.79	0.82
50:BR:10:LEU:CB	50:BR:17:ARG:HD2	2.09	0.82
52:BT:28:VAL:HG12	52:BT:29:ARG:HD3	1.59	0.82
54:BV:28:GLU:HB3	54:BV:29:PRO:HD2	1.61	0.82
54:BV:38:LEU:O	54:BV:39:LEU:HD13	1.78	0.82
58:BZ:18:LEU:HD23	58:BZ:25:PRO:HG3	1.60	0.82
1:CA:370:C:H42	1:CA:391:G:H1	1.23	0.82
1:CA:370:C:N4	1:CA:391:G:H1	1.77	0.82
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.61	0.82
20:CT:43:LEU:HB3	20:CT:48:LYS:HG3	1.59	0.82
25:D0:49:LYS:N	25:D0:80:HIS:HB3	1.93	0.82
39:DE:52:LEU:HD23	39:DE:75:VAL:HB	1.60	0.82
51:DS:74:ALA:HB1	51:DS:103:GLU:CB	2.09	0.82
1:CA:1250:A:H4’	9:CI:68:GLY:H	1.43	0.82
42:DH:13:LYS:CD	42:DH:14:GLY:H	1.92	0.82
4:AD:150:GLU:HA	4:AD:153:ARG:HG3	1.61	0.82
22:AW:63:G:H2’	22:AW:64:A:O4’	1.79	0.82
31:B6:47:THR:HG22	31:B6:48:VAL:H	1.42	0.82
33:B8:61:LEU:HD12	33:B8:62:LEU:HG	1.61	0.82
35:BA:2092:U:H4’	35:BA:2093:G:O5’	1.79	0.82
38:BD:223:GLY:HA2	38:BD:226:MET:HE3	1.60	0.82
41:BG:111:LEU:HD22	41:BG:117:PHE:HE2	1.44	0.82
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.60	0.82
58:DZ:24:LEU:HD21	58:DZ:86:VAL:HG22	1.60	0.82
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.44	0.82
11:AK:111:ASP:HA	18:AR:84:LYS:HD2	1.62	0.82
24:AY:15:GLY:HA3	24:AY:19:ILE:HG12	1.59	0.82
30:B5:58:LEU:HD23	30:B5:59:GLU:H	1.41	0.82
35:BA:1826:G:H4’	38:BD:242:ARG:HE	1.44	0.82
35:BA:2103:C:C3’	35:BA:2104:G:H5”	2.09	0.82
38:BD:166:GLN:HE21	38:BD:166:GLN:N	1.77	0.82
19:CS:4:SER:O	19:CS:5:LEU:HB2	1.79	0.82
54:DV:66:ARG:HG2	54:DV:88:ARG:HB3	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:63:THR:HG22	19:AS:66:MET:HE2	1.60	0.82
49:BQ:56:ARG:HB2	49:BQ:56:ARG:HH11	1.43	0.82
51:BS:14:VAL:HG12	51:BS:15:ARG:H	1.44	0.82
57:BY:8:LYS:HD2	57:BY:8:LYS:H	1.44	0.82
1:CA:328:C:H4'	1:CA:329:A:C5'	2.08	0.82
9:CI:9:ARG:HG3	9:CI:14:VAL:HG22	1.59	0.82
10:CJ:22:LYS:HZ3	10:CJ:90:LEU:HD13	1.43	0.82
35:DA:271(M):G:C2'	35:DA:271(N):U:H5"	2.09	0.82
59:DI:94:ALA:HB1	59:DI:111:PRO:HB2	1.60	0.82
4:AD:30:LYS:C	4:AD:32:ALA:H	1.84	0.82
35:BA:2290:G:H8	35:BA:2290:G:H5'	1.44	0.82
53:BU:68:ALA:O	53:BU:71:GLN:HG2	1.80	0.82
19:CS:16:LEU:O	19:CS:20:LEU:HG	1.79	0.82
33:D8:23:VAL:HG12	33:D8:46:ARG:HB3	1.61	0.82
35:DA:773:U:H4'	38:DD:47:GLY:HA3	1.62	0.82
22:AW:67:C:H2'	22:AW:68:C:C6	2.15	0.82
24:AY:33:LEU:HG	45:BK:29:GLN:CD	2.05	0.82
35:BA:620:G:H4'	35:BA:621:A:C5'	2.09	0.82
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.62	0.82
35:BA:1348:G:H2'	35:BA:1349:A:H5"	1.60	0.82
35:BA:2172:U:H4'	35:BA:2173:A:OP1	1.76	0.82
1:CA:979:C:C3'	1:CA:980:C:H5"	2.08	0.82
3:CC:70:VAL:HG12	3:CC:71:ALA:N	1.91	0.82
4:CD:108:LEU:HD11	4:CD:174:LEU:HD13	1.61	0.82
33:D8:62:LEU:HD13	35:DA:242:G:C5'	2.06	0.82
35:DA:2290:G:H5'	35:DA:2290:G:H8	1.43	0.82
39:DE:47:VAL:HG12	39:DE:49:LEU:HD12	1.61	0.82
45:DK:18:THR:N	45:DK:19:PRO:HD2	1.94	0.82
45:DK:94:GLU:H	58:DZ:112:ARG:HH22	1.25	0.82
48:DP:40:SER:O	48:DP:41:ARG:HD2	1.80	0.82
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.62	0.82
35:BA:143(A):C:H4'	56:BX:38:GLU:OE1	1.79	0.82
35:BA:2189:U:H2'	35:BA:2190:G:H5"	1.60	0.82
35:DA:814:C:H41	48:DP:27:HIS:CE1	1.98	0.82
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.61	0.82
1:AA:116:A:H61	1:AA:313:A:H1'	1.43	0.82
20:AT:43:LEU:HA	20:AT:46:GLU:HB3	1.62	0.82
26:B1:56:GLN:HA	26:B1:56:GLN:HE21	1.44	0.82
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.42	0.82
26:D1:88:LYS:HZ1	26:D1:92:LYS:HB2	1.43	0.82
28:D3:2:PRO:C	28:D3:4:LEU:H	1.88	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:14:THR:O	31:D6:49:HIS:HA	1.79	0.82
35:DA:27:G:N2	35:DA:512:G:H2'	1.94	0.82
51:DS:74:ALA:HB1	51:DS:103:GLU:HB2	1.60	0.82
54:DV:28:GLU:HB3	54:DV:29:PRO:HD2	1.62	0.82
58:DZ:15:PRO:HB3	58:DZ:19:ARG:HH21	1.45	0.82
1:AA:15:G:H4'	5:AE:24:ARG:HH12	1.43	0.82
3:AC:157:ILE:HD13	3:AC:166:GLU:HB2	1.60	0.82
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.61	0.82
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.61	0.82
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.05	0.82
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	1.80	0.82
41:BG:76:SER:HA	41:BG:83:ARG:HB2	1.61	0.82
56:BX:12:VAL:HG12	56:BX:27:THR:O	1.80	0.82
2:CB:71:VAL:HG12	2:CB:93:VAL:HB	1.62	0.82
22:CV:71:G:H2'	22:CV:72:C:H5"	1.61	0.82
35:DA:773:U:C4'	38:DD:47:GLY:HA3	2.10	0.82
35:DA:1107:G:OP1	44:DJ:58:UNK:HA	1.80	0.82
35:DA:1528(A):A:C2'	35:DA:1529:G:H5"	2.10	0.82
46:DN:62:VAL:HG22	46:DN:66:LYS:HG3	1.60	0.82
50:DR:4:LEU:O	50:DR:4:LEU:HD13	1.80	0.82
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	1.62	0.81
31:B6:30:THR:HG22	31:B6:31:PRO:HD2	1.61	0.81
1:CA:555:C:H2'	1:CA:556:C:H6	1.43	0.81
8:CH:6:ILE:H	8:CH:6:ILE:HD12	1.42	0.81
11:CK:111:ASP:HA	18:CR:84:LYS:HD2	1.59	0.81
35:DA:2172:U:H4'	35:DA:2173:A:OP1	1.77	0.81
38:DD:166:GLN:N	38:DD:166:GLN:HE21	1.77	0.81
9:AI:55:ALA:HA	9:AI:58:ARG:NH1	1.95	0.81
35:BA:650:C:H3'	35:BA:651:G:H5"	1.62	0.81
1:CA:116:A:H61	1:CA:313:A:H1'	1.44	0.81
24:CY:31:ARG:H	24:CY:31:ARG:HD2	1.43	0.81
26:D1:81:LYS:NZ	35:DA:271(H):G:H5'	1.94	0.81
35:DA:1174:A:H5"	35:DA:1175:U:H5'	1.62	0.81
48:DP:71:VAL:HB	48:DP:72:PRO:HD3	1.62	0.81
57:DY:48:ALA:O	57:DY:49:VAL:HG13	1.81	0.81
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.16	0.81
2:AB:220:ASP:HA	2:AB:223:ILE:HG12	1.62	0.81
45:BK:18:THR:N	45:BK:19:PRO:HD2	1.94	0.81
49:BQ:58:PHE:HD1	49:BQ:58:PHE:O	1.63	0.81
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.60	0.81
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:30:G:H2'	22:CW:31:A:C8	2.15	0.81
33:D8:50:LEU:HD12	33:D8:51:ALA:N	1.95	0.81
35:DA:650:C:H3'	35:DA:651:G:H5"	1.62	0.81
35:DA:2348:U:H2'	35:DA:2349:G:C5'	2.07	0.81
35:DA:2485:G:H5"	49:DQ:46:GLN:HE21	1.45	0.81
53:DU:91:ASP:O	53:DU:95:LEU:HB2	1.79	0.81
56:DX:55:ASN:HD22	56:DX:80:ILE:HD11	1.44	0.81
1:AA:1228:C:OP1	13:AM:115:LYS:HE3	1.81	0.81
24:AY:20:PRO:HA	24:AY:23:GLU:CD	2.06	0.81
24:AY:113:GLU:HA	24:AY:175:ASN:H	1.46	0.81
26:D1:8:SER:HB3	26:D1:66:HIS:CE1	2.15	0.81
35:DA:143(A):C:H4'	56:DX:38:GLU:OE1	1.79	0.81
59:DI:48:GLU:HA	59:DI:51:ILE:HD12	1.62	0.81
22:AW:24:G:H2'	22:AW:25:C:O4'	1.81	0.81
29:B4:43:GLY:N	29:B4:60:GLU:HA	1.95	0.81
41:BG:96:ARG:O	41:BG:99:MET:HB3	1.81	0.81
49:DQ:56:ARG:HB2	49:DQ:56:ARG:HH11	1.43	0.81
33:B8:23:VAL:HG12	33:B8:46:ARG:HB3	1.61	0.81
35:BA:1210:A:H5"	35:BA:1211:U:H3'	1.60	0.81
8:CH:84:ARG:HH12	8:CH:86:ILE:HD13	1.46	0.81
35:DA:212:G:O2'	35:DA:213:A:H5'	1.80	0.81
38:DD:71:ASP:HB2	38:DD:103:ARG:HH22	1.45	0.81
40:DF:10:PRO:HG2	40:DF:13:SER:HB2	1.62	0.81
58:DZ:108:PRO:HA	58:DZ:142:SER:HA	1.61	0.81
35:BA:773:U:C4'	38:BD:47:GLY:HA3	2.10	0.81
40:BF:10:PRO:HG2	40:BF:13:SER:HB2	1.59	0.81
43:BI:14:ASP:CG	43:BI:15:VAL:H	1.88	0.81
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.62	0.81
4:CD:30:LYS:C	4:CD:32:ALA:H	1.85	0.81
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	1.80	0.81
28:B3:2:PRO:C	28:B3:4:LEU:H	1.86	0.81
35:BA:1879:C:H2'	35:BA:1880:C:C5'	2.10	0.81
42:BH:91:GLY:HA3	42:BH:160:LYS:HB3	1.63	0.81
58:BZ:166:SER:H	58:BZ:167:PRO:HA	1.43	0.81
42:DH:17:VAL:O	42:DH:45:VAL:HG22	1.79	0.81
42:BH:17:VAL:O	42:BH:45:VAL:HG22	1.80	0.81
52:BT:89:VAL:HG11	52:BT:91:ARG:NE	1.94	0.81
1:AA:939:G:H5"	7:AG:102:ARG:HH22	1.46	0.81
22:AW:70:G:H2'	22:AW:71:G:H5"	1.61	0.81
31:B6:14:THR:O	31:B6:49:HIS:HA	1.79	0.81
33:B8:62:LEU:HD13	35:BA:242:G:C5'	2.07	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:925:C:H2'	35:BA:926:A:C5'	2.09	0.81
9:CI:55:ALA:HA	9:CI:58:ARG:NH1	1.95	0.81
30:D5:58:LEU:HD23	30:D5:59:GLU:N	1.96	0.81
1:AA:979:C:C3'	1:AA:980:C:H5"	2.11	0.80
14:AN:22:THR:O	14:AN:23:ARG:HB2	1.81	0.80
20:AT:43:LEU:HB3	20:AT:48:LYS:HG3	1.61	0.80
53:BU:91:ASP:O	53:BU:95:LEU:HB2	1.80	0.80
1:CA:1071:C:H5"	5:CE:49:PRO:HG2	1.63	0.80
5:CE:8:GLU:HG3	5:CE:34:VAL:HG22	1.61	0.80
22:CV:20:U:C2'	22:CV:21:A:H5'	2.12	0.80
33:D8:61:LEU:HD12	33:D8:62:LEU:HG	1.62	0.80
35:DA:286:C:H2'	35:DA:287:C:C5'	2.11	0.80
35:DA:996:A:H4'	53:DU:92:ARG:CD	2.11	0.80
40:DF:53:THR:HG23	40:DF:55:GLY:N	1.94	0.80
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.63	0.80
52:DT:35:LYS:HE2	52:DT:41:ARG:NE	1.96	0.80
1:AA:192:U:H4'	20:AT:103:GLY:HA2	1.62	0.80
37:BC:74:VAL:HB	37:BC:91:ALA:HB2	1.62	0.80
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.62	0.80
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.46	0.80
22:CV:20:U:H2'	22:CV:21:A:H5'	1.62	0.80
31:D6:15:GLU:OE1	31:D6:18:ARG:HG3	1.81	0.80
59:DI:72:LEU:HD21	59:DI:107:ILE:HG12	1.62	0.80
53:DU:68:ALA:O	53:DU:71:GLN:HG2	1.81	0.80
1:AA:1498:U:H2'	23:AX:20:U:OP1	1.81	0.80
2:AB:87:ARG:NH1	2:AB:223:ILE:HD13	1.97	0.80
35:BA:17:G:H4'	53:BU:25:TRP:CH2	2.15	0.80
56:BX:35:THR:O	56:BX:39:ILE:HG12	1.81	0.80
4:CD:150:GLU:HA	4:CD:153:ARG:HG3	1.63	0.80
14:CN:22:THR:O	14:CN:23:ARG:HB2	1.82	0.80
24:CY:225:GLU:CD	24:CY:225:GLU:H	1.83	0.80
35:DA:2103:C:C3'	35:DA:2104:G:H5"	2.11	0.80
49:DQ:58:PHE:HD1	49:DQ:58:PHE:O	1.63	0.80
14:AN:23:ARG:HH11	14:AN:30:ALA:HB2	1.44	0.80
35:BA:271(M):G:C2'	35:BA:271(N):U:H5"	2.10	0.80
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.62	0.80
57:BY:39:VAL:HG12	57:BY:40:GLU:H	1.44	0.80
52:DT:80:SER:HB3	52:DT:81:PRO:CD	2.12	0.80
58:DZ:157:LEU:H	58:DZ:157:LEU:HD12	1.43	0.80
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.46	0.80
25:B0:49:LYS:N	25:B0:80:HIS:HB3	1.97	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:71:ASP:HB2	38:BD:103:ARG:HH22	1.46	0.80
1:CA:722:A:H2'	1:CA:724:G:C8	2.17	0.80
2:AB:75:LYS:O	2:AB:75:LYS:HD3	1.80	0.80
19:AS:4:SER:O	19:AS:5:LEU:HB2	1.80	0.80
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.45	0.80
57:BY:27:VAL:HA	57:BY:28:LYS:NZ	1.97	0.80
2:CB:87:ARG:NH1	2:CB:223:ILE:HD13	1.96	0.80
3:CC:86:VAL:O	3:CC:89:GLU:HB3	1.80	0.80
27:D2:3:LEU:HD23	27:D2:7:ARG:HE	1.46	0.80
40:DF:46:ARG:HH11	40:DF:46:ARG:HG2	1.45	0.80
41:DG:46:ALA:CA	41:DG:51:ARG:HD3	2.12	0.80
42:DH:122:THR:HB	42:DH:134:SER:HB2	1.63	0.80
59:DI:69:LYS:HE2	59:DI:136:VAL:HB	1.61	0.80
47:DO:110:GLY:HA2	47:DO:112:MET:HE2	1.63	0.80
40:BF:53:THR:HG23	40:BF:55:GLY:N	1.96	0.80
1:CA:192:U:H4'	20:CT:103:GLY:HA2	1.61	0.80
58:DZ:40:ASP:HB3	58:DZ:43:GLU:HB3	1.64	0.80
16:AP:50:LYS:HD3	16:AP:51:VAL:N	1.96	0.80
24:AY:72:LEU:HA	24:AY:75:LEU:HD23	1.64	0.80
25:B0:23:VAL:HA	25:B0:38:VAL:HG22	1.64	0.80
35:BA:27:G:H22	35:BA:512:G:H2'	1.45	0.80
35:BA:184:C:H2'	35:BA:185:U:C6	2.17	0.80
35:BA:2533:A:C2'	35:BA:2534:A:H5"	2.12	0.80
2:CB:75:LYS:HD3	2:CB:75:LYS:O	1.80	0.80
13:CM:90:LEU:C	13:CM:92:HIS:H	1.90	0.80
20:CT:43:LEU:HA	20:CT:46:GLU:HB3	1.63	0.80
35:DA:896:A:O4'	58:DZ:146:ILE:HD12	1.81	0.80
40:DF:66:PRO:O	40:DF:67:GLN:HB3	1.81	0.80
59:DI:133:HIS:ND1	59:DI:134:PRO:HD2	1.96	0.80
49:DQ:63:LYS:NZ	58:DZ:175:VAL:HG21	1.97	0.80
1:AA:434:U:H2'	1:AA:435:C:C6	2.17	0.80
10:AJ:22:LYS:HE2	10:AJ:90:LEU:HD22	1.64	0.80
20:AT:89:ARG:O	20:AT:93:GLU:HB3	1.82	0.80
24:AY:31:ARG:HH12	45:BK:34:ILE:HG21	1.45	0.80
35:BA:1038:C:H3'	35:BA:1039:G:H5"	1.64	0.80
51:BS:92:TYR:CD1	51:BS:93:LYS:N	2.46	0.80
52:BT:35:LYS:HE2	52:BT:41:ARG:NE	1.96	0.80
3:CC:157:ILE:HD13	3:CC:166:GLU:HB2	1.63	0.80
16:CP:50:LYS:HD3	16:CP:51:VAL:N	1.96	0.80
20:CT:89:ARG:O	20:CT:93:GLU:HB3	1.82	0.80
35:DA:676:A:H8	35:DA:2069:G:H21	1.26	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1436:G:H2'	35:DA:1437:C:H5"	1.64	0.80
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.82	0.80
58:DZ:109:ALA:O	58:DZ:110:GLY:C	2.24	0.80
19:AS:6:LYS:H	19:AS:6:LYS:HE3	1.46	0.80
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	1.64	0.80
20:AT:26:ASN:HD22	20:AT:27:LYS:N	1.80	0.80
27:B2:48:HIS:O	27:B2:52:ASP:HB2	1.81	0.80
58:BZ:102:LEU:HD13	58:BZ:123:ASP:HA	1.64	0.80
28:D3:1:MET:HB3	28:D3:39:ASP:CB	2.12	0.80
58:DZ:166:SER:HB2	58:DZ:167:PRO:C	2.06	0.80
3:AC:86:VAL:O	3:AC:89:GLU:HB3	1.81	0.79
35:BA:1174:A:H5"	35:BA:1175:U:H5'	1.63	0.79
40:BF:29:ASN:H	40:BF:112:MET:HE3	1.47	0.79
42:BH:126:PRO:HG2	42:BH:130:ARG:HD2	1.64	0.79
1:CA:370:C:O2	1:CA:370:C:H2'	1.82	0.79
2:CB:220:ASP:HA	2:CB:223:ILE:HG12	1.63	0.79
19:CS:6:LYS:H	19:CS:6:LYS:HE3	1.45	0.79
25:D0:32:ARG:H	25:D0:35:ASN:ND2	1.79	0.79
26:D1:71:TYR:HB3	59:DI:38:LEU:HD21	1.64	0.79
1:AA:423:G:H5"	35:DA:2139:C:OP1	1.82	0.79
8:AH:84:ARG:HH12	8:AH:86:ILE:HD13	1.46	0.79
24:AY:179:LEU:O	24:AY:182:PRO:HD2	1.81	0.79
37:BC:77:ILE:HG13	37:BC:123:VAL:H	1.47	0.79
39:BE:52:LEU:HD23	39:BE:75:VAL:HB	1.61	0.79
41:BG:115:ARG:HD3	41:BG:115:ARG:H	1.47	0.79
55:BW:29:LEU:HD21	55:BW:33:ARG:HH21	1.45	0.79
14:CN:23:ARG:HD2	14:CN:28:GLY:O	1.82	0.79
14:CN:26:ARG:HD3	14:CN:43:CYS:HB3	1.64	0.79
35:DA:92:A:H2'	35:DA:93:G:H8	1.48	0.79
36:DB:95:C:H2'	36:DB:96:U:C6	2.15	0.79
37:DC:77:ILE:HG13	37:DC:123:VAL:H	1.48	0.79
41:DG:51:ARG:HE	41:DG:51:ARG:CA	1.91	0.79
59:DI:122:GLU:HG2	59:DI:123:LEU:H	1.47	0.79
56:DX:35:THR:O	56:DX:39:ILE:HG12	1.81	0.79
1:AA:722:A:H2'	1:AA:724:G:C8	2.17	0.79
40:BF:46:ARG:HH11	40:BF:46:ARG:HG2	1.47	0.79
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.82	0.79
4:CD:117:ALA:O	4:CD:121:VAL:HG23	1.82	0.79
36:DB:56:G:H5'	41:DG:27:ASN:ND2	1.97	0.79
2:AB:71:VAL:HG12	2:AB:93:VAL:HB	1.62	0.79
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:875:G:C4'	58:BZ:170:THR:HG21	2.11	0.79
35:BA:2758:A:H2'	35:BA:2759:G:C5'	2.10	0.79
48:BP:40:SER:O	48:BP:41:ARG:HD2	1.81	0.79
1:CA:1319:A:OP1	19:CS:5:LEU:HG	1.82	0.79
4:CD:162:LEU:HD12	4:CD:181:MET:HE2	1.64	0.79
19:CS:11:VAL:HG23	19:CS:38:SER:HB2	1.64	0.79
31:D6:10:LEU:HD12	33:D8:34:TRP:CD1	2.17	0.79
39:DE:57:LYS:HB3	39:DE:57:LYS:NZ	1.97	0.79
52:DT:28:VAL:O	52:DT:29:ARG:HB2	1.81	0.79
58:DZ:117:LEU:H	58:DZ:117:LEU:HD23	1.47	0.79
1:AA:424:G:H2'	1:AA:425:G:H8	1.47	0.79
1:AA:718:G:H21	18:AR:49:LYS:HZ3	1.28	0.79
5:AE:53:LEU:H	5:AE:53:LEU:HD12	1.46	0.79
35:BA:2302:G:H1'	41:BG:128:ARG:NE	1.98	0.79
38:BD:64:ILE:H	38:BD:64:ILE:HD12	1.47	0.79
54:BV:47:VAL:HG12	54:BV:49:THR:O	1.82	0.79
57:BY:42:VAL:HG12	57:BY:65:ALA:HB3	1.65	0.79
58:BZ:117:LEU:HD23	58:BZ:117:LEU:H	1.48	0.79
1:CA:59:A:H5'	1:CA:60:A:H5"	1.63	0.79
3:CC:129:ALA:HB3	3:CC:132:ARG:HG2	1.64	0.79
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.17	0.79
8:CH:11:THR:HG22	8:CH:15:ASN:HD21	1.48	0.79
12:CL:47:LYS:CB	12:CL:48:PRO:HD3	2.13	0.79
16:CP:53:VAL:HG12	16:CP:79:VAL:HG22	1.65	0.79
40:DF:25:PRO:HB3	40:DF:119:ARG:HH11	1.47	0.79
41:DG:125:PHE:HB3	41:DG:166:ASP:OD2	1.83	0.79
50:DR:73:VAL:O	50:DR:76:VAL:HG12	1.82	0.79
35:BA:811:U:H3'	48:BP:25:SER:O	1.83	0.79
35:BA:2855:C:H2'	35:BA:2856:C:H6	1.48	0.79
38:BD:242:ARG:HD3	38:BD:242:ARG:N	1.97	0.79
40:BF:25:PRO:HB3	40:BF:119:ARG:NH1	1.97	0.79
41:BG:15:VAL:O	41:BG:18:GLU:HB3	1.82	0.79
56:BX:30:VAL:HG11	56:BX:39:ILE:HD12	1.63	0.79
22:CW:39:U:OP1	22:CW:39:U:H4'	1.81	0.79
13:AM:90:LEU:C	13:AM:92:HIS:H	1.90	0.79
14:AN:26:ARG:HD3	14:AN:43:CYS:HB3	1.65	0.79
42:BH:122:THR:HB	42:BH:134:SER:HB2	1.63	0.79
6:CF:68:PRO:HG3	6:CF:71:ARG:HH21	1.48	0.79
12:CL:59:ARG:HH11	12:CL:65:GLU:HG2	1.45	0.79
35:DA:143:G:H1'	56:DX:37:THR:HG21	1.64	0.79
58:DZ:102:LEU:HD13	58:DZ:123:ASP:HA	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:80:LYS:HD2	9:CI:95:LYS:HG2	1.64	0.79
51:BS:57:LYS:HG2	51:BS:58:LEU:H	1.47	0.79
8:CH:10:LEU:HD23	8:CH:10:LEU:H	1.48	0.79
8:CH:87:SER:HB2	8:CH:93:VAL:HB	1.65	0.79
38:DD:242:ARG:N	38:DD:242:ARG:HD3	1.98	0.79
41:DG:76:SER:HB2	41:DG:83:ARG:HB2	1.63	0.79
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.48	0.79
35:BA:1528(A):A:C2'	35:BA:1529:G:H5"	2.13	0.79
1:CA:424:G:H2'	1:CA:425:G:H8	1.46	0.79
5:CE:90:VAL:CG2	5:CE:121:LYS:HB3	2.12	0.79
24:CY:109:PHE:HB2	24:CY:110:PRO:HD2	1.65	0.79
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	2.13	0.79
35:DA:2438:U:O3'	35:DA:2439:A:H3'	1.83	0.79
41:DG:67:LYS:HD3	41:DG:67:LYS:N	1.98	0.79
57:DY:42:VAL:CG1	57:DY:65:ALA:HB3	2.13	0.79
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.64	0.79
35:BA:2150:U:H2'	35:BA:2151:G:H8	1.47	0.79
47:BO:53:LYS:HE2	47:BO:53:LYS:N	1.98	0.79
57:BY:42:VAL:CG1	57:BY:65:ALA:HB3	2.13	0.79
1:CA:1417:G:N2	1:CA:1482:G:H2'	1.98	0.79
24:CY:96:LYS:O	24:CY:99:ASP:HB3	1.83	0.79
27:D2:31:GLU:O	27:D2:35:LEU:HB2	1.82	0.79
33:D8:61:LEU:C	33:D8:63:PRO:HD2	2.08	0.79
33:D8:61:LEU:HD23	33:D8:61:LEU:H	1.46	0.79
34:D9:25:VAL:HB	34:D9:34:GLN:HB2	1.63	0.79
35:DA:2302:G:H21	41:DG:128:ARG:HD2	1.48	0.79
56:DX:12:VAL:HG12	56:DX:27:THR:O	1.82	0.79
3:AC:129:ALA:HB3	3:AC:132:ARG:HG2	1.65	0.78
22:AV:61:C:H2'	22:AV:62:C:H6	1.46	0.78
28:B3:1:MET:HB3	28:B3:39:ASP:CB	2.13	0.78
35:BA:286:C:H2'	35:BA:287:C:C5'	2.12	0.78
35:BA:1054:A:H2'	35:BA:1055:G:C8	2.18	0.78
35:BA:2150:U:H2'	35:BA:2151:G:C8	2.18	0.78
51:BS:89:ARG:O	51:BS:92:TYR:HB3	1.83	0.78
10:CJ:22:LYS:HE2	10:CJ:90:LEU:HD22	1.65	0.78
41:DG:107:LEU:H	41:DG:107:LEU:HD23	1.47	0.78
46:DN:23:LEU:O	46:DN:23:LEU:HD23	1.84	0.78
57:DY:27:VAL:HA	57:DY:28:LYS:NZ	1.97	0.78
1:AA:59:A:H5'	1:AA:60:A:H5"	1.63	0.78
12:AL:47:LYS:CB	12:AL:48:PRO:HD3	2.13	0.78
35:BA:1547:C:O2'	35:BA:1548:C:H5'	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:65:TRP:CZ3	40:BF:72:ARG:HB3	2.18	0.78
50:BR:2:ARG:N	50:BR:2:ARG:NE	2.31	0.78
1:CA:558:G:H3'	1:CA:559:A:C5'	2.13	0.78
1:CA:1228:C:OP1	13:CM:115:LYS:HE3	1.83	0.78
25:D0:27:GLU:HB3	35:DA:856:C:H1'	1.64	0.78
26:D1:80:LEU:HD22	26:D1:81:LYS:N	1.98	0.78
35:DA:2134:A:N6	35:DA:2157:G:H1'	1.98	0.78
1:AA:558:G:H3'	1:AA:559:A:C5'	2.14	0.78
48:BP:23:PRO:HD2	48:BP:33:ARG:NH2	1.98	0.78
2:CB:153:ARG:HG3	2:CB:154:LEU:H	1.49	0.78
24:CY:33:LEU:N	45:DK:29:GLN:HE22	1.80	0.78
24:CY:138:ARG:HG3	24:CY:139:MET:N	1.98	0.78
26:D1:5:CYS:HB3	26:D1:10:LYS:H	1.49	0.78
35:DA:1270:C:H5"	35:DA:1271:G:O5'	1.83	0.78
37:DC:74:VAL:HB	37:DC:91:ALA:HB2	1.63	0.78
45:DK:29:GLN:HE21	45:DK:29:GLN:HA	1.49	0.78
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.48	0.78
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.18	0.78
5:AE:90:VAL:CG2	5:AE:121:LYS:HB3	2.14	0.78
19:AS:16:LEU:O	19:AS:20:LEU:HG	1.82	0.78
41:BG:18:GLU:HG2	41:BG:175:LEU:HD13	1.62	0.78
1:CA:722:A:H2'	1:CA:724:G:H8	1.48	0.78
1:CA:1054:C:O2'	1:CA:1055:A:H5"	1.83	0.78
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.66	0.78
27:D2:47:ASN:O	27:D2:49:LYS:N	2.16	0.78
35:DA:197:A:C8	35:DA:197:A:H5'	2.18	0.78
7:AG:138:LYS:HE2	7:AG:142:GLU:OE2	1.84	0.78
11:AK:27:ASN:HB2	11:AK:55:LYS:HD2	1.66	0.78
22:AW:39:U:H2'	22:AW:40:C:H5"	1.64	0.78
24:AY:65:LEU:HD13	24:AY:98:LEU:HD22	1.64	0.78
31:B6:9:LEU:HD23	31:B6:10:LEU:N	1.98	0.78
31:B6:19:ARG:CG	31:B6:20:ASN:H	1.95	0.78
35:BA:92:A:H2'	35:BA:93:G:H8	1.48	0.78
35:BA:143:G:H1'	56:BX:37:THR:HG21	1.64	0.78
35:BA:197:A:H5'	35:BA:197:A:C8	2.18	0.78
35:BA:2414:G:N3	48:BP:67:MET:HE1	1.99	0.78
55:BW:27:LYS:HE3	55:BW:31:GLU:HG2	1.66	0.78
35:DA:1709:U:H2'	35:DA:1710:C:H6	1.47	0.78
40:DF:8:GLN:CB	40:DF:126:VAL:HA	2.13	0.78
35:BA:1011:G:H5"	53:BU:77:SER:OG	1.83	0.78
35:BA:2118:U:H5	35:BA:2148:G:HO2'	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2415:G:H4'	48:BP:66:GLY:HA3	1.65	0.78
35:BA:2438:U:O3'	35:BA:2439:A:H3'	1.84	0.78
35:BA:2485:G:H5"	49:BQ:46:GLN:HE21	1.47	0.78
1:CA:979:C:H3'	1:CA:980:C:C5'	2.14	0.78
11:CK:27:ASN:HB2	11:CK:55:LYS:HD2	1.66	0.78
14:CN:23:ARG:HH11	14:CN:30:ALA:HB2	1.46	0.78
26:D1:87:PRO:HG2	26:D1:88:LYS:H	1.48	0.78
35:DA:8:A:H2'	35:DA:9:U:C5	2.17	0.78
59:DI:11:ASN:O	59:DI:12:LEU:HB3	1.83	0.78
52:DT:80:SER:CB	52:DT:81:PRO:HD3	2.12	0.78
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG12	1.64	0.78
12:AL:59:ARG:HH11	12:AL:65:GLU:HG2	1.47	0.78
16:AP:53:VAL:HG12	16:AP:79:VAL:HG22	1.66	0.78
35:BA:8:A:H2'	35:BA:9:U:C5	2.18	0.78
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.18	0.78
35:BA:2315:G:H21	41:BG:128:ARG:NH1	1.82	0.78
35:BA:2701:C:C3'	35:BA:2702:U:H5"	2.00	0.78
39:BE:49:LEU:H	39:BE:49:LEU:HD12	1.47	0.78
41:BG:97:ASP:CB	41:BG:98:ARG:HH21	1.95	0.78
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.18	0.78
24:CY:31:ARG:HH21	45:DK:20:ALA:HB2	1.48	0.78
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.14	0.78
59:DI:83:ALA:HB2	59:DI:88:ILE:CD1	2.14	0.78
50:DR:10:LEU:HD13	50:DR:17:ARG:NH1	1.99	0.78
52:DT:89:VAL:HG11	52:DT:91:ARG:NE	1.97	0.78
1:AA:1472:U:H2'	1:AA:1473:A:H8	1.49	0.78
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.18	0.78
24:AY:88:LYS:HD2	24:AY:91:LEU:HD23	1.66	0.78
30:B5:58:LEU:HD23	30:B5:59:GLU:N	1.98	0.78
35:BA:2287:A:H2	35:BA:2346:A:N1	1.82	0.78
35:BA:2307:G:H21	35:BA:2308:G:H5"	1.46	0.78
1:CA:1499:A:H8	1:CA:1499:A:H5'	1.47	0.78
35:DA:811:U:H3'	48:DP:25:SER:O	1.84	0.78
39:DE:111:ARG:HA	50:DR:2:ARG:NE	1.99	0.78
42:DH:126:PRO:HG2	42:DH:130:ARG:HD2	1.64	0.78
50:DR:2:ARG:N	50:DR:2:ARG:NE	2.30	0.78
57:DY:42:VAL:HG12	57:DY:65:ALA:HB3	1.66	0.78
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.63	0.78
41:BG:37:VAL:HG22	41:BG:159:VAL:HA	1.64	0.78
50:BR:73:VAL:O	50:BR:76:VAL:HG12	1.84	0.78
31:D6:19:ARG:CG	31:D6:20:ASN:H	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:98:LEU:HB2	42:DH:125:VAL:HB	1.64	0.78
11:AK:87:THR:HG22	11:AK:88:GLY:H	1.48	0.78
24:AY:79:LEU:HB3	24:AY:80:PRO:HD3	1.66	0.78
24:AY:153:VAL:HA	24:AY:169:ILE:HG22	1.66	0.78
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.13	0.78
35:BA:1436:G:H2'	35:BA:1437:C:H5"	1.66	0.78
50:BR:24:GLN:HB3	50:BR:44:LEU:HD21	1.66	0.78
1:CA:434:U:H2'	1:CA:435:C:C6	2.19	0.78
27:D2:15:LYS:O	27:D2:16:LEU:HD23	1.84	0.78
31:D6:37:ARG:CZ	31:D6:37:ARG:HB3	2.11	0.78
35:DA:2758:A:H2'	35:DA:2759:G:C5'	2.11	0.78
38:DD:64:ILE:HD12	38:DD:64:ILE:H	1.48	0.78
1:AA:1121:U:H2'	1:AA:1122:U:H6	1.49	0.77
1:AA:1319:A:OP1	19:AS:5:LEU:HG	1.83	0.77
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.65	0.77
10:AJ:80:LYS:HZ2	9:CI:95:LYS:HB3	1.47	0.77
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.14	0.77
35:BA:2189:U:C2'	35:BA:2190:G:H5"	2.14	0.77
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.15	0.77
42:BH:111:HIS:HD2	42:BH:112:PRO:HD2	1.47	0.77
57:BY:26:LYS:HG2	57:BY:27:VAL:H	1.47	0.77
58:BZ:108:PRO:CA	58:BZ:142:SER:HA	2.14	0.77
19:CS:63:THR:N	19:CS:66:MET:HE3	1.98	0.77
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.19	0.77
35:DA:2855:C:H2'	35:DA:2856:C:H6	1.48	0.77
35:DA:2873:A:C2	50:DR:6:SER:HB3	2.18	0.77
40:DF:25:PRO:HB3	40:DF:119:ARG:NH1	1.99	0.77
41:DG:45:GLU:OE1	41:DG:53:LEU:HD11	1.84	0.77
59:DI:123:LEU:HD23	59:DI:124:GLY:N	2.00	0.77
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.83	0.77
24:AY:38:LEU:H	24:AY:38:LEU:HD22	1.49	0.77
24:AY:54:ARG:HA	24:AY:57:ARG:HD2	1.66	0.77
34:B9:25:VAL:HB	34:B9:34:GLN:HB2	1.64	0.77
35:BA:2094:G:OP1	43:BI:22:LYS:HG3	1.85	0.77
45:BK:9:LYS:HA	45:BK:56:GLU:HA	1.66	0.77
52:BT:28:VAL:O	52:BT:29:ARG:HB2	1.82	0.77
57:BY:89:PHE:O	57:BY:90:LEU:HB3	1.84	0.77
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.42	0.77
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.65	0.77
35:DA:184:C:H2'	35:DA:185:U:C6	2.18	0.77
35:DA:2682:U:C6	39:DE:11:MET:HE2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:3:GLY:HA3	39:DE:81:ILE:HG21	1.65	0.77
40:DF:65:TRP:CZ3	40:DF:72:ARG:HB3	2.20	0.77
46:DN:42:TRP:HB3	53:DU:64:ARG:HD2	1.65	0.77
51:DS:57:LYS:HG2	51:DS:58:LEU:H	1.49	0.77
3:AC:70:VAL:HG12	3:AC:71:ALA:N	1.99	0.77
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.66	0.77
5:AE:147:ASP:HB3	5:AE:150:ARG:HH21	1.48	0.77
27:B2:69:ARG:NH2	35:BA:111:A:H5"	1.97	0.77
58:BZ:93:ASP:HA	58:BZ:130:PRO:HD2	1.64	0.77
10:CJ:81:THR:C	10:CJ:83:GLU:H	1.92	0.77
35:DA:1899:G:H22	35:DA:1902:C:N4	1.81	0.77
35:DA:2150:U:H2'	35:DA:2151:G:C8	2.20	0.77
42:DH:44:VAL:HG12	42:DH:45:VAL:N	1.99	0.77
45:DK:94:GLU:N	58:DZ:112:ARG:NH2	2.29	0.77
4:AD:162:LEU:HD12	4:AD:181:MET:HE2	1.66	0.77
33:B8:33:ASN:CA	33:B8:36:LYS:HD2	2.15	0.77
35:BA:1598:C:H5'	56:BX:36:LYS:HG3	1.67	0.77
35:BA:2134:A:N6	35:BA:2157:G:H1'	1.98	0.77
1:CA:579:G:H5'	1:CA:728:A:H1'	1.65	0.77
10:CJ:50:ILE:HD13	10:CJ:50:ILE:N	1.99	0.77
35:DA:993:G:OP1	53:DU:50:ARG:NH2	2.17	0.77
35:DA:1639:U:O2'	35:DA:1640:C:H5"	1.84	0.77
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.64	0.77
55:DW:27:LYS:HE3	55:DW:31:GLU:HG2	1.66	0.77
57:DY:39:VAL:HG12	57:DY:40:GLU:N	1.98	0.77
1:AA:416:G:P	35:DA:2153:G:H4'	2.24	0.77
1:AA:1054:C:O2'	1:AA:1055:A:H5"	1.85	0.77
6:AF:68:PRO:HG3	6:AF:71:ARG:HH21	1.49	0.77
42:BH:98:LEU:HB2	42:BH:125:VAL:HB	1.65	0.77
45:BK:20:ALA:HA	45:BK:24:GLY:HA3	1.65	0.77
48:BP:84:ASN:OD1	48:BP:116:GLY:HA3	1.85	0.77
5:CE:53:LEU:H	5:CE:53:LEU:HD12	1.49	0.77
24:CY:75:LEU:HD21	24:CY:84:ARG:HB3	1.66	0.77
1:AA:1145:C:H5'	1:AA:1146:A:OP1	1.83	0.77
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.84	0.77
20:AT:89:ARG:HH21	20:AT:104:LEU:HD11	1.50	0.77
35:BA:197:A:H5'	35:BA:197:A:H8	1.47	0.77
25:D0:53:MET:HB3	25:D0:59:LEU:HD23	1.63	0.77
27:D2:39:ALA:HA	27:D2:45:SER:HB3	1.65	0.77
35:DA:330:A:C2	35:DA:1210:A:H2'	2.20	0.77
35:DA:1038:C:H3'	35:DA:1039:G:H5"	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2534:A:H8	35:DA:2534:A:H5'	1.48	0.77
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.64	0.77
52:DT:115:ARG:HA	52:DT:115:ARG:HE	1.48	0.77
24:AY:139:MET:HE3	24:AY:341:LEU:HD21	1.67	0.77
26:B1:18:ILE:HD13	35:BA:380:U:H5'	1.65	0.77
35:BA:871:U:H4'	49:BQ:69:PHE:CE2	2.20	0.77
35:BA:2262:U:C2'	35:BA:2263:C:H5"	2.15	0.77
39:BE:111:ARG:HA	50:BR:2:ARG:NE	1.99	0.77
51:BS:106:ARG:HH11	51:BS:108:GLY:N	1.83	0.77
52:BT:35:LYS:CE	52:BT:41:ARG:HE	1.98	0.77
58:BZ:14:LYS:HD2	58:BZ:16:SER:HB3	1.67	0.77
1:CA:939:G:H5"	7:CG:102:ARG:HH22	1.50	0.77
5:CE:136:MET:HB3	5:CE:140:ARG:HH12	1.50	0.77
28:D3:11:SER:OG	28:D3:13:ILE:HD13	1.83	0.77
29:D4:43:GLY:N	29:D4:60:GLU:HA	1.95	0.77
35:DA:285:C:H2'	35:DA:286:C:H5"	1.66	0.77
35:DA:871:U:H4'	49:DQ:69:PHE:CE2	2.20	0.77
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.20	0.77
39:DE:131:ALA:C	39:DE:133:LYS:H	1.93	0.77
53:DU:88:ILE:HB	53:DU:90:VAL:HG23	1.67	0.77
57:DY:49:VAL:HG12	57:DY:53:PRO:HG3	1.65	0.77
58:DZ:131:ARG:HG3	58:DZ:132:ASN:N	2.00	0.77
2:AB:153:ARG:HG3	2:AB:154:LEU:H	1.48	0.77
16:AP:51:VAL:HG12	16:AP:52:ASP:H	1.50	0.77
22:AW:38:A:H3'	22:AW:39:U:H5"	1.65	0.77
24:AY:287:GLU:O	24:AY:291:ARG:HB2	1.85	0.77
27:B2:4:SER:O	27:B2:8:LYS:HG2	1.85	0.77
35:BA:2415:G:H4'	48:BP:66:GLY:CA	2.14	0.77
46:BN:23:LEU:HD23	46:BN:23:LEU:O	1.84	0.77
52:BT:23:ARG:O	52:BT:25:GLY:N	2.18	0.77
1:CA:413:G:H1'	1:CA:428:G:H21	1.50	0.77
7:CG:115:ARG:HB2	7:CG:118:VAL:HG22	1.67	0.77
7:CG:138:LYS:HE2	7:CG:142:GLU:OE2	1.83	0.77
22:CW:27:G:H1	22:CW:43:C:N4	1.81	0.77
22:CW:49:C:N4	22:CW:65:G:H1	1.83	0.77
35:DA:27:G:H22	35:DA:512:G:H2'	1.48	0.77
35:DA:2287:A:H2	35:DA:2346:A:N1	1.82	0.77
39:DE:78:LEU:CD2	39:DE:78:LEU:H	1.98	0.77
48:DP:62:LEU:N	48:DP:62:LEU:HD13	1.99	0.77
56:DX:30:VAL:HG12	56:DX:31:HIS:N	1.98	0.77
57:DY:26:LYS:HG2	57:DY:27:VAL:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:11:LYS:HE2	35:BA:686:G:H5"	1.65	0.77
41:BG:82:LEU:HD23	41:BG:83:ARG:H	1.50	0.77
43:BI:92:VAL:CG1	43:BI:120:ILE:HB	2.15	0.77
51:BS:106:ARG:NH1	51:BS:108:GLY:H	1.81	0.77
57:BY:8:LYS:CE	57:BY:72:VAL:HG23	2.13	0.77
58:BZ:109:ALA:HB3	58:BZ:145:GLU:HA	1.66	0.77
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.14	0.77
2:CB:178:ARG:NH2	2:CB:196:LEU:HA	1.99	0.77
24:CY:40:ASN:C	24:CY:42:PRO:HD2	2.10	0.77
35:DA:2167:U:H2'	35:DA:2168:G:C8	2.20	0.77
42:DH:91:GLY:HA3	42:DH:160:LYS:HB3	1.66	0.77
53:DU:92:ARG:HD3	54:DV:11:GLN:HG2	1.65	0.77
22:AV:40:C:H2'	22:AV:41:C:H6	1.48	0.77
26:B1:81:LYS:HE3	35:BA:271(G):C:O2'	1.84	0.77
31:B6:28:ARG:O	31:B6:32:ASN:HB3	1.84	0.77
35:BA:118:A:H5'	35:BA:119:A:H8	1.48	0.77
50:BR:10:LEU:HD13	50:BR:17:ARG:NH1	2.00	0.77
35:DA:2189:U:C2'	35:DA:2190:G:H5"	2.13	0.77
45:DK:9:LYS:HA	45:DK:56:GLU:HA	1.66	0.77
1:AA:825:G:H1'	8:AH:2:LEU:HD21	1.67	0.76
33:B8:61:LEU:HD23	33:B8:61:LEU:H	1.50	0.76
35:BA:814:C:H41	48:BP:27:HIS:CE1	2.03	0.76
35:BA:2307:G:N2	35:BA:2308:G:H5"	2.00	0.76
8:CH:86:ILE:HG22	8:CH:87:SER:N	2.00	0.76
35:DA:2099:U:O2	35:DA:2099:U:H2'	1.85	0.76
42:DH:111:HIS:HD2	42:DH:112:PRO:HD2	1.48	0.76
9:AI:28:VAL:HA	9:AI:63:ILE:O	1.85	0.76
13:AM:108:ARG:HA	13:AM:108:ARG:HH11	1.50	0.76
35:BA:271(T):C:H5'	35:BA:271(T):C:H6	1.50	0.76
35:BA:1827:C:C2'	35:BA:1828:G:H5'	2.16	0.76
35:BA:2167:U:H2'	35:BA:2168:G:C8	2.20	0.76
40:BF:26:ALA:O	40:BF:27:GLU:HG3	1.85	0.76
45:BK:119:ASP:HB3	45:BK:121:GLU:OE2	1.85	0.76
1:CA:1118:C:H5'	1:CA:1118:C:H6	1.49	0.76
1:CA:1145:C:H5'	1:CA:1146:A:OP1	1.83	0.76
5:CE:70:PRO:HB3	5:CE:144:THR:HG22	1.67	0.76
24:CY:120:ILE:HG12	24:CY:208:VAL:HG13	1.66	0.76
33:D8:33:ASN:CA	33:D8:36:LYS:HD2	2.14	0.76
41:DG:39:ILE:HD11	41:DG:60:LEU:HD11	1.67	0.76
59:DI:86:THR:HG22	59:DI:122:GLU:HG3	1.66	0.76
41:BG:41:GLN:HG2	41:BG:155:MET:CB	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:92:ARG:HD3	54:BV:11:GLN:HG2	1.67	0.76
57:BY:31:LEU:HB2	57:BY:32:PRO:HA	1.67	0.76
1:CA:525:C:H2'	1:CA:526:C:H6	1.51	0.76
26:D1:53:VAL:HG23	26:D1:74:VAL:HG13	1.66	0.76
35:DA:197:A:H5'	35:DA:197:A:H8	1.47	0.76
35:DA:1468:C:H2'	35:DA:1469:A:H8	1.50	0.76
48:DP:23:PRO:HD2	48:DP:33:ARG:HH21	1.49	0.76
50:DR:24:GLN:HB3	50:DR:44:LEU:HD21	1.67	0.76
52:DT:35:LYS:CE	52:DT:41:ARG:HE	1.97	0.76
1:AA:10:A:OP2	5:AE:126:ARG:HD3	1.85	0.76
1:AA:299:G:H2'	1:AA:300:A:C8	2.20	0.76
2:AB:69:LEU:HB3	2:AB:162:ILE:HG22	1.67	0.76
3:AC:9:GLY:HA2	3:AC:12:LEU:HD23	1.66	0.76
35:BA:1709:U:H2'	35:BA:1710:C:H6	1.48	0.76
41:BG:47:LYS:HA	41:BG:82:LEU:HD12	1.65	0.76
42:BH:20:ALA:HB3	42:BH:23:ARG:HB2	1.68	0.76
49:BQ:132:VAL:HG11	58:BZ:81:ARG:HD2	1.66	0.76
55:BW:64:MET:HE2	55:BW:109:GLU:HG3	1.67	0.76
57:BY:28:LYS:HB2	57:BY:38:ILE:H	1.48	0.76
1:CA:825:G:H1'	8:CH:2:LEU:HD21	1.65	0.76
40:DF:181:LEU:HD11	40:DF:186:ILE:HD11	1.66	0.76
47:DO:53:LYS:HE3	47:DO:56:ASP:OD1	1.85	0.76
57:DY:28:LYS:HB2	57:DY:38:ILE:H	1.49	0.76
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.15	0.76
1:AA:413:G:H1'	1:AA:428:G:H21	1.51	0.76
1:AA:1145:C:H4'	1:AA:1146:A:C5'	2.16	0.76
5:AE:70:PRO:HB3	5:AE:144:THR:HG22	1.66	0.76
35:BA:184:C:H2'	35:BA:185:U:H6	1.48	0.76
35:BA:796:C:H2'	35:BA:797:C:C6	2.21	0.76
35:BA:1270:C:H5"	35:BA:1271:G:O5'	1.85	0.76
38:BD:106:ILE:O	38:BD:106:ILE:HD12	1.84	0.76
1:CA:1121:U:H2'	1:CA:1122:U:H6	1.48	0.76
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.66	0.76
7:CG:108:ALA:O	7:CG:119:ARG:HD2	1.86	0.76
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.20	0.76
16:CP:51:VAL:HG12	16:CP:52:ASP:H	1.49	0.76
24:CY:288:ARG:HA	24:CY:291:ARG:CB	2.16	0.76
30:D5:2:ALA:CA	35:DA:2015:A:H1'	2.15	0.76
35:DA:141:A:C8	35:DA:1408:C:O2'	2.38	0.76
35:DA:271(M):G:H5"	59:DI:57:ARG:HH22	1.49	0.76
39:DE:48:GLN:HE21	39:DE:78:LEU:CD1	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:20:ALA:HA	45:DK:24:GLY:HA3	1.66	0.76
28:B3:44:ARG:O	28:B3:48:GLU:HG3	1.85	0.76
31:B6:37:ARG:CZ	31:B6:37:ARG:HB3	2.14	0.76
39:BE:57:LYS:NZ	39:BE:57:LYS:HB3	2.01	0.76
40:BF:127:GLU:OE1	40:BF:127:GLU:HA	1.84	0.76
43:BI:77:LEU:HD22	43:BI:101:LEU:HD13	1.68	0.76
1:CA:1321:C:H3'	1:CA:1322:C:H5"	1.68	0.76
28:D3:2:PRO:HD2	28:D3:39:ASP:HB2	1.66	0.76
51:DS:106:ARG:NH1	51:DS:108:GLY:H	1.84	0.76
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ3	1.51	0.76
5:AE:126:ARG:HG3	5:AE:126:ARG:HH11	1.50	0.76
24:AY:142:ARG:O	24:AY:146:ARG:HG3	1.86	0.76
39:BE:131:ALA:C	39:BE:133:LYS:H	1.93	0.76
42:BH:44:VAL:HG12	42:BH:45:VAL:N	2.00	0.76
46:BN:25:ARG:HG3	46:BN:25:ARG:HH11	1.51	0.76
47:BO:98:VAL:HG12	47:BO:117:LEU:HB3	1.66	0.76
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	1.66	0.76
24:CY:61:THR:HA	24:CY:64:SER:HB3	1.68	0.76
35:DA:1126:A:H4'	35:DA:1127:A:O5'	1.86	0.76
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.20	0.76
53:DU:66:ASN:HD21	53:DU:70:ARG:HE	1.33	0.76
54:DV:47:VAL:HG12	54:DV:49:THR:O	1.86	0.76
8:AH:86:ILE:HG22	8:AH:87:SER:N	2.01	0.76
29:B4:50:THR:HG22	29:B4:51:TYR:H	1.51	0.76
35:BA:2099:U:H2'	35:BA:2099:U:O2	1.85	0.76
48:BP:62:LEU:HD13	48:BP:62:LEU:N	2.01	0.76
5:CE:51:VAL:O	5:CE:55:VAL:HG23	1.86	0.76
20:CT:89:ARG:HH21	20:CT:104:LEU:HD11	1.51	0.76
22:CV:68:C:O2'	22:CV:69:G:H5'	1.85	0.76
24:CY:45:ALA:O	24:CY:48:VAL:HG22	1.85	0.76
27:D2:10:LEU:HD13	27:D2:14:ARG:NH2	2.01	0.76
32:D7:11:LYS:HE2	35:DA:686:G:H5"	1.67	0.76
35:DA:1403:C:H5"	35:DA:1471:A:H1'	1.68	0.76
41:DG:107:LEU:HD13	41:DG:178:PHE:CE1	2.21	0.76
57:DY:46:LYS:HD3	57:DY:47:LYS:NZ	2.00	0.76
1:AA:1118:C:H5'	1:AA:1118:C:H6	1.50	0.76
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.67	0.76
24:AY:249:VAL:HG22	24:AY:250:ARG:H	1.51	0.76
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.21	0.76
46:BN:38:HIS:O	53:BU:67:ALA:HB1	1.85	0.76
1:CA:532:A:C2	1:CA:1207:G:H1'	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D9:7:VAL:HG13	34:D9:34:GLN:HB3	1.68	0.76
35:DA:1077:A:OP1	58:DZ:112:ARG:HA	1.85	0.76
35:DA:1827:C:C2'	35:DA:1828:G:H5'	2.16	0.76
45:DK:58:THR:HB	45:DK:66:THR:HG22	1.68	0.76
47:DO:53:LYS:HE2	47:DO:53:LYS:N	2.00	0.76
57:DY:8:LYS:CE	57:DY:72:VAL:HG23	2.16	0.76
19:AS:29:ARG:HD2	19:AS:29:ARG:C	2.11	0.76
35:BA:1639:U:O2'	35:BA:1640:C:H5"	1.85	0.76
39:BE:78:LEU:CD2	39:BE:78:LEU:H	1.99	0.76
46:BN:67:LEU:O	46:BN:88:GLU:HG3	1.85	0.76
53:BU:24:TYR:HB2	53:BU:29:SER:HB3	1.66	0.76
5:CE:147:ASP:HB3	5:CE:150:ARG:HH21	1.49	0.76
22:CW:63:G:H2'	22:CW:64:A:O4'	1.86	0.76
35:DA:184:C:H2'	35:DA:185:U:H6	1.49	0.76
35:DA:1257:C:H4'	40:DF:83:PHE:CE2	2.21	0.76
42:DH:25:LYS:HB3	42:DH:34:GLU:HG2	1.68	0.76
52:DT:35:LYS:NZ	52:DT:41:ARG:HH21	1.84	0.76
53:DU:24:TYR:HB2	53:DU:29:SER:HB3	1.68	0.76
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	1.68	0.75
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.68	0.75
19:AS:36:ARG:HA	19:AS:71:LEU:HB2	1.68	0.75
35:BA:1899:G:H22	35:BA:1902:C:N4	1.82	0.75
35:BA:2138:C:H1'	35:BA:2154:G:N2	2.01	0.75
49:BQ:141:GLN:HA	58:BZ:53:ILE:HB	1.67	0.75
56:BX:30:VAL:HG11	56:BX:39:ILE:CD1	2.16	0.75
30:D5:40:LYS:NZ	30:D5:49:CYS:SG	2.59	0.75
35:DA:271(T):C:H6	35:DA:271(T):C:H5'	1.51	0.75
52:DT:23:ARG:O	52:DT:25:GLY:N	2.18	0.75
57:DY:76:CYS:HB3	57:DY:96:ILE:CD1	2.17	0.75
1:AA:370:C:H2'	1:AA:370:C:O2	1.85	0.75
4:AD:119:GLN:HG3	4:AD:123:HIS:HD2	1.48	0.75
22:AW:5:G:H22	22:AW:68:C:N4	1.83	0.75
35:BA:285:C:H2'	35:BA:286:C:H5"	1.68	0.75
35:BA:896:A:O4'	58:BZ:146:ILE:HD12	1.86	0.75
35:BA:2199:A:H5'	35:BA:2200:C:OP2	1.86	0.75
39:BE:117:MET:O	39:BE:118:LYS:HB2	1.84	0.75
51:BS:74:ALA:HB1	51:BS:103:GLU:HG3	1.68	0.75
1:CA:17:U:H2'	1:CA:18:C:C6	2.21	0.75
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.86	0.75
39:DE:181:LEU:HD21	52:DT:7:ILE:CG2	2.16	0.75
46:DN:128:HIS:O	46:DN:130:HIS:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:89:PHE:O	57:DY:90:LEU:HB3	1.86	0.75
1:AA:918:A:H2'	1:AA:919:A:C8	2.21	0.75
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.50	0.75
27:B2:43:GLN:O	27:B2:44:LEU:HG	1.86	0.75
31:B6:11:LEU:HD21	31:B6:26:ASN:N	2.01	0.75
33:B8:48:PHE:HE2	35:BA:650:C:OP1	1.70	0.75
35:BA:1126:A:H4'	35:BA:1127:A:O5'	1.85	0.75
35:BA:2682:U:C6	39:BE:11:MET:HE2	2.21	0.75
35:BA:2791:C:N4	35:BA:2803:C:H42	1.83	0.75
38:BD:92:ILE:HG21	38:BD:104:TYR:CD2	2.21	0.75
39:BE:55:ASN:C	39:BE:57:LYS:H	1.94	0.75
2:CB:54:THR:O	2:CB:58:ILE:HG12	1.86	0.75
33:D8:33:ASN:ND2	33:D8:34:TRP:N	2.32	0.75
35:DA:2702:U:H5	35:DA:2705:A:H61	1.34	0.75
45:DK:121:GLU:O	45:DK:125:ARG:HG3	1.87	0.75
47:DO:87:ILE:HG22	47:DO:88:ASN:O	1.84	0.75
55:DW:29:LEU:HD21	55:DW:33:ARG:HH21	1.52	0.75
56:DX:15:GLU:CD	56:DX:15:GLU:H	1.95	0.75
1:AA:722:A:H2'	1:AA:724:G:H8	1.47	0.75
2:AB:178:ARG:NH2	2:AB:196:LEU:HA	1.99	0.75
8:AH:16:ALA:O	8:AH:19:VAL:HG22	1.86	0.75
23:AX:23:G:N1	24:AY:128:GLU:HG3	1.99	0.75
39:BE:69:LYS:NZ	39:BE:89:ASP:HA	2.01	0.75
57:BY:49:VAL:HG12	57:BY:53:PRO:HG3	1.67	0.75
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	1.86	0.75
28:D3:45:GLY:HA3	35:DA:851:U:O2'	1.86	0.75
33:D8:48:PHE:HE2	35:DA:650:C:OP1	1.69	0.75
35:DA:494:G:H5'	35:DA:494:G:H8	1.50	0.75
35:DA:847:U:H2'	35:DA:848:G:H5"	1.68	0.75
35:DA:1054:A:H2'	35:DA:1055:G:C8	2.22	0.75
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.20	0.75
35:DA:2150:U:H2'	35:DA:2151:G:H8	1.49	0.75
35:DA:2533:A:C2'	35:DA:2534:A:H5"	2.16	0.75
38:DD:102:LYS:C	38:DD:103:ARG:HG2	2.10	0.75
38:DD:106:ILE:HD12	38:DD:106:ILE:O	1.86	0.75
48:DP:84:ASN:OD1	48:DP:116:GLY:HA3	1.86	0.75
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.02	0.75
36:BB:117:G:H5'	51:BS:55:ALA:HB1	1.69	0.75
39:BE:3:GLY:HA3	39:BE:81:ILE:HG21	1.68	0.75
41:BG:114:ILE:HG12	41:BG:140:ILE:HD13	1.69	0.75
46:BN:46:VAL:HG13	46:BN:48:MET:HG3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:4:LEU:HD13	50:BR:4:LEU:O	1.85	0.75
1:CA:918:A:H2'	1:CA:919:A:C8	2.21	0.75
35:DA:1022:G:N2	35:DA:1142(A):A:H2	1.83	0.75
41:DG:41:GLN:HG2	41:DG:155:MET:HB3	1.66	0.75
45:DK:119:ASP:HB3	45:DK:121:GLU:OE2	1.85	0.75
50:DR:104:ARG:HH11	50:DR:104:ARG:CB	1.99	0.75
53:DU:27:LEU:N	53:DU:27:LEU:HD23	2.02	0.75
1:AA:1291:G:H4'	9:AI:39:GLY:HA3	1.68	0.75
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.01	0.75
34:B9:7:VAL:HG13	34:B9:34:GLN:HB3	1.69	0.75
35:BA:1403:C:H5"	35:BA:1471:A:H1'	1.68	0.75
35:BA:1711:C:H2'	35:BA:1712:C:H6	1.51	0.75
50:BR:104:ARG:HH11	50:BR:104:ARG:CB	1.99	0.75
1:CA:299:G:H2'	1:CA:300:A:C8	2.22	0.75
1:CA:1117:G:H5'	1:CA:1117:G:H8	1.52	0.75
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.66	0.75
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.01	0.75
24:CY:33:LEU:H	45:DK:29:GLN:HE22	1.31	0.75
35:DA:2327:A:H2'	35:DA:2328:A:C8	2.21	0.75
51:DS:89:ARG:HD2	51:DS:92:TYR:H	1.51	0.75
1:AA:673:G:H2'	1:AA:674:G:C8	2.21	0.75
5:AE:51:VAL:O	5:AE:55:VAL:HG23	1.85	0.75
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.21	0.75
20:AT:26:ASN:HD22	20:AT:27:LYS:H	1.35	0.75
22:AW:40:C:H2'	22:AW:41:C:C6	2.22	0.75
25:B0:53:MET:HB3	25:B0:59:LEU:HD23	1.67	0.75
1:CA:630:G:H2'	1:CA:631:G:H5"	1.69	0.75
8:CH:16:ALA:O	8:CH:19:VAL:HG22	1.87	0.75
20:CT:13:LEU:C	20:CT:13:LEU:HD12	2.12	0.75
24:CY:31:ARG:NH2	45:DK:20:ALA:HB2	2.02	0.75
29:D4:50:THR:HG22	29:D4:51:TYR:H	1.52	0.75
35:DA:2415:G:H4'	48:DP:66:GLY:HA3	1.67	0.75
38:DD:235:GLY:O	38:DD:237:GLU:N	2.18	0.75
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.85	0.75
52:DT:51:ARG:O	52:DT:61:PHE:HA	1.87	0.75
56:DX:30:VAL:HG11	56:DX:39:ILE:HD12	1.69	0.75
1:AA:17:U:H2'	1:AA:18:C:C6	2.22	0.75
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.22	0.75
7:AG:84:ASN:ND2	22:AW:33:U:H4'	2.02	0.75
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.50	0.75
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2534:A:H5'	35:BA:2534:A:H8	1.51	0.75
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.01	0.75
47:BO:10:VAL:HG21	47:BO:16:ALA:O	1.86	0.75
1:CA:503:C:H2'	1:CA:504:C:H6	1.51	0.75
1:CA:1057:G:H5"	3:CC:154:SER:HB2	1.68	0.75
35:DA:2138:C:H1'	35:DA:2154:G:N2	2.00	0.75
35:DA:2307:G:H21	35:DA:2308:G:H5"	1.50	0.75
42:DH:54:ARG:HH11	42:DH:54:ARG:HG2	1.51	0.75
48:DP:64:LYS:O	48:DP:66:GLY:N	2.20	0.75
48:DP:147:LEU:CD1	48:DP:148:LEU:H	1.99	0.75
57:DY:96:ILE:HG22	57:DY:97:ARG:H	1.51	0.75
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.22	0.75
14:AN:26:ARG:HD2	14:AN:47:LEU:HD11	1.69	0.75
35:BA:141:A:C8	35:BA:1408:C:O2'	2.39	0.75
35:BA:1785:A:OP1	35:BA:1982:C:H5'	1.85	0.75
35:BA:2702:U:H5	35:BA:2705:A:H61	1.33	0.75
39:BE:47:VAL:HG12	39:BE:49:LEU:HD12	1.68	0.75
45:BK:12:LEU:HD21	45:BK:23:VAL:HG13	1.69	0.75
1:CA:10:A:OP2	5:CE:126:ARG:HD3	1.87	0.75
1:CA:1145:C:H4'	1:CA:1146:A:C5'	2.16	0.75
35:DA:1064:C:H4'	45:DK:89:HIS:CD2	2.22	0.75
35:DA:1779:U:C5	35:DA:1784:A:N7	2.55	0.75
35:DA:2262:U:C2'	35:DA:2263:C:H5"	2.16	0.75
35:DA:2415:G:H4'	48:DP:66:GLY:CA	2.17	0.75
39:DE:73:GLU:HG3	39:DE:74:PRO:HD2	1.68	0.75
48:DP:23:PRO:HD2	48:DP:33:ARG:NH2	2.02	0.75
48:DP:65:ARG:HD2	48:DP:65:ARG:H	1.52	0.75
58:DZ:144:LEU:HD11	58:DZ:150:LEU:HD12	1.66	0.75
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	2.01	0.74
31:B6:15:GLU:OE1	31:B6:18:ARG:HG3	1.87	0.74
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.69	0.74
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.52	0.74
39:BE:134:ILE:HG12	39:BE:134:ILE:O	1.87	0.74
53:BU:90:VAL:HG12	53:BU:91:ASP:N	2.01	0.74
57:BY:87:LYS:O	57:BY:88:LYS:HB2	1.87	0.74
1:CA:617:G:H1	1:CA:623:C:H42	1.35	0.74
12:CL:83:VAL:HG21	12:CL:100:ILE:CG2	2.16	0.74
19:CS:29:ARG:C	19:CS:29:ARG:HD2	2.11	0.74
22:CW:66:U:H2'	22:CW:67:C:C6	2.22	0.74
25:D0:82:ARG:HG3	25:D0:82:ARG:O	1.84	0.74
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:60:TYR:HD2	45:DK:64:SER:HB3	1.52	0.74
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.45	0.74
10:AJ:81:THR:C	10:AJ:83:GLU:H	1.93	0.74
24:AY:31:ARG:HG2	45:BK:25:PRO:HG3	1.67	0.74
26:B1:29:GLY:HA3	35:BA:2396:G:O2'	1.87	0.74
45:BK:25:PRO:O	45:BK:29:GLN:HG2	1.87	0.74
47:BO:105:GLU:HA	47:BO:108:GLU:HG3	1.68	0.74
24:CY:113:GLU:CD	24:CY:113:GLU:H	1.94	0.74
24:CY:190:VAL:HB	24:CY:315:VAL:HG12	1.67	0.74
38:DD:92:ILE:HG21	38:DD:104:TYR:CD2	2.21	0.74
39:DE:32:PRO:O	39:DE:34:VAL:HG13	1.86	0.74
39:DE:48:GLN:HG2	39:DE:78:LEU:HD12	1.70	0.74
39:DE:49:LEU:HD12	39:DE:49:LEU:H	1.51	0.74
11:AK:84:VAL:HG23	11:AK:110:ASP:HA	1.69	0.74
39:BE:48:GLN:HE21	39:BE:78:LEU:CD1	2.00	0.74
41:BG:76:SER:HB2	41:BG:83:ARG:CG	2.17	0.74
42:BH:115:VAL:HG13	42:BH:148:ILE:HD11	1.69	0.74
45:BK:60:TYR:HD2	45:BK:64:SER:HB3	1.51	0.74
47:BO:63:VAL:HG23	47:BO:64:ARG:HG3	1.69	0.74
48:BP:88:LEU:HD11	48:BP:95:VAL:HG21	1.69	0.74
57:BY:2:ARG:C	57:BY:4:LYS:H	1.94	0.74
57:BY:76:CYS:HB3	57:BY:96:ILE:CD1	2.16	0.74
24:CY:231:VAL:CG1	24:CY:246:ASP:HB3	2.16	0.74
25:D0:41:ARG:H	25:D0:41:ARG:CD	1.98	0.74
25:D0:43:THR:HG22	35:DA:2331:G:O2'	1.87	0.74
26:D1:3:LYS:HG3	26:D1:4:VAL:N	1.99	0.74
35:DA:1711:C:H2'	35:DA:1712:C:H6	1.52	0.74
40:DF:22:ALA:CA	40:DF:26:ALA:HB2	2.17	0.74
57:DY:47:LYS:HD2	57:DY:47:LYS:N	2.02	0.74
7:AG:115:ARG:HB2	7:AG:118:VAL:HG22	1.69	0.74
12:AL:83:VAL:HG21	12:AL:100:ILE:CG2	2.16	0.74
35:BA:1257:C:H4'	40:BF:83:PHE:CE2	2.21	0.74
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.21	0.74
38:BD:102:LYS:C	38:BD:103:ARG:HG2	2.10	0.74
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.51	0.74
56:BX:15:GLU:CD	56:BX:15:GLU:H	1.95	0.74
56:BX:30:VAL:HG12	56:BX:31:HIS:N	2.01	0.74
1:CA:411:A:H62	1:CA:413:G:H21	1.36	0.74
1:CA:1471:G:O2'	1:CA:1472:U:H5'	1.86	0.74
3:CC:70:VAL:HG12	3:CC:71:ALA:H	1.48	0.74
13:CM:108:ARG:HH11	13:CM:108:ARG:HA	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DI:54:GLN:HA	59:DI:57:ARG:HD2	1.69	0.74
47:DO:63:VAL:HG23	47:DO:64:ARG:HG3	1.69	0.74
1:AA:630:G:H2'	1:AA:631:G:H5"	1.69	0.74
1:AA:1057:G:H5"	3:AC:154:SER:HB2	1.68	0.74
41:BG:133:LEU:HD11	41:BG:157:ILE:HD11	1.69	0.74
45:BK:29:GLN:HA	45:BK:29:GLN:HE21	1.50	0.74
47:BO:87:ILE:HG22	47:BO:88:ASN:O	1.86	0.74
52:BT:115:ARG:HA	52:BT:115:ARG:HE	1.51	0.74
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.22	0.74
2:CB:172:ILE:H	2:CB:172:ILE:CD1	1.98	0.74
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.53	0.74
11:CK:84:VAL:HG23	11:CK:110:ASP:HA	1.69	0.74
19:CS:79:THR:O	19:CS:80:TYR:HB2	1.85	0.74
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.02	0.74
24:CY:269:ILE:HD13	49:DQ:79:LEU:HD13	1.68	0.74
27:D2:69:ARG:HH12	35:DA:111:A:C5'	2.00	0.74
30:D5:16:ARG:HD2	30:D5:20:ARG:HH21	1.50	0.74
1:AA:579:G:H5'	1:AA:728:A:H1'	1.68	0.74
24:AY:10:LEU:HD12	24:AY:11:GLU:N	2.03	0.74
24:AY:188:ARG:HB2	24:AY:310:GLN:HG2	1.70	0.74
35:BA:330:A:C2	35:BA:1210:A:H2'	2.20	0.74
38:BD:235:GLY:O	38:BD:237:GLU:N	2.21	0.74
2:CB:71:VAL:HG23	2:CB:164:VAL:HG13	1.70	0.74
2:CB:102:LEU:HB3	2:CB:180:LEU:HD12	1.69	0.74
24:CY:68:ASP:CG	24:CY:91:LEU:HD11	2.13	0.74
24:CY:306:GLU:HG3	24:CY:307:TRP:H	1.51	0.74
54:DV:46:VAL:HG22	54:DV:47:VAL:N	2.01	0.74
1:AA:979:C:H3'	1:AA:980:C:C5'	2.17	0.74
22:AV:21:A:H2'	22:AV:22:G:H5"	1.68	0.74
24:AY:251:VAL:HG11	24:AY:279:LEU:HD12	1.68	0.74
39:BE:23:VAL:HG12	39:BE:173:VAL:HG21	1.69	0.74
40:BF:38:ARG:O	40:BF:42:ALA:HB2	1.87	0.74
42:BH:13:LYS:HD3	42:BH:14:GLY:N	1.95	0.74
48:BP:65:ARG:HD2	48:BP:65:ARG:H	1.51	0.74
1:CA:673:G:H2'	1:CA:674:G:C8	2.21	0.74
8:CH:51:VAL:HG11	8:CH:60:ARG:HH11	1.53	0.74
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.69	0.74
22:CW:48:C:H4'	22:CW:49:C:H5"	1.69	0.74
31:D6:15:GLU:CG	31:D6:18:ARG:HE	2.00	0.74
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.70	0.74
39:DE:55:ASN:C	39:DE:57:LYS:H	1.95	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DI:92:VAL:O	59:DI:120:ILE:HG22	1.87	0.74
1:AA:638:G:O2'	1:AA:639:G:H5'	1.88	0.74
12:AL:55:VAL:HG12	12:AL:56:ALA:N	1.99	0.74
24:AY:74:GLU:O	24:AY:78:GLU:HG3	1.86	0.74
40:BF:8:GLN:CB	40:BF:126:VAL:HA	2.17	0.74
57:BY:16:ALA:HA	57:BY:21:LYS:HD2	1.70	0.74
57:BY:46:LYS:HD3	57:BY:47:LYS:NZ	2.03	0.74
1:CA:491:G:H2'	1:CA:492:G:H8	1.51	0.74
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.22	0.74
22:CW:8:U:H2'	22:CW:8:U:O2	1.84	0.74
24:CY:113:GLU:HA	24:CY:175:ASN:N	2.02	0.74
35:DA:405:U:H3'	35:DA:406:G:H5'	1.69	0.74
35:DA:953:A:O2'	35:DA:954:G:H5'	1.86	0.74
35:DA:1785:A:OP1	35:DA:1982:C:H5'	1.87	0.74
39:DE:131:ALA:HB1	39:DE:133:LYS:HG3	1.70	0.74
39:DE:134:ILE:HG12	39:DE:134:ILE:O	1.86	0.74
42:DH:159:GLU:HG3	42:DH:160:LYS:H	1.53	0.74
59:DI:10:GLU:O	59:DI:12:LEU:HD23	1.88	0.74
47:DO:10:VAL:HG21	47:DO:16:ALA:O	1.87	0.74
48:DP:115:LEU:HA	48:DP:134:ALA:HB2	1.69	0.74
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.68	0.74
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.67	0.74
57:DY:49:VAL:HA	57:DY:53:PRO:HG3	1.69	0.74
4:AD:59:ARG:HA	4:AD:59:ARG:NE	2.02	0.74
8:AH:109:ILE:HG12	8:AH:110:ALA:H	1.52	0.74
30:B5:20:ARG:HH12	55:BW:15:ARG:NH2	1.86	0.74
35:BA:150:C:H2'	35:BA:151:C:C6	2.23	0.74
35:BA:272:G:H4'	35:BA:272(B):G:OP1	1.87	0.74
48:BP:64:LYS:O	48:BP:66:GLY:N	2.20	0.74
53:BU:27:LEU:HD23	53:BU:27:LEU:N	2.02	0.74
1:CA:826:C:H2'	1:CA:827:U:H6	1.53	0.74
3:CC:9:GLY:HA2	3:CC:12:LEU:HD23	1.70	0.74
5:CE:126:ARG:HH11	5:CE:126:ARG:HG3	1.51	0.74
9:CI:28:VAL:HA	9:CI:63:ILE:O	1.87	0.74
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.03	0.74
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.52	0.74
35:DA:494:G:H21	55:DW:57:ASN:HD21	1.33	0.74
35:DA:614(A):U:H5"	35:DA:614(B):G:OP1	1.88	0.74
41:DG:76:SER:CB	41:DG:84:LYS:H	2.01	0.74
42:DH:115:VAL:HG13	42:DH:148:ILE:HD11	1.69	0.74
30:B5:2:ALA:CA	35:BA:2015:A:H1'	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:33:ASN:ND2	33:B8:34:TRP:N	2.33	0.74
39:BE:47:VAL:O	39:BE:80:GLU:HA	1.88	0.74
39:BE:154:LYS:HA	39:BE:154:LYS:HE3	1.70	0.74
40:BF:7:TYR:HD2	40:BF:16:GLY:H	1.32	0.74
40:BF:132:VAL:HG13	40:BF:133:ASN:H	1.53	0.74
1:CA:1291:G:H4'	9:CI:39:GLY:HA3	1.70	0.74
11:CK:87:THR:HG22	11:CK:88:GLY:H	1.51	0.74
35:DA:769:G:O2'	35:DA:770:G:H5'	1.88	0.74
35:DA:1358:G:O2'	35:DA:1359:A:H5"	1.88	0.74
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.70	0.74
35:DA:2307:G:N2	35:DA:2308:G:H5"	2.03	0.74
35:DA:2414:G:N3	48:DP:67:MET:HE1	2.02	0.74
35:DA:2693:A:H2'	35:DA:2694:G:H8	1.53	0.74
40:DF:102:PRO:HB2	40:DF:105:VAL:HG23	1.70	0.74
59:DI:75:LEU:CB	59:DI:141:LYS:HB2	2.17	0.74
47:DO:98:VAL:HG12	47:DO:117:LEU:HB3	1.70	0.74
52:DT:88:ILE:CG2	52:DT:89:VAL:HG23	2.18	0.74
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.88	0.73
2:AB:92:TYR:CE2	2:AB:151:GLY:HA3	2.23	0.73
22:AW:5:G:H1'	22:AW:69:G:N2	2.03	0.73
22:AW:17:C:H5	35:BA:2181:G:H5'	1.52	0.73
22:AW:23:A:H2'	22:AW:24:G:H8	1.52	0.73
33:B8:32:LEU:HD11	35:BA:2392:A:P	2.28	0.73
35:BA:1037:G:H1	35:BA:1118:C:H42	1.36	0.73
35:BA:1468:C:H2'	35:BA:1469:A:H8	1.52	0.73
42:BH:125:VAL:HG12	42:BH:125:VAL:O	1.88	0.73
43:BI:29:TYR:C	43:BI:32:PRO:HD2	2.13	0.73
45:BK:58:THR:HB	45:BK:66:THR:HG22	1.67	0.73
50:BR:4:LEU:C	50:BR:6:SER:H	1.96	0.73
58:BZ:111:VAL:HG13	58:BZ:112:ARG:N	2.03	0.73
1:CA:625:G:H2'	1:CA:626:U:C6	2.23	0.73
4:CD:173:TRP:O	4:CD:186:LEU:HB2	1.87	0.73
11:CK:29:ILE:HG22	11:CK:44:SER:CB	2.18	0.73
35:DA:272:G:H4'	35:DA:272(B):G:OP1	1.87	0.73
35:DA:601:C:H5"	40:DF:108:LYS:HZ1	1.53	0.73
59:DI:38:LEU:H	59:DI:38:LEU:CD1	1.98	0.73
57:DY:87:LYS:O	57:DY:88:LYS:HB2	1.86	0.73
5:AE:136:MET:HB3	5:AE:140:ARG:HH12	1.51	0.73
24:AY:33:LEU:O	24:AY:36:PRO:HD3	1.88	0.73
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.52	0.73
35:BA:2127:G:HO2'	35:BA:2173:A:H2	1.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.00	0.73
38:BD:25:THR:HG21	38:BD:81:ALA:HB1	1.70	0.73
48:BP:17:LYS:C	48:BP:19:VAL:H	1.96	0.73
2:CB:84:GLU:HG3	2:CB:215:LEU:HB3	1.68	0.73
15:CO:23:GLY:O	15:CO:24:SER:HB3	1.88	0.73
24:CY:65:LEU:HA	24:CY:68:ASP:CB	2.17	0.73
25:D0:23:VAL:HA	25:D0:38:VAL:HG22	1.70	0.73
28:D3:44:ARG:O	28:D3:48:GLU:HG3	1.89	0.73
39:DE:69:LYS:NZ	39:DE:89:ASP:HA	2.03	0.73
55:DW:82:LEU:HB2	55:DW:98:LYS:HB2	1.67	0.73
58:DZ:10:ARG:H	58:DZ:37:VAL:HA	1.53	0.73
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.04	0.73
35:BA:847:U:H2'	35:BA:848:G:H5"	1.70	0.73
35:BA:2117:A:H61	35:BA:2172:U:H3	1.36	0.73
54:BV:24:LYS:HA	54:BV:92:THR:HG23	1.70	0.73
54:BV:49:THR:HB	54:BV:50:PRO:CD	2.18	0.73
1:CA:1504:G:OP1	1:CA:1507:A:H4'	1.88	0.73
2:CB:89:GLY:O	2:CB:90:MET:HE2	1.88	0.73
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.89	0.73
8:CH:30:ARG:HB3	8:CH:30:ARG:NH1	2.03	0.73
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.69	0.73
31:D6:15:GLU:OE1	31:D6:18:ARG:CD	2.36	0.73
35:DA:1547:C:O2'	35:DA:1548:C:H5'	1.87	0.73
35:DA:2123:G:H2'	35:DA:2124:G:C8	2.22	0.73
39:DE:81:ILE:O	39:DE:82:ARG:HB2	1.86	0.73
39:DE:117:MET:O	39:DE:118:LYS:HB2	1.86	0.73
41:DG:129:GLY:CA	41:DG:163:ALA:HB3	2.18	0.73
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.17	0.73
58:DZ:163:LEU:HD23	58:DZ:164:ALA:N	2.03	0.73
2:AB:54:THR:O	2:AB:58:ILE:HG12	1.87	0.73
20:AT:13:LEU:C	20:AT:13:LEU:HD12	2.14	0.73
22:AW:23:A:H2'	22:AW:24:G:C8	2.23	0.73
25:B0:27:GLU:HB3	35:BA:856:C:H1'	1.69	0.73
35:BA:2123:G:H2'	35:BA:2124:G:C8	2.23	0.73
38:BD:155:LEU:HD23	38:BD:177:LEU:HD22	1.69	0.73
42:BH:25:LYS:HB3	42:BH:34:GLU:HG2	1.70	0.73
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.88	0.73
35:DA:882:G:H2'	35:DA:883:G:H8	1.53	0.73
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.87	0.73
42:DH:20:ALA:HB3	42:DH:23:ARG:HB2	1.70	0.73
59:DI:109:ILE:HB	59:DI:130:TYR:OH	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.18	0.73
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.02	0.73
1:AA:826:C:H2'	1:AA:827:U:H6	1.52	0.73
2:AB:84:GLU:HG3	2:AB:215:LEU:HB3	1.68	0.73
24:AY:249:VAL:HG22	24:AY:250:ARG:N	2.03	0.73
40:BF:181:LEU:HD11	40:BF:186:ILE:HD11	1.69	0.73
34:D9:11:CYS:HB3	34:D9:13:LYS:H	1.53	0.73
35:DA:796:C:H2'	35:DA:797:C:C6	2.24	0.73
35:DA:991:C:H5'	35:DA:991:C:H6	1.53	0.73
35:DA:1019:U:O2'	35:DA:1021:A:H2	1.72	0.73
35:DA:1115:G:H2'	35:DA:1116:C:C6	2.22	0.73
40:DF:26:ALA:O	40:DF:27:GLU:HG3	1.88	0.73
45:DK:25:PRO:O	45:DK:29:GLN:HG2	1.89	0.73
45:DK:93:ARG:NH2	58:DZ:112:ARG:HH11	1.86	0.73
46:DN:13:TRP:O	46:DN:135:PRO:HD2	1.89	0.73
46:DN:46:VAL:HG13	46:DN:48:MET:HG3	1.69	0.73
53:DU:90:VAL:HG12	53:DU:91:ASP:N	2.02	0.73
1:AA:16:A:O2'	1:AA:17:U:H5'	1.88	0.73
1:AA:1411:C:O2'	1:AA:1412:C:H5'	1.88	0.73
8:AH:109:ILE:HD11	8:AH:120:THR:HG21	1.71	0.73
35:BA:882:G:H2'	35:BA:883:G:H8	1.54	0.73
35:BA:1358:G:O2'	35:BA:1359:A:H5"	1.89	0.73
47:BO:15:GLY:O	47:BO:46:ALA:HB1	1.87	0.73
53:BU:88:ILE:HB	53:BU:90:VAL:HG23	1.71	0.73
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.70	0.73
55:BW:82:LEU:HB2	55:BW:98:LYS:HB2	1.70	0.73
1:CA:404:U:H2'	1:CA:405:U:C6	2.23	0.73
1:CA:1468:A:H2'	1:CA:1469:G:O4'	1.87	0.73
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.23	0.73
30:D5:29:THR:HG21	35:DA:2814:C:O2'	1.89	0.73
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.54	0.73
39:DE:23:VAL:HG12	39:DE:173:VAL:HG21	1.70	0.73
42:DH:88:LEU:O	42:DH:89:ILE:HG23	1.89	0.73
59:DI:75:LEU:HD13	59:DI:141:LYS:HD2	1.71	0.73
50:DR:24:GLN:HE22	50:DR:36:THR:HG21	1.53	0.73
57:DY:31:LEU:HB2	57:DY:32:PRO:HA	1.70	0.73
1:AA:1117:G:H8	1:AA:1117:G:H5'	1.52	0.73
4:AD:173:TRP:O	4:AD:186:LEU:HB2	1.87	0.73
22:AV:68:C:H2'	22:AV:69:G:H5"	1.71	0.73
28:B3:11:SER:OG	28:B3:13:ILE:HD13	1.88	0.73
36:BB:8:U:H5'	36:BB:8:U:H6	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:53:LYS:HE3	47:BO:56:ASP:OD1	1.88	0.73
48:BP:23:PRO:HB2	48:BP:33:ARG:CG	2.18	0.73
22:CW:30:G:H2'	22:CW:31:A:H8	1.52	0.73
24:CY:251:VAL:HG21	24:CY:276:LEU:HD23	1.68	0.73
26:D1:11:ARG:NH2	35:DA:1365:A:O2'	2.20	0.73
35:DA:598:G:H5'	48:DP:15:ARG:HB3	1.71	0.73
38:DD:244:ARG:HD2	38:DD:245:PRO:HB3	1.71	0.73
45:DK:98:ARG:HD2	45:DK:139:VAL:HG22	1.71	0.73
47:DO:105:GLU:HA	47:DO:108:GLU:HG3	1.69	0.73
48:DP:147:LEU:HD12	48:DP:148:LEU:HD22	1.71	0.73
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.88	0.73
57:DY:2:ARG:C	57:DY:4:LYS:H	1.97	0.73
58:DZ:8:TYR:N	58:DZ:8:TYR:CD1	2.57	0.73
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.89	0.73
9:AI:99:LEU:HB3	9:AI:101:PHE:CE1	2.24	0.73
11:AK:29:ILE:HG22	11:AK:44:SER:CB	2.18	0.73
22:AW:38:A:C3'	22:AW:39:U:H5"	2.18	0.73
25:B0:51:VAL:N	25:B0:62:LEU:HD12	2.04	0.73
35:BA:662:G:OP1	48:BP:18:ARG:HD2	1.88	0.73
35:BA:2327:A:H2'	35:BA:2328:A:C8	2.24	0.73
35:BA:2468:G:H2'	35:BA:2476:A:N7	2.04	0.73
41:BG:124:SER:HB2	41:BG:131:TYR:CD1	2.24	0.73
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.87	0.73
48:BP:61:ARG:C	48:BP:62:LEU:HD13	2.14	0.73
4:CD:119:GLN:HG3	4:CD:123:HIS:HD2	1.49	0.73
7:CG:80:VAL:HB	7:CG:83:ALA:HB3	1.70	0.73
24:CY:258:ILE:C	24:CY:258:ILE:HD12	2.14	0.73
33:D8:31:HIS:O	33:D8:33:ASN:N	2.22	0.73
35:DA:1494:A:O2'	35:DA:1495:A:H5"	1.88	0.73
48:DP:88:LEU:HD11	48:DP:95:VAL:HG21	1.69	0.73
51:DS:58:LEU:HD12	51:DS:59:LYS:HG3	1.71	0.73
57:DY:8:LYS:HD2	57:DY:8:LYS:N	2.03	0.73
1:AA:491:G:H2'	1:AA:492:G:H8	1.52	0.73
4:AD:135:LEU:H	4:AD:135:LEU:HD22	1.53	0.73
24:AY:33:LEU:H	45:BK:29:GLN:HE22	1.34	0.73
37:BC:168:THR:CA	37:BC:173:ALA:HB2	2.16	0.73
38:BD:244:ARG:HD2	38:BD:245:PRO:HB3	1.70	0.73
41:BG:111:LEU:HD11	41:BG:120:LEU:HD11	1.71	0.73
48:BP:58:THR:O	48:BP:61:ARG:NE	2.17	0.73
48:BP:112:LEU:HD23	48:BP:113:LYS:N	2.03	0.73
1:CA:1008:C:H2'	1:CA:1009:G:O4'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1329:A:H5'	13:CM:29:ARG:HD2	1.71	0.73
4:CD:15:GLU:HG3	4:CD:63:LYS:HE2	1.71	0.73
22:CV:1:G:H2'	22:CV:2:C:H6	1.53	0.73
27:D2:69:ARG:HH12	35:DA:111:A:H5"	1.53	0.73
35:DA:150:C:H2'	35:DA:151:C:C6	2.23	0.73
35:DA:662:G:OP1	48:DP:18:ARG:HD2	1.88	0.73
46:DN:38:HIS:O	53:DU:67:ALA:HB1	1.88	0.73
46:DN:67:LEU:O	46:DN:88:GLU:HG3	1.89	0.73
48:DP:61:ARG:C	48:DP:62:LEU:HD13	2.12	0.73
57:DY:16:ALA:HA	57:DY:21:LYS:HD2	1.71	0.73
1:AA:503:C:H2'	1:AA:504:C:H6	1.53	0.73
4:AD:15:GLU:HG3	4:AD:63:LYS:HE2	1.70	0.73
7:AG:108:ALA:O	7:AG:119:ARG:HD2	1.88	0.73
24:AY:102:TYR:O	24:AY:105:THR:HG22	1.89	0.73
42:BH:88:LEU:O	42:BH:89:ILE:HG23	1.88	0.73
52:BT:88:ILE:HG22	52:BT:89:VAL:N	2.03	0.73
52:BT:88:ILE:CG2	52:BT:89:VAL:HG23	2.18	0.73
57:BY:47:LYS:N	57:BY:47:LYS:HD2	2.04	0.73
58:BZ:79:ARG:O	58:BZ:80:ARG:HB2	1.87	0.73
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.71	0.73
25:D0:41:ARG:HD2	25:D0:41:ARG:N	2.02	0.73
25:D0:51:VAL:N	25:D0:62:LEU:HD12	2.04	0.73
33:D8:33:ASN:C	33:D8:33:ASN:ND2	2.47	0.73
35:DA:2468:G:H2'	35:DA:2476:A:N7	2.04	0.73
40:DF:18:ARG:HG2	40:DF:19:GLU:H	1.54	0.73
41:DG:67:LYS:H	41:DG:67:LYS:CD	2.01	0.73
42:DH:89:ILE:HD12	42:DH:90:LYS:H	1.53	0.73
52:DT:88:ILE:HG22	52:DT:89:VAL:N	2.03	0.73
1:AA:404:U:H2'	1:AA:405:U:C6	2.24	0.72
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.89	0.72
2:AB:71:VAL:HG23	2:AB:164:VAL:HG13	1.71	0.72
3:AC:134:ILE:HG21	3:AC:168:ALA:HB3	1.68	0.72
24:AY:87:LEU:O	24:AY:87:LEU:HD23	1.89	0.72
28:B3:31:LEU:HD12	35:BA:1157:G:O2'	1.89	0.72
35:BA:1711:C:H2'	35:BA:1712:C:C6	2.24	0.72
41:BG:7:LEU:HA	41:BG:10:LYS:HB3	1.71	0.72
48:BP:115:LEU:HA	48:BP:134:ALA:HB2	1.69	0.72
51:BS:58:LEU:HD12	51:BS:59:LYS:HG3	1.69	0.72
54:BV:21:ARG:HB3	54:BV:91:TYR:HB2	1.71	0.72
20:CT:26:ASN:HD22	20:CT:27:LYS:N	1.87	0.72
26:D1:86:SER:O	26:D1:90:ILE:HG12	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:48:GLU:C	30:D5:50:GLY:H	1.97	0.72
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.14	0.72
41:DG:58:GLN:O	41:DG:61:ALA:HB3	1.89	0.72
4:AD:31:CYS:C	4:AD:33:MET:H	1.98	0.72
7:AG:23:VAL:HG13	7:AG:43:PHE:CE2	2.24	0.72
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.71	0.72
30:B5:2:ALA:HA	35:BA:2015:A:C1'	2.16	0.72
35:BA:405:U:H3'	35:BA:406:G:H5'	1.71	0.72
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.52	0.72
42:BH:159:GLU:HG3	42:BH:160:LYS:H	1.54	0.72
1:CA:32:A:H2'	1:CA:33:A:C8	2.25	0.72
4:CD:135:LEU:HD22	4:CD:135:LEU:H	1.54	0.72
30:D5:2:ALA:HA	35:DA:2015:A:C1'	2.15	0.72
36:DB:8:U:H5'	36:DB:8:U:H6	1.54	0.72
48:DP:17:LYS:C	48:DP:19:VAL:H	1.97	0.72
35:BA:2873:A:C2	50:BR:6:SER:HB3	2.23	0.72
39:BE:101:ARG:HH21	39:BE:171:GLU:N	1.88	0.72
10:CJ:38:ILE:HG13	10:CJ:71:LEU:HB3	1.70	0.72
20:CT:74:LYS:C	20:CT:76:ALA:H	1.96	0.72
22:CV:41:C:H2'	22:CV:42:C:H5'	1.71	0.72
24:CY:16:TYR:CA	24:CY:55:LEU:HD11	2.17	0.72
27:D2:7:ARG:HD2	27:D2:7:ARG:H	1.54	0.72
35:DA:2036:C:H5'	35:DA:2036:C:C6	2.20	0.72
35:DA:2791:C:N4	35:DA:2803:C:H42	1.86	0.72
36:DB:48:A:H4'	51:DS:95:HIS:HD2	1.54	0.72
38:DD:155:LEU:HD23	38:DD:177:LEU:HD22	1.72	0.72
48:DP:23:PRO:HB2	48:DP:33:ARG:CG	2.18	0.72
1:AA:617:G:H1	1:AA:623:C:H42	1.34	0.72
1:AA:1342:C:H1'	9:AI:124:GLN:HE22	1.55	0.72
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.70	0.72
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.71	0.72
24:AY:33:LEU:HD22	24:AY:36:PRO:HG2	1.71	0.72
30:B5:48:GLU:C	30:B5:50:GLY:H	1.98	0.72
35:BA:1779:U:C5	35:BA:1784:A:N7	2.56	0.72
39:BE:1:MET:HG2	39:BE:83:ASP:O	1.88	0.72
40:BF:23:ASP:O	40:BF:115:ALA:HA	1.89	0.72
42:BH:41:MET:HG3	42:BH:55:PRO:HD3	1.71	0.72
48:BP:147:LEU:CD1	48:BP:148:LEU:H	2.01	0.72
57:BY:27:VAL:HA	57:BY:28:LYS:HZ1	1.54	0.72
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.19	0.72
8:CH:109:ILE:HD11	8:CH:120:THR:HG21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.19	0.72
30:D5:40:LYS:CE	30:D5:46:CYS:H	2.02	0.72
31:D6:15:GLU:OE2	31:D6:43:CYS:SG	2.47	0.72
36:DB:12:C:H4'	36:DB:13:A:OP1	1.89	0.72
36:DB:65:C:O2'	36:DB:66:A:H5'	1.89	0.72
40:DF:132:VAL:HG13	40:DF:133:ASN:H	1.55	0.72
48:DP:58:THR:O	48:DP:61:ARG:NE	2.17	0.72
58:DZ:111:VAL:HG22	58:DZ:112:ARG:H	1.54	0.72
1:AA:625:G:H2'	1:AA:626:U:C6	2.24	0.72
3:AC:70:VAL:HG12	3:AC:71:ALA:H	1.52	0.72
30:B5:29:THR:HG21	35:BA:2814:C:O2'	1.89	0.72
35:BA:654(M):C:H2'	35:BA:654(N):G:H8	1.54	0.72
35:BA:833:U:H2'	35:BA:834:C:C6	2.25	0.72
43:BI:81:VAL:HG21	43:BI:144:VAL:HG13	1.71	0.72
51:BS:85:VAL:HG23	51:BS:106:ARG:HB2	1.69	0.72
53:BU:66:ASN:HD21	53:BU:70:ARG:HE	1.35	0.72
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.71	0.72
2:CB:69:LEU:HB3	2:CB:162:ILE:HG22	1.69	0.72
9:CI:99:LEU:HB3	9:CI:101:PHE:CE1	2.24	0.72
35:DA:494:G:H5'	35:DA:494:G:C8	2.24	0.72
40:DF:2:LYS:HE3	40:DF:25:PRO:HB2	1.70	0.72
4:AD:13:ARG:O	4:AD:15:GLU:N	2.23	0.72
15:AO:50:HIS:O	15:AO:53:HIS:HB3	1.90	0.72
22:AV:72:C:H5'	22:AV:72:C:C6	2.23	0.72
35:BA:1693:U:H1'	38:BD:14:ARG:HH12	1.55	0.72
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.14	0.72
40:BF:22:ALA:CA	40:BF:26:ALA:HB2	2.19	0.72
46:BN:58:ASP:C	46:BN:60:ILE:H	1.96	0.72
48:BP:147:LEU:HD12	48:BP:148:LEU:HD22	1.72	0.72
51:BS:89:ARG:HB3	51:BS:92:TYR:HB3	1.72	0.72
58:BZ:10:ARG:HB3	58:BZ:36:LYS:HB3	1.71	0.72
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.25	0.72
1:CA:1329:A:C5'	13:CM:29:ARG:HD2	2.19	0.72
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.69	0.72
27:D2:2:LYS:HE2	27:D2:52:ASP:OD1	1.89	0.72
35:DA:493:G:C3'	35:DA:494:G:H5"	2.19	0.72
35:DA:1022:G:N2	35:DA:1142(A):A:C2	2.56	0.72
35:DA:1717:G:H3'	35:DA:1718:G:H5"	1.71	0.72
39:DE:47:VAL:O	39:DE:80:GLU:HA	1.89	0.72
59:DI:92:VAL:HB	59:DI:120:ILE:CG2	2.18	0.72
50:DR:24:GLN:NE2	50:DR:36:THR:HG21	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:74:ALA:HB1	51:DS:103:GLU:HG3	1.71	0.72
54:DV:49:THR:HB	54:DV:50:PRO:CD	2.17	0.72
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.24	0.72
19:AS:63:THR:N	19:AS:66:MET:HE3	2.03	0.72
29:B4:42:CYS:SG	29:B4:46:ASN:HB3	2.29	0.72
35:BA:1022:G:N2	35:BA:1142(A):A:H2	1.86	0.72
37:BC:82:LYS:O	37:BC:86:ALA:HB3	1.89	0.72
45:BK:121:GLU:O	45:BK:125:ARG:HG3	1.88	0.72
46:BN:13:TRP:O	46:BN:135:PRO:HD2	1.89	0.72
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.24	0.72
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.24	0.72
35:DA:2473:U:H2'	35:DA:2473:U:O2	1.90	0.72
42:DH:41:MET:HG3	42:DH:55:PRO:HD3	1.70	0.72
50:DR:4:LEU:C	50:DR:6:SER:H	1.97	0.72
51:DS:106:ARG:HH11	51:DS:108:GLY:N	1.87	0.72
26:B1:81:LYS:HG2	35:BA:271(H):G:H4'	1.71	0.72
28:B3:2:PRO:HD2	28:B3:39:ASP:CB	2.20	0.72
35:BA:1396:U:H2'	35:BA:1396:U:O2	1.90	0.72
35:BA:2148:G:O2'	35:BA:2149:G:H5'	1.89	0.72
39:BE:48:GLN:HG2	39:BE:78:LEU:HD12	1.71	0.72
41:BG:156:ASP:O	41:BG:157:ILE:HG23	1.90	0.72
50:BR:81:ASP:O	50:BR:82:GLU:HB2	1.88	0.72
55:BW:4:LYS:HG2	55:BW:106:ILE:HG22	1.71	0.72
3:CC:88:ARG:NH1	3:CC:101:LEU:HB3	2.03	0.72
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.04	0.72
35:DA:1116:C:C2'	35:DA:1117:G:H5'	2.20	0.72
35:DA:1981:A:H5"	35:DA:1982:C:OP2	1.90	0.72
39:DE:2:LYS:HE2	39:DE:95:ILE:HG22	1.71	0.72
40:DF:3:GLU:HA	40:DF:24:LEU:CG	2.19	0.72
54:DV:21:ARG:HB3	54:DV:91:TYR:HB2	1.72	0.72
1:AA:411:A:H62	1:AA:413:G:H21	1.35	0.72
1:AA:1008:C:H2'	1:AA:1009:G:O4'	1.90	0.72
7:AG:80:VAL:HB	7:AG:83:ALA:HB3	1.70	0.72
10:AJ:22:LYS:NZ	10:AJ:90:LEU:HD13	2.05	0.72
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.04	0.72
41:BG:131:TYR:O	41:BG:159:VAL:HG12	1.88	0.72
2:CB:178:ARG:HH21	8:CH:74:PRO:HG3	1.54	0.72
28:D3:31:LEU:HD12	35:DA:1157:G:O2'	1.89	0.72
31:D6:26:ASN:HD22	31:D6:32:ASN:HD21	1.36	0.72
35:DA:118:A:H5'	35:DA:119:A:H8	1.54	0.72
35:DA:877:U:O2'	35:DA:878:A:H5"	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1711:C:H2'	35:DA:1712:C:C6	2.24	0.72
45:DK:12:LEU:HD21	45:DK:23:VAL:HG13	1.69	0.72
6:AF:61:LEU:O	6:AF:62:TRP:HB2	1.88	0.72
8:AH:87:SER:HB2	8:AH:93:VAL:HB	1.70	0.72
35:BA:57:C:O2'	35:BA:58:G:H5'	1.90	0.72
35:BA:620:G:H4'	35:BA:621:A:H5"	1.72	0.72
35:BA:769:G:O2'	35:BA:770:G:H5'	1.89	0.72
35:BA:1064:C:H4'	45:BK:89:HIS:CD2	2.21	0.72
35:BA:1223:G:H5'	35:BA:1224:C:OP2	1.90	0.72
35:BA:1494:A:O2'	35:BA:1495:A:H5"	1.90	0.72
35:BA:2118:U:H5	35:BA:2148:G:O2'	1.73	0.72
43:BI:71:ILE:HG23	43:BI:72:LEU:HD22	1.72	0.72
50:BR:24:GLN:HE22	50:BR:36:THR:HG21	1.55	0.72
51:BS:89:ARG:HD2	51:BS:92:TYR:H	1.55	0.72
1:CA:638:G:O2'	1:CA:639:G:H5'	1.90	0.72
2:CB:80:ILE:O	2:CB:80:ILE:HG13	1.90	0.72
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.90	0.72
4:CD:31:CYS:O	4:CD:31:CYS:SG	2.47	0.72
29:D4:42:CYS:SG	29:D4:46:ASN:HB3	2.29	0.72
35:DA:1037:G:H1	35:DA:1118:C:H42	1.35	0.72
40:DF:7:TYR:HD2	40:DF:16:GLY:H	1.35	0.72
50:DR:12:ARG:HE	50:DR:16:HIS:CE1	2.07	0.72
1:AA:1130:A:H1'	1:AA:1146:A:C2	2.25	0.71
1:AA:1145:C:H4'	1:AA:1146:A:H5"	1.71	0.71
2:AB:89:GLY:O	2:AB:90:MET:HE2	1.90	0.71
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.24	0.71
35:BA:877:U:O2'	35:BA:878:A:H5"	1.88	0.71
35:BA:953:A:O2'	35:BA:954:G:H5'	1.89	0.71
35:BA:1022:G:N2	35:BA:1142(A):A:C2	2.57	0.71
35:BA:2571:C:H5'	35:BA:2572:A:C5'	2.18	0.71
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.19	0.71
52:BT:35:LYS:NZ	52:BT:41:ARG:HH21	1.86	0.71
52:BT:40:THR:O	52:BT:41:ARG:HB2	1.90	0.71
52:BT:50:ILE:H	52:BT:50:ILE:HD12	1.55	0.71
53:BU:34:LYS:HE2	53:BU:34:LYS:HA	1.71	0.71
1:CA:22:G:H2'	1:CA:23:C:C6	2.24	0.71
1:CA:1145:C:H4'	1:CA:1146:A:H5"	1.70	0.71
26:D1:29:GLY:HA3	35:DA:2396:G:O2'	1.89	0.71
35:DA:2117:A:H61	35:DA:2172:U:H3	1.38	0.71
40:DF:21:ALA:C	40:DF:23:ASP:H	1.98	0.71
58:DZ:95:PRO:HA	58:DZ:128:VAL:O	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:163:PHE:HA	2:AB:185:ILE:O	1.90	0.71
8:AH:35:ILE:HG23	8:AH:111:ILE:HD13	1.69	0.71
10:AJ:38:ILE:HG13	10:AJ:71:LEU:HB3	1.70	0.71
35:BA:614(A):U:H5"	35:BA:614(B):G:OP1	1.89	0.71
35:BA:779:U:OP1	38:BD:49:ILE:HG23	1.90	0.71
39:BE:46:ALA:HA	39:BE:82:ARG:O	1.89	0.71
39:BE:120:TRP:CD2	39:BE:155:LYS:HD3	2.25	0.71
47:BO:93:PRO:HD3	47:BO:114:ILE:HD11	1.70	0.71
49:BQ:58:PHE:O	49:BQ:58:PHE:CD1	2.44	0.71
4:CD:59:ARG:HA	4:CD:59:ARG:NE	2.00	0.71
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.38	0.71
39:DE:154:LYS:HE3	39:DE:154:LYS:HA	1.70	0.71
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.20	0.71
42:DH:125:VAL:O	42:DH:125:VAL:HG12	1.89	0.71
45:DK:38:VAL:HG13	45:DK:39:LYS:HG3	1.72	0.71
46:DN:58:ASP:C	46:DN:60:ILE:H	1.97	0.71
49:DQ:109:VAL:CG1	49:DQ:113:GLN:HB2	2.19	0.71
57:DY:46:LYS:HD3	57:DY:47:LYS:HZ2	1.52	0.71
1:AA:32:A:H2'	1:AA:33:A:C8	2.24	0.71
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.20	0.71
24:AY:332:ASP:HB2	24:AY:334:GLU:OE2	1.90	0.71
39:BE:73:GLU:HG3	39:BE:74:PRO:HD2	1.73	0.71
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.70	0.71
49:BQ:55:VAL:CG2	49:BQ:56:ARG:N	2.53	0.71
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.05	0.71
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.24	0.71
1:CA:1342:C:H1'	9:CI:124:GLN:HE22	1.54	0.71
9:CI:20:ARG:HG3	9:CI:20:ARG:HH11	1.55	0.71
18:CR:59:SER:HB3	18:CR:62:GLU:HG3	1.73	0.71
39:DE:1:MET:HG2	39:DE:83:ASP:O	1.89	0.71
42:DH:157:TYR:CE1	42:DH:171:LEU:N	2.58	0.71
50:DR:81:ASP:O	50:DR:82:GLU:HB2	1.88	0.71
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.19	0.71
3:AC:88:ARG:NH1	3:AC:101:LEU:HB3	2.05	0.71
35:BA:1116:C:C2'	35:BA:1117:G:H5'	2.21	0.71
35:BA:1317:A:H2'	35:BA:1318:C:H6	1.54	0.71
36:BB:12:C:H4'	36:BB:13:A:OP1	1.90	0.71
38:BD:125:ILE:H	38:BD:125:ILE:HD12	1.55	0.71
41:BG:2:PRO:HD2	41:BG:5:VAL:HG13	1.72	0.71
41:BG:39:ILE:CD1	41:BG:92:VAL:HG12	2.20	0.71
51:BS:27:SER:HA	51:BS:88:ASP:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:36:ARG:HA	19:CS:71:LEU:HB2	1.70	0.71
35:DA:1176:G:N2	35:DA:1178:C:H1'	2.04	0.71
35:DA:1598:C:H5'	56:DX:36:LYS:HG3	1.71	0.71
40:DF:29:ASN:H	40:DF:112:MET:HE3	1.54	0.71
1:AA:77:G:H2'	1:AA:78:G:H5'	1.73	0.71
1:AA:1060:C:H5'	14:AN:45:ARG:NH2	2.06	0.71
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.25	0.71
24:AY:189:LEU:HD11	24:AY:191:ARG:HD3	1.72	0.71
35:BA:1717:G:H3'	35:BA:1718:G:H5"	1.71	0.71
40:BF:25:PRO:HG3	40:BF:119:ARG:CG	2.20	0.71
41:BG:117:PHE:O	41:BG:118:ARG:HG2	1.90	0.71
42:BH:116:GLU:O	42:BH:118:PRO:HD3	1.90	0.71
57:BY:96:ILE:HG22	57:BY:97:ARG:H	1.54	0.71
1:CA:591:U:H2'	1:CA:592:G:H8	1.54	0.71
2:CB:163:PHE:HA	2:CB:185:ILE:O	1.91	0.71
3:CC:134:ILE:HG21	3:CC:168:ALA:HB3	1.70	0.71
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.05	0.71
53:DU:91:ASP:OD2	53:DU:96:ALA:HB2	1.90	0.71
6:AF:43:LEU:H	6:AF:43:LEU:CD1	2.04	0.71
13:AM:50:GLU:O	13:AM:54:VAL:HG23	1.90	0.71
35:BA:1019:U:O2'	35:BA:1021:A:H2	1.73	0.71
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.21	0.71
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.25	0.71
4:CD:59:ARG:HE	4:CD:59:ARG:CA	2.00	0.71
12:CL:59:ARG:NH1	12:CL:65:GLU:HG2	2.05	0.71
15:CO:87:ILE:HG22	15:CO:88:ARG:N	2.03	0.71
29:D4:52:SER:HB3	41:DG:143:GLU:OE2	1.91	0.71
39:DE:51:PHE:O	39:DE:74:PRO:HB2	1.89	0.71
46:DN:25:ARG:HH11	46:DN:25:ARG:HG3	1.55	0.71
52:DT:40:THR:O	52:DT:41:ARG:HB2	1.89	0.71
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.55	0.71
3:AC:141:VAL:HG11	3:AC:202:ILE:HD12	1.73	0.71
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.91	0.71
35:BA:493:G:C3'	35:BA:494:G:H5"	2.19	0.71
35:BA:2101:G:H2'	35:BA:2102:U:O4'	1.90	0.71
48:BP:115:LEU:HD12	48:BP:115:LEU:C	2.16	0.71
54:BV:6:LYS:HG2	54:BV:37:VAL:HB	1.71	0.71
56:BX:10:ALA:O	56:BX:28:PHE:HB2	1.90	0.71
57:BY:87:LYS:HG3	57:BY:88:LYS:N	2.06	0.71
1:CA:250:A:H4'	1:CA:251:G:O5'	1.91	0.71
1:CA:1376:U:H2'	1:CA:1377:A:H8	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:85:LYS:HD3	4:CD:86:LYS:H	1.55	0.71
35:DA:598:G:C5'	48:DP:15:ARG:HB3	2.20	0.71
37:DC:168:THR:CA	37:DC:173:ALA:HB2	2.18	0.71
42:DH:35:VAL:O	42:DH:37:VAL:HG23	1.90	0.71
59:DI:111:PRO:HG2	59:DI:112:LYS:H	1.55	0.71
47:DO:93:PRO:HD3	47:DO:114:ILE:HD11	1.72	0.71
47:DO:107:ARG:NH1	52:DT:35:LYS:HD2	2.05	0.71
48:DP:57:THR:HG23	48:DP:59:LEU:HB3	1.71	0.71
58:DZ:4:ARG:HH11	58:DZ:4:ARG:HB3	1.54	0.71
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.25	0.71
1:AA:1452:C:H4'	1:AA:1456:G:C4	2.26	0.71
41:BG:161:THR:HG22	41:BG:162:THR:N	2.05	0.71
43:BI:85:GLU:O	43:BI:86:THR:HG23	1.91	0.71
48:BP:18:ARG:HB3	48:BP:18:ARG:HH11	1.53	0.71
3:CC:15:THR:CG2	3:CC:181:ASN:H	2.04	0.71
6:CF:61:LEU:O	6:CF:62:TRP:HB2	1.90	0.71
8:CH:35:ILE:HG23	8:CH:111:ILE:HD13	1.73	0.71
35:DA:1614:A:H62	55:DW:93:ALA:HB2	1.56	0.71
35:DA:2101:G:H2'	35:DA:2102:U:O4'	1.89	0.71
35:DA:2161:C:H2'	35:DA:2162:G:C8	2.26	0.71
35:DA:2287:A:N6	35:DA:2344:U:N3	2.37	0.71
49:DQ:1:MET:SD	49:DQ:2:LEU:N	2.63	0.71
55:DW:4:LYS:HG2	55:DW:106:ILE:HG22	1.71	0.71
57:DY:87:LYS:HG3	57:DY:88:LYS:N	2.05	0.71
1:AA:79:G:H1'	1:AA:80:G:H8	1.56	0.71
1:AA:1321:C:H3'	1:AA:1322:C:H5"	1.73	0.71
24:AY:118:LEU:HG	24:AY:210:VAL:HG22	1.73	0.71
30:B5:16:ARG:HD2	30:B5:20:ARG:HH21	1.56	0.71
33:B8:4:MET:HB2	33:B8:61:LEU:CD1	2.19	0.71
38:BD:32:SER:HA	38:BD:36:PRO:HG2	1.72	0.71
40:BF:3:GLU:HA	40:BF:24:LEU:CG	2.20	0.71
42:BH:89:ILE:HD12	42:BH:90:LYS:H	1.54	0.71
49:BQ:109:VAL:CG1	49:BQ:113:GLN:HB2	2.21	0.71
49:BQ:137:TYR:HD2	58:BZ:76:LEU:HD21	1.55	0.71
57:BY:46:LYS:HB3	57:BY:47:LYS:HD2	1.73	0.71
58:BZ:141:VAL:HG23	58:BZ:144:LEU:HB2	1.71	0.71
3:CC:67:THR:HA	3:CC:102:ASN:HB2	1.73	0.71
8:CH:1:MET:HE3	8:CH:3:THR:HG23	1.72	0.71
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.71	0.71
20:CT:26:ASN:HD22	20:CT:27:LYS:H	1.39	0.71
31:D6:11:LEU:HD21	31:D6:26:ASN:N	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:23:THR:HG21	35:DA:2419:U:C5'	2.21	0.71
33:D8:43:GLN:C	33:D8:44:LYS:HD2	2.15	0.71
38:DD:25:THR:HG21	38:DD:81:ALA:HB1	1.71	0.71
48:DP:115:LEU:C	48:DP:115:LEU:HD12	2.16	0.71
53:DU:52:ARG:O	53:DU:55:ARG:HG2	1.91	0.71
53:DU:70:ARG:HA	53:DU:74:LEU:O	1.91	0.71
53:DU:79:PHE:CE2	53:DU:83:LEU:HD22	2.26	0.71
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.20	0.71
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	1.90	0.71
19:AS:79:THR:O	19:AS:80:TYR:HB2	1.88	0.71
22:AV:68:C:H2'	22:AV:69:G:C5'	2.21	0.71
24:AY:26:LEU:HD13	24:AY:48:VAL:HG23	1.72	0.71
36:BB:45:A:H1'	41:BG:95:ARG:CZ	2.21	0.71
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.89	0.71
40:BF:2:LYS:HE3	40:BF:25:PRO:HB2	1.71	0.71
40:BF:184:TYR:O	40:BF:188:ARG:HB2	1.90	0.71
43:BI:79:ILE:O	43:BI:81:VAL:HG23	1.91	0.71
49:BQ:141:GLN:H	58:BZ:99:TYR:CB	1.92	0.71
52:BT:51:ARG:O	52:BT:61:PHE:HA	1.90	0.71
1:CA:1130:A:H1'	1:CA:1146:A:C2	2.26	0.71
22:CV:16:U:H3	22:CV:59:U:H3	1.37	0.71
24:CY:54:ARG:CZ	24:CY:54:ARG:HB3	2.20	0.71
24:CY:59:VAL:HA	24:CY:62:PHE:HB3	1.73	0.71
58:DZ:152:ALA:HB1	58:DZ:167:PRO:HB3	1.73	0.71
1:AA:486:U:H2'	1:AA:487:A:C8	2.26	0.70
1:AA:525:C:H2'	1:AA:526:C:H6	1.54	0.70
1:AA:591:U:H2'	1:AA:592:G:H8	1.56	0.70
22:AW:67:C:H2'	22:AW:68:C:C5	2.26	0.70
33:B8:31:HIS:O	33:B8:33:ASN:N	2.23	0.70
35:BA:999:U:H2'	35:BA:1000:A:H5"	1.74	0.70
41:BG:128:ARG:C	41:BG:130:ASN:H	1.97	0.70
43:BI:133:HIS:NE2	43:BI:135:GLU:HG2	2.05	0.70
45:BK:98:ARG:HD2	45:BK:139:VAL:HG22	1.72	0.70
57:BY:28:LYS:HA	57:BY:39:VAL:H	1.56	0.70
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.54	0.70
4:CD:13:ARG:O	4:CD:15:GLU:N	2.24	0.70
12:CL:55:VAL:HG12	12:CL:56:ALA:N	2.06	0.70
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.56	0.70
35:DA:1573:G:H2'	35:DA:1574:C:H5'	1.72	0.70
35:DA:2121:G:H2'	35:DA:2122:U:H5'	1.73	0.70
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:69:LYS:CE	39:DE:90:THR:H	2.03	0.70
59:DI:38:LEU:HD12	59:DI:38:LEU:N	2.04	0.70
48:DP:18:ARG:HB3	48:DP:18:ARG:HH11	1.55	0.70
55:DW:64:MET:HE2	55:DW:109:GLU:HG3	1.72	0.70
57:DY:28:LYS:HA	57:DY:39:VAL:H	1.54	0.70
57:DY:46:LYS:HB3	57:DY:47:LYS:HD2	1.71	0.70
7:AG:80:VAL:HG21	7:AG:85:TYR:CD1	2.25	0.70
8:AH:1:MET:HE3	8:AH:3:THR:HG23	1.71	0.70
35:BA:598:G:C5'	48:BP:15:ARG:HB3	2.21	0.70
35:BA:1981:A:H5"	35:BA:1982:C:OP2	1.91	0.70
39:BE:69:LYS:CE	39:BE:90:THR:H	2.02	0.70
41:BG:16:ARG:HH11	41:BG:31:VAL:HG11	1.55	0.70
48:BP:7:ARG:HH11	48:BP:7:ARG:HG2	1.56	0.70
53:BU:91:ASP:OD2	53:BU:96:ALA:HB2	1.90	0.70
54:BV:19:LYS:HZ3	54:BV:19:LYS:HA	1.56	0.70
1:CA:265:G:H5'	17:CQ:64:PRO:O	1.90	0.70
1:CA:1060:C:H5'	14:CN:45:ARG:NH2	2.06	0.70
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.26	0.70
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.21	0.70
10:CJ:70:ARG:HA	10:CJ:70:ARG:HE	1.56	0.70
22:CV:72:C:H5'	22:CV:72:C:H6	1.54	0.70
30:D5:20:ARG:HH12	55:DW:15:ARG:NH2	1.90	0.70
33:D8:25:MET:HB2	48:DP:62:LEU:HD21	1.72	0.70
35:DA:286:C:H2'	35:DA:287:C:H5"	1.71	0.70
35:DA:1317:A:H2'	35:DA:1318:C:H6	1.55	0.70
35:DA:1396:U:O2	35:DA:1396:U:H2'	1.90	0.70
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.55	0.70
47:DO:15:GLY:O	47:DO:46:ALA:HB1	1.90	0.70
49:DQ:34:LEU:HD11	49:DQ:129:THR:HB	1.73	0.70
51:DS:85:VAL:HG23	51:DS:106:ARG:HB2	1.71	0.70
9:AI:20:ARG:HH11	9:AI:20:ARG:HG3	1.55	0.70
9:AI:97:LYS:C	9:AI:99:LEU:H	1.98	0.70
15:AO:87:ILE:HG22	15:AO:88:ARG:N	2.04	0.70
24:AY:70:GLN:C	24:AY:72:LEU:H	1.97	0.70
25:B0:82:ARG:O	25:B0:82:ARG:HG3	1.90	0.70
35:BA:566:U:O4	54:BV:78:LYS:HE3	1.91	0.70
35:BA:1176:G:N2	35:BA:1178:C:H1'	2.05	0.70
35:BA:1685:C:O2'	35:BA:1686:C:H5"	1.90	0.70
35:BA:1946:U:H2'	35:BA:1947:C:H6	1.56	0.70
48:BP:75:ILE:HD13	48:BP:77:ARG:HD2	1.73	0.70
53:BU:95:LEU:CD1	54:BV:11:GLN:HG3	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1237:C:H4'	1:CA:1334:G:N2	2.06	0.70
9:CI:97:LYS:C	9:CI:99:LEU:H	1.99	0.70
16:CP:51:VAL:HG12	16:CP:52:ASP:N	2.06	0.70
22:CV:30:G:H2'	22:CV:31:A:H5'	1.72	0.70
35:DA:560:C:H4'	53:DU:52:ARG:CZ	2.22	0.70
35:DA:2302:G:H1'	41:DG:128:ARG:HH22	1.56	0.70
37:DC:82:LYS:O	37:DC:86:ALA:HB3	1.90	0.70
54:DV:19:LYS:HB3	54:DV:94:LEU:O	1.91	0.70
54:DV:24:LYS:HA	54:DV:92:THR:HG23	1.71	0.70
1:AA:833:U:H2'	1:AA:834:C:C6	2.27	0.70
1:AA:1118:C:OP1	9:AI:9:ARG:HD2	1.91	0.70
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.26	0.70
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.90	0.70
16:AP:6:LEU:HB3	16:AP:17:TYR:HD2	1.57	0.70
22:AV:20:U:C3'	22:AV:21:A:H5'	2.21	0.70
24:AY:252:VAL:HG22	24:AY:259:THR:HB	1.71	0.70
35:BA:661:C:H4'	48:BP:16:ARG:HD3	1.72	0.70
42:BH:100:GLY:C	42:BH:102:ALA:H	1.98	0.70
43:BI:9:LEU:CD1	43:BI:12:LEU:HD12	2.21	0.70
1:CA:222:U:H2'	1:CA:223:U:H6	1.56	0.70
1:CA:865:A:H5'	1:CA:1078:U:O4	1.91	0.70
2:CB:92:TYR:CE2	2:CB:151:GLY:HA3	2.26	0.70
14:CN:26:ARG:HD2	14:CN:47:LEU:HD11	1.73	0.70
24:CY:26:LEU:HD13	24:CY:48:VAL:HG23	1.74	0.70
35:DA:286:C:H2'	35:DA:287:C:H5'	1.73	0.70
35:DA:1070:A:H5'	35:DA:1072:C:OP2	1.92	0.70
35:DA:1907:G:O2'	35:DA:1908:C:H5'	1.92	0.70
48:DP:6:LEU:HD23	48:DP:6:LEU:H	1.56	0.70
48:DP:100:LEU:HD22	48:DP:100:LEU:H	1.57	0.70
1:AA:356:A:C2	1:AA:357:G:H1'	2.27	0.70
12:AL:38:THR:HB	12:AL:57:LYS:HB2	1.73	0.70
15:AO:23:GLY:O	15:AO:24:SER:HB3	1.90	0.70
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.26	0.70
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.73	0.70
39:BE:181:LEU:HD21	52:BT:7:ILE:CG2	2.21	0.70
48:BP:57:THR:HG23	48:BP:59:LEU:HB3	1.73	0.70
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.04	0.70
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.73	0.70
17:CQ:45:HIS:CD2	17:CQ:47:PRO:HD3	2.27	0.70
22:CW:5:G:O2'	22:CW:6:G:H5'	1.92	0.70
22:CW:28:G:H2'	22:CW:29:G:C8	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D1:82:LEU:HB3	26:D1:90:ILE:HD12	1.72	0.70
35:DA:925:C:H2'	35:DA:926:A:C5'	2.12	0.70
56:DX:88:LYS:HE3	56:DX:93:GLU:HG3	1.72	0.70
58:DZ:8:TYR:N	58:DZ:8:TYR:HD1	1.90	0.70
1:AA:560:U:H4'	1:AA:561:U:H5"	1.73	0.70
2:AB:80:ILE:O	2:AB:80:ILE:HG13	1.91	0.70
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.55	0.70
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.27	0.70
33:D8:25:MET:HB2	48:DP:62:LEU:CD2	2.21	0.70
34:D9:35:ARG:HG2	34:D9:36:GLN:H	1.57	0.70
35:DA:1685:C:O2'	35:DA:1686:C:H5"	1.91	0.70
38:DD:106:ILE:HD12	38:DD:106:ILE:C	2.17	0.70
39:DE:101:ARG:HH21	39:DE:171:GLU:N	1.90	0.70
40:DF:25:PRO:HG3	40:DF:119:ARG:CG	2.22	0.70
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.07	0.70
45:DK:90:LYS:O	58:DZ:112:ARG:CZ	2.39	0.70
6:AF:19:LEU:O	6:AF:23:LYS:HG3	1.91	0.70
24:AY:22:LYS:HA	24:AY:25:ARG:CD	2.20	0.70
24:AY:254:LEU:HB2	24:AY:255:PRO:HD3	1.73	0.70
27:B2:41:ILE:HD11	27:B2:44:LEU:HD12	1.73	0.70
33:B8:25:MET:HB2	48:BP:62:LEU:HD21	1.72	0.70
35:BA:70:G:H21	35:BA:71:A:N6	1.90	0.70
39:BE:51:PHE:O	39:BE:74:PRO:HB2	1.91	0.70
40:BF:116:ASP:OD2	48:BP:5:ASP:HB2	1.92	0.70
48:BP:17:LYS:O	48:BP:19:VAL:HG22	1.91	0.70
48:BP:100:LEU:H	48:BP:100:LEU:HD22	1.55	0.70
52:BT:8:LYS:HA	52:BT:11:GLU:OE1	1.92	0.70
1:CA:963:G:H2'	1:CA:964:A:H8	1.56	0.70
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.73	0.70
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	1.72	0.70
3:CC:92:ALA:HB2	3:CC:99:VAL:CG2	2.22	0.70
13:CM:50:GLU:O	13:CM:54:VAL:HG23	1.91	0.70
19:CS:29:ARG:HD2	19:CS:30:LEU:N	2.07	0.70
24:CY:55:LEU:O	24:CY:58:THR:HB	1.92	0.70
35:DA:650:C:C3'	35:DA:651:G:H5"	2.22	0.70
35:DA:676:A:H2	35:DA:802:A:H61	1.40	0.70
35:DA:1071:G:H1'	35:DA:1089:G:C8	2.26	0.70
35:DA:1963:U:O2	35:DA:1963:U:H2'	1.90	0.70
40:DF:182:ASN:O	40:DF:186:ILE:HG12	1.91	0.70
48:DP:7:ARG:HH11	48:DP:7:ARG:HG2	1.56	0.70
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:344:LEU:HD23	24:AY:344:LEU:N	1.97	0.70
33:B8:25:MET:HB2	48:BP:62:LEU:CD2	2.22	0.70
35:BA:286:C:H42	35:BA:355:G:H1	1.39	0.70
35:BA:645:C:O2	35:BA:645:C:H2'	1.90	0.70
35:BA:2161:C:H2'	35:BA:2162:G:C8	2.27	0.70
39:BE:97:LYS:O	39:BE:100:GLU:HG3	1.92	0.70
39:BE:131:ALA:HB1	39:BE:133:LYS:HG3	1.72	0.70
45:BK:25:PRO:HB3	45:BK:29:GLN:OE1	1.92	0.70
2:CB:197:VAL:HB	2:CB:200:ILE:HG12	1.74	0.70
22:CV:45:U:C2'	22:CV:46:G:H5'	2.21	0.70
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.26	0.70
42:DH:125:VAL:HG22	42:DH:131:VAL:HG22	1.72	0.70
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.73	0.70
2:AB:87:ARG:O	2:AB:87:ARG:HD2	1.92	0.70
8:AH:51:VAL:HG11	8:AH:60:ARG:HH11	1.55	0.70
18:AR:59:SER:HB3	18:AR:62:GLU:HG3	1.74	0.70
24:AY:65:LEU:HD11	24:AY:95:ALA:HA	1.74	0.70
24:AY:302:VAL:O	24:AY:303:GLU:HG2	1.92	0.70
35:BA:991:C:H5'	35:BA:991:C:H6	1.56	0.70
35:BA:1693:U:H1'	38:BD:14:ARG:NH1	2.06	0.70
35:BA:2287:A:N6	35:BA:2344:U:N3	2.38	0.70
58:BZ:146:ILE:HG13	58:BZ:147:GLY:H	1.55	0.70
1:CA:1446:U:H4'	1:CA:1447:A:C8	2.26	0.70
1:CA:1530:G:H2'	1:CA:1531:A:O4'	1.91	0.70
8:CH:109:ILE:HG13	8:CH:122:ARG:NH2	2.07	0.70
11:CK:19:ALA:HB2	11:CK:32:ILE:HG23	1.73	0.70
31:D6:9:LEU:HD23	31:D6:10:LEU:N	2.05	0.70
44:DJ:105:UNK:C	44:DJ:107:UNK:H	2.03	0.70
48:DP:138:LEU:C	48:DP:140:ALA:H	2.00	0.70
56:DX:10:ALA:O	56:DX:28:PHE:HB2	1.91	0.70
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.07	0.70
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.74	0.70
8:AH:109:ILE:HG13	8:AH:122:ARG:NH2	2.07	0.70
25:B0:43:THR:HG22	35:BA:2331:G:O2'	1.91	0.70
35:BA:598:G:H5'	48:BP:15:ARG:HB3	1.72	0.70
35:BA:821:A:H2'	35:BA:946:G:H5"	1.74	0.70
35:BA:1071:G:H1'	35:BA:1089:G:C8	2.27	0.70
35:BA:1169:G:H2'	35:BA:1170:G:O4'	1.91	0.70
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.22	0.70
35:BA:1827:C:O2'	35:BA:1828:G:H5'	1.91	0.70
35:BA:1963:U:H2'	35:BA:1963:U:O2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:106:ILE:HD12	38:BD:106:ILE:C	2.16	0.70
41:BG:22:ARG:HB3	41:BG:22:ARG:NH1	2.02	0.70
45:BK:11:GLN:HB2	45:BK:52:ILE:HD11	1.74	0.70
45:BK:72:PRO:CG	45:BK:77:LEU:HD21	2.22	0.70
51:BS:74:ALA:HB1	51:BS:103:GLU:CG	2.22	0.70
57:BY:7:VAL:HG21	57:BY:8:LYS:HZ3	1.55	0.70
57:BY:47:LYS:HD2	57:BY:47:LYS:H	1.57	0.70
1:CA:486:U:H2'	1:CA:487:A:C8	2.27	0.70
1:CA:1123:A:H4'	10:CJ:36:GLY:HA3	1.74	0.70
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.72	0.70
5:CE:36:ASP:O	5:CE:37:ARG:HB2	1.91	0.70
7:CG:78:ARG:O	7:CG:84:ASN:HA	1.92	0.70
22:CW:28:G:H2'	22:CW:29:G:H8	1.55	0.70
27:D2:59:ARG:HA	27:D2:62:THR:HB	1.73	0.70
35:DA:620:G:H4'	35:DA:621:A:H5'	1.73	0.70
59:DI:98:ALA:HA	59:DI:109:ILE:HD11	1.73	0.70
58:DZ:30:ASN:HD22	58:DZ:30:ASN:C	1.99	0.70
1:AA:826:C:H2'	1:AA:827:U:C6	2.26	0.69
1:AA:1472:U:H2'	1:AA:1473:A:C8	2.27	0.69
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.72	0.69
24:AY:106:LEU:C	24:AY:108:ASN:H	2.00	0.69
26:B1:3:LYS:CG	26:B1:4:VAL:H	2.04	0.69
35:BA:993:G:OP1	53:BU:50:ARG:NH2	2.25	0.69
35:BA:2121:G:H2'	35:BA:2122:U:H5'	1.74	0.69
35:BA:2267:A:H5"	35:BA:2268:A:H5'	1.72	0.69
38:BD:35:LYS:NZ	38:BD:103:ARG:HA	2.07	0.69
39:BE:117:MET:HE3	39:BE:124:GLY:HA3	1.73	0.69
46:BN:7:LYS:O	46:BN:9:VAL:HG23	1.91	0.69
1:CA:16:A:O2'	1:CA:17:U:H5'	1.91	0.69
1:CA:79:G:H1'	1:CA:80:G:H8	1.55	0.69
1:CA:966:G:O2'	1:CA:967:C:C6	2.43	0.69
4:CD:31:CYS:C	4:CD:33:MET:H	1.99	0.69
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.74	0.69
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	1.92	0.69
31:D6:16:CYS:O	31:D6:17:LYS:HB2	1.92	0.69
32:D7:8:ASN:C	32:D7:8:ASN:ND2	2.41	0.69
33:D8:32:LEU:HD11	35:DA:2392:A:P	2.31	0.69
35:DA:286:C:H42	35:DA:355:G:H1	1.39	0.69
39:DE:46:ALA:HA	39:DE:82:ARG:O	1.91	0.69
39:DE:59:VAL:CG2	39:DE:63:LEU:HA	2.22	0.69
59:DI:47:LEU:C	59:DI:49:ALA:H	2.00	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:30:ASN:ND2	58:DZ:33:LEU:N	2.39	0.69
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.26	0.69
2:AB:102:LEU:HB3	2:AB:180:LEU:HD12	1.72	0.69
6:AF:77:ARG:HB3	6:AF:77:ARG:NH1	2.07	0.69
24:AY:291:ARG:NH1	24:AY:295:LEU:HD11	2.07	0.69
26:B1:92:LYS:HZ1	35:BA:153:C:C5'	2.03	0.69
35:BA:1348:G:C2'	35:BA:1349:A:H5"	2.23	0.69
39:BE:55:ASN:HD21	39:BE:75:VAL:HG22	1.57	0.69
40:BF:21:ALA:C	40:BF:23:ASP:H	2.00	0.69
42:BH:157:TYR:CE1	42:BH:171:LEU:N	2.60	0.69
43:BI:142:VAL:HG12	43:BI:143:SER:H	1.54	0.69
51:BS:30:ARG:HH21	51:BS:97:ARG:HG2	1.57	0.69
58:BZ:28:MET:HA	58:BZ:88:PHE:O	1.92	0.69
1:CA:833:U:H2'	1:CA:834:C:C6	2.27	0.69
2:CB:11:LEU:HD12	2:CB:217:ARG:NH2	2.07	0.69
15:CO:50:HIS:O	15:CO:53:HIS:HB3	1.91	0.69
16:CP:6:LEU:HB3	16:CP:17:TYR:HD2	1.57	0.69
35:DA:1525:G:H2'	35:DA:1526:G:H8	1.57	0.69
40:DF:23:ASP:O	40:DF:115:ALA:HA	1.91	0.69
41:DG:115:ARG:HH12	41:DG:136:ARG:HG3	1.55	0.69
42:DH:100:GLY:C	42:DH:102:ALA:H	1.99	0.69
44:DJ:23:UNK:HA	44:DJ:117:UNK:O	1.91	0.69
45:DK:11:GLN:HB2	45:DK:52:ILE:HD11	1.74	0.69
57:DY:81:LYS:CD	57:DY:97:ARG:HB3	2.16	0.69
2:AB:197:VAL:HB	2:AB:200:ILE:HG12	1.74	0.69
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.07	0.69
35:BA:1070:A:H5'	35:BA:1072:C:OP2	1.92	0.69
35:BA:1562:A:H2'	35:BA:1563:G:C8	2.28	0.69
35:BA:2473:U:O2	35:BA:2473:U:H2'	1.90	0.69
36:BB:65:C:O2'	36:BB:66:A:H5'	1.92	0.69
42:BH:85:LYS:HE2	42:BH:145:ALA:N	2.07	0.69
49:BQ:1:MET:SD	49:BQ:2:LEU:N	2.64	0.69
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HB2	2.28	0.69
1:CA:59:A:H5"	1:CA:60:A:H5"	1.73	0.69
1:CA:826:C:H2'	1:CA:827:U:C6	2.27	0.69
1:CA:1435:G:H2'	1:CA:1436:U:H6	1.54	0.69
4:CD:14:ARG:HA	4:CD:39:PRO:HG3	1.75	0.69
8:CH:63:LEU:HB2	8:CH:65:TYR:CE1	2.27	0.69
33:D8:4:MET:HB2	33:D8:61:LEU:CD1	2.23	0.69
35:DA:620:G:H4'	35:DA:621:A:H5"	1.73	0.69
35:DA:645:C:H2'	35:DA:645:C:O2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:661:C:H4'	48:DP:16:ARG:HD3	1.74	0.69
35:DA:882:G:H2'	35:DA:883:G:C8	2.27	0.69
35:DA:2137:C:H2'	35:DA:2138:C:H6	1.57	0.69
52:DT:50:ILE:H	52:DT:50:ILE:HD12	1.57	0.69
57:DY:47:LYS:HD2	57:DY:47:LYS:H	1.55	0.69
58:DZ:8:TYR:HD1	58:DZ:8:TYR:H	1.36	0.69
58:DZ:152:ALA:HB2	58:DZ:168:GLU:CA	2.21	0.69
1:AA:265:G:H5'	17:AQ:64:PRO:O	1.92	0.69
1:AA:1329:A:C5'	13:AM:29:ARG:HD2	2.21	0.69
3:AC:15:THR:CG2	3:AC:181:ASN:H	2.04	0.69
4:AD:28:SER:O	4:AD:30:LYS:N	2.26	0.69
13:AM:3:ARG:NH2	13:AM:7:VAL:HG13	2.07	0.69
26:B1:81:LYS:CE	35:BA:271(H):G:C4'	2.66	0.69
28:B3:2:PRO:C	28:B3:4:LEU:N	2.50	0.69
33:B8:43:GLN:C	33:B8:44:LYS:HD2	2.17	0.69
35:BA:143:G:C1'	56:BX:37:THR:HG21	2.22	0.69
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	1.92	0.69
35:BA:601:C:H5"	40:BF:108:LYS:HZ1	1.57	0.69
35:BA:879:G:H2'	35:BA:880:G:H8	1.56	0.69
36:BB:84:C:C2'	36:BB:85:G:H5"	2.22	0.69
41:BG:62:LEU:O	41:BG:62:LEU:HD23	1.92	0.69
44:BJ:23:UNK:HA	44:BJ:117:UNK:O	1.92	0.69
46:BN:67:LEU:H	46:BN:67:LEU:HD12	1.55	0.69
53:BU:92:ARG:NH2	53:BU:94:ASN:ND2	2.41	0.69
57:BY:49:VAL:HA	57:BY:53:PRO:HG3	1.74	0.69
57:BY:81:LYS:CD	57:BY:97:ARG:HB3	2.16	0.69
57:BY:96:ILE:HB	57:BY:99:CYS:HB2	1.75	0.69
4:CD:133:VAL:HG11	4:CD:138:TYR:CD1	2.23	0.69
7:CG:80:VAL:HG21	7:CG:85:TYR:CD1	2.27	0.69
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.07	0.69
35:DA:92:A:H2'	35:DA:93:G:C8	2.27	0.69
35:DA:718:A:H2'	35:DA:719:C:H5'	1.74	0.69
35:DA:1697:G:H3'	35:DA:1698:A:C5'	2.21	0.69
41:DG:161:THR:C	41:DG:163:ALA:H	2.00	0.69
42:DH:41:MET:CG	42:DH:54:ARG:HA	2.22	0.69
51:DS:89:ARG:HB3	51:DS:92:TYR:HB3	1.73	0.69
53:DU:92:ARG:NH1	54:DV:11:GLN:H	1.90	0.69
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.74	0.69
6:AF:14:LEU:HD22	6:AF:18:GLN:HE21	1.58	0.69
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.75	0.69
16:AP:51:VAL:HG12	16:AP:52:ASP:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:115:ASN:ND2	24:AY:173:GLY:H	1.90	0.69
31:B6:15:GLU:OE2	31:B6:43:CYS:SG	2.51	0.69
48:BP:41:ARG:HD2	48:BP:41:ARG:N	2.04	0.69
54:BV:19:LYS:HB3	54:BV:94:LEU:O	1.92	0.69
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.56	0.69
35:DA:848:G:H2'	35:DA:849:A:C8	2.27	0.69
35:DA:1505:C:H3'	35:DA:1506:C:H6	1.57	0.69
35:DA:1693:U:H1'	38:DD:14:ARG:HH12	1.58	0.69
36:DB:117:G:C5'	51:DS:55:ALA:HB1	2.23	0.69
40:DF:38:ARG:O	40:DF:42:ALA:HB2	1.92	0.69
41:DG:104:GLU:O	41:DG:108:ASN:HB2	1.91	0.69
48:DP:112:LEU:HD23	48:DP:113:LYS:N	2.06	0.69
52:DT:62:THR:HG22	52:DT:75:ILE:HG12	1.73	0.69
53:DU:95:LEU:CD1	54:DV:11:GLN:HG3	2.21	0.69
1:AA:22:G:H2'	1:AA:23:C:C6	2.27	0.69
1:AA:191:G:H1'	20:AT:105:SER:HA	1.75	0.69
1:AA:250:A:H4'	1:AA:251:G:O5'	1.91	0.69
1:AA:963:G:H2'	1:AA:964:A:H8	1.56	0.69
3:AC:16:ARG:HB2	3:AC:16:ARG:HH11	1.58	0.69
9:AI:86:VAL:HG23	9:AI:92:TYR:O	1.93	0.69
11:AK:48:ILE:HG21	11:AK:63:LEU:HD22	1.75	0.69
22:AW:9:A:H4'	22:AW:46:G:H5'	1.73	0.69
24:AY:25:ARG:HA	24:AY:28:GLU:HB2	1.73	0.69
24:AY:154:VAL:HG12	24:AY:155:ASP:OD1	1.92	0.69
26:B1:86:SER:HB2	26:B1:90:ILE:CG1	2.18	0.69
33:B8:53:PRO:HA	33:B8:56:GLU:HB2	1.75	0.69
35:BA:286:C:H2'	35:BA:287:C:H5'	1.72	0.69
35:BA:718:A:H2'	35:BA:719:C:H5'	1.75	0.69
42:BH:97:ARG:HG2	42:BH:98:LEU:N	2.08	0.69
53:BU:79:PHE:CE2	53:BU:83:LEU:HD22	2.28	0.69
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.25	0.69
8:CH:29:SER:HB3	8:CH:32:LYS:HG3	1.74	0.69
24:CY:10:LEU:HB2	24:CY:14:ARG:NH1	2.08	0.69
24:CY:52:ALA:HA	24:CY:55:LEU:CB	2.22	0.69
35:DA:566:U:O4	54:DV:78:LYS:HE3	1.92	0.69
35:DA:1169:G:H2'	35:DA:1170:G:O4'	1.92	0.69
35:DA:1827:C:O2'	35:DA:1828:G:H5'	1.93	0.69
35:DA:2148:G:O2'	35:DA:2149:G:H5'	1.92	0.69
42:DH:12:PRO:HD3	42:DH:49:VAL:HA	1.74	0.69
46:DN:7:LYS:O	46:DN:9:VAL:HG23	1.93	0.69
49:DQ:55:VAL:CG2	49:DQ:56:ARG:N	2.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:80:SER:CB	52:DT:81:PRO:CD	2.70	0.69
4:AD:85:LYS:HD3	4:AD:86:LYS:H	1.56	0.69
5:AE:6:PHE:HB2	5:AE:34:VAL:HG12	1.73	0.69
8:AH:58:TYR:O	8:AH:59:LEU:HD23	1.93	0.69
35:BA:494:G:H8	35:BA:494:G:H5'	1.57	0.69
35:BA:848:G:H2'	35:BA:849:A:C8	2.27	0.69
35:BA:2759:G:O2'	35:BA:2760:C:H5'	1.92	0.69
41:BG:174:GLU:HA	41:BG:178:PHE:HB2	1.73	0.69
1:CA:1194:U:H4'	5:CE:22:GLY:O	1.93	0.69
2:CB:7:VAL:O	2:CB:11:LEU:HG	1.92	0.69
2:CB:87:ARG:O	2:CB:87:ARG:HD2	1.93	0.69
25:D0:84:LEU:HD12	25:D0:84:LEU:N	2.07	0.69
26:D1:86:SER:HA	26:D1:89:GLU:OE1	1.93	0.69
39:DE:78:LEU:HD23	39:DE:78:LEU:N	2.07	0.69
57:DY:28:LYS:C	57:DY:38:ILE:HB	2.18	0.69
1:AA:333:G:H4'	20:AT:16:HIS:CE1	2.28	0.69
1:AA:411:A:H62	1:AA:413:G:N2	1.91	0.69
3:AC:92:ALA:CA	3:AC:99:VAL:HG11	2.22	0.69
7:AG:78:ARG:O	7:AG:84:ASN:HA	1.92	0.69
8:AH:63:LEU:HB2	8:AH:65:TYR:CE1	2.27	0.69
11:AK:19:ALA:HB2	11:AK:32:ILE:HG23	1.75	0.69
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.56	0.69
14:AN:3:ARG:HB3	14:AN:3:ARG:NH1	2.07	0.69
14:AN:24:CYS:HB2	14:AN:40:CYS:HB3	1.74	0.69
18:AR:88:LYS:HE2	18:AR:88:LYS:C	2.18	0.69
20:AT:74:LYS:C	20:AT:76:ALA:H	1.97	0.69
35:BA:92:A:H2'	35:BA:93:G:C8	2.27	0.69
35:BA:494:G:H5'	35:BA:494:G:C8	2.28	0.69
35:BA:2137:C:H2'	35:BA:2138:C:H6	1.56	0.69
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.28	0.69
40:BF:18:ARG:HG2	40:BF:19:GLU:H	1.56	0.69
41:BG:83:ARG:HH21	41:BG:84:LYS:NZ	1.91	0.69
41:BG:134:GLY:C	41:BG:135:LEU:HD12	2.17	0.69
42:BH:12:PRO:HD3	42:BH:49:VAL:HA	1.75	0.69
42:BH:35:VAL:O	42:BH:37:VAL:HG23	1.91	0.69
45:BK:103:GLN:HA	45:BK:106:GLU:CD	2.18	0.69
46:BN:15:LEU:HG	46:BN:134:ARG:HD2	1.75	0.69
48:BP:135:LEU:O	48:BP:139:LYS:HB2	1.93	0.69
1:CA:77:G:H2'	1:CA:78:G:H5'	1.73	0.69
1:CA:356:A:C2	1:CA:357:G:H1'	2.27	0.69
3:CC:15:THR:HG21	3:CC:181:ASN:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:8:VAL:C	4:CD:10:ARG:N	2.51	0.69
4:CD:9:CYS:SG	4:CD:22:LYS:HD2	2.33	0.69
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.23	0.69
10:CJ:22:LYS:NZ	10:CJ:90:LEU:HD13	2.07	0.69
13:CM:3:ARG:NH2	13:CM:7:VAL:HG13	2.08	0.69
35:DA:1223:G:H5'	35:DA:1224:C:OP2	1.93	0.69
35:DA:1348:G:C2'	35:DA:1349:A:H5"	2.22	0.69
35:DA:2292:C:O2'	35:DA:2293:C:H5'	1.93	0.69
35:DA:2654:A:H1'	35:DA:2656:U:C6	2.28	0.69
40:DF:9:ILE:HG12	40:DF:14:PRO:HA	1.75	0.69
42:DH:13:LYS:HD3	42:DH:14:GLY:N	1.95	0.69
42:DH:85:LYS:HE2	42:DH:145:ALA:N	2.08	0.69
49:DQ:63:LYS:HZ3	58:DZ:175:VAL:HG21	1.57	0.69
57:DY:96:ILE:HB	57:DY:99:CYS:HB2	1.73	0.69
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.21	0.69
1:AA:357:G:C2'	1:AA:358:U:H5"	2.23	0.69
1:AA:792:A:H4'	1:AA:793:U:O5'	1.92	0.69
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.08	0.69
22:AW:8:U:H1'	22:AW:48:C:H1'	1.75	0.69
31:B6:19:ARG:HG2	31:B6:20:ASN:N	2.06	0.69
35:BA:494:G:H21	55:BW:57:ASN:HD21	1.37	0.69
35:BA:676:A:H2	35:BA:802:A:H61	1.40	0.69
35:BA:1614:A:H62	55:BW:93:ALA:HB2	1.57	0.69
35:BA:2036:C:H5'	35:BA:2036:C:C6	2.21	0.69
35:BA:2315:G:H2'	35:BA:2316:C:H6	1.57	0.69
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.22	0.69
40:BF:160:ASN:ND2	40:BF:162:LEU:H	1.91	0.69
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.08	0.69
58:BZ:8:TYR:O	58:BZ:37:VAL:HG12	1.92	0.69
3:CC:92:ALA:CA	3:CC:99:VAL:HG11	2.22	0.69
6:CF:68:PRO:HG3	6:CF:71:ARG:NH2	2.07	0.69
6:CF:98:LEU:HB3	18:CR:30:ASP:HA	1.74	0.69
24:CY:329:MET:HE3	24:CY:331:HIS:CE1	2.28	0.69
35:DA:143:G:C1'	56:DX:37:THR:HG21	2.22	0.69
35:DA:2096:U:H2'	35:DA:2097:C:H6	1.57	0.69
35:DA:2315:G:H2'	35:DA:2316:C:H6	1.55	0.69
41:DG:82:LEU:CD2	41:DG:87:PRO:HG3	2.18	0.69
59:DI:68:LEU:HD22	59:DI:107:ILE:HD13	1.75	0.69
48:DP:57:THR:C	48:DP:59:LEU:H	2.01	0.69
1:AA:59:A:H5"	1:AA:60:A:H5"	1.73	0.69
1:AA:1033:G:H2'	1:AA:1034:G:O4'	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.75	0.69
3:AC:60:ALA:HB1	10:AJ:91:PRO:HB2	1.75	0.69
8:AH:29:SER:HB3	8:AH:32:LYS:CG	2.23	0.69
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.57	0.69
35:BA:2585:U:O2'	35:BA:2586:C:H5'	1.93	0.69
35:BA:2599:G:C8	38:BD:237:GLU:HG3	2.28	0.69
35:BA:2790:A:C2'	35:BA:2791:C:H5'	2.23	0.69
49:BQ:140:ALA:HB1	58:BZ:99:TYR:CB	2.23	0.69
50:BR:24:GLN:NE2	50:BR:36:THR:HG21	2.07	0.69
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.74	0.69
2:CB:220:ASP:C	2:CB:222:ILE:H	2.01	0.69
4:CD:173:TRP:C	4:CD:186:LEU:HB2	2.18	0.69
8:CH:29:SER:HB3	8:CH:32:LYS:CG	2.23	0.69
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.57	0.69
35:DA:2875:C:O2'	52:DT:5:ALA:HB3	1.92	0.69
38:DD:32:SER:HA	38:DD:36:PRO:HG2	1.73	0.69
40:DF:125:LEU:HD11	40:DF:199:TRP:CD1	2.29	0.69
40:DF:160:ASN:ND2	40:DF:162:LEU:H	1.91	0.69
59:DI:101:LEU:HD12	59:DI:102:SER:N	2.07	0.69
51:DS:30:ARG:HH21	51:DS:97:ARG:HG2	1.58	0.69
54:DV:6:LYS:HG2	54:DV:37:VAL:HB	1.74	0.69
2:AB:11:LEU:HD12	2:AB:217:ARG:NH2	2.09	0.68
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.74	0.68
3:AC:67:THR:HA	3:AC:102:ASN:HB2	1.72	0.68
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.73	0.68
10:AJ:70:ARG:HA	10:AJ:70:ARG:HE	1.56	0.68
25:B0:36:ILE:C	25:B0:36:ILE:HD12	2.18	0.68
29:B4:46:ASN:ND2	29:B4:47:VAL:H	1.91	0.68
35:BA:882:G:H2'	35:BA:883:G:C8	2.28	0.68
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.92	0.68
1:CA:1321:C:C3'	1:CA:1322:C:H5"	2.23	0.68
1:CA:1442(A):G:H3'	1:CA:1442(B):A:H5'	1.75	0.68
9:CI:48:GLU:C	9:CI:50:LEU:H	2.01	0.68
22:CV:56:C:O2	41:DG:78:SER:HB2	1.92	0.68
40:DF:136:THR:HG23	40:DF:137:LYS:H	1.59	0.68
45:DK:72:PRO:CG	45:DK:77:LEU:HD21	2.23	0.68
46:DN:15:LEU:HG	46:DN:134:ARG:HD2	1.75	0.68
53:DU:34:LYS:HA	53:DU:34:LYS:HE2	1.73	0.68
58:DZ:152:ALA:CB	58:DZ:168:GLU:H	2.04	0.68
1:AA:222:U:H2'	1:AA:223:U:H6	1.57	0.68
1:AA:423:G:H2'	1:AA:424:G:H5'	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:425:G:O2'	1:AA:426:G:H5'	1.94	0.68
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.27	0.68
1:AA:1126:U:H2'	1:AA:1127:G:O4'	1.94	0.68
1:AA:1238:A:C8	1:AA:1303:C:H1'	2.27	0.68
4:AD:173:TRP:C	4:AD:186:LEU:HB2	2.18	0.68
4:AD:187:ARG:NH2	6:CF:17:SER:OG	2.25	0.68
9:AI:48:GLU:H	9:AI:49:PRO:HD2	1.58	0.68
10:AJ:22:LYS:HZ3	10:AJ:90:LEU:HD13	1.57	0.68
19:AS:29:ARG:HD2	19:AS:30:LEU:N	2.07	0.68
22:AV:53:G:H2'	22:AV:54:U:H6	1.58	0.68
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.57	0.68
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.07	0.68
41:BG:85:GLY:C	41:BG:87:PRO:HD2	2.19	0.68
41:BG:130:ASN:OD1	41:BG:161:THR:N	2.24	0.68
42:BH:125:VAL:HG22	42:BH:131:VAL:HG22	1.75	0.68
49:BQ:141:GLN:O	58:BZ:98:MET:HB2	1.93	0.68
50:BR:12:ARG:HE	50:BR:16:HIS:CE1	2.10	0.68
53:BU:92:ARG:NH2	53:BU:94:ASN:HD22	1.91	0.68
54:BV:19:LYS:HZ2	54:BV:20:LEU:H	1.41	0.68
1:CA:757:U:H2'	1:CA:758:G:O4'	1.94	0.68
1:CA:932:C:H5"	7:CG:3:ARG:HD2	1.74	0.68
1:CA:1125:U:O4	10:CJ:5:ARG:HD3	1.94	0.68
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.76	0.68
6:CF:77:ARG:HB3	6:CF:77:ARG:NH1	2.08	0.68
12:CL:87:GLY:HA2	12:CL:98:TYR:HA	1.74	0.68
22:CV:3:C:H5'	22:CV:3:C:C6	2.24	0.68
35:DA:879:G:H2'	35:DA:880:G:H8	1.57	0.68
35:DA:2118:U:H5	35:DA:2148:G:O2'	1.75	0.68
35:DA:2199:A:H5'	35:DA:2200:C:OP2	1.93	0.68
35:DA:2585:U:O2'	35:DA:2586:C:H5'	1.93	0.68
41:DG:125:PHE:O	41:DG:128:ARG:HG2	1.93	0.68
42:DH:116:GLU:O	42:DH:118:PRO:HD3	1.93	0.68
45:DK:103:GLN:HA	45:DK:106:GLU:CD	2.18	0.68
51:DS:106:ARG:NH1	51:DS:109:GLY:N	2.41	0.68
1:AA:966:G:O2'	1:AA:967:C:C6	2.43	0.68
2:AB:204:ASN:ND2	2:AB:207:ALA:HB3	2.09	0.68
9:AI:48:GLU:C	9:AI:50:LEU:H	2.01	0.68
22:AW:12:U:H2'	22:AW:13:C:O4'	1.92	0.68
31:B6:15:GLU:CG	31:B6:18:ARG:HE	2.06	0.68
35:BA:27:G:HO2'	35:BA:28:A:H8	1.40	0.68
35:BA:286:C:H2'	35:BA:287:C:H5"	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:560:C:H4'	53:BU:52:ARG:HH22	1.56	0.68
35:BA:2131:G:OP1	35:BA:2132:U:H3'	1.93	0.68
40:BF:20:LEU:HB3	40:BF:23:ASP:OD2	1.93	0.68
52:BT:80:SER:CB	52:BT:81:PRO:CD	2.66	0.68
53:BU:58:ARG:O	53:BU:62:ILE:HG12	1.93	0.68
1:CA:1033:G:H2'	1:CA:1034:G:O4'	1.94	0.68
2:CB:79:ASP:O	2:CB:82:ARG:HG2	1.93	0.68
3:CC:53:ALA:HB2	3:CC:115:LEU:CD2	2.22	0.68
5:CE:96:PRO:HA	5:CE:117:ASP:OD2	1.94	0.68
9:CI:86:VAL:HG23	9:CI:92:TYR:O	1.93	0.68
12:CL:38:THR:HB	12:CL:57:LYS:HB2	1.72	0.68
14:CN:24:CYS:HB2	14:CN:40:CYS:HB3	1.73	0.68
24:CY:118:LEU:O	24:CY:168:GLN:HA	1.93	0.68
35:DA:2189:U:H2'	35:DA:2190:G:C5'	2.23	0.68
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.20	0.68
35:DA:2571:C:H5'	35:DA:2572:A:C5'	2.18	0.68
39:DE:117:MET:HE3	39:DE:124:GLY:HA3	1.74	0.68
46:DN:102:ALA:O	46:DN:106:MET:HE3	1.92	0.68
1:AA:423:G:C2'	1:AA:424:G:H5'	2.23	0.68
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.57	0.68
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.27	0.68
4:AD:8:VAL:C	4:AD:10:ARG:N	2.52	0.68
12:AL:59:ARG:NH1	12:AL:65:GLU:HG2	2.07	0.68
24:AY:27:LYS:HG2	45:BK:20:ALA:HB3	1.74	0.68
35:BA:1484:G:H2'	35:BA:1485:G:H5"	1.75	0.68
35:BA:2467:C:H4'	49:BQ:123:HIS:CD2	2.29	0.68
39:BE:78:LEU:N	39:BE:78:LEU:HD23	2.09	0.68
39:BE:81:ILE:O	39:BE:82:ARG:HB2	1.92	0.68
41:BG:47:LYS:H	41:BG:51:ARG:HG3	1.58	0.68
42:BH:19:VAL:HG21	42:BH:44:VAL:HG13	1.74	0.68
47:BO:24:VAL:CG2	47:BO:33:ALA:HB2	2.23	0.68
49:BQ:55:VAL:HG23	49:BQ:56:ARG:N	2.07	0.68
1:CA:556:C:O2'	1:CA:557:G:H5'	1.94	0.68
16:CP:82:GLN:H	16:CP:82:GLN:NE2	1.91	0.68
25:D0:36:ILE:C	25:D0:36:ILE:HD12	2.19	0.68
33:D8:53:PRO:HA	33:D8:56:GLU:HB2	1.76	0.68
39:DE:68:ALA:O	39:DE:70:ALA:N	2.24	0.68
51:DS:27:SER:HA	51:DS:88:ASP:HB3	1.75	0.68
1:AA:473:G:H5"	16:AP:81:ARG:NE	2.08	0.68
2:AB:187:LEU:HD12	2:AB:205:ASP:HB3	1.75	0.68
7:AG:32:ARG:HH11	7:AG:32:ARG:HG2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:7:LYS:C	28:B3:54:VAL:HG23	2.19	0.68
35:BA:560:C:H4'	53:BU:52:ARG:CZ	2.23	0.68
35:BA:650:C:C3'	35:BA:651:G:H5"	2.24	0.68
35:BA:1685:C:H2'	35:BA:1686:C:H5'	1.75	0.68
35:BA:2302:G:H1'	41:BG:128:ARG:CZ	2.24	0.68
38:BD:125:ILE:HD12	38:BD:125:ILE:N	2.09	0.68
39:BE:2:LYS:HE2	39:BE:95:ILE:HG22	1.74	0.68
1:CA:560:U:H4'	1:CA:561:U:H5"	1.75	0.68
3:CC:141:VAL:HG11	3:CC:202:ILE:HD12	1.73	0.68
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	1.93	0.68
35:DA:779:U:OP1	38:DD:49:ILE:HG23	1.93	0.68
38:DD:125:ILE:H	38:DD:125:ILE:HD12	1.59	0.68
39:DE:78:LEU:H	39:DE:78:LEU:HD23	1.58	0.68
41:DG:2:PRO:HD2	41:DG:5:VAL:HG12	1.75	0.68
48:DP:48:PRO:HD2	48:DP:49:ARG:H	1.58	0.68
50:DR:2:ARG:NH1	50:DR:5:LYS:NZ	2.41	0.68
52:DT:100:TYR:HD2	52:DT:103:ARG:NH2	1.88	0.68
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.29	0.68
2:AB:79:ASP:O	2:AB:82:ARG:HG2	1.94	0.68
6:AF:68:PRO:HG3	6:AF:71:ARG:NH2	2.08	0.68
6:AF:98:LEU:HB3	18:AR:30:ASP:HA	1.75	0.68
16:AP:82:GLN:NE2	16:AP:82:GLN:H	1.91	0.68
24:AY:267:SER:OG	24:AY:270:LYS:HB2	1.93	0.68
31:B6:15:GLU:OE1	31:B6:18:ARG:CD	2.41	0.68
33:B8:4:MET:HB2	33:B8:61:LEU:HD13	1.73	0.68
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.74	0.68
35:BA:2394:C:OP1	48:BP:63:PRO:HD2	1.93	0.68
36:BB:60:C:H2'	36:BB:61:G:H8	1.57	0.68
44:BJ:105:UNK:C	44:BJ:107:UNK:H	2.04	0.68
45:BK:38:VAL:HG13	45:BK:39:LYS:HG3	1.74	0.68
48:BP:57:THR:C	48:BP:59:LEU:H	2.01	0.68
58:BZ:61:LEU:H	58:BZ:61:LEU:HD22	1.58	0.68
58:BZ:165:VAL:CG1	58:BZ:167:PRO:HA	2.23	0.68
1:CA:1126:U:H2'	1:CA:1127:G:O4'	1.94	0.68
31:D6:23:THR:HG21	35:DA:2419:U:H4'	1.76	0.68
35:DA:1067:A:H8	35:DA:1067:A:H5'	1.58	0.68
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.57	0.68
35:DA:2653:U:O2'	42:DH:110:SER:HB2	1.94	0.68
35:DA:2834:G:H5'	35:DA:2835:A:OP2	1.94	0.68
58:DZ:119:GLU:O	58:DZ:120:ILE:C	2.37	0.68
2:AB:7:VAL:O	2:AB:11:LEU:HG	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.59	0.68
35:BA:27:G:O2'	35:BA:28:A:H8	1.76	0.68
35:BA:2096:U:H2'	35:BA:2097:C:H6	1.57	0.68
35:BA:2807:G:H3'	35:BA:2808:U:H5"	1.75	0.68
48:BP:48:PRO:HD2	48:BP:49:ARG:H	1.57	0.68
56:BX:24:GLY:O	56:BX:82:GLN:HA	1.92	0.68
58:BZ:128:VAL:HG22	58:BZ:129:SER:H	1.58	0.68
1:CA:423:G:C2'	1:CA:424:G:H5'	2.24	0.68
1:CA:1499:A:H5'	1:CA:1499:A:C8	2.28	0.68
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.18	0.68
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.06	0.68
35:DA:70:G:H21	35:DA:71:A:N6	1.91	0.68
35:DA:1518:U:H2'	35:DA:1519:G:O4'	1.94	0.68
36:DB:60:C:H2'	36:DB:61:G:H8	1.57	0.68
39:DE:36:ARG:HH12	39:DE:86:PRO:HD2	1.58	0.68
59:DI:7:GLU:HB3	59:DI:8:PRO:CD	2.23	0.68
51:DS:74:ALA:HB1	51:DS:103:GLU:CG	2.24	0.68
52:DT:118:ARG:O	52:DT:121:ILE:N	2.27	0.68
53:DU:91:ASP:O	53:DU:92:ARG:C	2.36	0.68
1:AA:605:U:H2'	1:AA:606:G:H8	1.59	0.68
1:AA:954:G:H2'	1:AA:955:U:C6	2.28	0.68
20:AT:58:LYS:HE3	20:AT:62:LEU:HD11	1.76	0.68
20:AT:90:GLN:O	20:AT:94:ALA:HB2	1.92	0.68
30:B5:40:LYS:CE	30:B5:46:CYS:H	2.07	0.68
35:BA:285:C:C2'	35:BA:286:C:H5"	2.24	0.68
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.19	0.68
41:BG:16:ARG:O	41:BG:20:ILE:HG13	1.93	0.68
47:BO:3:GLN:HG3	47:BO:4:PRO:HD2	1.76	0.68
1:CA:512:U:H2'	1:CA:513:C:C6	2.28	0.68
2:CB:187:LEU:HD12	2:CB:205:ASP:HB3	1.76	0.68
20:CT:48:LYS:HB2	20:CT:52:ALA:HB2	1.74	0.68
24:CY:117:ILE:HD11	24:CY:213:GLU:HB3	1.76	0.68
35:DA:285:C:C2'	35:DA:286:C:H5"	2.22	0.68
35:DA:2629:A:H2'	35:DA:2629:A:N3	2.07	0.68
40:DF:116:ASP:OD2	48:DP:5:ASP:HB2	1.93	0.68
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.08	0.68
1:AA:1057:G:H5"	3:AC:154:SER:CB	2.23	0.68
1:AA:1329:A:H5'	13:AM:29:ARG:HD2	1.73	0.68
2:AB:219:VAL:O	2:AB:223:ILE:HG23	1.93	0.68
5:AE:12:LEU:HD13	5:AE:13:ILE:N	2.08	0.68
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:48:ILE:H	29:B4:48:ILE:HD12	1.59	0.68
33:B8:59:LYS:HD3	48:BP:50:ARG:CG	2.23	0.68
39:BE:57:LYS:HB3	39:BE:57:LYS:HZ3	1.56	0.68
42:BH:153:LYS:HD3	42:BH:153:LYS:H	1.59	0.68
53:BU:70:ARG:HA	53:BU:74:LEU:O	1.93	0.68
1:CA:411:A:H62	1:CA:413:G:N2	1.91	0.68
2:CB:91:PRO:HG2	2:CB:155:LEU:HB2	1.75	0.68
3:CC:131:ARG:NH1	5:CE:50:GLU:HG2	2.08	0.68
35:DA:654(G):C:H2'	35:DA:654(H):G:C8	2.29	0.68
35:DA:1021:A:H3'	35:DA:1021:A:H8	1.59	0.68
35:DA:2315:G:H21	41:DG:128:ARG:HH12	1.41	0.68
45:DK:25:PRO:HB3	45:DK:29:GLN:OE1	1.93	0.68
49:DQ:58:PHE:O	49:DQ:58:PHE:CD1	2.44	0.68
1:AA:1203:C:OP1	14:AN:3:ARG:HD3	1.94	0.68
1:AA:1502:A:H2	1:AA:1505:G:H22	1.42	0.68
2:AB:220:ASP:C	2:AB:222:ILE:H	2.02	0.68
30:B5:48:GLU:O	30:B5:50:GLY:N	2.25	0.68
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.29	0.68
35:BA:2892:A:C5	35:BA:2893:G:H1'	2.29	0.68
39:BE:32:PRO:O	39:BE:34:VAL:HG13	1.94	0.68
41:BG:2:PRO:HD2	41:BG:5:VAL:CG1	2.24	0.68
41:BG:173:LEU:HA	41:BG:176:LEU:HD12	1.75	0.68
57:BY:46:LYS:HD3	57:BY:47:LYS:HZ2	1.59	0.68
58:BZ:53:ILE:HG22	58:BZ:71:VAL:O	1.94	0.68
1:CA:291:C:O2'	1:CA:292:G:H5'	1.93	0.68
1:CA:605:U:H2'	1:CA:606:G:H8	1.59	0.68
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.59	0.68
16:CP:6:LEU:N	16:CP:6:LEU:HD12	2.09	0.68
25:D0:49:LYS:H	25:D0:80:HIS:HB3	1.56	0.68
35:DA:27:G:O2'	35:DA:28:A:H8	1.77	0.68
35:DA:863:A:O2'	35:DA:864:G:H5'	1.94	0.68
35:DA:1021:A:H3'	35:DA:1021:A:C8	2.28	0.68
35:DA:1693:U:H1'	38:DD:14:ARG:NH1	2.09	0.68
35:DA:2682:U:C5	39:DE:11:MET:HE2	2.29	0.68
35:DA:2892:A:C5	35:DA:2893:G:H1'	2.29	0.68
41:DG:173:LEU:HB3	41:DG:178:PHE:CD2	2.26	0.68
42:DH:85:LYS:CD	42:DH:141:VAL:HG22	2.24	0.68
52:DT:62:THR:CG2	52:DT:75:ILE:HG12	2.24	0.68
1:AA:103:C:OP2	20:AT:14:LYS:HE3	1.93	0.67
1:AA:291:C:O2'	1:AA:292:G:H5'	1.94	0.67
1:AA:512:U:H2'	1:AA:513:C:C6	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:818:G:O2'	1:AA:819:A:H5'	1.94	0.67
1:AA:1032:G:H2'	1:AA:1033:G:C8	2.29	0.67
2:AB:121:LEU:O	2:AB:121:LEU:HD23	1.95	0.67
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.09	0.67
20:AT:48:LYS:HB2	20:AT:52:ALA:HB2	1.75	0.67
32:B7:8:ASN:C	32:B7:8:ASN:ND2	2.41	0.67
35:BA:176:G:O2'	35:BA:177:G:H5'	1.95	0.67
35:BA:271(T):C:H2'	35:BA:271(U):G:H8	1.59	0.67
35:BA:1097:U:C2'	35:BA:1098:A:H5'	2.25	0.67
35:BA:1518:U:H2'	35:BA:1519:G:O4'	1.94	0.67
39:BE:48:GLN:HE21	39:BE:78:LEU:HD11	1.58	0.67
39:BE:68:ALA:O	39:BE:70:ALA:N	2.25	0.67
41:BG:111:LEU:HD22	41:BG:117:PHE:CE2	2.29	0.67
51:BS:89:ARG:HB3	51:BS:92:TYR:CB	2.24	0.67
1:CA:954:G:H2'	1:CA:955:U:C6	2.29	0.67
4:CD:76:ARG:HH11	4:CD:76:ARG:HG2	1.60	0.67
19:CS:42:PRO:O	19:CS:43:GLU:HB3	1.94	0.67
28:D3:7:LYS:C	28:D3:54:VAL:HG23	2.19	0.67
30:D5:48:GLU:O	30:D5:50:GLY:N	2.26	0.67
31:D6:15:GLU:OE1	31:D6:18:ARG:CG	2.42	0.67
35:DA:821:A:H2'	35:DA:946:G:H5"	1.76	0.67
35:DA:1494:A:C2'	35:DA:1495:A:H5"	2.25	0.67
35:DA:2315:G:H2'	35:DA:2316:C:C6	2.29	0.67
39:DE:101:ARG:NH2	39:DE:171:GLU:HB2	2.09	0.67
51:DS:28:VAL:HB	51:DS:89:ARG:CB	2.24	0.67
51:DS:65:VAL:HA	51:DS:68:GLN:OE1	1.94	0.67
1:AA:757:U:H2'	1:AA:758:G:O4'	1.94	0.67
1:AA:1326:C:H2'	1:AA:1327:C:C6	2.29	0.67
24:AY:51:GLU:HA	24:AY:54:ARG:HH21	1.60	0.67
27:B2:9:GLN:HG2	27:B2:56:GLN:NE2	2.09	0.67
31:B6:26:ASN:HD22	31:B6:32:ASN:HD21	1.38	0.67
33:B8:33:ASN:C	33:B8:33:ASN:ND2	2.47	0.67
35:BA:1090:U:H2'	35:BA:1091:G:C8	2.29	0.67
35:BA:1301:A:O2'	35:BA:1302:A:H3'	1.94	0.67
36:BB:91:C:H5"	49:BQ:17:LEU:O	1.94	0.67
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	1.76	0.67
43:BI:53:ALA:O	43:BI:57:ARG:HB2	1.94	0.67
45:BK:33:ASN:ND2	45:BK:63:ARG:HD3	2.10	0.67
49:BQ:141:GLN:HE22	58:BZ:72:ARG:HA	1.60	0.67
57:BY:28:LYS:C	57:BY:38:ILE:HB	2.19	0.67
1:CA:425:G:O2'	1:CA:426:G:H5'	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:10:LEU:HD23	8:CH:10:LEU:N	2.10	0.67
14:CN:13:THR:N	14:CN:14:PRO:CD	2.58	0.67
24:CY:182:PRO:HD3	24:CY:349:LEU:HD21	1.76	0.67
31:D6:44:ARG:C	31:D6:45:LYS:HG2	2.19	0.67
35:DA:654(M):C:H2'	35:DA:654(N):G:H8	1.56	0.67
38:DD:91:ARG:HH11	38:DD:91:ARG:HG2	1.59	0.67
39:DE:48:GLN:HE21	39:DE:78:LEU:HD11	1.58	0.67
42:DH:97:ARG:HG2	42:DH:98:LEU:N	2.08	0.67
46:DN:58:ASP:O	46:DN:60:ILE:N	2.27	0.67
48:DP:17:LYS:O	48:DP:19:VAL:HG22	1.93	0.67
48:DP:75:ILE:HD13	48:DP:77:ARG:HD2	1.75	0.67
48:DP:135:LEU:O	48:DP:139:LYS:HB2	1.93	0.67
55:DW:79:GLY:C	55:DW:100:THR:HG23	2.19	0.67
58:DZ:35:ARG:HG3	58:DZ:35:ARG:NH1	2.09	0.67
1:AA:1125:U:O4	10:AJ:5:ARG:HD3	1.95	0.67
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.19	0.67
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.27	0.67
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.93	0.67
35:BA:1021:A:H3'	35:BA:1021:A:C8	2.30	0.67
35:BA:1505:C:H3'	35:BA:1506:C:H6	1.58	0.67
35:BA:1525:G:H2'	35:BA:1526:G:H8	1.58	0.67
35:BA:2834:G:H5'	35:BA:2835:A:OP2	1.94	0.67
36:BB:7:G:C3'	36:BB:8:U:H5"	2.24	0.67
39:BE:92:THR:O	39:BE:95:ILE:HD13	1.93	0.67
42:BH:85:LYS:CD	42:BH:141:VAL:HG22	2.24	0.67
1:CA:357:G:C2'	1:CA:358:U:H5"	2.24	0.67
1:CA:423:G:H2'	1:CA:424:G:H5'	1.76	0.67
4:CD:9:CYS:SG	4:CD:31:CYS:O	2.52	0.67
16:CP:75:ARG:C	16:CP:78:GLY:H	2.02	0.67
34:D9:30:PRO:HB2	35:DA:2527:C:H5'	1.77	0.67
35:DA:1899:G:N2	35:DA:1902:C:N4	2.39	0.67
35:DA:2184:G:H2'	35:DA:2185:C:C6	2.29	0.67
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.22	0.67
40:DF:24:LEU:C	40:DF:26:ALA:H	2.03	0.67
41:DG:107:LEU:H	41:DG:107:LEU:CD2	2.08	0.67
41:DG:130:ASN:OD1	41:DG:160:VAL:HG13	1.93	0.67
50:DR:24:GLN:CB	50:DR:44:LEU:HD21	2.23	0.67
58:DZ:98:MET:C	58:DZ:125:LEU:HD12	2.19	0.67
1:AA:1128:C:H5'	9:AI:16:ARG:HH22	1.58	0.67
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.25	0.67
10:AJ:48:THR:CA	10:AJ:62:HIS:HB3	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:29:G:H2'	22:AW:30:G:C8	2.30	0.67
24:AY:184:ALA:HA	24:AY:208:VAL:O	1.94	0.67
35:BA:492:A:H2'	35:BA:493:G:O4'	1.95	0.67
35:BA:2667:C:H1'	42:BH:109:PHE:CD2	2.30	0.67
35:BA:2681:C:H5	35:BA:2725:A:N6	1.92	0.67
35:BA:2790:A:H2'	35:BA:2791:C:H5'	1.76	0.67
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	1.95	0.67
47:BO:24:VAL:HG23	47:BO:33:ALA:HB2	1.76	0.67
51:BS:65:VAL:HA	51:BS:68:GLN:OE1	1.94	0.67
53:BU:52:ARG:O	53:BU:55:ARG:HG2	1.94	0.67
55:BW:5:ALA:CB	55:BW:50:VAL:HG23	2.20	0.67
58:BZ:151:HIS:HB2	58:BZ:169:GLU:O	1.95	0.67
1:CA:108:G:H5'	1:CA:109:A:H5"	1.76	0.67
1:CA:357:G:H2'	1:CA:358:U:H5"	1.75	0.67
1:CA:624:C:H4'	16:CP:10:GLY:C	2.20	0.67
3:CC:60:ALA:HB1	10:CJ:91:PRO:HB2	1.77	0.67
20:CT:90:GLN:O	20:CT:94:ALA:HB2	1.94	0.67
24:CY:242:VAL:HG13	24:CY:243:ASN:HD22	1.58	0.67
24:CY:302:VAL:C	24:CY:304:PRO:HD3	2.20	0.67
37:DC:43:VAL:HG23	37:DC:178:ALA:HB2	1.75	0.67
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.58	0.67
58:DZ:158:PRO:HG2	58:DZ:161:VAL:HG21	1.77	0.67
1:AA:189(K):U:H2'	1:AA:189(L):G:H8	1.57	0.67
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.76	0.67
2:AB:91:PRO:HG2	2:AB:155:LEU:HB2	1.76	0.67
6:AF:82:ARG:HH11	6:AF:82:ARG:HB3	1.59	0.67
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	1.75	0.67
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.75	0.67
19:AS:40:ILE:CG2	19:AS:62:ILE:HD11	2.23	0.67
22:AV:21:A:C2'	22:AV:22:G:H5"	2.25	0.67
24:AY:215:ASP:HB2	24:AY:291:ARG:HH22	1.58	0.67
26:B1:92:LYS:HZ1	35:BA:153:C:H5'	1.59	0.67
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.77	0.67
35:BA:2654:A:H1'	35:BA:2656:U:C6	2.30	0.67
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.58	0.67
52:BT:13:ARG:HA	52:BT:13:ARG:NE	2.06	0.67
53:BU:91:ASP:O	53:BU:92:ARG:C	2.37	0.67
54:BV:99:ILE:HD13	54:BV:99:ILE:N	2.08	0.67
1:CA:473:G:H5"	16:CP:81:ARG:NE	2.08	0.67
1:CA:489:C:H2'	1:CA:490:G:H8	1.60	0.67
1:CA:1032:G:H2'	1:CA:1033:G:C8	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1238:A:C8	1:CA:1303:C:H1'	2.29	0.67
2:CB:207:ALA:O	2:CB:211:ILE:HG13	1.95	0.67
9:CI:48:GLU:H	9:CI:49:PRO:HD2	1.58	0.67
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.76	0.67
20:CT:26:ASN:O	20:CT:30:LYS:HB2	1.95	0.67
22:CV:71:G:H2'	22:CV:72:C:H5'	1.77	0.67
27:D2:2:LYS:HB2	27:D2:2:LYS:NZ	2.09	0.67
27:D2:47:ASN:HD22	35:DA:95:G:H1'	1.58	0.67
31:D6:16:CYS:SG	31:D6:48:VAL:HG22	2.34	0.67
35:DA:271(T):C:H2'	35:DA:271(U):G:H8	1.59	0.67
35:DA:518:G:H4'	55:DW:18:ARG:NH1	2.10	0.67
35:DA:1301:A:O2'	35:DA:1302:A:H3'	1.93	0.67
35:DA:2131:G:OP1	35:DA:2132:U:H3'	1.94	0.67
38:DD:35:LYS:NZ	38:DD:103:ARG:HA	2.08	0.67
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	1.76	0.67
42:DH:19:VAL:HG21	42:DH:44:VAL:HG13	1.76	0.67
45:DK:93:ARG:N	58:DZ:112:ARG:HH21	1.89	0.67
51:DS:34:HIS:CE1	51:DS:54:LEU:HB2	2.29	0.67
52:DT:7:ILE:O	52:DT:10:VAL:HB	1.95	0.67
52:DT:8:LYS:HA	52:DT:11:GLU:OE1	1.93	0.67
52:DT:30:VAL:HG23	52:DT:31:SER:N	2.09	0.67
54:DV:62:LEU:CD2	54:DV:95:LEU:HB2	2.24	0.67
58:DZ:9:TYR:HE1	58:DZ:61:LEU:HB3	1.59	0.67
11:AK:108:ILE:HB	18:AR:87:ARG:HA	1.76	0.67
20:AT:26:ASN:O	20:AT:30:LYS:HB2	1.95	0.67
21:AU:6:ARG:HE	21:AU:15:ARG:HH21	1.42	0.67
22:AW:63:G:H5"	37:BC:52:ARG:HA	1.76	0.67
24:AY:251:VAL:CG1	24:AY:279:LEU:HD12	2.24	0.67
35:BA:27:G:N2	35:BA:512:G:C2'	2.58	0.67
35:BA:2283:C:C2'	35:BA:2284:C:H5'	2.25	0.67
37:BC:42:GLU:HB2	37:BC:44:HIS:NE2	2.09	0.67
41:BG:72:ARG:HG2	41:BG:72:ARG:NH1	2.07	0.67
41:BG:124:SER:HB2	41:BG:131:TYR:HD1	1.58	0.67
42:BH:19:VAL:HG11	42:BH:44:VAL:HG22	1.77	0.67
43:BI:5:LEU:HA	43:BI:36:ALA:CB	2.24	0.67
53:BU:88:ILE:O	53:BU:88:ILE:HG13	1.94	0.67
57:BY:95:LYS:HE2	57:BY:100:ALA:HB2	1.77	0.67
5:CE:6:PHE:HB2	5:CE:34:VAL:HG12	1.75	0.67
16:CP:68:ASP:O	16:CP:71:ARG:HG2	1.95	0.67
25:D0:53:MET:CB	25:D0:59:LEU:HD23	2.25	0.67
29:D4:46:ASN:ND2	29:D4:47:VAL:H	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:83:G:N2	35:DA:102:G:H2'	2.09	0.67
35:DA:999:U:H2'	35:DA:1000:A:H5"	1.75	0.67
35:DA:1861:G:OP1	37:DC:205:LYS:HA	1.94	0.67
46:DN:67:LEU:HD12	46:DN:67:LEU:H	1.59	0.67
52:DT:83:ILE:HG13	52:DT:84:GLN:HG2	1.76	0.67
1:AA:1296:C:H5'	1:AA:1297:C:OP2	1.94	0.67
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.75	0.67
5:AE:36:ASP:O	5:AE:37:ARG:HB2	1.94	0.67
10:AJ:48:THR:CB	10:AJ:62:HIS:HB3	2.24	0.67
22:AV:63:G:H5'	22:AV:63:G:H8	1.60	0.67
34:B9:15:LYS:NZ	35:BA:2753:A:H1'	2.09	0.67
34:B9:35:ARG:HG2	34:B9:36:GLN:H	1.59	0.67
35:BA:999:U:C2'	35:BA:1000:A:H5"	2.25	0.67
35:BA:2184:G:H2'	35:BA:2185:C:C6	2.30	0.67
35:BA:2875:C:O2'	52:BT:5:ALA:HB3	1.95	0.67
39:BE:61:ARG:HD2	39:BE:62:PRO:HD3	1.75	0.67
40:BF:132:VAL:HG13	40:BF:133:ASN:N	2.08	0.67
48:BP:6:LEU:HD23	48:BP:6:LEU:H	1.60	0.67
1:CA:190:U:H2'	1:CA:191:G:H8	1.58	0.67
1:CA:792:A:H4'	1:CA:793:U:O5'	1.94	0.67
2:CB:82:ARG:HA	2:CB:92:TYR:CE1	2.30	0.67
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.95	0.67
4:CD:28:SER:O	4:CD:30:LYS:N	2.28	0.67
8:CH:5:PRO:O	8:CH:8:ASP:HB3	1.95	0.67
11:CK:57:THR:HG23	11:CK:58:PRO:HD2	1.77	0.67
15:CO:3:ILE:N	15:CO:3:ILE:HD13	2.10	0.67
35:DA:390:A:C6	48:DP:71:VAL:HG21	2.30	0.67
35:DA:1046:A:H2	44:DJ:8:UNK:HA	1.60	0.67
40:DF:25:PRO:O	40:DF:26:ALA:C	2.38	0.67
40:DF:127:GLU:HA	40:DF:127:GLU:OE1	1.94	0.67
41:DG:52:ILE:HG22	41:DG:53:LEU:N	2.10	0.67
59:DI:69:LYS:O	59:DI:73:GLU:HG2	1.94	0.67
45:DK:75:SER:O	45:DK:79:ARG:HG3	1.95	0.67
56:DX:30:VAL:HG11	56:DX:39:ILE:CD1	2.24	0.67
1:AA:1442:G:H1	1:AA:1461:G:H21	1.41	0.67
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.07	0.67
22:AV:68:C:C2'	22:AV:69:G:H5"	2.25	0.67
35:BA:999:U:H2'	35:BA:1000:A:C5'	2.24	0.67
35:BA:2629:A:H2'	35:BA:2629:A:N3	2.07	0.67
36:BB:31:C:H4'	41:BG:29:TRP:CH2	2.30	0.67
37:BC:36:LYS:CG	37:BC:37:PHE:H	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:122:PRO:HG2	41:BG:123:ASN:OD1	1.95	0.67
43:BI:9:LEU:HB2	43:BI:12:LEU:HB2	1.76	0.67
53:BU:69:CYS:HB3	53:BU:106:PHE:CZ	2.30	0.67
57:BY:76:CYS:HG	57:BY:77:PRO:HD2	1.59	0.67
1:CA:1057:G:H5"	3:CC:154:SER:CB	2.24	0.67
21:CU:6:ARG:HE	21:CU:15:ARG:NH2	1.93	0.67
24:CY:54:ARG:HG2	24:CY:54:ARG:O	1.94	0.67
28:D3:3:ARG:HB3	28:D3:36:VAL:CB	2.19	0.67
35:DA:2790:A:C2'	35:DA:2791:C:H5'	2.25	0.67
42:DH:19:VAL:HG21	42:DH:44:VAL:HA	1.76	0.67
59:DI:79:ILE:O	59:DI:144:VAL:HG13	1.94	0.67
45:DK:29:GLN:NE2	45:DK:29:GLN:HA	2.09	0.67
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.43	0.67
47:DO:87:ILE:CG2	47:DO:91:LEU:HA	2.25	0.67
48:DP:41:ARG:HD2	48:DP:41:ARG:N	2.05	0.67
57:DY:95:LYS:HE2	57:DY:100:ALA:HB2	1.77	0.67
1:AA:181:G:N2	1:AA:183:G:H22	1.93	0.67
2:AB:96:ARG:HD3	2:AB:148:TYR:HE1	1.60	0.67
4:AD:57:ARG:HG3	4:AD:57:ARG:HH11	1.60	0.67
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.77	0.67
18:AR:51:LEU:HD22	18:AR:55:ARG:HG3	1.76	0.67
24:AY:312:ARG:HH21	24:AY:325:ARG:NH2	1.92	0.67
26:B1:53:VAL:HG22	26:B1:74:VAL:HG13	1.77	0.67
29:B4:59:VAL:HG12	29:B4:60:GLU:N	2.07	0.67
31:B6:33:LYS:HA	31:B6:33:LYS:CE	2.25	0.67
39:BE:101:ARG:NH2	39:BE:171:GLU:HB2	2.09	0.67
41:BG:39:ILE:C	41:BG:39:ILE:HD12	2.19	0.67
43:BI:78:THR:HA	43:BI:143:SER:HB3	1.76	0.67
52:BT:118:ARG:O	52:BT:121:ILE:N	2.27	0.67
1:CA:1251:A:H1'	1:CA:1369:C:O2'	1.95	0.67
1:CA:1296:C:H5'	1:CA:1297:C:OP2	1.95	0.67
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.59	0.67
3:CC:180:ALA:HB1	3:CC:203:PHE:HE1	1.59	0.67
5:CE:59:GLY:O	5:CE:62:ALA:HB3	1.95	0.67
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	1.75	0.67
35:DA:271(G):C:H2'	35:DA:271(H):G:C8	2.29	0.67
46:DN:46:VAL:O	46:DN:47:ALA:HB3	1.94	0.67
51:DS:83:LYS:O	51:DS:105:ALA:HB3	1.94	0.67
53:DU:58:ARG:O	53:DU:62:ILE:HG12	1.94	0.67
3:AC:180:ALA:HB1	3:AC:203:PHE:HE1	1.60	0.67
4:AD:108:LEU:CD1	4:AD:174:LEU:HD13	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:54:ASP:O	8:AH:56:LYS:HG3	1.95	0.67
11:AK:24:SER:HB3	11:AK:27:ASN:O	1.95	0.67
15:AO:3:ILE:N	15:AO:3:ILE:HD13	2.10	0.67
25:B0:53:MET:HA	25:B0:58:THR:O	1.95	0.67
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	1.94	0.67
35:BA:390:A:C6	48:BP:71:VAL:HG21	2.30	0.67
35:BA:601:C:H5"	40:BF:108:LYS:NZ	2.10	0.67
35:BA:654(G):C:H2'	35:BA:654(H):G:C8	2.29	0.67
42:BH:41:MET:CG	42:BH:54:ARG:HA	2.25	0.67
56:BX:88:LYS:HE3	56:BX:93:GLU:HG3	1.74	0.67
1:CA:386:C:O2'	1:CA:387:U:H5'	1.94	0.67
1:CA:972:C:H4'	10:CJ:57:LYS:HB2	1.76	0.67
1:CA:1442:G:H2'	1:CA:1442(A):G:H5"	1.77	0.67
7:CG:32:ARG:HH11	7:CG:32:ARG:HG2	1.59	0.67
18:CR:21:LYS:HZ3	18:CR:54:ARG:C	2.03	0.67
23:CX:24:A:H3'	24:CY:200:ARG:NH1	2.09	0.67
29:D4:59:VAL:HG12	29:D4:60:GLU:N	2.06	0.67
31:D6:33:LYS:HA	31:D6:33:LYS:CE	2.24	0.67
35:DA:271(A):A:H5'	35:DA:271(B):C:OP2	1.95	0.67
38:DD:10:THR:O	38:DD:13:ARG:HB3	1.95	0.67
47:DO:24:VAL:CG2	47:DO:33:ALA:HB2	2.25	0.67
53:DU:92:ARG:HB2	54:DV:11:GLN:NE2	2.09	0.67
58:DZ:53:ILE:HG23	58:DZ:71:VAL:HB	1.74	0.67
1:AA:1128:C:C5'	9:AI:16:ARG:HH22	2.08	0.66
2:AB:32:ILE:HD11	2:AB:40:HIS:HB3	1.76	0.66
6:AF:43:LEU:HD12	6:AF:43:LEU:N	2.10	0.66
8:AH:13:ILE:O	8:AH:17:THR:HG23	1.95	0.66
9:AI:70:LYS:O	9:AI:74:ILE:HG13	1.95	0.66
14:AN:13:THR:N	14:AN:14:PRO:CD	2.58	0.66
19:AS:18:LYS:O	19:AS:22:LEU:HD23	1.94	0.66
21:AU:6:ARG:HE	21:AU:15:ARG:NH2	1.93	0.66
31:B6:23:THR:HG21	35:BA:2419:U:H4'	1.76	0.66
33:B8:31:HIS:C	33:B8:33:ASN:H	2.03	0.66
35:BA:863:A:O2'	35:BA:864:G:H5'	1.95	0.66
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.25	0.66
35:BA:2653:U:O2'	42:BH:110:SER:HB2	1.94	0.66
40:BF:182:ASN:O	40:BF:186:ILE:HG12	1.96	0.66
46:BN:46:VAL:O	46:BN:47:ALA:HB3	1.96	0.66
50:BR:45:ARG:HG3	50:BR:46:GLY:H	1.59	0.66
1:CA:277:C:H5"	17:CQ:68:ARG:NH2	2.10	0.66
1:CA:525:C:H2'	1:CA:526:C:C6	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.29	0.66
8:CH:54:ASP:O	8:CH:56:LYS:HG3	1.93	0.66
11:CK:48:ILE:HG21	11:CK:63:LEU:HD22	1.77	0.66
24:CY:65:LEU:HD21	24:CY:94:ALA:HB3	1.75	0.66
24:CY:73:LEU:O	24:CY:73:LEU:HD13	1.94	0.66
27:D2:24:LEU:HD21	27:D2:28:LYS:HE2	1.75	0.66
35:DA:2134:A:C2	35:DA:2159:G:H1'	2.31	0.66
35:DA:2162:G:H2'	35:DA:2163:C:H6	1.60	0.66
36:DB:7:G:C3'	36:DB:8:U:H5"	2.25	0.66
39:DE:120:TRP:CD2	39:DE:155:LYS:HD3	2.30	0.66
58:DZ:30:ASN:HD22	58:DZ:32:HIS:N	1.87	0.66
58:DZ:111:VAL:O	58:DZ:113:ALA:N	2.28	0.66
5:AE:102:ALA:HA	5:AE:120:THR:OG1	1.96	0.66
6:AF:24:GLU:HB2	6:AF:28:ARG:NH1	2.09	0.66
6:AF:78:GLU:O	6:AF:81:ILE:HD11	1.95	0.66
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.94	0.66
14:AN:23:ARG:NH1	14:AN:30:ALA:HB2	2.09	0.66
18:AR:21:LYS:HZ3	18:AR:54:ARG:C	2.03	0.66
22:AW:5:G:H1'	22:AW:69:G:H22	1.58	0.66
24:AY:118:LEU:HD12	24:AY:210:VAL:HG13	1.78	0.66
24:AY:253:HIS:CD2	24:AY:283:LEU:HD11	2.31	0.66
31:B6:16:CYS:O	31:B6:17:LYS:HB2	1.95	0.66
35:BA:271(G):C:H2'	35:BA:271(H):G:C8	2.30	0.66
36:BB:7:G:H2'	36:BB:8:U:H5"	1.75	0.66
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.23	0.66
40:BF:24:LEU:C	40:BF:26:ALA:H	2.02	0.66
42:BH:138:LYS:O	42:BH:141:VAL:HG12	1.96	0.66
45:BK:131:ALA:HB1	45:BK:136:VAL:O	1.95	0.66
46:BN:58:ASP:O	46:BN:60:ILE:N	2.27	0.66
52:BT:83:ILE:HG13	52:BT:84:GLN:HG2	1.75	0.66
1:CA:103:C:OP2	20:CT:14:LYS:HE3	1.94	0.66
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.95	0.66
4:CD:128:VAL:HG12	4:CD:129:ASN:H	1.60	0.66
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.77	0.66
22:CW:39:U:C2'	22:CW:40:C:H5'	2.24	0.66
30:D5:33:CYS:SG	30:D5:49:CYS:CB	2.83	0.66
33:D8:7:HIS:CB	33:D8:59:LYS:HD2	2.26	0.66
35:DA:2137:C:H2'	35:DA:2138:C:C6	2.31	0.66
37:DC:42:GLU:HB2	37:DC:44:HIS:NE2	2.11	0.66
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.30	0.66
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:128:ARG:HB3	41:DG:130:ASN:HD22	1.59	0.66
45:DK:91:PRO:C	58:DZ:112:ARG:HH21	2.02	0.66
47:DO:3:GLN:HG3	47:DO:4:PRO:HD2	1.76	0.66
58:DZ:152:ALA:CB	58:DZ:168:GLU:N	2.57	0.66
1:AA:376:G:OP2	16:AP:67:THR:HG21	1.95	0.66
2:AB:19:HIS:O	2:AB:39:ILE:HG22	1.95	0.66
5:AE:15:ARG:HG2	5:AE:15:ARG:O	1.96	0.66
25:B0:41:ARG:HD2	25:B0:41:ARG:N	2.02	0.66
35:BA:1067:A:H8	35:BA:1067:A:H5'	1.59	0.66
35:BA:1106:G:H2'	35:BA:1107:G:O4'	1.95	0.66
39:BE:16:ARG:O	39:BE:17:ASP:HB3	1.94	0.66
44:BJ:65:UNK:C	44:BJ:67:UNK:H	2.08	0.66
50:BR:2:ARG:HH12	50:BR:5:LYS:HZ1	1.44	0.66
53:BU:76:TYR:CZ	53:BU:80:ILE:HG13	2.30	0.66
1:CA:67:C:H2'	1:CA:68:G:C8	2.29	0.66
1:CA:181:G:N2	1:CA:183:G:H22	1.93	0.66
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.29	0.66
2:CB:121:LEU:O	2:CB:121:LEU:HD23	1.95	0.66
18:CR:88:LYS:HE2	18:CR:88:LYS:C	2.20	0.66
35:DA:1106:G:H2'	35:DA:1107:G:O4'	1.94	0.66
35:DA:1847:A:H2'	35:DA:1847:A:OP1	1.95	0.66
35:DA:1946:U:H2'	35:DA:1947:C:H6	1.59	0.66
41:DG:88:ILE:HG13	41:DG:89:GLY:N	2.10	0.66
42:DH:153:LYS:HD3	42:DH:153:LYS:H	1.59	0.66
59:DI:72:LEU:HD21	59:DI:107:ILE:HG21	1.77	0.66
59:DI:111:PRO:HG2	59:DI:112:LYS:HG3	1.77	0.66
55:DW:5:ALA:CB	55:DW:50:VAL:HG23	2.21	0.66
1:AA:190:U:H2'	1:AA:191:G:H8	1.59	0.66
1:AA:357:G:H2'	1:AA:358:U:H5"	1.75	0.66
1:AA:972:C:H4'	10:AJ:57:LYS:HB2	1.75	0.66
3:AC:53:ALA:HB2	3:AC:115:LEU:CD2	2.24	0.66
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.76	0.66
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.95	0.66
8:AH:10:LEU:HD23	8:AH:10:LEU:N	2.08	0.66
12:AL:81:SER:O	12:AL:82:VAL:HB	1.96	0.66
16:AP:68:ASP:O	16:AP:71:ARG:HG2	1.95	0.66
30:B5:3:LYS:HA	30:B5:3:LYS:CE	2.20	0.66
34:B9:11:CYS:HB3	34:B9:13:LYS:H	1.60	0.66
35:BA:589:C:H2'	35:BA:590:A:C8	2.30	0.66
35:BA:1021:A:H3'	35:BA:1021:A:H8	1.60	0.66
35:BA:1812:A:H1'	38:BD:45:ASN:OD1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2137:C:H2'	35:BA:2138:C:C6	2.30	0.66
1:CA:625:G:H2'	1:CA:626:U:H6	1.60	0.66
1:CA:1216:G:H2'	1:CA:1217:C:H6	1.60	0.66
19:CS:18:LYS:O	19:CS:22:LEU:HD23	1.94	0.66
24:CY:213:GLU:O	24:CY:213:GLU:HG3	1.94	0.66
34:D9:15:LYS:NZ	35:DA:2753:A:H1'	2.10	0.66
35:DA:404:C:H4'	35:DA:405:U:H5'	1.77	0.66
35:DA:2267:A:H5"	35:DA:2268:A:H5'	1.76	0.66
39:DE:55:ASN:O	39:DE:57:LYS:N	2.25	0.66
39:DE:61:ARG:HD2	39:DE:62:PRO:HD3	1.75	0.66
44:DJ:25:UNK:HA	44:DJ:116:UNK:CB	2.24	0.66
48:DP:7:ARG:HB2	48:DP:8:PRO:HD3	1.77	0.66
58:DZ:91:LEU:HD12	58:DZ:91:LEU:N	2.07	0.66
24:AY:35:ASP:O	24:AY:37:SER:N	2.28	0.66
28:B3:2:PRO:HA	28:B3:59:VAL:O	1.95	0.66
35:BA:2189:U:H2'	35:BA:2190:G:C5'	2.25	0.66
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.44	0.66
49:BQ:55:VAL:CG2	49:BQ:56:ARG:H	2.09	0.66
54:BV:19:LYS:HG3	54:BV:20:LEU:O	1.96	0.66
58:BZ:18:LEU:CD2	58:BZ:25:PRO:HG3	2.25	0.66
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.31	0.66
1:CA:376:G:OP2	16:CP:67:THR:HG21	1.96	0.66
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.29	0.66
14:CN:3:ARG:NH1	14:CN:3:ARG:HB3	2.09	0.66
18:CR:51:LEU:HD22	18:CR:55:ARG:HG3	1.75	0.66
24:CY:10:LEU:HD12	24:CY:11:GLU:H	1.60	0.66
24:CY:113:GLU:CD	24:CY:113:GLU:N	2.53	0.66
29:D4:43:GLY:H	29:D4:60:GLU:CA	2.02	0.66
29:D4:46:ASN:HD22	29:D4:47:VAL:H	1.44	0.66
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.31	0.66
35:DA:1484:G:H2'	35:DA:1485:G:H5"	1.76	0.66
35:DA:1685:C:H2'	35:DA:1686:C:H5'	1.78	0.66
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.01	0.66
41:DG:34:LEU:HD12	41:DG:172:LEU:HD21	1.76	0.66
42:DH:19:VAL:HG11	42:DH:44:VAL:HG22	1.76	0.66
45:DK:105:LEU:HG	45:DK:120:LEU:HD22	1.77	0.66
52:DT:50:ILE:HD11	52:DT:64:ARG:N	2.10	0.66
1:AA:192:U:H2'	1:AA:193:C:H6	1.61	0.66
1:AA:857:C:H2'	1:AA:858:G:O4'	1.95	0.66
11:AK:84:VAL:CG2	11:AK:110:ASP:HA	2.26	0.66
15:AO:87:ILE:HG22	15:AO:88:ARG:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:53:MET:CB	25:B0:59:LEU:HD23	2.26	0.66
30:B5:3:LYS:HB2	35:BA:747:U:C5	2.31	0.66
31:B6:23:THR:HG21	35:BA:2419:U:C5'	2.25	0.66
35:BA:910:A:C5	49:BQ:13:GLN:HG3	2.31	0.66
35:BA:1494:A:C2'	35:BA:1495:A:H5"	2.26	0.66
35:BA:1880:C:H5'	35:BA:1880:C:H6	1.61	0.66
35:BA:1899:G:N2	35:BA:1902:C:N4	2.39	0.66
35:BA:2134:A:C2	35:BA:2159:G:H1'	2.30	0.66
35:BA:2682:U:C5	39:BE:11:MET:HE2	2.31	0.66
37:BC:103:ILE:C	37:BC:105:ASP:H	2.03	0.66
39:BE:79:ARG:HH12	39:BE:195:LEU:HD21	1.61	0.66
40:BF:25:PRO:O	40:BF:26:ALA:C	2.39	0.66
54:BV:46:VAL:HG22	54:BV:47:VAL:N	2.07	0.66
58:BZ:105:VAL:O	58:BZ:140:ASP:HA	1.96	0.66
2:CB:96:ARG:HD3	2:CB:148:TYR:HE1	1.59	0.66
9:CI:70:LYS:O	9:CI:74:ILE:HG13	1.96	0.66
35:DA:755:C:H2'	35:DA:756:C:C6	2.30	0.66
35:DA:943:U:OP2	48:DP:38:GLN:CD	2.38	0.66
35:DA:2617:C:O2'	35:DA:2618:G:H5'	1.96	0.66
35:DA:2759:G:O2'	35:DA:2760:C:H5'	1.96	0.66
35:DA:2790:A:H2'	35:DA:2791:C:H5'	1.77	0.66
38:DD:243:GLY:O	38:DD:244:ARG:CB	2.42	0.66
40:DF:184:TYR:O	40:DF:188:ARG:HB2	1.96	0.66
59:DI:81:VAL:HG13	59:DI:82:ARG:N	2.08	0.66
45:DK:93:ARG:HB3	58:DZ:112:ARG:CZ	2.26	0.66
46:DN:76:SER:OG	46:DN:77:GLY:N	2.24	0.66
54:DV:99:ILE:HD13	54:DV:99:ILE:N	2.10	0.66
1:AA:1321:C:C3'	1:AA:1322:C:H5"	2.25	0.66
10:AJ:25:GLU:HA	10:AJ:28:ARG:HB2	1.77	0.66
41:BG:83:ARG:HE	41:BG:84:LYS:NZ	1.94	0.66
45:BK:121:GLU:CD	45:BK:121:GLU:H	2.03	0.66
46:BN:126:PRO:O	46:BN:127:ASP:HB2	1.95	0.66
1:CA:189(K):U:H2'	1:CA:189(L):G:H8	1.58	0.66
1:CA:542:G:H2'	1:CA:543:C:H6	1.61	0.66
1:CA:575:G:H4'	1:CA:576:G:H5"	1.78	0.66
1:CA:1417:G:H22	1:CA:1482:G:H2'	1.58	0.66
4:CD:57:ARG:HH11	4:CD:57:ARG:HG3	1.61	0.66
6:CF:19:LEU:O	6:CF:23:LYS:HG3	1.96	0.66
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.77	0.66
24:CY:279:LEU:HD23	24:CY:279:LEU:C	2.20	0.66
28:D3:1:MET:HB3	28:D3:39:ASP:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1497:U:O2	35:DA:1497:U:H2'	1.95	0.66
35:DA:2168:G:N2	35:DA:2170:A:H3'	2.11	0.66
35:DA:2394:C:OP1	48:DP:63:PRO:HD2	1.96	0.66
35:DA:2807:G:H3'	35:DA:2808:U:H5"	1.76	0.66
41:DG:129:GLY:HA2	41:DG:163:ALA:HB3	1.76	0.66
59:DI:81:VAL:HA	59:DI:145:VAL:O	1.95	0.66
59:DI:123:LEU:HD11	59:DI:146:ALA:N	2.11	0.66
56:DX:24:GLY:O	56:DX:82:GLN:HA	1.95	0.66
1:AA:556:C:O2'	1:AA:557:G:H5'	1.95	0.66
15:AO:61:GLY:O	15:AO:64:ARG:HB3	1.96	0.66
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.78	0.66
22:AV:45:U:H2'	22:AV:46:G:H5'	1.77	0.66
30:B5:40:LYS:NZ	30:B5:49:CYS:SG	2.68	0.66
35:BA:1046:A:H2	44:BJ:8:UNK:HA	1.61	0.66
39:BE:203:LYS:HE2	39:BE:204:ALA:HB2	1.75	0.66
45:BK:29:GLN:HA	45:BK:29:GLN:NE2	2.10	0.66
46:BN:102:ALA:O	46:BN:106:MET:HE3	1.96	0.66
52:BT:99:LEU:HD13	52:BT:102:ILE:HD11	1.77	0.66
1:CA:191:G:H1'	20:CT:105:SER:HA	1.75	0.66
1:CA:192:U:H2'	1:CA:193:C:H6	1.61	0.66
2:CB:32:ILE:HD11	2:CB:40:HIS:HB3	1.77	0.66
2:CB:219:VAL:O	2:CB:223:ILE:HG23	1.96	0.66
6:CF:43:LEU:HD12	6:CF:43:LEU:N	2.10	0.66
9:CI:78:LYS:HB2	9:CI:78:LYS:NZ	2.11	0.66
11:CK:108:ILE:HB	18:CR:87:ARG:HA	1.76	0.66
15:CO:43:LEU:HD11	15:CO:53:HIS:HA	1.77	0.66
35:DA:27:G:HO2'	35:DA:28:A:H8	1.44	0.66
35:DA:57:C:O2'	35:DA:58:G:H5'	1.96	0.66
35:DA:1090:U:H2'	35:DA:1091:G:C8	2.31	0.66
35:DA:2127:G:HO2'	35:DA:2173:A:H2	1.40	0.66
40:DF:132:VAL:HG13	40:DF:133:ASN:N	2.10	0.66
42:DH:67:LEU:O	42:DH:71:LEU:HB2	1.96	0.66
44:DJ:65:UNK:C	44:DJ:67:UNK:H	2.07	0.66
58:DZ:108:PRO:HB3	58:DZ:141:VAL:O	1.94	0.66
1:AA:67:C:H2'	1:AA:68:G:C8	2.30	0.66
1:AA:1237:C:OP1	1:AA:1238:A:H1'	1.96	0.66
4:AD:128:VAL:HG12	4:AD:129:ASN:H	1.60	0.66
16:AP:6:LEU:HD12	16:AP:6:LEU:N	2.10	0.66
24:AY:337:LEU:O	24:AY:338:ASP:HB2	1.95	0.66
29:B4:46:ASN:HD22	29:B4:47:VAL:H	1.44	0.66
35:BA:996:A:C4'	53:BU:92:ARG:HD2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1907:G:O2'	35:BA:1908:C:H5'	1.96	0.66
36:BB:56:G:H4'	36:BB:57:A:O5'	1.95	0.66
38:BD:243:GLY:O	38:BD:244:ARG:CB	2.42	0.66
45:BK:111:LYS:C	45:BK:113:PRO:HD2	2.21	0.66
54:BV:18:LEU:HD22	54:BV:19:LYS:H	1.61	0.66
54:BV:22:VAL:O	54:BV:23:GLU:HB2	1.95	0.66
56:BX:14:SER:H	56:BX:17:ALA:HB3	1.59	0.66
1:CA:1128:C:C5'	9:CI:16:ARG:HH22	2.08	0.66
1:CA:1346:A:C5'	9:CI:120:ARG:HH12	2.07	0.66
2:CB:181:PHE:HE1	8:CH:71:GLY:H	1.44	0.66
11:CK:24:SER:HB3	11:CK:27:ASN:O	1.96	0.66
24:CY:286:LEU:O	24:CY:286:LEU:HD23	1.96	0.66
35:DA:8:A:H2'	35:DA:9:U:C6	2.29	0.66
35:DA:1598:C:O3'	56:DX:35:THR:HG23	1.96	0.66
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.31	0.66
38:DD:270:ILE:O	38:DD:271:ILE:HG13	1.95	0.66
42:DH:98:LEU:HB2	42:DH:125:VAL:CG2	2.26	0.66
42:DH:98:LEU:HB2	42:DH:125:VAL:CB	2.26	0.66
48:DP:140:ALA:O	48:DP:141:ALA:HB2	1.96	0.66
52:DT:28:VAL:CG1	52:DT:46:GLU:HG3	2.26	0.66
1:AA:542:G:H2'	1:AA:543:C:H6	1.60	0.66
1:AA:1254:C:OP1	10:AJ:45:ARG:HD3	1.96	0.66
2:AB:164:VAL:O	2:AB:186:ALA:HB1	1.96	0.66
3:AC:92:ALA:HA	3:AC:99:VAL:HG11	1.77	0.66
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.96	0.66
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.26	0.66
12:AL:87:GLY:HA2	12:AL:98:TYR:HA	1.78	0.66
18:AR:52:PRO:O	18:AR:56:THR:HG23	1.96	0.66
26:B1:45:ASN:ND2	35:BA:2090:G:H21	1.94	0.66
27:B2:17:SER:HB2	27:B2:18:PRO:HD2	1.77	0.66
35:BA:8:A:H2'	35:BA:9:U:C6	2.29	0.66
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.31	0.66
35:BA:321:G:C2	40:BF:165:ARG:NH1	2.64	0.66
35:BA:2828:C:O2'	35:BA:2829:C:H5'	1.97	0.66
41:BG:130:ASN:OD1	41:BG:160:VAL:HA	1.96	0.66
48:BP:84:ASN:HA	48:BP:115:LEU:O	1.95	0.66
49:BQ:109:VAL:HG12	49:BQ:113:GLN:HB2	1.78	0.66
51:BS:17:ARG:C	51:BS:19:LYS:N	2.49	0.66
52:BT:107:ASP:H	52:BT:110:ILE:HG13	1.61	0.66
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.31	0.66
4:CD:134:ASP:O	4:CD:136:PRO:HD3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.95	0.66
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	1.78	0.66
52:DT:104:ASN:O	52:DT:106:SER:N	2.28	0.66
57:DY:27:VAL:HA	57:DY:28:LYS:HZ1	1.59	0.66
1:AA:294:U:H2'	1:AA:295:C:H6	1.62	0.65
1:AA:390:C:H2'	1:AA:391:G:C8	2.31	0.65
1:AA:1251:A:H1'	1:AA:1369:C:O2'	1.96	0.65
22:AW:5:G:N2	22:AW:68:C:H42	1.89	0.65
29:B4:52:SER:HB3	41:BG:143:GLU:OE1	1.96	0.65
35:BA:518:G:H4'	55:BW:18:ARG:NH1	2.10	0.65
46:BN:76:SER:OG	46:BN:77:GLY:N	2.28	0.65
49:BQ:43:THR:OG1	49:BQ:46:GLN:HG3	1.96	0.65
50:BR:24:GLN:CB	50:BR:44:LEU:HD21	2.25	0.65
51:BS:106:ARG:NH1	51:BS:109:GLY:N	2.44	0.65
57:BY:28:LYS:CB	57:BY:37:VAL:HB	2.21	0.65
1:CA:532:A:H2	1:CA:1207:G:H1'	1.58	0.65
1:CA:818:G:O2'	1:CA:819:A:H5'	1.95	0.65
2:CB:164:VAL:O	2:CB:186:ALA:HB1	1.95	0.65
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.77	0.65
2:CB:211:ILE:O	2:CB:215:LEU:HD23	1.97	0.65
4:CD:30:LYS:CB	4:CD:35:ARG:HD2	2.26	0.65
5:CE:42:GLY:O	5:CE:62:ALA:HB1	1.96	0.65
6:CF:82:ARG:HH11	6:CF:82:ARG:HB3	1.59	0.65
7:CG:87:VAL:HG13	7:CG:151:TYR:O	1.94	0.65
9:CI:46:ALA:HA	9:CI:78:LYS:HZ2	1.61	0.65
11:CK:84:VAL:CG2	11:CK:110:ASP:HA	2.26	0.65
12:CL:81:SER:O	12:CL:82:VAL:HB	1.96	0.65
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.78	0.65
26:D1:86:SER:CB	26:D1:90:ILE:HG12	2.26	0.65
28:D3:7:LYS:O	28:D3:9:VAL:HG13	1.95	0.65
31:D6:43:CYS:O	31:D6:44:ARG:HB2	1.95	0.65
33:D8:4:MET:HB2	33:D8:61:LEU:HD13	1.76	0.65
35:DA:2024:G:H2'	35:DA:2025:C:C6	2.31	0.65
35:DA:2599:G:C8	38:DD:237:GLU:HG3	2.30	0.65
36:DB:56:G:H4'	36:DB:57:A:O5'	1.95	0.65
37:DC:68:LEU:HD11	37:DC:180:PHE:N	2.11	0.65
41:DG:2:PRO:HD2	41:DG:5:VAL:CG1	2.26	0.65
41:DG:82:LEU:HD13	41:DG:87:PRO:HB3	1.78	0.65
59:DI:117:GLU:O	59:DI:119:PRO:HD3	1.95	0.65
45:DK:121:GLU:CD	45:DK:121:GLU:H	2.04	0.65
57:DY:96:ILE:HG22	57:DY:97:ARG:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:128:VAL:CG2	58:DZ:132:ASN:HB2	2.26	0.65
1:AA:723:U:H2'	1:AA:723:U:O2	1.96	0.65
26:B1:8:SER:HB3	26:B1:66:HIS:ND1	2.10	0.65
26:B1:94:LEU:O	26:B1:96:LYS:N	2.28	0.65
31:B6:44:ARG:C	31:B6:45:LYS:HG2	2.19	0.65
35:BA:755:C:H2'	35:BA:756:C:C6	2.30	0.65
35:BA:911:A:H2'	49:BQ:9:TYR:OH	1.96	0.65
35:BA:2162:G:H2'	35:BA:2163:C:H6	1.61	0.65
37:BC:43:VAL:HG23	37:BC:178:ALA:HB2	1.77	0.65
38:BD:10:THR:O	38:BD:13:ARG:HB3	1.97	0.65
41:BG:17:PRO:HA	41:BG:20:ILE:HB	1.76	0.65
43:BI:109:ILE:N	43:BI:109:ILE:HD13	2.11	0.65
44:BJ:25:UNK:HA	44:BJ:116:UNK:CB	2.26	0.65
45:BK:7:VAL:HG12	45:BK:58:THR:HG23	1.78	0.65
51:BS:79:ALA:C	51:BS:80:LEU:HD12	2.22	0.65
52:BT:30:VAL:HG23	52:BT:31:SER:N	2.08	0.65
1:CA:192:U:H2'	1:CA:193:C:C6	2.31	0.65
1:CA:857:C:H2'	1:CA:858:G:O4'	1.95	0.65
1:CA:1128:C:H5'	9:CI:16:ARG:HH22	1.59	0.65
13:CM:54:VAL:O	13:CM:58:GLU:HG2	1.95	0.65
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.78	0.65
21:CU:6:ARG:HE	21:CU:15:ARG:HH21	1.43	0.65
22:CW:49:C:H42	22:CW:65:G:H1	1.43	0.65
24:CY:72:LEU:O	24:CY:76:MET:HB2	1.96	0.65
26:D1:26:ARG:HG3	26:D1:27:GLU:N	2.11	0.65
28:D3:2:PRO:HA	28:D3:59:VAL:O	1.95	0.65
35:DA:330:A:HO2'	35:DA:331:A:H8	1.43	0.65
35:DA:999:U:C2'	35:DA:1000:A:H5"	2.27	0.65
35:DA:1381:G:H1'	35:DA:1571:A:N1	2.12	0.65
39:DE:92:THR:O	39:DE:95:ILE:HD13	1.96	0.65
40:DF:20:LEU:HB3	40:DF:23:ASP:OD2	1.95	0.65
59:DI:130:TYR:O	59:DI:132:PRO:HD3	1.96	0.65
45:DK:131:ALA:HB1	45:DK:136:VAL:O	1.96	0.65
48:DP:147:LEU:CG	48:DP:148:LEU:H	2.08	0.65
49:DQ:55:VAL:HG23	49:DQ:56:ARG:N	2.11	0.65
50:DR:10:LEU:HD22	50:DR:17:ARG:HD2	1.78	0.65
51:DS:89:ARG:HB3	51:DS:92:TYR:CB	2.24	0.65
58:DZ:39:VAL:HG21	58:DZ:44:PHE:HD2	1.61	0.65
1:AA:1478:C:O2'	1:AA:1479:C:H5'	1.97	0.65
2:AB:82:ARG:HA	2:AB:92:TYR:CE1	2.30	0.65
4:AD:134:ASP:O	4:AD:136:PRO:HD3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	1.95	0.65
22:AW:38:A:H2'	22:AW:39:U:H5"	1.77	0.65
35:BA:247:G:H4'	35:BA:386:G:C5	2.32	0.65
35:BA:1038:C:C3'	35:BA:1039:G:H5"	2.26	0.65
35:BA:2842:G:O2'	35:BA:2843:G:H5'	1.97	0.65
39:BE:59:VAL:HG22	39:BE:63:LEU:HA	1.78	0.65
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	1.79	0.65
41:BG:21:ARG:HH11	41:BG:21:ARG:CB	2.04	0.65
41:BG:39:ILE:HD11	41:BG:60:LEU:HD11	1.78	0.65
51:BS:17:ARG:HA	51:BS:20:ARG:HG2	1.78	0.65
51:BS:34:HIS:CE1	51:BS:54:LEU:HB2	2.32	0.65
52:BT:7:ILE:O	52:BT:10:VAL:HB	1.96	0.65
55:BW:34:ASN:O	55:BW:37:ARG:HB3	1.95	0.65
58:BZ:102:LEU:HD11	58:BZ:124:ILE:HG22	1.79	0.65
1:CA:1109:C:O2'	1:CA:1110:A:H5'	1.97	0.65
6:CF:24:GLU:HB2	6:CF:28:ARG:NH1	2.11	0.65
10:CJ:97:GLU:C	10:CJ:98:ILE:HD12	2.21	0.65
20:CT:58:LYS:HE3	20:CT:62:LEU:HD11	1.77	0.65
26:D1:64:ALA:O	26:D1:67:ILE:HG13	1.96	0.65
27:D2:55:ARG:NH1	35:DA:75:G:H4'	2.11	0.65
31:D6:19:ARG:HG2	31:D6:20:ASN:N	2.08	0.65
35:DA:560:C:H4'	53:DU:52:ARG:HH22	1.55	0.65
35:DA:999:U:H2'	35:DA:1000:A:C5'	2.27	0.65
35:DA:1562:A:H2'	35:DA:1563:G:C8	2.32	0.65
41:DG:170:ARG:O	41:DG:174:GLU:HB2	1.96	0.65
49:DQ:109:VAL:HG12	49:DQ:113:GLN:HB2	1.76	0.65
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.77	0.65
1:AA:191:G:C4	20:AT:105:SER:HB3	2.32	0.65
1:AA:192:U:H2'	1:AA:193:C:C6	2.31	0.65
1:AA:932:C:H5"	7:AG:3:ARG:HD2	1.79	0.65
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.31	0.65
1:AA:1095:U:H5'	1:AA:1109:C:O2	1.95	0.65
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.78	0.65
5:AE:42:GLY:O	5:AE:62:ALA:HB1	1.97	0.65
13:AM:112:GLY:O	13:AM:113:PRO:C	2.40	0.65
24:AY:189:LEU:HD13	24:AY:189:LEU:C	2.22	0.65
26:B1:3:LYS:HB3	26:B1:61:ARG:NH1	2.12	0.65
28:B3:1:MET:HB3	28:B3:39:ASP:HB2	1.78	0.65
28:B3:2:PRO:HG3	28:B3:58:VAL:HG12	1.79	0.65
28:B3:3:ARG:O	28:B3:37:LEU:N	2.29	0.65
31:B6:13:CYS:O	31:B6:21:TYR:HA	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:30:ARG:CZ	35:BA:2419:U:O4	2.45	0.65
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.31	0.65
39:BE:49:LEU:H	39:BE:49:LEU:CD1	2.09	0.65
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.26	0.65
48:BP:102:ARG:O	48:BP:102:ARG:HD2	1.95	0.65
49:BQ:34:LEU:HD11	49:BQ:129:THR:HB	1.77	0.65
50:BR:33:ARG:N	50:BR:33:ARG:HD2	2.11	0.65
51:BS:20:ARG:HA	51:BS:20:ARG:NE	2.12	0.65
52:BT:80:SER:OG	52:BT:81:PRO:HD3	1.96	0.65
57:BY:2:ARG:N	57:BY:5:MET:HE3	2.10	0.65
58:BZ:86:VAL:O	58:BZ:86:VAL:HG23	1.96	0.65
1:CA:1053:G:N7	1:CA:1200:C:H5"	2.10	0.65
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.12	0.65
7:CG:84:ASN:ND2	22:CW:33:U:H4'	2.12	0.65
8:CH:13:ILE:O	8:CH:17:THR:HG23	1.96	0.65
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.10	0.65
19:CS:40:ILE:CG2	19:CS:62:ILE:HD11	2.25	0.65
28:D3:2:PRO:HD2	28:D3:39:ASP:CB	2.26	0.65
33:D8:31:HIS:C	33:D8:33:ASN:H	2.04	0.65
33:D8:59:LYS:HD3	48:DP:50:ARG:CG	2.25	0.65
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.31	0.65
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.31	0.65
35:DA:1436:G:C2'	35:DA:1437:C:H5"	2.26	0.65
35:DA:2681:C:H5	35:DA:2725:A:N6	1.93	0.65
36:DB:7:G:H2'	36:DB:8:U:H5"	1.77	0.65
38:DD:182:LEU:O	38:DD:271:ILE:HD12	1.97	0.65
39:DE:97:LYS:O	39:DE:100:GLU:HG3	1.96	0.65
55:DW:4:LYS:HD2	55:DW:6:ILE:HD11	1.78	0.65
1:AA:224:C:H2'	1:AA:225:C:C6	2.32	0.65
1:AA:674:G:H2'	1:AA:675:A:H8	1.61	0.65
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.11	0.65
3:AC:82:GLU:O	3:AC:86:VAL:HG13	1.97	0.65
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.30	0.65
4:AD:14:ARG:HA	4:AD:39:PRO:HG3	1.78	0.65
4:AD:76:ARG:HH11	4:AD:76:ARG:HG2	1.62	0.65
10:AJ:97:GLU:C	10:AJ:98:ILE:HD12	2.20	0.65
13:AM:24:GLY:C	13:AM:25:ILE:HD12	2.21	0.65
24:AY:192:PRO:HA	24:AY:201:ARG:HA	1.79	0.65
35:BA:83:G:N2	35:BA:102:G:H2'	2.12	0.65
35:BA:606:U:H4'	35:BA:658:C:H4'	1.79	0.65
35:BA:2334:G:N2	51:BS:18:ILE:HD11	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.31	0.65
38:BD:91:ARG:HH11	38:BD:91:ARG:HG2	1.62	0.65
41:BG:52:ILE:HG22	41:BG:54:GLU:HG2	1.79	0.65
41:BG:66:GLN:O	41:BG:92:VAL:HG21	1.97	0.65
42:BH:67:LEU:O	42:BH:71:LEU:HB2	1.96	0.65
42:BH:83:TYR:H	42:BH:83:TYR:HD1	1.45	0.65
46:BN:78:TYR:N	46:BN:78:TYR:CD1	2.65	0.65
46:BN:128:HIS:O	46:BN:130:HIS:N	2.26	0.65
47:BO:107:ARG:NH1	52:BT:35:LYS:HD2	2.11	0.65
50:BR:61:HIS:O	50:BR:65:LEU:HD13	1.97	0.65
52:BT:28:VAL:CG1	52:BT:46:GLU:HG3	2.26	0.65
54:BV:18:LEU:HD13	54:BV:19:LYS:N	2.10	0.65
57:BY:29:GLU:N	57:BY:29:GLU:OE1	2.29	0.65
1:CA:1118:C:OP1	9:CI:9:ARG:HD2	1.94	0.65
2:CB:19:HIS:O	2:CB:39:ILE:HG22	1.96	0.65
2:CB:204:ASN:ND2	2:CB:207:ALA:HB3	2.12	0.65
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.61	0.65
25:D0:53:MET:HA	25:D0:58:THR:O	1.96	0.65
31:D6:11:LEU:HD22	31:D6:11:LEU:N	2.12	0.65
42:DH:148:ILE:O	42:DH:151:ILE:HG12	1.97	0.65
45:DK:33:ASN:ND2	45:DK:63:ARG:HD3	2.11	0.65
46:DN:97:ARG:HA	46:DN:100:GLU:HB2	1.78	0.65
50:DR:33:ARG:HD2	50:DR:33:ARG:N	2.11	0.65
50:DR:45:ARG:HG3	50:DR:46:GLY:H	1.62	0.65
53:DU:76:TYR:CZ	53:DU:80:ILE:HG13	2.32	0.65
58:DZ:59:LEU:N	58:DZ:67:LEU:O	2.23	0.65
58:DZ:128:VAL:HG22	58:DZ:129:SER:H	1.60	0.65
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.60	0.65
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.61	0.65
1:AA:1429:C:H2'	1:AA:1430:C:H6	1.60	0.65
2:AB:18:GLY:N	2:AB:42:ILE:HG22	2.11	0.65
3:AC:92:ALA:HB2	3:AC:99:VAL:CG2	2.25	0.65
9:AI:45:ALA:O	9:AI:48:GLU:HB2	1.96	0.65
10:AJ:34:VAL:HG13	10:AJ:74:ILE:HA	1.79	0.65
10:AJ:96:ILE:N	10:AJ:96:ILE:HD13	2.12	0.65
11:AK:17:GLY:HA3	11:AK:77:MET:SD	2.37	0.65
22:AV:53:G:H2'	22:AV:54:U:C6	2.30	0.65
31:B6:43:CYS:O	31:B6:44:ARG:HB2	1.95	0.65
35:BA:1080:C:H2'	35:BA:1081:U:H6	1.60	0.65
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.79	0.65
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2314:C:C5'	41:BG:38:VAL:HG21	2.26	0.65
35:BA:2876:G:H1'	52:BT:3:ARG:HH21	1.61	0.65
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.31	0.65
40:BF:29:ASN:N	40:BF:112:MET:HE3	2.10	0.65
41:BG:39:ILE:HD13	41:BG:60:LEU:HD21	1.78	0.65
42:BH:115:VAL:HG12	42:BH:116:GLU:H	1.62	0.65
43:BI:4:ILE:CG2	43:BI:5:LEU:N	2.60	0.65
43:BI:62:LYS:HE2	43:BI:133:HIS:NE2	2.10	0.65
51:BS:17:ARG:HA	51:BS:20:ARG:HH11	1.61	0.65
1:CA:963:G:H21	10:CJ:55:LYS:HZ2	1.44	0.65
1:CA:1409:C:O2'	1:CA:1410:G:H5'	1.97	0.65
1:CA:1502:A:H2	1:CA:1505:G:H22	1.44	0.65
22:CW:72:C:H2'	22:CW:73:A:O4'	1.97	0.65
31:D6:17:LYS:HD3	31:D6:17:LYS:C	2.22	0.65
35:DA:1097:U:C2'	35:DA:1098:A:H5'	2.27	0.65
35:DA:2334:G:H21	51:DS:18:ILE:CG1	2.09	0.65
38:DD:68:LYS:O	38:DD:68:LYS:HG3	1.97	0.65
46:DN:78:TYR:N	46:DN:78:TYR:CD1	2.64	0.65
48:DP:84:ASN:HA	48:DP:115:LEU:O	1.97	0.65
51:DS:36:TYR:N	51:DS:36:TYR:CD1	2.65	0.65
57:DY:101:LYS:HG2	57:DY:102:CYS:N	2.11	0.65
1:AA:473:G:H2'	1:AA:474:G:H8	1.62	0.65
1:AA:492:G:H5"	59:DI:8:PRO:HD3	1.76	0.65
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.60	0.65
2:AB:96:ARG:N	2:AB:96:ARG:HD2	2.12	0.65
6:AF:82:ARG:HB3	6:AF:82:ARG:NH1	2.12	0.65
19:AS:42:PRO:O	19:AS:43:GLU:HB3	1.95	0.65
23:AX:19:U:H2'	23:AX:20:U:O4'	1.97	0.65
25:B0:41:ARG:H	25:B0:41:ARG:CD	1.97	0.65
35:BA:1497:U:H2'	35:BA:1497:U:O2	1.95	0.65
38:BD:68:LYS:O	38:BD:68:LYS:HG3	1.96	0.65
39:BE:110:GLY:O	50:BR:2:ARG:HD3	1.97	0.65
40:BF:24:LEU:HD12	40:BF:25:PRO:CD	2.21	0.65
41:BG:22:ARG:HH11	41:BG:22:ARG:CB	2.02	0.65
42:BH:85:LYS:HE2	42:BH:145:ALA:CA	2.27	0.65
43:BI:14:ASP:CG	43:BI:15:VAL:N	2.52	0.65
43:BI:28:ASN:C	43:BI:32:PRO:HG2	2.21	0.65
45:BK:75:SER:O	45:BK:79:ARG:HG3	1.97	0.65
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.12	0.65
53:BU:92:ARG:HB2	54:BV:11:GLN:NE2	2.12	0.65
58:BZ:38:TYR:CD1	58:BZ:38:TYR:O	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:473:G:H2'	1:CA:474:G:H8	1.61	0.65
1:CA:1026:G:H2'	1:CA:1026:G:N3	2.12	0.65
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.61	0.65
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.11	0.65
20:CT:8:ARG:HH11	20:CT:8:ARG:HG3	1.62	0.65
22:CW:7:A:H61	22:CW:66:U:H3	1.43	0.65
30:D5:46:CYS:SG	30:D5:47:PRO:HD2	2.36	0.65
35:DA:601:C:H5"	40:DF:108:LYS:NZ	2.10	0.65
35:DA:1686:C:O2'	35:DA:1687:G:H5'	1.97	0.65
35:DA:2689:U:H5"	35:DA:2690:C:H5'	1.79	0.65
37:DC:103:ILE:C	37:DC:105:ASP:H	2.04	0.65
39:DE:116:VAL:HG21	39:DE:122:PHE:CD2	2.30	0.65
42:DH:41:MET:HE2	42:DH:55:PRO:HD3	1.79	0.65
47:DO:24:VAL:HG23	47:DO:33:ALA:HB2	1.79	0.65
51:DS:69:VAL:HG13	51:DS:99:LYS:HE3	1.77	0.65
53:DU:69:CYS:HB3	53:DU:106:PHE:CZ	2.31	0.65
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.30	0.65
1:AA:386:C:O2'	1:AA:387:U:H5'	1.95	0.65
1:AA:1053:G:N7	1:AA:1200:C:H5"	2.12	0.65
2:AB:211:ILE:O	2:AB:215:LEU:HD23	1.97	0.65
4:AD:73:ARG:HD2	4:AD:77:ASN:HD21	1.62	0.65
7:AG:148:ASN:C	7:AG:150:ALA:H	2.04	0.65
24:AY:188:ARG:HD2	24:AY:203:THR:HG21	1.77	0.65
26:B1:35:THR:HG21	35:BA:2080:G:OP1	1.97	0.65
35:BA:275:G:C5	35:BA:362:U:H5	2.14	0.65
35:BA:956:G:H4'	49:BQ:83:MET:HE1	1.78	0.65
35:BA:1105:U:H2'	35:BA:1106:G:H8	1.61	0.65
35:BA:1131:G:OP2	35:BA:2515:C:H4'	1.97	0.65
35:BA:2533:A:C3'	35:BA:2534:A:H5"	2.27	0.65
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.32	0.65
38:BD:25:THR:HG21	38:BD:82:ILE:H	1.60	0.65
47:BO:87:ILE:CG2	47:BO:91:LEU:HA	2.27	0.65
58:BZ:14:LYS:CD	58:BZ:16:SER:HB3	2.27	0.65
1:CA:191:G:C4	20:CT:105:SER:HB3	2.31	0.65
1:CA:520:A:OP1	12:CL:52:LEU:HB2	1.97	0.65
3:CC:92:ALA:HA	3:CC:99:VAL:HG11	1.78	0.65
10:CJ:48:THR:CA	10:CJ:62:HIS:HB3	2.26	0.65
22:CV:41:C:C2'	22:CV:42:C:H5'	2.27	0.65
22:CV:50:U:O2'	22:CV:51:U:H5'	1.97	0.65
25:D0:12:ASN:C	25:D0:14:ARG:H	2.04	0.65
35:DA:271(G):C:H2'	35:DA:271(H):G:H8	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:492:A:H2'	35:DA:493:G:O4'	1.97	0.65
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.27	0.65
39:DE:16:ARG:O	39:DE:17:ASP:HB3	1.94	0.65
56:DX:14:SER:H	56:DX:17:ALA:HB3	1.61	0.65
3:AC:15:THR:HG21	3:AC:181:ASN:H	1.59	0.65
25:B0:84:LEU:HD12	25:B0:84:LEU:N	2.11	0.65
35:BA:1097:U:H2'	35:BA:1098:A:H5'	1.78	0.65
35:BA:1686:C:O2'	35:BA:1687:G:H5'	1.97	0.65
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	1.77	0.65
41:BG:63:ILE:HD12	41:BG:63:ILE:O	1.96	0.65
43:BI:142:VAL:HG12	43:BI:143:SER:N	2.10	0.65
49:BQ:63:LYS:HD2	58:BZ:175:VAL:HG21	1.79	0.65
54:BV:1:MET:HE2	54:BV:1:MET:HA	1.79	0.65
54:BV:62:LEU:CD2	54:BV:95:LEU:HB2	2.25	0.65
1:CA:838:G:H2'	1:CA:839:U:H5"	1.78	0.65
5:CE:105:VAL:H	5:CE:106:PRO:HD2	1.62	0.65
7:CG:136:LYS:C	7:CG:138:LYS:H	2.03	0.65
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.78	0.65
18:CR:72:ARG:O	18:CR:76:LEU:HD23	1.96	0.65
19:CS:6:LYS:H	19:CS:6:LYS:CD	2.10	0.65
28:D3:1:MET:HB3	28:D3:39:ASP:HB3	1.77	0.65
33:D8:34:TRP:CG	33:D8:35:GLN:N	2.65	0.65
35:DA:80:G:O2'	35:DA:81:G:H5'	1.97	0.65
35:DA:1050:A:N1	35:DA:2751:G:N7	2.45	0.65
35:DA:1080:C:H2'	35:DA:1081:U:H6	1.61	0.65
35:DA:2808:U:O2'	35:DA:2809:A:H5'	1.97	0.65
40:DF:24:LEU:O	40:DF:115:ALA:HB1	1.96	0.65
48:DP:23:PRO:HB2	48:DP:33:ARG:NE	2.10	0.65
52:DT:48:ILE:H	52:DT:48:ILE:HD12	1.62	0.65
1:AA:1065:U:H5"	1:AA:1190:G:N2	2.11	0.65
1:AA:1494:G:H8	1:AA:1494:G:H5'	1.61	0.65
2:AB:100:GLY:H	2:AB:176:GLU:CD	2.04	0.65
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.77	0.65
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.78	0.65
17:AQ:68:ARG:H	17:AQ:70:ARG:NH1	1.94	0.65
27:B2:69:ARG:HH22	35:BA:111:A:C5'	2.04	0.65
28:B3:3:ARG:HB3	28:B3:36:VAL:CB	2.20	0.65
33:B8:31:HIS:C	33:B8:33:ASN:N	2.54	0.65
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.12	0.65
35:BA:1598:C:O3'	56:BX:35:THR:HG23	1.96	0.65
40:BF:24:LEU:O	40:BF:115:ALA:HB1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:125:ARG:C	45:BK:127:ILE:H	2.05	0.65
46:BN:97:ARG:HA	46:BN:100:GLU:HB2	1.78	0.65
52:BT:108:ARG:HA	52:BT:111:ARG:NH1	2.12	0.65
53:BU:91:ASP:CG	53:BU:96:ALA:HB2	2.21	0.65
58:BZ:115:GLY:H	58:BZ:177:PRO:HD3	1.62	0.65
1:CA:1326:C:H2'	1:CA:1327:C:C6	2.32	0.65
2:CB:96:ARG:HD2	2:CB:96:ARG:N	2.11	0.65
7:CG:148:ASN:C	7:CG:150:ALA:H	2.04	0.65
35:DA:176:G:O2'	35:DA:177:G:H5'	1.97	0.65
35:DA:784:A:C5	38:DD:229:VAL:HG21	2.32	0.65
35:DA:1812:A:H1'	38:DD:45:ASN:OD1	1.97	0.65
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.26	0.65
35:DA:2467:C:H4'	49:DQ:123:HIS:CD2	2.31	0.65
39:DE:55:ASN:HD21	39:DE:75:VAL:HG22	1.61	0.65
42:DH:85:LYS:HE2	42:DH:145:ALA:CA	2.27	0.65
42:DH:158:HIS:O	42:DH:159:GLU:HB2	1.97	0.65
59:DI:58:LEU:HD23	59:DI:61:ARG:HD2	1.79	0.65
50:DR:2:ARG:HH12	50:DR:5:LYS:HZ1	1.44	0.65
50:DR:47:PHE:O	50:DR:51:LEU:HD12	1.96	0.65
53:DU:92:ARG:NH2	53:DU:94:ASN:ND2	2.45	0.65
58:DZ:149:SER:HB2	58:DZ:173:ALA:HA	1.78	0.65
58:DZ:150:LEU:CD2	58:DZ:171:ILE:HD11	2.27	0.65
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.32	0.64
9:AI:46:ALA:HA	9:AI:78:LYS:HZ2	1.62	0.64
9:AI:121:ARG:HH11	9:AI:121:ARG:HG2	1.62	0.64
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HB3	1.77	0.64
31:B6:15:GLU:OE1	31:B6:18:ARG:NE	2.30	0.64
35:BA:780:G:N2	35:BA:783:A:H62	1.93	0.64
35:BA:910:A:N7	49:BQ:13:GLN:HG3	2.12	0.64
35:BA:1717:G:C3'	35:BA:1718:G:H5"	2.28	0.64
35:BA:2693:A:H2'	35:BA:2694:G:C8	2.31	0.64
36:BB:48:A:H4'	51:BS:95:HIS:HD2	1.60	0.64
39:BE:78:LEU:H	39:BE:78:LEU:HD23	1.62	0.64
41:BG:121:ASN:HB3	41:BG:124:SER:OG	1.97	0.64
52:BT:50:ILE:HD11	52:BT:64:ARG:N	2.11	0.64
2:CB:178:ARG:HH22	2:CB:196:LEU:CA	2.03	0.64
7:CG:13:GLN:O	7:CG:24:THR:HG21	1.97	0.64
8:CH:29:SER:HB3	8:CH:32:LYS:HB2	1.77	0.64
8:CH:58:TYR:O	8:CH:59:LEU:HD23	1.97	0.64
10:CJ:67:THR:HG22	10:CJ:67:THR:O	1.96	0.64
13:CM:112:GLY:O	13:CM:113:PRO:C	2.39	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.22	0.64
35:DA:1722:A:C2	35:DA:1740:G:H2'	2.32	0.64
35:DA:1880:C:H5'	35:DA:1880:C:H6	1.61	0.64
35:DA:2334:G:N2	51:DS:18:ILE:HD11	2.13	0.64
39:DE:131:ALA:O	39:DE:133:LYS:N	2.27	0.64
42:DH:138:LYS:O	42:DH:141:VAL:HG12	1.96	0.64
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.11	0.64
51:DS:17:ARG:HA	51:DS:20:ARG:HH11	1.63	0.64
1:AA:1190:G:OP1	3:AC:4:LYS:HA	1.97	0.64
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.97	0.64
3:AC:84:ILE:O	3:AC:88:ARG:HG3	1.97	0.64
7:AG:136:LYS:C	7:AG:138:LYS:H	2.05	0.64
28:B3:19:GLN:HE22	28:B3:52:HIS:HE1	1.44	0.64
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.62	0.64
35:BA:1930:G:N2	35:BA:1968:G:H2'	2.11	0.64
35:BA:2292:C:O2'	35:BA:2293:C:H5'	1.96	0.64
35:BA:2749:A:H4'	42:BH:62:LYS:HB3	1.79	0.64
43:BI:92:VAL:HG11	43:BI:120:ILE:HB	1.80	0.64
48:BP:138:LEU:C	48:BP:140:ALA:H	2.03	0.64
51:BS:83:LYS:O	51:BS:105:ALA:HB3	1.97	0.64
51:BS:101:LEU:HD13	51:BS:101:LEU:H	1.62	0.64
52:BT:128:GLU:OE1	52:BT:129:ARG:N	2.30	0.64
58:BZ:151:HIS:HB2	58:BZ:170:THR:HA	1.76	0.64
1:CA:865:A:H5'	1:CA:1078:U:C4	2.32	0.64
1:CA:1065:U:H5"	1:CA:1190:G:N2	2.12	0.64
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.32	0.64
2:CB:183:PRO:HA	2:CB:198:ASP:OD1	1.96	0.64
9:CI:43:ALA:C	9:CI:45:ALA:H	2.04	0.64
15:CO:87:ILE:HG22	15:CO:88:ARG:H	1.60	0.64
22:CV:61:C:H2'	22:CV:62:C:H6	1.62	0.64
40:DF:10:PRO:O	40:DF:128:ALA:HB2	1.97	0.64
59:DI:53:ALA:HB1	59:DI:57:ARG:HH21	1.63	0.64
46:DN:126:PRO:O	46:DN:127:ASP:HB2	1.96	0.64
48:DP:23:PRO:O	48:DP:33:ARG:HD2	1.97	0.64
48:DP:69:GLY:O	48:DP:70:GLN:HB2	1.97	0.64
48:DP:102:ARG:O	48:DP:102:ARG:HD2	1.97	0.64
50:DR:118:GLU:HA	50:DR:118:GLU:OE1	1.97	0.64
51:DS:17:ARG:HA	51:DS:20:ARG:HG2	1.78	0.64
52:DT:57:PHE:O	52:DT:59:THR:N	2.30	0.64
54:DV:19:LYS:HG3	54:DV:20:LEU:O	1.97	0.64
55:DW:34:ASN:O	55:DW:37:ARG:HB3	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1026:G:N3	1:AA:1026:G:H2'	2.11	0.64
1:AA:1150:U:H1'	1:AA:1280:A:N6	2.12	0.64
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	1.95	0.64
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.12	0.64
17:AQ:45:HIS:CD2	17:AQ:47:PRO:HD3	2.32	0.64
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.79	0.64
35:BA:185:U:H4'	35:BA:218:A:H4'	1.80	0.64
35:BA:404:C:H4'	35:BA:405:U:H5'	1.79	0.64
35:BA:654(F):C:H2'	35:BA:654(G):C:C6	2.31	0.64
35:BA:1436:G:C2'	35:BA:1437:C:H5"	2.27	0.64
35:BA:1722:A:C2	35:BA:1740:G:H2'	2.32	0.64
35:BA:2483:C:H3'	35:BA:2484:G:H5"	1.78	0.64
42:BH:96:ALA:CB	42:BH:105:LEU:HD13	2.23	0.64
42:BH:98:LEU:HB2	42:BH:125:VAL:CB	2.27	0.64
51:BS:28:VAL:HB	51:BS:89:ARG:CB	2.27	0.64
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.32	0.64
1:CA:552:U:O2'	1:CA:553:A:H5'	1.97	0.64
3:CC:82:GLU:O	3:CC:86:VAL:HG13	1.97	0.64
22:CW:16:U:H3'	22:CW:17:C:C5'	2.26	0.64
24:CY:145:GLU:C	24:CY:147:GLN:H	2.04	0.64
29:D4:48:ILE:HD12	29:D4:48:ILE:H	1.60	0.64
30:D5:3:LYS:HB2	35:DA:747:U:C5	2.32	0.64
33:D8:6:THR:HG21	33:D8:63:PRO:HD3	1.77	0.64
35:DA:275:G:C5	35:DA:362:U:H5	2.15	0.64
35:DA:2283:C:C2'	35:DA:2284:C:H5'	2.25	0.64
35:DA:2791:C:H41	35:DA:2801(A):A:N6	1.94	0.64
38:DD:33:LEU:HD23	38:DD:33:LEU:H	1.62	0.64
38:DD:125:ILE:HD12	38:DD:125:ILE:N	2.11	0.64
38:DD:142:VAL:HG21	38:DD:191:ALA:HB1	1.78	0.64
42:DH:44:VAL:CG1	42:DH:45:VAL:H	2.09	0.64
42:DH:126:PRO:O	42:DH:127:GLU:HB2	1.96	0.64
45:DK:7:VAL:HG12	45:DK:58:THR:HG23	1.80	0.64
51:DS:17:ARG:C	51:DS:19:LYS:N	2.49	0.64
51:DS:79:ALA:C	51:DS:80:LEU:HD12	2.22	0.64
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.27	0.64
1:AA:376:G:P	16:AP:67:THR:HG21	2.36	0.64
5:AE:7:GLU:HB3	5:AE:112:LEU:HD13	1.79	0.64
10:AJ:67:THR:HG22	10:AJ:67:THR:O	1.97	0.64
28:B3:1:MET:HB3	28:B3:39:ASP:HB3	1.79	0.64
28:B3:45:GLY:O	28:B3:48:GLU:HB2	1.98	0.64
30:B5:36:CYS:SG	30:B5:49:CYS:HB3	2.37	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:17:LYS:HD3	31:B6:17:LYS:C	2.23	0.64
33:B8:34:TRP:CB	35:BA:2420:C:OP1	2.45	0.64
35:BA:886:C:O2'	35:BA:887:A:H4'	1.97	0.64
35:BA:2633:G:H1'	39:BE:62:PRO:HG3	1.80	0.64
37:BC:87:GLU:HG2	37:BC:94:VAL:HG22	1.80	0.64
56:BX:49:VAL:HG21	56:BX:89:ILE:HD11	1.78	0.64
58:BZ:72:ARG:HG2	58:BZ:89:PHE:HB2	1.79	0.64
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.33	0.64
4:CD:108:LEU:CD1	4:CD:174:LEU:HD13	2.28	0.64
8:CH:10:LEU:HD13	8:CH:83:ILE:HD11	1.79	0.64
10:CJ:25:GLU:HA	10:CJ:28:ARG:HB2	1.78	0.64
11:CK:43:SER:HA	11:CK:47:VAL:HG21	1.78	0.64
13:CM:3:ARG:HD2	29:D4:60:GLU:CD	2.21	0.64
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.63	0.64
25:D0:14:ARG:HB2	25:D0:14:ARG:NH1	2.12	0.64
35:DA:247:G:H4'	35:DA:386:G:C5	2.32	0.64
40:DF:134:GLY:HA2	40:DF:166:ALA:HB2	1.79	0.64
48:DP:105:LEU:H	48:DP:105:LEU:HD12	1.62	0.64
50:DR:18:LEU:HD11	50:DR:22:ARG:NE	2.12	0.64
51:DS:52:SER:OG	51:DS:55:ALA:HB3	1.97	0.64
1:AA:415:A:O3'	35:DA:2153:G:H4'	1.98	0.64
1:AA:525:C:H2'	1:AA:526:C:C6	2.33	0.64
1:AA:1346:A:C5'	9:AI:120:ARG:HH12	2.06	0.64
5:AE:106:PRO:O	5:AE:110:LEU:HG	1.98	0.64
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.79	0.64
22:AV:69:G:H8	22:AV:69:G:H5'	1.62	0.64
35:BA:2024:G:H2'	35:BA:2025:C:C6	2.32	0.64
35:BA:2392:A:H2	35:BA:2424:C:H42	1.46	0.64
39:BE:55:ASN:ND2	39:BE:75:VAL:HG22	2.11	0.64
39:BE:79:ARG:HH12	39:BE:195:LEU:CD2	2.10	0.64
41:BG:111:LEU:CD1	41:BG:120:LEU:HD11	2.27	0.64
50:BR:18:LEU:HD11	50:BR:22:ARG:NE	2.12	0.64
1:CA:413:G:H1'	1:CA:428:G:N2	2.12	0.64
1:CA:1379:G:O2'	1:CA:1380:U:H5'	1.97	0.64
6:CF:49:ALA:HB1	18:CR:80:PRO:HG3	1.79	0.64
11:CK:51:LYS:HD3	11:CK:51:LYS:H	1.63	0.64
12:CL:89:ARG:HA	12:CL:97:ARG:HA	1.78	0.64
24:CY:33:LEU:HD22	24:CY:36:PRO:HG2	1.79	0.64
24:CY:113:GLU:HA	24:CY:175:ASN:HA	1.80	0.64
26:D1:88:LYS:O	26:D1:88:LYS:HE2	1.98	0.64
35:DA:287:C:H5'	35:DA:287:C:H6	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2667:C:H1'	42:DH:109:PHE:CD2	2.32	0.64
35:DA:2722:G:H2'	35:DA:2723:C:C6	2.32	0.64
53:DU:88:ILE:O	53:DU:88:ILE:HG13	1.96	0.64
57:DY:2:ARG:N	57:DY:5:MET:HE3	2.12	0.64
57:DY:17:SER:CA	57:DY:71:LYS:HE2	2.26	0.64
1:AA:1277:C:HO2'	1:AA:1279:A:H8	1.44	0.64
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.37	0.64
1:AA:1412:C:H42	1:AA:1488:G:H1	1.46	0.64
1:AA:1471:G:O2'	1:AA:1472:U:H5'	1.97	0.64
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.78	0.64
13:AM:90:LEU:HA	13:AM:93:ARG:HD2	1.79	0.64
16:AP:28:ARG:HH11	16:AP:28:ARG:HG2	1.62	0.64
27:B2:38:GLN:HG3	27:B2:44:LEU:O	1.97	0.64
28:B3:7:LYS:O	28:B3:9:VAL:HG13	1.98	0.64
34:B9:11:CYS:SG	34:B9:32:HIS:CE1	2.90	0.64
35:BA:1434:A:H61	35:BA:1558:A:H62	1.46	0.64
38:BD:270:ILE:O	38:BD:271:ILE:HG13	1.96	0.64
50:BR:11:ASN:CG	50:BR:12:ARG:H	2.03	0.64
50:BR:55:ALA:HA	50:BR:80:PHE:CE1	2.32	0.64
58:BZ:27:VAL:HG12	58:BZ:87:ASP:HB2	1.79	0.64
58:BZ:91:LEU:HD22	58:BZ:130:PRO:HG3	1.80	0.64
1:CA:605:U:H2'	1:CA:606:G:C8	2.33	0.64
1:CA:836:G:C6	1:CA:851:G:C6	2.86	0.64
3:CC:70:VAL:CG1	3:CC:71:ALA:H	2.10	0.64
6:CF:14:LEU:HD22	6:CF:18:GLN:HE21	1.62	0.64
13:CM:90:LEU:HA	13:CM:93:ARG:HD2	1.79	0.64
17:CQ:68:ARG:H	17:CQ:70:ARG:NH1	1.95	0.64
24:CY:233:ARG:HD2	24:CY:243:ASN:O	1.98	0.64
35:DA:1103:A:H5'	35:DA:1104:C:OP2	1.97	0.64
35:DA:1434:A:H61	35:DA:1558:A:H62	1.45	0.64
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.78	0.64
35:DA:2310:A:C2	41:DG:77:ILE:HD11	2.33	0.64
59:DI:4:ILE:HG12	59:DI:18:VAL:HG23	1.79	0.64
45:DK:125:ARG:C	45:DK:127:ILE:H	2.05	0.64
47:DO:77:ILE:HD11	52:DT:72:VAL:CG1	2.28	0.64
53:DU:90:VAL:O	53:DU:92:ARG:N	2.28	0.64
1:AA:413:G:H1'	1:AA:428:G:N2	2.12	0.64
25:B0:49:LYS:H	25:B0:80:HIS:HB3	1.60	0.64
39:BE:34:VAL:O	39:BE:35:GLN:HB2	1.96	0.64
45:BK:17:ALA:O	45:BK:18:THR:HB	1.98	0.64
1:CA:346:G:OP1	52:DT:41:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:390:C:H2'	1:CA:391:G:C8	2.32	0.64
1:CA:718:G:H21	18:CR:49:LYS:HZ3	1.43	0.64
1:CA:723:U:O2	1:CA:723:U:H2'	1.97	0.64
1:CA:797:C:OP1	11:CK:124:LYS:HE2	1.97	0.64
1:CA:1128:C:H4'	9:CI:16:ARG:HH12	1.63	0.64
1:CA:1150:U:H1'	1:CA:1280:A:N6	2.12	0.64
6:CF:98:LEU:HD13	6:CF:101:ALA:HB2	1.79	0.64
8:CH:103:VAL:HG21	8:CH:109:ILE:O	1.98	0.64
9:CI:121:ARG:HH11	9:CI:121:ARG:HG2	1.63	0.64
11:CK:115:PRO:C	11:CK:117:ASN:H	2.05	0.64
22:CW:57:G:H2'	22:CW:58:A:H5'	1.79	0.64
35:DA:654(F):C:H2'	35:DA:654(G):C:C6	2.32	0.64
35:DA:2152:G:H2'	35:DA:2153:G:H8	1.63	0.64
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.33	0.64
37:DC:64:LEU:HD12	37:DC:66:HIS:O	1.98	0.64
38:DD:235:GLY:C	38:DD:237:GLU:H	2.06	0.64
39:DE:36:ARG:NH2	39:DE:88:GLY:HA2	2.12	0.64
59:DI:145:VAL:HG12	59:DI:146:ALA:N	2.12	0.64
46:DN:46:VAL:CG1	46:DN:48:MET:HG3	2.28	0.64
52:DT:28:VAL:O	52:DT:29:ARG:CB	2.46	0.64
53:DU:91:ASP:CG	53:DU:96:ALA:HB2	2.23	0.64
1:AA:551:U:H2'	1:AA:552:U:C6	2.33	0.64
1:AA:735:C:O2'	1:AA:736:C:H5'	1.98	0.64
2:AB:87:ARG:HH11	2:AB:223:ILE:HD13	1.63	0.64
4:AD:31:CYS:O	4:AD:31:CYS:SG	2.55	0.64
5:AE:59:GLY:O	5:AE:62:ALA:HB3	1.96	0.64
18:AR:72:ARG:O	18:AR:76:LEU:HD23	1.97	0.64
24:AY:341:LEU:O	24:AY:345:ILE:HG13	1.97	0.64
28:B3:6:VAL:CG1	28:B3:54:VAL:HG21	2.28	0.64
35:BA:1513:C:H2'	35:BA:1514:U:H6	1.63	0.64
35:BA:1885:A:H2'	35:BA:1886:C:O4'	1.98	0.64
35:BA:2262:U:H2'	35:BA:2263:C:C5'	2.28	0.64
46:BN:46:VAL:CG1	46:BN:48:MET:HG3	2.27	0.64
50:BR:47:PHE:O	50:BR:51:LEU:HD12	1.97	0.64
1:CA:908:A:H2'	1:CA:909:A:C8	2.33	0.64
1:CA:1060:C:C5	3:CC:2:GLY:HA2	2.33	0.64
4:CD:73:ARG:HD2	4:CD:77:ASN:HD21	1.62	0.64
24:CY:190:VAL:O	24:CY:191:ARG:HB3	1.98	0.64
26:D1:35:THR:HG21	35:DA:2080:G:OP1	1.97	0.64
30:D5:40:LYS:NZ	30:D5:46:CYS:HB3	2.13	0.64
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.61	0.64
42:DH:90:LYS:O	42:DH:94:TYR:HB2	1.98	0.64
51:DS:20:ARG:HA	51:DS:20:ARG:NE	2.12	0.64
56:DX:49:VAL:HG21	56:DX:89:ILE:HD11	1.79	0.64
1:AA:475:G:H2'	1:AA:476:G:H8	1.62	0.64
1:AA:838:G:H2'	1:AA:839:U:H5"	1.79	0.64
10:AJ:16:LEU:C	10:AJ:18:ALA:H	2.06	0.64
15:AO:39:LEU:O	15:AO:42:HIS:HB3	1.98	0.64
24:AY:258:ILE:HD11	24:AY:279:LEU:CD2	2.28	0.64
24:AY:269:ILE:HD13	49:BQ:79:LEU:HD13	1.79	0.64
24:AY:341:LEU:HA	24:AY:344:LEU:HD21	1.79	0.64
25:B0:32:ARG:H	25:B0:35:ASN:HD22	1.46	0.64
32:B7:46:VAL:HG12	32:B7:48:LYS:HZ1	1.63	0.64
35:BA:1651:G:OP1	50:BR:40:LYS:HE3	1.98	0.64
35:BA:1847:A:H2'	35:BA:1847:A:OP1	1.97	0.64
35:BA:2444:G:OP2	40:BF:68:LYS:HE2	1.97	0.64
42:BH:148:ILE:O	42:BH:151:ILE:HG12	1.96	0.64
45:BK:48:MET:HE1	45:BK:69:THR:HG21	1.79	0.64
51:BS:56:LEU:O	51:BS:56:LEU:HD23	1.98	0.64
52:BT:35:LYS:HZ1	52:BT:41:ARG:HH21	1.45	0.64
57:BY:17:SER:CA	57:BY:71:LYS:HE2	2.27	0.64
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.79	0.64
9:CI:126:SER:O	9:CI:127:LYS:HB3	1.98	0.64
11:CK:87:THR:HG22	11:CK:88:GLY:N	2.13	0.64
24:CY:27:LYS:O	24:CY:30:GLU:HB2	1.98	0.64
24:CY:272:LYS:O	24:CY:275:ALA:HB3	1.98	0.64
24:CY:344:LEU:H	24:CY:344:LEU:CD2	2.09	0.64
28:D3:3:ARG:O	28:D3:37:LEU:N	2.31	0.64
30:D5:36:CYS:SG	30:D5:49:CYS:HB3	2.38	0.64
35:DA:589:C:H2'	35:DA:590:A:C8	2.33	0.64
35:DA:642:G:H21	35:DA:646:A:H2	1.45	0.64
35:DA:1105:U:H2'	35:DA:1106:G:H8	1.62	0.64
35:DA:2263:C:H5'	35:DA:2263:C:H6	1.62	0.64
35:DA:2392:A:H2	35:DA:2424:C:H42	1.45	0.64
35:DA:2439:A:H5'	35:DA:2439:A:C8	2.33	0.64
38:DD:25:THR:HG21	38:DD:82:ILE:H	1.61	0.64
39:DE:203:LYS:HE2	39:DE:204:ALA:HB2	1.78	0.64
41:DG:18:GLU:O	41:DG:21:ARG:HB3	1.97	0.64
41:DG:85:GLY:C	41:DG:87:PRO:HD2	2.23	0.64
45:DK:93:ARG:CZ	58:DZ:112:ARG:NH1	2.61	0.64
49:DQ:141:GLN:HB2	58:DZ:99:TYR:HD2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:28:VAL:HG22	52:DT:46:GLU:C	2.22	0.64
52:DT:55:ASN:HD22	52:DT:58:ASN:HD21	1.44	0.64
1:AA:1128:C:H4'	9:AI:16:ARG:HH12	1.62	0.64
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.33	0.64
3:AC:83:ARG:O	3:AC:86:VAL:HG22	1.98	0.64
9:AI:66:ARG:HB2	9:AI:66:ARG:NH1	2.13	0.64
9:AI:78:LYS:HB2	9:AI:78:LYS:NZ	2.12	0.64
19:AS:6:LYS:H	19:AS:6:LYS:CD	2.10	0.64
24:AY:40:ASN:O	24:AY:43:GLU:HG2	1.98	0.64
35:BA:2310:A:C5	41:BG:75:LYS:HE2	2.32	0.64
35:BA:2334:G:H21	51:BS:18:ILE:CG1	2.10	0.64
35:BA:2334:G:H21	51:BS:18:ILE:HD11	1.62	0.64
42:BH:44:VAL:CG1	42:BH:45:VAL:H	2.09	0.64
49:BQ:51:ARG:HH11	49:BQ:51:ARG:HG2	1.63	0.64
50:BR:9:LYS:O	50:BR:10:LEU:HG	1.98	0.64
52:BT:34:VAL:O	52:BT:35:LYS:HB3	1.97	0.64
53:BU:92:ARG:NH1	54:BV:11:GLN:H	1.96	0.64
1:CA:359:U:H2'	1:CA:360:A:H8	1.63	0.64
3:CC:22:TRP:HZ3	3:CC:24:ALA:HB2	1.63	0.64
5:CE:12:LEU:HD13	5:CE:13:ILE:N	2.12	0.64
5:CE:15:ARG:HG2	5:CE:15:ARG:O	1.98	0.64
5:CE:139:LEU:HA	5:CE:142:LEU:HD12	1.79	0.64
9:CI:65:VAL:O	9:CI:66:ARG:HG3	1.98	0.64
13:CM:9:ILE:CG2	13:CM:11:ARG:HE	2.10	0.64
15:CO:61:GLY:O	15:CO:64:ARG:HB3	1.97	0.64
24:CY:143:PHE:O	24:CY:147:GLN:HB2	1.97	0.64
35:DA:320:A:H3'	40:DF:136:THR:HG21	1.80	0.64
35:DA:910:A:C5	49:DQ:13:GLN:HG3	2.33	0.64
35:DA:911:A:H2'	49:DQ:9:TYR:OH	1.98	0.64
35:DA:1100:C:C2'	35:DA:1101:U:H5'	2.28	0.64
35:DA:2633:G:H1'	39:DE:62:PRO:HG3	1.80	0.64
35:DA:2693:A:H2'	35:DA:2694:G:C8	2.32	0.64
52:DT:107:ASP:CG	52:DT:108:ARG:H	2.06	0.64
52:DT:115:ARG:HA	52:DT:115:ARG:NE	2.13	0.64
53:DU:57:PHE:O	53:DU:58:ARG:C	2.41	0.64
53:DU:79:PHE:HE2	53:DU:83:LEU:HD13	1.62	0.64
55:DW:51:LEU:HD22	55:DW:51:LEU:O	1.98	0.64
1:AA:862:C:C2'	1:AA:863:U:H5'	2.28	0.63
3:AC:22:TRP:HZ3	3:AC:24:ALA:HB2	1.63	0.63
4:AD:31:CYS:O	4:AD:33:MET:N	2.26	0.63
7:AG:135:VAL:O	7:AG:138:LYS:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:75:ARG:C	16:AP:78:GLY:H	2.06	0.63
22:AW:68:C:H2'	22:AW:69:G:H5'	1.80	0.63
24:AY:132:TRP:HA	24:AY:135:MET:HE2	1.80	0.63
29:B4:43:GLY:H	29:B4:60:GLU:CA	2.02	0.63
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.79	0.63
35:BA:1171:G:H3'	35:BA:1173:G:H4'	1.79	0.63
35:BA:2126:A:H61	35:BA:2163:C:H4'	1.62	0.63
40:BF:3:GLU:HB2	40:BF:24:LEU:HD23	1.80	0.63
41:BG:11:TYR:OH	41:BG:33:ARG:HG3	1.97	0.63
43:BI:8:PRO:O	43:BI:9:LEU:HD23	1.98	0.63
1:CA:33:A:H2'	1:CA:34:C:C6	2.33	0.63
1:CA:1237:C:OP1	1:CA:1238:A:H1'	1.97	0.63
1:CA:1277:C:HO2'	1:CA:1279:A:H8	1.46	0.63
3:CC:84:ILE:O	3:CC:88:ARG:HG3	1.98	0.63
5:CE:106:PRO:O	5:CE:110:LEU:HG	1.99	0.63
6:CF:78:GLU:O	6:CF:81:ILE:HD11	1.99	0.63
6:CF:82:ARG:HB3	6:CF:82:ARG:NH1	2.12	0.63
9:CI:45:ALA:O	9:CI:48:GLU:HB2	1.98	0.63
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	1.96	0.63
19:CS:63:THR:HG22	19:CS:66:MET:CE	2.26	0.63
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.79	0.63
35:DA:1495:A:N3	35:DA:1496:A:C2	2.65	0.63
35:DA:1885:A:H2'	35:DA:1886:C:O4'	1.97	0.63
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.33	0.63
35:DA:2485:G:H5"	49:DQ:46:GLN:NE2	2.11	0.63
36:DB:91:C:H5"	49:DQ:17:LEU:O	1.96	0.63
38:DD:25:THR:O	38:DD:27:THR:HG22	1.98	0.63
42:DH:41:MET:HG3	42:DH:54:ARG:HA	1.80	0.63
50:DR:9:LYS:O	50:DR:10:LEU:HG	1.97	0.63
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.33	0.63
4:AD:9:CYS:SG	4:AD:22:LYS:HD2	2.38	0.63
4:AD:18:LYS:HE3	4:AD:31:CYS:HB3	1.78	0.63
7:AG:23:VAL:CG1	7:AG:43:PHE:HE2	2.11	0.63
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.98	0.63
24:AY:25:ARG:C	24:AY:28:GLU:HB2	2.23	0.63
35:BA:1747:G:H2'	35:BA:1747(A):G:H8	1.63	0.63
35:BA:2024:G:H2'	35:BA:2025:C:H6	1.62	0.63
35:BA:2134:A:H62	35:BA:2157:G:H1'	1.61	0.63
35:BA:2302:G:H1'	41:BG:128:ARG:HE	1.64	0.63
36:BB:7:G:C2'	36:BB:8:U:H5"	2.27	0.63
39:BE:131:ALA:O	39:BE:133:LYS:N	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:82:LEU:HD21	41:BG:87:PRO:HD3	1.79	0.63
48:BP:23:PRO:HB2	48:BP:33:ARG:NE	2.12	0.63
50:BR:10:LEU:HD22	50:BR:17:ARG:HD2	1.81	0.63
52:BT:28:VAL:O	52:BT:29:ARG:CB	2.45	0.63
53:BU:8:VAL:HG11	53:BU:12:ARG:CZ	2.29	0.63
1:CA:47:C:H5"	1:CA:365:U:C6	2.33	0.63
3:CC:58:GLU:H	3:CC:65:ALA:CB	2.11	0.63
4:CD:57:ARG:HG3	4:CD:57:ARG:NH1	2.14	0.63
14:CN:23:ARG:NH1	14:CN:30:ALA:HB2	2.13	0.63
19:CS:31:ILE:O	19:CS:31:ILE:HG23	1.98	0.63
21:CU:12:LYS:HB3	21:CU:17:THR:O	1.98	0.63
24:CY:144:ALA:O	24:CY:147:GLN:HB3	1.97	0.63
25:D0:51:VAL:CG2	25:D0:80:HIS:HA	2.21	0.63
26:D1:86:SER:HB3	26:D1:89:GLU:HB2	1.80	0.63
27:D2:63:VAL:O	27:D2:66:GLU:HG2	1.97	0.63
30:D5:4:HIS:O	35:DA:2056:G:N2	2.31	0.63
33:D8:31:HIS:C	33:D8:33:ASN:N	2.54	0.63
35:DA:1689:A:H62	35:DA:1698:A:H2	1.47	0.63
35:DA:2024:G:H2'	35:DA:2025:C:H6	1.62	0.63
35:DA:2842:G:O2'	35:DA:2843:G:H5'	1.97	0.63
39:DE:59:VAL:HG22	39:DE:63:LEU:HA	1.80	0.63
52:DT:108:ARG:HA	52:DT:111:ARG:NH1	2.13	0.63
1:AA:489:C:H2'	1:AA:490:G:H8	1.62	0.63
4:AD:57:ARG:HG3	4:AD:57:ARG:NH1	2.13	0.63
6:AF:49:ALA:HB1	18:AR:80:PRO:HG3	1.79	0.63
6:AF:98:LEU:HD13	6:AF:101:ALA:HB2	1.80	0.63
11:AK:51:LYS:HD3	11:AK:51:LYS:H	1.63	0.63
12:AL:119:LYS:O	12:AL:120:TYR:HB2	1.99	0.63
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.13	0.63
26:B1:80:LEU:HD22	26:B1:82:LEU:HG	1.80	0.63
35:BA:2808:U:O2'	35:BA:2809:A:H5'	1.97	0.63
40:BF:136:THR:HG23	40:BF:137:LYS:H	1.63	0.63
43:BI:71:ILE:HG23	43:BI:72:LEU:H	1.63	0.63
48:BP:105:LEU:H	48:BP:105:LEU:HD12	1.62	0.63
51:BS:69:VAL:HG13	51:BS:99:LYS:HE3	1.78	0.63
52:BT:107:ASP:CG	52:BT:108:ARG:H	2.04	0.63
53:BU:46:ALA:O	53:BU:50:ARG:HB2	1.98	0.63
1:CA:40:C:H2'	1:CA:41:G:H8	1.63	0.63
1:CA:475:G:H2'	1:CA:476:G:H8	1.64	0.63
1:CA:963:G:N2	10:CJ:55:LYS:HZ2	1.96	0.63
8:CH:1:MET:HE2	8:CH:1:MET:N	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.41	0.63
24:CY:54:ARG:HG3	24:CY:57:ARG:HD2	1.80	0.63
35:DA:1097:U:H2'	35:DA:1098:A:H5'	1.79	0.63
35:DA:1717:G:C3'	35:DA:1718:G:H5"	2.28	0.63
35:DA:2876:G:H1'	52:DT:3:ARG:HH21	1.62	0.63
36:DB:7:G:C2'	36:DB:8:U:H5"	2.29	0.63
37:DC:49:ILE:HG23	37:DC:51:PRO:HD3	1.79	0.63
38:DD:102:LYS:O	38:DD:103:ARG:HG2	1.98	0.63
45:DK:93:ARG:CZ	58:DZ:112:ARG:HH11	2.11	0.63
45:DK:94:GLU:H	58:DZ:112:ARG:CZ	2.08	0.63
52:DT:17:THR:O	52:DT:18:ASP:HB3	1.98	0.63
1:AA:605:U:H2'	1:AA:606:G:C8	2.34	0.63
1:AA:836:G:C6	1:AA:851:G:C6	2.87	0.63
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.80	0.63
13:AM:86:CYS:HA	19:AS:73:GLU:O	1.99	0.63
18:AR:31:LEU:HD23	18:AR:31:LEU:H	1.63	0.63
24:AY:170:LEU:HD23	24:AY:172:LYS:HE3	1.81	0.63
24:AY:320:TYR:HA	24:AY:331:HIS:HA	1.79	0.63
35:BA:943:U:OP2	48:BP:38:GLN:CD	2.41	0.63
35:BA:1292:U:O2'	35:BA:1293:C:H5'	1.98	0.63
35:BA:1381:G:H1'	35:BA:1571:A:N1	2.13	0.63
35:BA:2349:G:H5'	35:BA:2349:G:H8	1.61	0.63
38:BD:25:THR:O	38:BD:27:THR:HG22	1.98	0.63
38:BD:102:LYS:O	38:BD:103:ARG:HG2	1.99	0.63
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.80	0.63
42:BH:19:VAL:HG21	42:BH:44:VAL:HA	1.79	0.63
42:BH:91:GLY:CA	42:BH:160:LYS:HB3	2.27	0.63
43:BI:72:LEU:CD1	43:BI:140:LEU:HD13	2.28	0.63
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.28	0.63
57:BY:101:LYS:HG2	57:BY:102:CYS:N	2.14	0.63
1:CA:224:C:H2'	1:CA:225:C:C6	2.32	0.63
3:CC:7:PRO:O	3:CC:11:ARG:HG2	1.98	0.63
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.12	0.63
28:D3:3:ARG:O	28:D3:36:VAL:HA	1.99	0.63
35:DA:2828:C:O2'	35:DA:2829:C:H5'	1.98	0.63
38:DD:21:PHE:O	38:DD:24:ILE:HG22	1.98	0.63
39:DE:66:HIS:C	39:DE:66:HIS:CD2	2.76	0.63
39:DE:110:GLY:O	50:DR:2:ARG:NH1	2.31	0.63
42:DH:115:VAL:HG12	42:DH:116:GLU:H	1.62	0.63
46:DN:40:PRO:O	53:DU:64:ARG:HG3	1.98	0.63
52:DT:27:THR:O	52:DT:28:VAL:HB	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:92:ARG:NH2	53:DU:94:ASN:HD22	1.96	0.63
54:DV:22:VAL:O	54:DV:23:GLU:HB2	1.98	0.63
1:AA:47:C:H5"	1:AA:365:U:C6	2.34	0.63
1:AA:382:A:H2'	1:AA:383:A:H8	1.63	0.63
1:AA:1109:C:O2'	1:AA:1110:A:H5'	1.99	0.63
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	1.97	0.63
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	1.98	0.63
9:AI:43:ALA:C	9:AI:45:ALA:H	2.06	0.63
11:AK:15:ALA:HA	11:AK:76:GLY:O	1.98	0.63
24:AY:51:GLU:HA	24:AY:54:ARG:NH2	2.13	0.63
24:AY:55:LEU:O	24:AY:59:VAL:HG23	1.97	0.63
26:B1:87:PRO:HD2	26:B1:89:GLU:OE2	1.98	0.63
35:BA:613:G:C5'	35:BA:613:G:H8	2.12	0.63
35:BA:620:G:H4'	35:BA:621:A:H5'	1.79	0.63
35:BA:784:A:C5	38:BD:229:VAL:HG21	2.34	0.63
35:BA:1100:C:C2'	35:BA:1101:U:H5'	2.29	0.63
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.13	0.63
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.33	0.63
37:BC:68:LEU:HD11	37:BC:180:PHE:N	2.12	0.63
42:BH:158:HIS:O	42:BH:159:GLU:HB2	1.98	0.63
43:BI:29:TYR:CE1	43:BI:33:ARG:HD2	2.33	0.63
51:BS:82:ILE:O	51:BS:83:LYS:HG2	1.99	0.63
52:BT:17:THR:O	52:BT:18:ASP:HB3	1.98	0.63
53:BU:79:PHE:HE2	53:BU:83:LEU:HD13	1.63	0.63
1:CA:831:U:H2'	1:CA:832:C:H6	1.63	0.63
1:CA:1391:U:H2'	1:CA:1392:G:H8	1.61	0.63
7:CG:16:LEU:CD1	9:CI:42:ARG:HA	2.29	0.63
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.97	0.63
10:CJ:34:VAL:HG13	10:CJ:74:ILE:HA	1.79	0.63
22:CV:3:C:H2'	22:CV:4:C:H6	1.64	0.63
34:D9:29:ASN:O	34:D9:29:ASN:ND2	2.32	0.63
35:DA:675:A:OP1	40:DF:63:LYS:HE2	1.99	0.63
35:DA:1639:U:C2'	35:DA:1640:C:H5"	2.28	0.63
35:DA:1686:C:H5'	35:DA:1686:C:C6	2.30	0.63
39:DE:26:ILE:HG22	39:DE:27:LEU:H	1.64	0.63
41:DG:81:LYS:O	41:DG:82:LEU:HB2	1.98	0.63
46:DN:42:TRP:CZ3	46:DN:48:MET:HE1	2.34	0.63
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.34	0.63
3:AC:7:PRO:O	3:AC:11:ARG:HG2	1.98	0.63
9:AI:90:PRO:HG2	9:AI:91:ASP:H	1.64	0.63
15:AO:36:ILE:HG22	15:AO:37:ASN:HD22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:8:ARG:HH11	20:AT:8:ARG:HG3	1.63	0.63
28:B3:4:LEU:HD11	28:B3:39:ASP:OD1	1.99	0.63
35:BA:518:G:H4'	55:BW:18:ARG:HH12	1.63	0.63
35:BA:774:A:H2	35:BA:787:U:O2'	1.73	0.63
35:BA:2168:G:N2	35:BA:2170:A:H3'	2.13	0.63
42:BH:111:HIS:CD2	42:BH:112:PRO:HD2	2.31	0.63
45:BK:32:ALA:HA	45:BK:63:ARG:HB2	1.80	0.63
46:BN:56:ASN:CG	46:BN:126:PRO:HD3	2.24	0.63
47:BO:105:GLU:HA	47:BO:108:GLU:CG	2.28	0.63
51:BS:24:LEU:HB3	51:BS:85:VAL:HG12	1.81	0.63
1:CA:737:A:H2'	1:CA:738:C:C6	2.34	0.63
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.32	0.63
1:CA:1473:A:H2'	1:CA:1474:G:C8	2.34	0.63
5:CE:102:ALA:HA	5:CE:120:THR:OG1	1.98	0.63
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HB3	1.78	0.63
22:CV:62:C:H2'	22:CV:63:G:H5'	1.81	0.63
22:CW:6:G:O2'	22:CW:7:A:H5'	1.98	0.63
24:CY:54:ARG:HG2	24:CY:54:ARG:HH11	1.61	0.63
24:CY:100:GLU:C	24:CY:104:GLN:HG2	2.24	0.63
35:DA:1038:C:C3'	35:DA:1039:G:H5"	2.29	0.63
35:DA:1171:G:H3'	35:DA:1173:G:H4'	1.79	0.63
41:DG:70:VAL:HA	41:DG:90:LEU:HD23	1.79	0.63
42:DH:111:HIS:CD2	42:DH:112:PRO:HD2	2.32	0.63
52:DT:108:ARG:HB2	52:DT:108:ARG:HH11	1.64	0.63
52:DT:128:GLU:OE1	52:DT:129:ARG:N	2.32	0.63
1:AA:491:G:H2'	1:AA:492:G:C8	2.33	0.63
2:AB:207:ALA:O	2:AB:211:ILE:HG13	1.97	0.63
12:AL:83:VAL:HG22	12:AL:84:LEU:N	2.14	0.63
32:B7:48:LYS:HZ2	35:BA:125:G:H21	1.45	0.63
35:BA:1076:C:H4'	58:BZ:112:ARG:HD3	1.81	0.63
35:BA:2728:U:O2'	35:BA:2729:G:H5'	1.98	0.63
35:BA:2791:C:H41	35:BA:2801(A):A:N6	1.96	0.63
39:BE:55:ASN:O	39:BE:57:LYS:N	2.25	0.63
41:BG:12:TYR:HA	41:BG:16:ARG:HG2	1.80	0.63
42:BH:126:PRO:O	42:BH:127:GLU:HB2	1.96	0.63
43:BI:69:LYS:O	43:BI:73:GLU:HG2	1.98	0.63
48:BP:7:ARG:HB2	48:BP:8:PRO:HD3	1.79	0.63
48:BP:23:PRO:O	48:BP:33:ARG:HD2	1.99	0.63
51:BS:36:TYR:CD1	51:BS:36:TYR:N	2.65	0.63
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.28	0.63
1:CA:1029:C:H1'	1:CA:1032:G:H22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:100:GLY:H	2:CB:176:GLU:CD	2.04	0.63
3:CC:62:ASP:HA	3:CC:97:LYS:HZ2	1.62	0.63
3:CC:83:ARG:O	3:CC:86:VAL:HG22	1.98	0.63
22:CW:11:C:H42	22:CW:24:G:H1	1.46	0.63
28:D3:2:PRO:C	28:D3:4:LEU:N	2.51	0.63
28:D3:2:PRO:HG3	28:D3:58:VAL:HG12	1.80	0.63
28:D3:6:VAL:CG1	28:D3:54:VAL:HG21	2.29	0.63
30:D5:3:LYS:HA	30:D5:3:LYS:CE	2.22	0.63
35:DA:634:C:H2'	35:DA:635:C:C6	2.34	0.63
35:DA:1278:A:OP1	50:DR:36:THR:HG22	1.98	0.63
39:DE:137:HIS:HB3	39:DE:138:PRO:HD2	1.81	0.63
41:DG:16:ARG:HH11	41:DG:16:ARG:HB3	1.63	0.63
45:DK:93:ARG:NE	58:DZ:112:ARG:HD2	2.05	0.63
52:DT:13:ARG:HA	52:DT:13:ARG:NE	2.06	0.63
52:DT:34:VAL:O	52:DT:35:LYS:HB3	1.98	0.63
52:DT:99:LEU:HD13	52:DT:102:ILE:HD11	1.79	0.63
58:DZ:91:LEU:HB3	58:DZ:96:VAL:HG21	1.80	0.63
1:AA:33:A:H2'	1:AA:34:C:C6	2.34	0.63
1:AA:552:U:O2'	1:AA:553:A:H5'	1.99	0.63
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.14	0.63
8:AH:1:MET:N	8:AH:1:MET:HE2	2.14	0.63
8:AH:11:THR:HA	8:AH:14:ARG:HH12	1.64	0.63
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.12	0.63
10:AJ:44:VAL:HG12	10:AJ:45:ARG:N	2.14	0.63
15:AO:43:LEU:HD11	15:AO:53:HIS:HA	1.79	0.63
20:AT:100:ILE:H	20:AT:100:ILE:HD12	1.64	0.63
26:B1:88:LYS:NZ	26:B1:92:LYS:HB2	2.13	0.63
30:B5:33:CYS:SG	30:B5:49:CYS:CB	2.87	0.63
35:BA:324:A:H2'	35:BA:325:G:O4'	1.99	0.63
35:BA:642:G:H21	35:BA:646:A:H2	1.47	0.63
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.34	0.63
41:BG:60:LEU:HD12	41:BG:68:PRO:HG3	1.81	0.63
47:BO:47:ILE:HG23	47:BO:48:PRO:HD2	1.81	0.63
52:BT:14:TYR:N	52:BT:14:TYR:CD1	2.66	0.63
52:BT:23:ARG:HB2	52:BT:24:PRO:HD2	1.81	0.63
57:BY:96:ILE:HG22	57:BY:97:ARG:N	2.13	0.63
58:BZ:140:ASP:OD2	58:BZ:141:VAL:N	2.32	0.63
1:CA:938:A:H5'	7:CG:76:ARG:HH22	1.64	0.63
1:CA:1121:U:H2'	1:CA:1122:U:C6	2.31	0.63
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.39	0.63
9:CI:66:ARG:NH1	9:CI:66:ARG:HB2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:518:G:H4'	55:DW:18:ARG:HH12	1.62	0.63
35:DA:2533:A:C3'	35:DA:2534:A:H5"	2.29	0.63
35:DA:2836:U:H2'	35:DA:2837:G:H8	1.60	0.63
51:DS:97:ARG:NH2	51:DS:98:VAL:CA	2.50	0.63
52:DT:35:LYS:HZ1	52:DT:41:ARG:HH21	1.46	0.63
55:DW:15:ARG:HA	55:DW:18:ARG:HD2	1.79	0.63
56:DX:63:LYS:HA	56:DX:72:LYS:HA	1.81	0.63
58:DZ:53:ILE:HG22	58:DZ:71:VAL:HB	1.79	0.63
1:AA:460:G:O6	1:AA:470:C:H5"	1.99	0.63
1:AA:520:A:OP1	12:AL:52:LEU:HB2	1.98	0.63
1:AA:1029:C:H1'	1:AA:1032:G:H22	1.62	0.63
1:AA:1379:G:O2'	1:AA:1380:U:H5'	1.98	0.63
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.42	0.63
11:AK:22:HIS:HB3	11:AK:29:ILE:HG13	1.79	0.63
11:AK:115:PRO:C	11:AK:117:ASN:H	2.07	0.63
20:AT:38:LYS:HA	20:AT:41:ILE:HD11	1.81	0.63
22:AW:16:U:C3'	22:AW:17:C:H5'	2.13	0.63
25:B0:10:THR:HG22	25:B0:11:ARG:N	2.06	0.63
25:B0:14:ARG:NH1	25:B0:14:ARG:HB2	2.14	0.63
35:BA:1434:A:H61	35:BA:1558:A:N6	1.97	0.63
35:BA:1639:U:C2'	35:BA:1640:C:H5"	2.29	0.63
35:BA:2124:G:H2'	35:BA:2125:G:O4'	1.99	0.63
37:BC:36:LYS:HG3	37:BC:37:PHE:N	2.10	0.63
40:BF:10:PRO:O	40:BF:128:ALA:HB2	1.98	0.63
41:BG:114:ILE:HD12	41:BG:117:PHE:HD2	1.64	0.63
45:BK:105:LEU:HG	45:BK:120:LEU:HD22	1.79	0.63
48:BP:140:ALA:O	48:BP:141:ALA:HB2	1.97	0.63
55:BW:51:LEU:HD22	55:BW:51:LEU:O	1.99	0.63
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.80	0.63
58:BZ:125:LEU:O	58:BZ:126:VAL:HG13	1.99	0.63
1:CA:275:G:H2'	1:CA:276:G:H8	1.64	0.63
1:CA:491:G:H2'	1:CA:492:G:C8	2.33	0.63
1:CA:551:U:H2'	1:CA:552:U:C6	2.33	0.63
1:CA:1203:C:OP1	14:CN:3:ARG:HD3	1.98	0.63
6:CF:97:PHE:HB2	18:CR:32:ARG:NH2	2.14	0.63
13:CM:9:ILE:HG21	13:CM:11:ARG:HE	1.64	0.63
22:CW:15:G:H4'	22:CW:16:U:OP1	1.98	0.63
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.13	0.63
35:DA:855:G:H2'	35:DA:856:C:C6	2.33	0.63
35:DA:1240:U:O2'	35:DA:1241:A:H5'	1.99	0.63
35:DA:1930:G:N2	35:DA:1968:G:H2'	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2022:U:O2'	35:DA:2617:C:H5'	1.98	0.63
35:DA:2290:G:H5'	35:DA:2290:G:C8	2.32	0.63
35:DA:2749:A:H4'	42:DH:62:LYS:HB3	1.79	0.63
37:DC:87:GLU:HG2	37:DC:94:VAL:HG22	1.81	0.63
45:DK:95:LYS:HG2	45:DK:137:GLU:CB	2.24	0.63
51:DS:101:LEU:H	51:DS:101:LEU:HD13	1.64	0.63
57:DY:28:LYS:CB	57:DY:37:VAL:HB	2.26	0.63
1:AA:328:C:O2	1:AA:328:C:H2'	1.98	0.62
1:AA:359:U:H2'	1:AA:360:A:H8	1.63	0.62
1:AA:366:C:O2'	1:AA:367:U:H5"	1.98	0.62
2:AB:183:PRO:HA	2:AB:198:ASP:OD1	1.99	0.62
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.29	0.62
8:AH:29:SER:HB3	8:AH:32:LYS:HB2	1.80	0.62
30:B5:40:LYS:NZ	30:B5:46:CYS:HB3	2.14	0.62
35:BA:754:C:H2'	35:BA:755:C:C6	2.34	0.62
35:BA:1686:C:H5'	35:BA:1686:C:C6	2.30	0.62
38:BD:206:LEU:HA	38:BD:211:ARG:HE	1.63	0.62
39:BE:84:PHE:O	39:BE:86:PRO:HD3	1.99	0.62
40:BF:134:GLY:HA2	40:BF:166:ALA:HB2	1.81	0.62
46:BN:47:ALA:HB2	46:BN:112:LEU:HD11	1.81	0.62
48:BP:14:LYS:O	48:BP:15:ARG:HG3	1.99	0.62
52:BT:28:VAL:HG22	52:BT:46:GLU:C	2.24	0.62
52:BT:48:ILE:H	52:BT:48:ILE:HD12	1.63	0.62
52:BT:55:ASN:HD22	52:BT:58:ASN:HD21	1.47	0.62
54:BV:5:VAL:HG23	54:BV:37:VAL:HG23	1.81	0.62
58:BZ:151:HIS:CD2	58:BZ:170:THR:HG22	2.34	0.62
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.81	0.62
4:CD:30:LYS:C	4:CD:32:ALA:N	2.56	0.62
10:CJ:16:LEU:C	10:CJ:18:ALA:H	2.06	0.62
24:CY:128:GLU:HA	24:CY:195:PHE:CE2	2.33	0.62
39:DE:36:ARG:HH21	39:DE:88:GLY:HA2	1.64	0.62
41:DG:13:GLU:O	41:DG:14:GLU:HB2	1.99	0.62
59:DI:75:LEU:HD22	59:DI:141:LYS:HD2	1.80	0.62
57:DY:28:LYS:N	57:DY:28:LYS:CE	2.62	0.62
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.34	0.62
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.63	0.62
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.57	0.62
6:AF:97:PHE:O	18:AR:31:LEU:HD23	1.98	0.62
11:AK:46:GLY:HA2	11:AK:50:TYR:O	1.99	0.62
22:AV:62:C:O2	22:AV:62:C:H2'	1.99	0.62
28:B3:6:VAL:HG13	28:B3:54:VAL:HG21	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1103:A:H5'	35:BA:1104:C:OP2	1.98	0.62
35:BA:1278:A:OP1	50:BR:36:THR:HG22	1.99	0.62
35:BA:2022:U:O2'	35:BA:2617:C:H5'	1.99	0.62
43:BI:26:ALA:O	43:BI:32:PRO:HD3	1.99	0.62
45:BK:18:THR:N	45:BK:19:PRO:CD	2.62	0.62
50:BR:118:GLU:HA	50:BR:118:GLU:OE1	1.98	0.62
52:BT:27:THR:O	52:BT:28:VAL:HB	1.98	0.62
2:CB:178:ARG:NH2	8:CH:74:PRO:HG3	2.14	0.62
3:CC:155:GLY:HA3	3:CC:163:ALA:HB1	1.82	0.62
4:CD:73:ARG:HB2	4:CD:73:ARG:HH11	1.64	0.62
7:CG:148:ASN:N	7:CG:148:ASN:HD22	1.96	0.62
13:CM:24:GLY:C	13:CM:25:ILE:HD12	2.24	0.62
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.14	0.62
24:CY:153:VAL:HA	24:CY:169:ILE:HG22	1.80	0.62
28:D3:19:GLN:HE22	28:D3:52:HIS:HE1	1.47	0.62
31:D6:15:GLU:OE1	31:D6:18:ARG:NE	2.31	0.62
33:D8:30:ARG:CZ	35:DA:2419:U:O4	2.47	0.62
35:DA:833:U:H2'	35:DA:834:C:C6	2.33	0.62
35:DA:1187:G:H5"	54:DV:81:TYR:HE2	1.63	0.62
35:DA:1434:A:H61	35:DA:1558:A:N6	1.97	0.62
35:DA:1747:G:H2'	35:DA:1747(A):G:H8	1.64	0.62
35:DA:2444:G:OP2	40:DF:68:LYS:HE2	1.99	0.62
45:DK:111:LYS:C	45:DK:113:PRO:HD2	2.23	0.62
46:DN:78:TYR:H	46:DN:78:TYR:HD1	1.46	0.62
48:DP:102:ARG:O	48:DP:103:ALA:HB2	1.99	0.62
49:DQ:38:GLU:HG3	49:DQ:127:ILE:HB	1.81	0.62
56:DX:89:ILE:O	56:DX:93:GLU:HG2	1.99	0.62
1:AA:79:G:HO2'	1:AA:80:G:C5'	2.12	0.62
1:AA:416:G:H8	1:AA:416:G:O5'	1.81	0.62
1:AA:625:G:H2'	1:AA:626:U:H6	1.62	0.62
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.34	0.62
2:AB:184:VAL:HG12	2:AB:197:VAL:HG13	1.80	0.62
4:AD:162:LEU:HD12	4:AD:181:MET:CE	2.28	0.62
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.63	0.62
9:AI:43:ALA:HA	9:AI:74:ILE:HD13	1.81	0.62
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.64	0.62
11:AK:27:ASN:HA	11:AK:56:GLY:HA2	1.79	0.62
17:AQ:81:ARG:C	17:AQ:83:ASP:H	2.06	0.62
29:B4:48:ILE:HD12	29:B4:48:ILE:N	2.15	0.62
32:B7:8:ASN:ND2	32:B7:11:LYS:H	1.97	0.62
33:B8:33:ASN:HA	33:B8:36:LYS:CD	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:469:G:C2'	35:BA:470:A:H5"	2.29	0.62
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.34	0.62
35:BA:2377:A:H4'	51:BS:107:GLU:O	1.99	0.62
35:BA:2722:G:H2'	35:BA:2723:C:C6	2.34	0.62
37:BC:49:ILE:HG23	37:BC:51:PRO:HD3	1.81	0.62
38:BD:235:GLY:C	38:BD:237:GLU:H	2.07	0.62
40:BF:3:GLU:CG	40:BF:19:GLU:HB2	2.22	0.62
49:BQ:141:GLN:NE2	58:BZ:72:ARG:HA	2.14	0.62
55:BW:60:ASN:C	55:BW:61:ASN:HD22	2.08	0.62
56:BX:89:ILE:O	56:BX:93:GLU:HG2	1.98	0.62
58:BZ:7:ALA:HB3	58:BZ:61:LEU:HD13	1.80	0.62
1:CA:382:A:H2'	1:CA:383:A:H8	1.64	0.62
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.33	0.62
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.59	0.62
10:CJ:89:ASP:C	10:CJ:90:LEU:HD12	2.24	0.62
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.13	0.62
30:D5:7:PRO:HA	35:DA:2615:U:C2	2.34	0.62
38:DD:245:PRO:O	38:DD:246:PRO:C	2.42	0.62
39:DE:34:VAL:O	39:DE:35:GLN:HB2	1.99	0.62
39:DE:49:LEU:H	39:DE:49:LEU:CD1	2.11	0.62
40:DF:46:ARG:HG2	40:DF:46:ARG:NH1	2.11	0.62
50:DR:97:VAL:HG22	50:DR:114:VAL:HG22	1.81	0.62
51:DS:101:LEU:O	51:DS:106:ARG:NH2	2.33	0.62
52:DT:23:ARG:HB2	52:DT:24:PRO:HD2	1.80	0.62
53:DU:50:ARG:NH2	54:DV:72:VAL:HG12	2.13	0.62
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.64	0.62
4:AD:30:LYS:CB	4:AD:35:ARG:HD2	2.29	0.62
6:AF:33:TYR:HD1	6:AF:75:LEU:HB2	1.64	0.62
10:AJ:4:ILE:HG12	10:AJ:100:THR:HG22	1.80	0.62
18:AR:21:LYS:HZ3	18:AR:55:ARG:N	1.96	0.62
20:AT:44:ALA:HB1	20:AT:88:VAL:HA	1.80	0.62
24:AY:25:ARG:CA	24:AY:28:GLU:HB2	2.28	0.62
24:AY:33:LEU:C	24:AY:36:PRO:HD3	2.24	0.62
24:AY:328:LEU:HD23	24:AY:329:MET:N	2.13	0.62
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.99	0.62
35:BA:2263:C:H5'	35:BA:2263:C:H6	1.65	0.62
35:BA:2367:G:H2'	35:BA:2368:C:H6	1.65	0.62
35:BA:2702:U:H5	35:BA:2705:A:N6	1.97	0.62
37:BC:64:LEU:HD12	37:BC:66:HIS:O	1.98	0.62
55:BW:86:LEU:C	55:BW:86:LEU:HD12	2.25	0.62
57:BY:28:LYS:N	57:BY:28:LYS:CE	2.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:128:VAL:HG22	58:BZ:129:SER:N	2.15	0.62
1:CA:973:G:O4'	10:CJ:55:LYS:HB3	1.99	0.62
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.33	0.62
4:CD:61:LYS:HA	4:CD:203:VAL:HG22	1.81	0.62
11:CK:22:HIS:HB3	11:CK:29:ILE:HG13	1.80	0.62
18:CR:52:PRO:O	18:CR:56:THR:HG23	1.99	0.62
24:CY:35:ASP:C	24:CY:37:SER:H	2.07	0.62
24:CY:312:ARG:CZ	24:CY:344:LEU:HD12	2.28	0.62
25:D0:49:LYS:H	25:D0:80:HIS:CB	2.11	0.62
35:DA:613:G:H8	35:DA:613:G:C5'	2.12	0.62
35:DA:1094:U:H2'	35:DA:1096:A:OP2	1.98	0.62
35:DA:1171:G:H3'	35:DA:1173:G:C5'	2.29	0.62
35:DA:1257:C:H4'	40:DF:83:PHE:CD2	2.34	0.62
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.34	0.62
35:DA:2124:G:H2'	35:DA:2125:G:O4'	2.00	0.62
45:DK:48:MET:HE1	45:DK:69:THR:HG21	1.81	0.62
46:DN:56:ASN:CG	46:DN:126:PRO:HD3	2.24	0.62
58:DZ:4:ARG:HB3	58:DZ:4:ARG:NH1	2.13	0.62
1:AA:359:U:OP1	59:DI:87:LYS:HD3	2.00	0.62
1:AA:575:G:H4'	1:AA:576:G:H5"	1.80	0.62
1:AA:938:A:H5'	7:AG:76:ARG:HH22	1.64	0.62
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.30	0.62
1:AA:1188:A:C2'	1:AA:1189:C:H5'	2.30	0.62
4:AD:64:LEU:HB2	4:AD:198:VAL:HG21	1.80	0.62
4:AD:96:LEU:HD12	4:AD:96:LEU:N	2.15	0.62
4:AD:145:GLU:C	4:AD:146:ILE:HD12	2.24	0.62
7:AG:87:VAL:HG13	7:AG:151:TYR:O	1.99	0.62
24:AY:15:GLY:O	24:AY:20:PRO:HD2	1.99	0.62
25:B0:18:ALA:HB1	35:BA:2271:G:OP1	1.98	0.62
35:BA:2123:G:O2'	37:BC:176:GLY:HA2	1.99	0.62
38:BD:271:ILE:O	38:BD:272:ALA:HB3	2.00	0.62
39:BE:108:SER:HB3	39:BE:165:VAL:HG21	1.79	0.62
46:BN:35:ARG:HD3	46:BN:37:LYS:HD2	1.82	0.62
49:BQ:38:GLU:HG3	49:BQ:127:ILE:HB	1.81	0.62
50:BR:8:ARG:NE	50:BR:8:ARG:HA	2.14	0.62
58:BZ:150:LEU:CD2	58:BZ:171:ILE:HD11	2.30	0.62
1:CA:272:C:H2'	1:CA:273:A:H8	1.64	0.62
1:CA:460:G:O6	1:CA:470:C:H5"	2.00	0.62
1:CA:1190:G:OP1	3:CC:4:LYS:HA	1.99	0.62
1:CA:1405:G:O2'	1:CA:1406:U:H5'	2.00	0.62
4:CD:64:LEU:HB2	4:CD:198:VAL:HG21	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:97:PHE:O	18:CR:31:LEU:HD23	1.99	0.62
22:CV:20:U:H3'	22:CV:21:A:H5'	1.80	0.62
24:CY:159:GLY:H	24:CY:164:ILE:HA	1.64	0.62
24:CY:274:LEU:O	24:CY:278:ILE:HD13	1.99	0.62
25:D0:12:ASN:O	25:D0:14:ARG:N	2.31	0.62
28:D3:6:VAL:HG13	28:D3:54:VAL:HG21	1.81	0.62
32:D7:24:THR:HG23	32:D7:27:GLY:H	1.65	0.62
39:DE:106:GLY:HA3	39:DE:189:PRO:HB2	1.81	0.62
40:DF:32:LEU:O	40:DF:36:VAL:HG23	1.99	0.62
49:DQ:55:VAL:CG2	49:DQ:56:ARG:H	2.13	0.62
52:DT:107:ASP:H	52:DT:110:ILE:HG13	1.64	0.62
53:DU:26:GLY:C	53:DU:28:ARG:H	2.08	0.62
58:DZ:72:ARG:HG2	58:DZ:89:PHE:HB2	1.82	0.62
1:AA:272:C:H2'	1:AA:273:A:H8	1.64	0.62
1:AA:308:C:H2'	1:AA:309:G:H8	1.63	0.62
2:AB:185:ILE:HD11	2:AB:199:TYR:HD1	1.64	0.62
6:AF:97:PHE:HB2	18:AR:32:ARG:NH2	2.14	0.62
7:AG:145:ALA:C	7:AG:147:ALA:H	2.07	0.62
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.13	0.62
9:AI:51:ARG:HG2	9:AI:56:LEU:HD12	1.81	0.62
15:AO:56:LEU:HD21	35:BA:715:G:C2	2.33	0.62
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.15	0.62
20:AT:89:ARG:NH2	20:AT:104:LEU:HD21	2.11	0.62
22:AV:40:C:H2'	22:AV:41:C:C6	2.34	0.62
24:AY:304:PRO:O	24:AY:305:ILE:HG22	2.00	0.62
35:BA:80:G:O2'	35:BA:81:G:H5'	1.99	0.62
35:BA:634:C:H2'	35:BA:635:C:C6	2.34	0.62
35:BA:1094:U:H2'	35:BA:1096:A:OP2	1.99	0.62
35:BA:1925:C:O2'	35:BA:1926:U:H5'	1.98	0.62
37:BC:77:ILE:HB	37:BC:121:GLY:O	2.00	0.62
38:BD:182:LEU:O	38:BD:271:ILE:HD12	1.97	0.62
39:BE:36:ARG:NH2	39:BE:88:GLY:HA2	2.13	0.62
47:BO:98:VAL:CG1	47:BO:117:LEU:HB3	2.29	0.62
49:BQ:5:ARG:O	49:BQ:6:ARG:HG2	2.00	0.62
52:BT:57:PHE:O	52:BT:59:THR:N	2.33	0.62
1:CA:637:G:H2'	1:CA:638:G:H8	1.64	0.62
1:CA:838:G:C2'	1:CA:839:U:H5"	2.30	0.62
1:CA:1053:G:H3'	1:CA:1054:C:H5'	1.80	0.62
2:CB:87:ARG:HH11	2:CB:223:ILE:HD13	1.64	0.62
4:CD:96:LEU:HD12	4:CD:96:LEU:N	2.14	0.62
7:CG:135:VAL:O	7:CG:138:LYS:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:89:ARG:NH2	20:CT:104:LEU:HD21	2.12	0.62
24:CY:51:GLU:HG3	24:CY:54:ARG:HH22	1.64	0.62
34:D9:11:CYS:SG	34:D9:32:HIS:CE1	2.93	0.62
35:DA:958:U:H5"	49:DQ:14:ARG:HD3	1.80	0.62
35:DA:1925:C:O2'	35:DA:1926:U:H5'	1.99	0.62
35:DA:2830:G:H5'	39:DE:58:ARG:HH22	1.64	0.62
41:DG:138:GLN:OE1	41:DG:153:ARG:HB2	1.99	0.62
59:DI:8:PRO:O	59:DI:9:LEU:HB2	2.00	0.62
45:DK:82:ALA:HB2	45:DK:99:ILE:HD11	1.80	0.62
50:DR:97:VAL:HA	50:DR:113:LEU:O	1.98	0.62
53:DU:90:VAL:CG1	53:DU:91:ASP:H	2.12	0.62
1:AA:108:G:H5'	1:AA:109:A:H5"	1.79	0.62
1:AA:973:G:O4'	10:AJ:55:LYS:HB3	2.00	0.62
1:AA:1346:A:N1	1:AA:1374:A:H5"	2.15	0.62
2:AB:71:VAL:CG2	2:AB:164:VAL:HG22	2.30	0.62
3:AC:106:VAL:HG12	3:AC:108:ASN:H	1.65	0.62
3:AC:155:GLY:HA3	3:AC:163:ALA:HB1	1.82	0.62
13:AM:23:TYR:CE1	13:AM:71:ARG:HB2	2.35	0.62
24:AY:33:LEU:H	45:BK:29:GLN:NE2	1.96	0.62
24:AY:113:GLU:HA	24:AY:175:ASN:N	2.14	0.62
26:B1:11:ARG:HB2	26:B1:12:PRO:HD2	1.82	0.62
35:BA:674:G:H1'	40:BF:74:ARG:CD	2.28	0.62
35:BA:2439:A:C8	35:BA:2439:A:H5'	2.34	0.62
38:BD:33:LEU:HD23	38:BD:33:LEU:H	1.64	0.62
38:BD:142:VAL:HG21	38:BD:191:ALA:HB1	1.80	0.62
39:BE:66:HIS:CD2	39:BE:66:HIS:C	2.76	0.62
39:BE:69:LYS:HZ1	39:BE:89:ASP:HA	1.61	0.62
40:BF:18:ARG:HG2	40:BF:19:GLU:N	2.15	0.62
40:BF:46:ARG:HG2	40:BF:46:ARG:NH1	2.12	0.62
42:BH:41:MET:HE2	42:BH:55:PRO:HD3	1.80	0.62
43:BI:15:VAL:HG12	43:BI:16:GLY:N	2.14	0.62
51:BS:26:LEU:HA	51:BS:39:ILE:HD13	1.81	0.62
52:BT:104:ASN:O	52:BT:106:SER:N	2.31	0.62
54:BV:19:LYS:NZ	54:BV:20:LEU:H	1.98	0.62
1:CA:355:C:N4	1:CA:356:A:H62	1.98	0.62
1:CA:1137:C:H4'	1:CA:1138:G:N2	2.14	0.62
1:CA:1254:C:OP1	10:CJ:45:ARG:HD3	1.99	0.62
3:CC:42:LEU:O	3:CC:45:LYS:HB2	1.99	0.62
33:D8:33:ASN:HA	33:D8:36:LYS:CD	2.22	0.62
35:DA:320:A:H3'	40:DF:136:THR:CG2	2.29	0.62
35:DA:886:C:O2'	35:DA:887:A:H4'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:7:G:H4'	51:DS:29:PHE:CD1	2.35	0.62
39:DE:57:LYS:HB3	39:DE:57:LYS:HZ3	1.65	0.62
41:DG:78:SER:O	41:DG:80:PHE:N	2.33	0.62
41:DG:129:GLY:O	41:DG:161:THR:HB	2.00	0.62
49:DQ:110:THR:CB	49:DQ:112:GLU:HG2	2.27	0.62
50:DR:55:ALA:HA	50:DR:80:PHE:CE1	2.35	0.62
52:DT:14:TYR:N	52:DT:14:TYR:CD1	2.67	0.62
54:DV:39:LEU:HB3	54:DV:47:VAL:HG21	1.81	0.62
54:DV:53:GLU:O	54:DV:54:GLY:C	2.42	0.62
57:DY:84:ARG:HH12	57:DY:97:ARG:HE	1.48	0.62
58:DZ:166:SER:HB3	58:DZ:169:GLU:HB2	1.82	0.62
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.35	0.62
1:AA:908:A:H2'	1:AA:909:A:C8	2.34	0.62
1:AA:908:A:H2'	1:AA:909:A:H8	1.65	0.62
1:AA:1053:G:H3'	1:AA:1054:C:H5'	1.81	0.62
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.12	0.62
9:AI:65:VAL:O	9:AI:66:ARG:HG3	1.99	0.62
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.81	0.62
22:AW:38:A:C2'	22:AW:39:U:H5"	2.29	0.62
24:AY:59:VAL:HG13	24:AY:62:PHE:CD2	2.35	0.62
24:AY:205:PHE:CE2	24:AY:307:TRP:HA	2.34	0.62
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.34	0.62
35:BA:686:G:N2	35:BA:788:A:H61	1.98	0.62
45:BK:51:ALA:HB1	45:BK:76:TYR:CE2	2.35	0.62
45:BK:82:ALA:HB2	45:BK:99:ILE:HD11	1.81	0.62
48:BP:135:LEU:HD13	48:BP:144:GLU:OE2	2.00	0.62
52:BT:82:LEU:O	52:BT:84:GLN:N	2.32	0.62
53:BU:57:PHE:O	53:BU:58:ARG:C	2.42	0.62
58:BZ:126:VAL:HG12	58:BZ:162:GLU:O	2.00	0.62
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.11	0.62
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	1.99	0.62
10:CJ:48:THR:CB	10:CJ:62:HIS:HB3	2.28	0.62
19:CS:32:LYS:HD2	19:CS:57:HIS:CD2	2.35	0.62
24:CY:113:GLU:HA	24:CY:175:ASN:CA	2.30	0.62
35:DA:27:G:N2	35:DA:512:G:C2'	2.62	0.62
35:DA:481:G:H1'	35:DA:506:G:N2	2.15	0.62
35:DA:1799:G:H5'	35:DA:1819:A:N6	2.14	0.62
35:DA:2127:G:H5'	37:DC:36:LYS:HG2	1.82	0.62
38:DD:271:ILE:O	38:DD:272:ALA:HB3	1.98	0.62
39:DE:55:ASN:ND2	39:DE:75:VAL:HG22	2.15	0.62
39:DE:69:LYS:HE3	39:DE:90:THR:OG1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:103:ASP:OD2	39:DE:201:THR:HA	1.99	0.62
41:DG:70:VAL:HG12	41:DG:71:THR:N	2.15	0.62
42:DH:85:LYS:HD2	42:DH:141:VAL:HG22	1.82	0.62
42:DH:96:ALA:CB	42:DH:105:LEU:HD13	2.26	0.62
45:DK:17:ALA:O	45:DK:18:THR:HB	1.99	0.62
45:DK:67:PHE:HD1	45:DK:67:PHE:H	1.48	0.62
46:DN:57:ALA:O	46:DN:58:ASP:C	2.43	0.62
48:DP:16:ARG:O	48:DP:16:ARG:HD2	2.00	0.62
51:DS:106:ARG:HD2	51:DS:108:GLY:N	2.15	0.62
22:AW:59:U:O2'	22:AW:60:U:H5'	2.00	0.62
28:B3:3:ARG:O	28:B3:36:VAL:HA	2.00	0.62
35:BA:481:G:H1'	35:BA:506:G:N2	2.14	0.62
35:BA:870:A:OP1	49:BQ:6:ARG:HG3	2.00	0.62
35:BA:1747(A):G:O2'	35:BA:1748:G:H5"	2.00	0.62
35:BA:2830:G:H5'	39:BE:58:ARG:HH22	1.64	0.62
38:BD:48:ARG:HG3	38:BD:48:ARG:HH11	1.65	0.62
39:BE:36:ARG:HH12	39:BE:86:PRO:HD2	1.64	0.62
40:BF:10:PRO:HA	40:BF:128:ALA:HB2	1.81	0.62
43:BI:4:ILE:HG22	43:BI:5:LEU:H	1.65	0.62
43:BI:113:ARG:HB2	43:BI:130:TYR:CE1	2.34	0.62
49:BQ:110:THR:CB	49:BQ:112:GLU:HG2	2.28	0.62
53:BU:88:ILE:C	53:BU:90:VAL:H	2.08	0.62
54:BV:39:LEU:HB3	54:BV:47:VAL:HG21	1.81	0.62
55:BW:79:GLY:C	55:BW:100:THR:HG23	2.24	0.62
57:BY:4:LYS:C	57:BY:4:LYS:HD2	2.25	0.62
57:BY:60:PHE:HA	57:BY:62:GLU:CD	2.24	0.62
1:CA:880:C:O2'	1:CA:881:G:H5'	1.99	0.62
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.34	0.62
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.63	0.62
12:CL:47:LYS:CG	12:CL:48:PRO:HD3	2.30	0.62
22:CW:16:U:N3	22:CW:19:G:H5"	2.15	0.62
25:D0:43:THR:H	35:DA:2331:G:H4'	1.65	0.62
26:D1:3:LYS:HG3	26:D1:4:VAL:HG12	1.81	0.62
35:DA:754:C:H2'	35:DA:755:C:C6	2.35	0.62
38:DD:48:ARG:HH11	38:DD:48:ARG:HG3	1.65	0.62
59:DI:101:LEU:C	59:DI:103:ARG:H	2.08	0.62
45:DK:18:THR:N	45:DK:19:PRO:CD	2.62	0.62
45:DK:57:ILE:HD12	45:DK:57:ILE:N	2.14	0.62
48:DP:52:GLU:HA	48:DP:52:GLU:OE1	1.99	0.62
49:DQ:51:ARG:HH11	49:DQ:51:ARG:HG2	1.65	0.62
53:DU:46:ALA:O	53:DU:50:ARG:HB2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:111:VAL:HG22	58:DZ:112:ARG:N	2.15	0.62
1:AA:797:C:OP1	11:AK:124:LYS:HE2	1.99	0.62
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.64	0.62
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.14	0.62
1:AA:1281:U:H4'	1:AA:1282:C:OP2	2.00	0.62
3:AC:63:ASN:HA	3:AC:98:ASN:HB3	1.82	0.62
8:AH:12:ARG:HH12	8:AH:27:PRO:HD3	1.64	0.62
13:AM:9:ILE:CG2	13:AM:11:ARG:HE	2.11	0.62
35:BA:271(M):G:O2'	35:BA:271(O):C:H5'	1.99	0.62
35:BA:330:A:O2'	35:BA:331:A:H8	1.83	0.62
35:BA:1090:U:H2'	35:BA:1091:G:H8	1.65	0.62
35:BA:1171:G:H3'	35:BA:1173:G:C5'	2.30	0.62
35:BA:2485:G:H5"	49:BQ:46:GLN:NE2	2.14	0.62
35:BA:2836:U:H2'	35:BA:2837:G:H8	1.63	0.62
38:BD:147:LEU:HD11	38:BD:183:ARG:NH1	2.15	0.62
41:BG:59:GLU:O	41:BG:63:ILE:HG23	2.00	0.62
45:BK:57:ILE:HD12	45:BK:57:ILE:N	2.15	0.62
52:BT:33:LYS:NZ	52:BT:74:ARG:HH21	1.98	0.62
54:BV:53:GLU:O	54:BV:54:GLY:C	2.43	0.62
54:BV:72:VAL:O	54:BV:72:VAL:HG23	1.99	0.62
1:CA:189(A):C:H2'	1:CA:189(B):C:C6	2.35	0.62
8:CH:73:ASP:OD2	8:CH:75:ARG:HD3	2.00	0.62
9:CI:43:ALA:O	9:CI:45:ALA:N	2.33	0.62
9:CI:89:ASN:HB3	9:CI:92:TYR:CD1	2.34	0.62
11:CK:15:ALA:HA	11:CK:76:GLY:O	1.99	0.62
12:CL:70:ILE:HG12	12:CL:100:ILE:HD12	1.81	0.62
17:CQ:48:GLU:HB2	17:CQ:50:LYS:HG2	1.82	0.62
22:CV:71:G:C2'	22:CV:72:C:C5'	2.74	0.62
24:CY:315:VAL:HG21	24:CY:320:TYR:CZ	2.34	0.62
25:D0:10:THR:HG22	25:D0:11:ARG:N	2.05	0.62
27:D2:59:ARG:O	27:D2:63:VAL:HG23	2.00	0.62
34:D9:10:ILE:HG23	35:DA:2477:C:H41	1.65	0.62
35:DA:324:A:H2'	35:DA:325:G:O4'	1.99	0.62
35:DA:1314:C:H5'	35:DA:1314:C:H6	1.64	0.62
35:DA:1407:C:H42	35:DA:1595:G:H1	1.48	0.62
35:DA:2653:U:C2'	42:DH:110:SER:HB2	2.30	0.62
37:DC:36:LYS:CG	37:DC:37:PHE:H	2.08	0.62
42:DH:83:TYR:HD1	42:DH:83:TYR:H	1.47	0.62
59:DI:1:MET:HB2	59:DI:23:PRO:HG3	1.80	0.62
59:DI:4:ILE:CG1	59:DI:18:VAL:HG23	2.29	0.62
48:DP:14:LYS:O	48:DP:15:ARG:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:43:THR:OG1	49:DQ:46:GLN:HG3	1.99	0.62
54:DV:18:LEU:HD13	54:DV:19:LYS:N	2.14	0.62
58:DZ:117:LEU:H	58:DZ:117:LEU:CD2	2.11	0.62
1:AA:163:C:H2'	1:AA:164:U:C6	2.35	0.61
4:AD:73:ARG:HB2	4:AD:73:ARG:HH11	1.64	0.61
7:AG:13:GLN:O	7:AG:24:THR:HG21	1.99	0.61
11:AK:79:SER:HB2	11:AK:106:LYS:HD3	1.82	0.61
13:AM:90:LEU:O	13:AM:92:HIS:N	2.33	0.61
22:AW:15:G:N3	22:AW:15:G:H2'	2.15	0.61
27:B2:3:LEU:HD13	27:B2:4:SER:N	2.15	0.61
33:B8:7:HIS:CB	33:B8:59:LYS:HD2	2.29	0.61
35:BA:2262:U:O2'	35:BA:2263:C:H5"	1.99	0.61
39:BE:69:LYS:HE3	39:BE:90:THR:OG1	2.00	0.61
39:BE:110:GLY:O	50:BR:2:ARG:NH1	2.33	0.61
41:BG:114:ILE:HA	41:BG:140:ILE:HD11	1.81	0.61
48:BP:147:LEU:CG	48:BP:148:LEU:H	2.09	0.61
52:BT:120:ARG:O	52:BT:123:GLN:HG2	2.00	0.61
53:BU:57:PHE:C	53:BU:59:ARG:N	2.57	0.61
1:CA:353:A:H8	1:CA:353:A:H5'	1.65	0.61
1:CA:862:C:C2'	1:CA:863:U:H5'	2.30	0.61
1:CA:1493:A:H4'	23:CX:22:U:O2	2.00	0.61
11:CK:27:ASN:HA	11:CK:56:GLY:HA2	1.81	0.61
33:D8:33:ASN:HD22	33:D8:34:TRP:H	1.46	0.61
35:DA:271(M):G:O2'	35:DA:271(O):C:H5'	2.00	0.61
35:DA:606:U:H4'	35:DA:658:C:H4'	1.82	0.61
35:DA:671:C:O2'	35:DA:672:C:H5'	2.00	0.61
35:DA:889:C:H1'	35:DA:890:A:O4'	2.00	0.61
35:DA:1292:U:O2'	35:DA:1293:C:H5'	2.00	0.61
35:DA:1431:U:O2'	35:DA:1432:C:H5'	1.99	0.61
35:DA:2262:U:H2'	35:DA:2263:C:C5'	2.29	0.61
35:DA:2349:G:H8	35:DA:2349:G:H5'	1.63	0.61
35:DA:2401:U:C3'	35:DA:2402:C:H5"	2.29	0.61
38:DD:24:ILE:HG13	38:DD:83:GLU:HA	1.81	0.61
39:DE:179:GLU:O	39:DE:180:ASN:HB2	1.99	0.61
40:DF:130:ALA:HB3	40:DF:142:TRP:HD1	1.63	0.61
41:DG:128:ARG:C	41:DG:130:ASN:N	2.48	0.61
42:DH:13:LYS:HE2	42:DH:13:LYS:CA	2.25	0.61
47:DO:105:GLU:HA	47:DO:108:GLU:CG	2.30	0.61
49:DQ:55:VAL:HG12	49:DQ:64:ILE:HD12	1.82	0.61
54:DV:18:LEU:HD22	54:DV:19:LYS:H	1.64	0.61
58:DZ:35:ARG:O	58:DZ:37:VAL:HG13	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:53:ILE:H	58:DZ:53:ILE:HD12	1.64	0.61
1:AA:831:U:H2'	1:AA:832:C:H6	1.64	0.61
1:AA:1347:G:C8	9:AI:107:ARG:HB3	2.35	0.61
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.14	0.61
30:B5:45:VAL:HG22	30:B5:51:TYR:CE2	2.34	0.61
31:B6:22:ALA:HB2	31:B6:39:TYR:CE2	2.35	0.61
33:B8:34:TRP:CG	33:B8:35:GLN:N	2.66	0.61
35:BA:1689:A:H62	35:BA:1698:A:H2	1.49	0.61
35:BA:1865:G:H5'	35:BA:1866:C:OP2	2.01	0.61
38:BD:31:LYS:HG3	38:BD:33:LEU:HG	1.82	0.61
38:BD:245:PRO:O	38:BD:246:PRO:C	2.43	0.61
40:BF:32:LEU:O	40:BF:36:VAL:HG23	1.99	0.61
40:BF:125:LEU:HD11	40:BF:199:TRP:CD1	2.35	0.61
41:BG:42:GLY:O	41:BG:43:LEU:HB2	1.99	0.61
42:BH:97:ARG:HA	42:BH:125:VAL:HG11	1.80	0.61
47:BO:77:ILE:HD11	52:BT:72:VAL:CG1	2.30	0.61
48:BP:16:ARG:O	48:BP:16:ARG:HD2	2.00	0.61
48:BP:81:GLN:HG2	48:BP:106:LEU:HD22	1.80	0.61
1:CA:71:C:H42	1:CA:98:G:H1	1.48	0.61
1:CA:416:G:H8	1:CA:416:G:O5'	1.83	0.61
4:CD:162:LEU:HD12	4:CD:181:MET:CE	2.29	0.61
8:CH:11:THR:HA	8:CH:14:ARG:HH12	1.65	0.61
10:CJ:4:ILE:HG12	10:CJ:100:THR:HG22	1.83	0.61
22:CW:54:U:O2	22:CW:54:U:H2'	2.00	0.61
35:DA:185:U:H4'	35:DA:218:A:H4'	1.82	0.61
35:DA:545:C:H2'	35:DA:547:A:O4'	2.00	0.61
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.65	0.61
35:DA:1805:U:O2	38:DD:50:THR:HB	1.99	0.61
35:DA:2702:U:H5	35:DA:2705:A:N6	1.98	0.61
38:DD:31:LYS:HG3	38:DD:33:LEU:HG	1.82	0.61
41:DG:80:PHE:O	41:DG:81:LYS:O	2.19	0.61
51:DS:58:LEU:O	51:DS:59:LYS:O	2.17	0.61
52:DT:12:SER:O	52:DT:15:VAL:HG13	1.99	0.61
1:AA:1037:C:H2'	1:AA:1038:C:C2	2.36	0.61
1:AA:1121:U:H2'	1:AA:1122:U:C6	2.32	0.61
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.65	0.61
3:AC:42:LEU:O	3:AC:45:LYS:HB2	2.00	0.61
3:AC:70:VAL:O	3:AC:106:VAL:HG23	2.01	0.61
4:AD:31:CYS:C	4:AD:33:MET:N	2.56	0.61
5:AE:136:MET:O	5:AE:138:ALA:N	2.33	0.61
8:AH:103:VAL:HG21	8:AH:109:ILE:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.00	0.61
13:AM:9:ILE:HG21	13:AM:11:ARG:HE	1.65	0.61
19:AS:32:LYS:HD2	19:AS:57:HIS:CD2	2.34	0.61
22:AV:50:U:H2'	22:AV:51:U:C6	2.35	0.61
26:B1:20:ARG:HH11	26:B1:20:ARG:HG2	1.66	0.61
26:B1:51:VAL:CG1	26:B1:58:ILE:HG22	2.31	0.61
35:BA:1100:C:O2'	35:BA:1101:U:H5'	2.00	0.61
35:BA:1473:G:O2'	35:BA:1474:C:H5'	2.00	0.61
35:BA:2289:G:H1'	35:BA:2346:A:H2	1.65	0.61
39:BE:176:ILE:HG22	39:BE:176:ILE:O	2.00	0.61
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.48	0.61
52:BT:115:ARG:HA	52:BT:115:ARG:NE	2.15	0.61
53:BU:26:GLY:C	53:BU:28:ARG:H	2.06	0.61
58:BZ:115:GLY:HA2	58:BZ:175:VAL:O	2.01	0.61
1:CA:1065:U:H1'	1:CA:1066:C:OP2	2.00	0.61
3:CC:34:LEU:O	3:CC:37:GLN:HB2	2.00	0.61
7:CG:23:VAL:CG1	7:CG:43:PHE:HE2	2.12	0.61
12:CL:110:VAL:O	12:CL:122:THR:HG21	2.00	0.61
13:CM:90:LEU:O	13:CM:92:HIS:N	2.33	0.61
19:CS:45:VAL:HA	19:CS:62:ILE:HG23	1.82	0.61
19:CS:51:VAL:HG12	19:CS:52:TYR:O	2.01	0.61
19:CS:79:THR:O	19:CS:80:TYR:CB	2.48	0.61
24:CY:332:ASP:O	24:CY:335:ASN:N	2.33	0.61
27:D2:2:LYS:HG2	27:D2:3:LEU:N	2.14	0.61
34:D9:29:ASN:HD21	34:D9:32:HIS:CG	2.18	0.61
35:DA:1100:C:O2'	35:DA:1101:U:H5'	2.01	0.61
35:DA:1747(A):G:O2'	35:DA:1748:G:H5"	2.00	0.61
35:DA:2134:A:H62	35:DA:2157:G:H1'	1.62	0.61
35:DA:2147:G:H2'	35:DA:2148:G:O4'	1.99	0.61
35:DA:2661:G:H2'	35:DA:2662:A:C8	2.36	0.61
59:DI:115:ALA:HB3	59:DI:129:THR:O	1.99	0.61
57:DY:49:VAL:HG12	57:DY:53:PRO:CG	2.29	0.61
1:AA:80:G:H5"	1:AA:83:U:OP1	2.01	0.61
1:AA:424:G:C8	35:DA:2139:C:H5"	2.34	0.61
1:AA:620:C:C2	4:AD:135:LEU:HG	2.35	0.61
1:AA:963:G:H21	10:AJ:55:LYS:HZ2	1.48	0.61
1:AA:1493:A:H1'	24:AY:124:ALA:HA	1.83	0.61
2:AB:223:ILE:HG22	2:AB:226:ARG:CZ	2.30	0.61
9:AI:53:VAL:HG23	9:AI:55:ALA:H	1.64	0.61
12:AL:70:ILE:HG12	12:AL:100:ILE:HD12	1.82	0.61
13:AM:65:LYS:C	13:AM:66:LEU:HD12	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:192:PRO:HA	24:AY:200:ARG:O	2.00	0.61
25:B0:12:ASN:C	25:B0:14:ARG:H	2.08	0.61
35:BA:1407:C:H42	35:BA:1595:G:H1	1.46	0.61
35:BA:1431:U:O2'	35:BA:1432:C:H5'	2.01	0.61
35:BA:2152:G:H2'	35:BA:2153:G:H8	1.63	0.61
35:BA:2401:U:C3'	35:BA:2402:C:H5"	2.29	0.61
37:BC:64:LEU:HG	37:BC:163:PHE:CB	2.30	0.61
39:BE:36:ARG:HH21	39:BE:88:GLY:HA2	1.65	0.61
39:BE:179:GLU:O	39:BE:180:ASN:HB2	1.99	0.61
42:BH:85:LYS:HD2	42:BH:141:VAL:HG22	1.83	0.61
45:BK:67:PHE:H	45:BK:67:PHE:HD1	1.48	0.61
46:BN:78:TYR:HD1	46:BN:78:TYR:H	1.49	0.61
52:BT:54:ARG:HG2	52:BT:54:ARG:HH11	1.65	0.61
54:BV:18:LEU:HD12	54:BV:18:LEU:N	2.15	0.61
55:BW:15:ARG:HA	55:BW:18:ARG:HD2	1.82	0.61
58:BZ:7:ALA:CB	58:BZ:59:LEU:HD22	2.27	0.61
1:CA:366:C:O2'	1:CA:367:U:H5"	2.00	0.61
1:CA:674:G:H2'	1:CA:675:A:H8	1.65	0.61
2:CB:223:ILE:HG22	2:CB:226:ARG:CZ	2.31	0.61
26:D1:13:ILE:HD11	26:D1:42:GLN:OE1	1.99	0.61
33:D8:15:LYS:HG3	48:DP:65:ARG:HH21	1.66	0.61
35:DA:674:G:H1'	40:DF:74:ARG:CD	2.29	0.61
35:DA:1459:G:H2'	35:DA:1459:G:N3	2.15	0.61
35:DA:2298:A:H2'	35:DA:2299:G:O4'	2.01	0.61
39:DE:79:ARG:HH12	39:DE:195:LEU:CD2	2.13	0.61
41:DG:37:VAL:HG23	41:DG:99:MET:HG3	1.83	0.61
41:DG:51:ARG:HA	41:DG:51:ARG:NE	2.01	0.61
46:DN:47:ALA:HB2	46:DN:112:LEU:HD11	1.82	0.61
50:DR:11:ASN:CG	50:DR:12:ARG:H	2.07	0.61
51:DS:96:GLY:O	51:DS:98:VAL:N	2.29	0.61
1:AA:972:C:O3'	10:AJ:57:LYS:HG3	2.00	0.61
1:AA:1321:C:C5'	1:AA:1322:C:H5"	2.30	0.61
2:AB:72:GLY:HA2	2:AB:165:VAL:CG2	2.30	0.61
9:AI:66:ARG:HB2	9:AI:66:ARG:HH11	1.66	0.61
10:AJ:4:ILE:HG12	10:AJ:100:THR:CG2	2.30	0.61
25:B0:32:ARG:N	25:B0:35:ASN:HD22	1.99	0.61
31:B6:27:LYS:HE3	35:BA:2285:C:C5	2.35	0.61
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.35	0.61
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.30	0.61
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.83	0.61
52:BT:62:THR:HG22	52:BT:75:ILE:HG12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:108:ARG:HB2	52:BT:108:ARG:HH11	1.64	0.61
1:CA:601:C:H2'	1:CA:602:A:C8	2.36	0.61
2:CB:185:ILE:HD11	2:CB:199:TYR:HD1	1.65	0.61
9:CI:49:PRO:HB3	9:CI:101:PHE:CD2	2.35	0.61
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.64	0.61
11:CK:57:THR:HG22	11:CK:59:TYR:H	1.64	0.61
16:CP:75:ARG:C	16:CP:77:ALA:H	2.08	0.61
24:CY:31:ARG:H	24:CY:31:ARG:CD	2.13	0.61
35:DA:321:G:C2	40:DF:165:ARG:NH1	2.68	0.61
35:DA:654(L):G:H2'	35:DA:654(M):C:C1'	2.31	0.61
40:DF:178:PRO:HB2	40:DF:201:VAL:HG11	1.83	0.61
48:DP:135:LEU:HD13	48:DP:144:GLU:OE2	2.01	0.61
49:DQ:5:ARG:O	49:DQ:6:ARG:HG2	2.00	0.61
58:DZ:10:ARG:HH11	58:DZ:36:LYS:HB3	1.64	0.61
9:AI:49:PRO:HB3	9:AI:101:PHE:CD2	2.36	0.61
11:AK:57:THR:HG22	11:AK:59:TYR:H	1.64	0.61
17:AQ:76:LEU:HG	17:AQ:77:VAL:H	1.65	0.61
31:B6:20:ASN:O	31:B6:21:TYR:CG	2.53	0.61
31:B6:36:LEU:HD13	31:B6:50:ARG:NH1	2.14	0.61
34:B9:30:PRO:HB2	35:BA:2527:C:H5'	1.81	0.61
35:BA:61:G:H1	35:BA:94:C:H42	1.48	0.61
35:BA:889:C:H1'	35:BA:890:A:O4'	2.00	0.61
35:BA:1576:U:H2'	35:BA:1577:C:C6	2.36	0.61
37:BC:96:GLY:C	37:BC:98:GLU:H	2.08	0.61
41:BG:68:PRO:HA	41:BG:92:VAL:HB	1.83	0.61
2:CB:82:ARG:CB	2:CB:92:TYR:HE1	2.13	0.61
5:CE:82:VAL:HG21	5:CE:138:ALA:CA	2.27	0.61
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.34	0.61
9:CI:48:GLU:HB3	9:CI:101:PHE:HE2	1.65	0.61
10:CJ:84:GLN:O	10:CJ:88:LEU:HB3	2.01	0.61
13:CM:23:TYR:CE1	13:CM:71:ARG:HB2	2.36	0.61
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.26	0.61
24:CY:150:GLN:HB2	24:CY:172:LYS:HB2	1.81	0.61
28:D3:2:PRO:O	28:D3:4:LEU:N	2.33	0.61
35:DA:686:G:N2	35:DA:788:A:H61	1.99	0.61
35:DA:2196:C:O2'	35:DA:2197:U:H5'	2.00	0.61
36:DB:17:C:O2'	36:DB:18:G:H5'	2.01	0.61
39:DE:176:ILE:HG22	39:DE:176:ILE:O	2.01	0.61
47:DO:47:ILE:HG23	47:DO:48:PRO:HD2	1.81	0.61
50:DR:8:ARG:HA	50:DR:8:ARG:NE	2.15	0.61
51:DS:36:TYR:N	51:DS:36:TYR:HD1	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:19:LYS:HZ3	54:DV:19:LYS:HA	1.64	0.61
58:DZ:10:ARG:NH1	58:DZ:36:LYS:HB3	2.15	0.61
1:AA:71:C:H42	1:AA:98:G:H1	1.47	0.61
1:AA:1499:A:H5'	1:AA:1499:A:H8	1.65	0.61
2:AB:82:ARG:CB	2:AB:92:TYR:HE1	2.13	0.61
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	2.00	0.61
27:B2:61:LEU:H	27:B2:61:LEU:CD2	2.11	0.61
31:B6:15:GLU:OE1	31:B6:18:ARG:CG	2.48	0.61
31:B6:38:LYS:HD2	35:BA:2344:U:OP1	2.01	0.61
35:BA:1562:A:H2'	35:BA:1563:G:H8	1.63	0.61
36:BB:117:G:C5'	51:BS:55:ALA:HB1	2.31	0.61
48:BP:102:ARG:O	48:BP:103:ALA:HB2	2.00	0.61
48:BP:114:ILE:HD13	48:BP:127:ALA:HB2	1.82	0.61
51:BS:58:LEU:O	51:BS:59:LYS:O	2.19	0.61
52:BT:27:THR:O	52:BT:28:VAL:CB	2.49	0.61
53:BU:50:ARG:NH2	54:BV:72:VAL:HG12	2.15	0.61
58:BZ:98:MET:O	58:BZ:125:LEU:HA	2.00	0.61
11:CK:17:GLY:HA3	11:CK:77:MET:SD	2.40	0.61
18:CR:21:LYS:HZ3	18:CR:55:ARG:N	1.99	0.61
20:CT:29:LYS:O	20:CT:33:ILE:HG12	2.00	0.61
25:D0:18:ALA:HB1	35:DA:2271:G:OP1	1.99	0.61
26:D1:26:ARG:HG3	26:D1:27:GLU:H	1.65	0.61
31:D6:9:LEU:O	31:D6:25:LYS:HA	2.00	0.61
31:D6:34:LEU:O	31:D6:35:GLU:HB2	2.00	0.61
35:DA:996:A:C4'	53:DU:92:ARG:HD2	2.27	0.61
35:DA:1528(A):A:C3'	35:DA:1529:G:H5"	2.31	0.61
35:DA:2123:G:O2'	37:DC:176:GLY:HA2	1.99	0.61
40:DF:24:LEU:HD12	40:DF:25:PRO:CD	2.20	0.61
41:DG:39:ILE:C	41:DG:39:ILE:HD12	2.26	0.61
42:DH:170:ARG:H	42:DH:170:ARG:HD2	1.64	0.61
59:DI:47:LEU:O	59:DI:51:ILE:HG13	2.01	0.61
59:DI:109:ILE:HD13	59:DI:109:ILE:H	1.65	0.61
49:DQ:33:GLY:HA2	49:DQ:105:GLU:HA	1.83	0.61
49:DQ:140:ALA:HA	58:DZ:99:TYR:CD1	2.35	0.61
52:DT:54:ARG:HH11	52:DT:54:ARG:HG2	1.65	0.61
56:DX:35:THR:HG22	56:DX:37:THR:H	1.64	0.61
1:AA:358:U:OP1	59:DI:121:LYS:HE3	1.99	0.61
2:AB:116:GLU:HA	2:AB:119:GLU:HB2	1.82	0.61
7:AG:148:ASN:HD22	7:AG:148:ASN:N	1.97	0.61
9:AI:48:GLU:HB3	9:AI:101:PHE:HE2	1.66	0.61
19:AS:31:ILE:HG23	19:AS:31:ILE:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:29:LYS:O	20:AT:33:ILE:HG12	2.01	0.61
25:B0:43:THR:H	35:BA:2331:G:H4'	1.65	0.61
26:B1:19:GLN:CB	26:B1:35:THR:HG22	2.31	0.61
27:B2:38:GLN:HB2	27:B2:44:LEU:CB	2.31	0.61
42:BH:38:SER:O	42:BH:40:GLU:N	2.34	0.61
51:BS:54:LEU:C	51:BS:56:LEU:H	2.08	0.61
58:BZ:141:VAL:O	58:BZ:141:VAL:HG13	2.00	0.61
1:CA:336:C:O2'	1:CA:337:C:H5'	2.00	0.61
1:CA:1095:U:H5'	1:CA:1109:C:O2	2.00	0.61
1:CA:1285:A:H1'	1:CA:1286:A:OP2	2.00	0.61
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.64	0.61
2:CB:18:GLY:N	2:CB:42:ILE:HG22	2.12	0.61
4:CD:18:LYS:HE3	4:CD:31:CYS:HB3	1.81	0.61
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	2.01	0.61
9:CI:51:ARG:HG2	9:CI:56:LEU:HD12	1.82	0.61
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.01	0.61
16:CP:39:TYR:CG	16:CP:40:ASP:N	2.69	0.61
19:CS:9:VAL:O	19:CS:11:VAL:N	2.34	0.61
27:D2:69:ARG:NH1	35:DA:111:A:H5"	2.15	0.61
28:D3:3:ARG:CB	28:D3:36:VAL:HB	2.22	0.61
35:DA:1812:A:H2'	35:DA:1813:G:H8	1.66	0.61
35:DA:1827:C:H2'	35:DA:1828:G:H5'	1.82	0.61
38:DD:31:LYS:HE3	38:DD:33:LEU:HD21	1.82	0.61
41:DG:21:ARG:HD2	41:DG:22:ARG:N	2.16	0.61
50:DR:72:ASP:HB3	50:DR:75:LEU:HB2	1.83	0.61
54:DV:1:MET:HE2	54:DV:1:MET:HA	1.82	0.61
1:AA:161:A:H2'	1:AA:162:A:C8	2.36	0.61
1:AA:1320:C:C2	19:AS:72:GLY:HA3	2.36	0.61
17:AQ:52:LYS:H	17:AQ:52:LYS:CD	2.12	0.61
24:AY:62:PHE:O	24:AY:66:GLU:N	2.34	0.61
33:B8:33:ASN:O	35:BA:2420:C:OP2	2.19	0.61
35:BA:287:C:H5'	35:BA:287:C:H6	1.65	0.61
50:BR:97:VAL:HA	50:BR:113:LEU:O	2.00	0.61
58:BZ:93:ASP:HA	58:BZ:130:PRO:CD	2.31	0.61
1:CA:1015:A:H1'	1:CA:1218:C:O2'	2.00	0.61
1:CA:1258:G:O2'	1:CA:1259:C:H5'	2.01	0.61
2:CB:71:VAL:CG2	2:CB:164:VAL:HG22	2.30	0.61
2:CB:223:ILE:HG22	2:CB:226:ARG:NH1	2.15	0.61
3:CC:109:PRO:HB3	3:CC:115:LEU:HD13	1.82	0.61
4:CD:31:CYS:C	4:CD:33:MET:N	2.58	0.61
4:CD:108:LEU:O	4:CD:110:PHE:HD1	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:93:ARG:C	9:CI:95:LYS:H	2.09	0.61
12:CL:53:ARG:HB3	12:CL:93:LEU:HD11	1.81	0.61
13:CM:4:ILE:HD13	13:CM:56:LEU:HD12	1.83	0.61
15:CO:39:LEU:O	15:CO:42:HIS:HB3	2.01	0.61
15:CO:62:GLN:O	15:CO:66:LEU:HD13	2.01	0.61
22:CV:30:G:C2'	22:CV:31:A:H5'	2.31	0.61
24:CY:142:ARG:O	24:CY:146:ARG:HG3	2.00	0.61
33:D8:10:ALA:HB2	33:D8:59:LYS:NZ	2.14	0.61
35:DA:999:U:H5"	35:DA:1154:G:O6	2.01	0.61
35:DA:1513:C:H2'	35:DA:1514:U:H6	1.65	0.61
35:DA:2126:A:H61	35:DA:2163:C:H4'	1.61	0.61
35:DA:2691:C:H5'	35:DA:2691:C:H6	1.64	0.61
47:DO:101:PRO:O	47:DO:102:VAL:HG13	2.00	0.61
48:DP:81:GLN:HG2	48:DP:106:LEU:HD22	1.83	0.61
50:DR:59:ASP:N	50:DR:59:ASP:OD2	2.34	0.61
54:DV:47:VAL:HG11	54:DV:50:PRO:O	2.01	0.61
1:AA:277:C:H5"	17:AQ:68:ARG:NH2	2.15	0.61
1:AA:558:G:C3'	1:AA:559:A:H5"	2.24	0.61
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.01	0.61
10:AJ:84:GLN:O	10:AJ:88:LEU:HB3	2.00	0.61
31:B6:11:LEU:HD21	31:B6:26:ASN:H	1.64	0.61
32:B7:24:THR:HG23	32:B7:27:GLY:H	1.64	0.61
35:BA:271(G):C:H2'	35:BA:271(H):G:H8	1.65	0.61
35:BA:405:U:H3'	35:BA:406:G:C5'	2.29	0.61
35:BA:2290:G:H5'	35:BA:2290:G:C8	2.33	0.61
35:BA:2653:U:C2'	42:BH:110:SER:HB2	2.30	0.61
37:BC:50:ASP:O	37:BC:50:ASP:CG	2.44	0.61
41:BG:173:LEU:C	41:BG:178:PHE:HD2	2.08	0.61
44:BJ:26:UNK:HA	44:BJ:84:UNK:HA	1.83	0.61
46:BN:15:LEU:HB2	46:BN:134:ARG:HB2	1.83	0.61
48:BP:112:LEU:CD2	48:BP:114:ILE:HD12	2.31	0.61
1:CA:308:C:H2'	1:CA:309:G:H8	1.66	0.61
1:CA:973:G:H3'	1:CA:974:A:H5"	1.82	0.61
1:CA:1115:C:H2'	1:CA:1116:C:H6	1.66	0.61
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.14	0.61
1:CA:1346:A:N1	1:CA:1374:A:H5"	2.16	0.61
4:CD:17:VAL:HG12	4:CD:18:LYS:N	2.15	0.61
6:CF:61:LEU:HD23	6:CF:63:TYR:OH	2.01	0.61
9:CI:90:PRO:HG2	9:CI:91:ASP:H	1.65	0.61
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.15	0.61
12:CL:34:ARG:O	12:CL:61:THR:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:3:ARG:HD2	29:D4:60:GLU:OE1	2.01	0.61
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.01	0.61
31:D6:20:ASN:O	31:D6:21:TYR:CG	2.53	0.61
35:DA:956:G:H4'	49:DQ:83:MET:HE1	1.82	0.61
35:DA:1405:U:H2'	35:DA:1406:U:H6	1.66	0.61
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.01	0.61
42:DH:38:SER:O	42:DH:40:GLU:N	2.34	0.61
52:DT:27:THR:HG22	52:DT:49:VAL:HB	1.82	0.61
53:DU:88:ILE:C	53:DU:90:VAL:H	2.08	0.61
1:AA:275:G:H2'	1:AA:276:G:H8	1.65	0.60
1:AA:838:G:C2'	1:AA:839:U:H5"	2.31	0.60
5:AE:41:VAL:O	5:AE:66:MET:HA	2.01	0.60
6:AF:62:TRP:CH2	6:AF:64:GLN:HB2	2.36	0.60
8:AH:63:LEU:HB2	8:AH:65:TYR:HE1	1.66	0.60
13:AM:68:GLY:HA2	13:AM:71:ARG:HB3	1.83	0.60
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.25	0.60
22:AW:30:G:H2'	22:AW:31:A:H8	1.64	0.60
24:AY:31:ARG:HH11	45:BK:34:ILE:HG13	1.66	0.60
27:B2:2:LYS:HA	27:B2:5:GLU:OE1	2.01	0.60
27:B2:67:LYS:C	27:B2:69:ARG:H	2.08	0.60
35:BA:1036:G:H2'	35:BA:1037:G:C8	2.36	0.60
35:BA:1082:U:C5'	45:BK:117:THR:HG22	2.31	0.60
35:BA:1286:A:O2'	35:BA:1288:U:OP2	2.18	0.60
37:BC:49:ILE:HG13	37:BC:50:ASP:N	2.10	0.60
38:BD:31:LYS:HE3	38:BD:33:LEU:HD21	1.82	0.60
39:BE:49:LEU:HD12	39:BE:49:LEU:N	2.14	0.60
41:BG:107:LEU:CD1	41:BG:177:GLY:HA3	2.28	0.60
48:BP:28:GLY:C	48:BP:29:LYS:HD2	2.25	0.60
50:BR:2:ARG:NH1	50:BR:5:LYS:NZ	2.46	0.60
51:BS:52:SER:OG	51:BS:55:ALA:HB3	2.01	0.60
51:BS:106:ARG:HD2	51:BS:108:GLY:N	2.16	0.60
1:CA:294:U:H2'	1:CA:295:C:H6	1.65	0.60
1:CA:820:U:H4'	1:CA:821:G:OP2	2.00	0.60
1:CA:1000:U:H2'	1:CA:1001:A:H8	1.66	0.60
2:CB:116:GLU:HA	2:CB:119:GLU:HB2	1.83	0.60
2:CB:184:VAL:HG12	2:CB:197:VAL:HG13	1.82	0.60
6:CF:62:TRP:CH2	6:CF:64:GLN:HB2	2.36	0.60
12:CL:60:LEU:H	12:CL:60:LEU:HD22	1.66	0.60
20:CT:24:LEU:C	20:CT:24:LEU:HD13	2.25	0.60
22:CW:56:C:O4'	35:DA:2169:A:H1'	2.00	0.60
24:CY:19:ILE:H	24:CY:20:PRO:HD2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:30:GLU:HB3	45:DK:25:PRO:CG	2.31	0.60
31:D6:41:PRO:HG2	31:D6:43:CYS:H	1.66	0.60
34:D9:20:HIS:C	34:D9:22:ARG:H	2.09	0.60
38:DD:242:ARG:O	38:DD:243:GLY:C	2.44	0.60
39:DE:110:GLY:O	50:DR:2:ARG:HD3	2.00	0.60
40:DF:20:LEU:HD22	40:DF:203:GLN:OE1	2.01	0.60
42:DH:159:GLU:HG3	42:DH:160:LYS:N	2.17	0.60
48:DP:114:ILE:HD13	48:DP:127:ALA:HB2	1.83	0.60
51:DS:89:ARG:HD2	51:DS:92:TYR:N	2.14	0.60
52:DT:33:LYS:NZ	52:DT:74:ARG:HH21	1.99	0.60
55:DW:86:LEU:C	55:DW:86:LEU:HD12	2.26	0.60
57:DY:60:PHE:HA	57:DY:62:GLU:CD	2.26	0.60
2:AB:44:LEU:HA	2:AB:47:THR:OG1	2.01	0.60
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.82	0.60
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	2.01	0.60
12:AL:27:LEU:HG	12:AL:28:LYS:HG3	1.83	0.60
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.01	0.60
35:BA:481:G:OP2	57:BY:47:LYS:HG3	2.01	0.60
35:BA:1173:G:C3'	35:BA:1174:A:H5'	2.26	0.60
35:BA:1495:A:N3	35:BA:1496:A:C2	2.69	0.60
42:BH:55:PRO:HG2	42:BH:61:HIS:ND1	2.16	0.60
51:BS:96:GLY:O	51:BS:98:VAL:N	2.30	0.60
55:BW:4:LYS:HD2	55:BW:6:ILE:HD11	1.83	0.60
56:BX:35:THR:HG22	56:BX:37:THR:H	1.67	0.60
58:BZ:68:PRO:HB2	58:BZ:91:LEU:HB2	1.83	0.60
1:CA:80:G:H5"	1:CA:83:U:OP1	2.01	0.60
1:CA:328:C:H2'	1:CA:328:C:O2	2.00	0.60
1:CA:376:G:P	16:CP:67:THR:HG21	2.40	0.60
1:CA:444:C:H2'	1:CA:445:G:H8	1.65	0.60
1:CA:664:G:H22	1:CA:741:G:H1	1.48	0.60
1:CA:908:A:H2'	1:CA:909:A:H8	1.65	0.60
1:CA:913:A:H4'	1:CA:914:A:O5'	2.01	0.60
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.00	0.60
2:CB:158:LEU:H	2:CB:158:LEU:HD12	1.66	0.60
9:CI:122:ALA:HB1	9:CI:123:PRO:HD2	1.83	0.60
12:CL:83:VAL:HG22	12:CL:84:LEU:N	2.14	0.60
13:CM:65:LYS:C	13:CM:66:LEU:HD12	2.26	0.60
24:CY:177:TYR:CE1	24:CY:212:PRO:HD3	2.36	0.60
24:CY:188:ARG:HD3	24:CY:310:GLN:HG2	1.83	0.60
35:DA:61:G:H1	35:DA:94:C:H42	1.48	0.60
35:DA:1790:C:H5"	35:DA:1791:A:OP1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.66	0.60
38:DD:131:LEU:HD12	38:DD:131:LEU:O	2.01	0.60
41:DG:55:LYS:C	41:DG:57:ALA:H	2.09	0.60
59:DI:2:LYS:HD2	59:DI:20:ASP:HB3	1.83	0.60
45:DK:51:ALA:HB1	45:DK:76:TYR:CE2	2.36	0.60
51:DS:82:ILE:O	51:DS:83:LYS:HG2	2.01	0.60
52:DT:16:ARG:HH11	52:DT:16:ARG:HG3	1.65	0.60
1:AA:624:C:H4'	16:AP:10:GLY:C	2.26	0.60
1:AA:930:C:O2'	1:AA:931:C:H5'	2.01	0.60
1:AA:1000:U:H2'	1:AA:1001:A:H8	1.66	0.60
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.65	0.60
1:AA:1385:G:O2'	1:AA:1386:G:H5'	2.01	0.60
2:AB:101:MET:HA	2:AB:108:ILE:HG13	1.84	0.60
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	1.83	0.60
10:AJ:9:ARG:CZ	10:AJ:95:GLU:HG2	2.31	0.60
16:AP:43:LYS:HG3	16:AP:48:TRP:CE3	2.35	0.60
27:B2:39:ALA:HA	27:B2:45:SER:CB	2.25	0.60
35:BA:284:U:H2'	35:BA:285:C:H6	1.67	0.60
35:BA:832:G:H4'	48:BP:45:LEU:HD21	1.83	0.60
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.66	0.60
35:BA:1507:A:H2'	35:BA:1508:A:O4'	2.01	0.60
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.65	0.60
41:BG:91:ARG:HD2	41:BG:92:VAL:N	2.16	0.60
42:BH:89:ILE:HD12	42:BH:90:LYS:N	2.16	0.60
43:BI:66:GLU:OE1	43:BI:69:LYS:HD2	2.00	0.60
43:BI:92:VAL:HG13	43:BI:120:ILE:HB	1.83	0.60
1:CA:66:G:H4'	1:CA:173:U:C5	2.36	0.60
1:CA:522:C:H41	12:CL:53:ARG:NH2	1.99	0.60
1:CA:1037:C:H2'	1:CA:1038:C:C2	2.35	0.60
1:CA:1188:A:C2'	1:CA:1189:C:H5'	2.30	0.60
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.00	0.60
5:CE:8:GLU:HA	5:CE:33:VAL:O	2.02	0.60
5:CE:72:GLN:O	5:CE:73:ASN:CB	2.48	0.60
9:CI:53:VAL:HG23	9:CI:55:ALA:H	1.65	0.60
11:CK:46:GLY:HA2	11:CK:50:TYR:O	2.00	0.60
20:CT:100:ILE:H	20:CT:100:ILE:HD12	1.65	0.60
33:D8:12:LYS:HE2	35:DA:249:C:O2	2.00	0.60
35:DA:151:C:O2'	35:DA:152:G:H5'	2.01	0.60
35:DA:405:U:H3'	35:DA:406:G:C5'	2.30	0.60
35:DA:1507:A:H2'	35:DA:1508:A:O4'	2.00	0.60
40:DF:179:GLU:CD	40:DF:179:GLU:H	2.09	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:15:VAL:O	41:DG:19:LEU:HG	2.01	0.60
48:DP:24:GLY:HA3	48:DP:33:ARG:NH1	2.16	0.60
51:DS:24:LEU:HB3	51:DS:85:VAL:HG12	1.83	0.60
52:DT:117:ASP:OD2	52:DT:120:ARG:HG3	2.01	0.60
58:DZ:61:LEU:HD22	58:DZ:61:LEU:H	1.66	0.60
1:AA:355:C:N4	1:AA:356:A:H62	1.99	0.60
1:AA:973:G:H3'	1:AA:974:A:H5"	1.82	0.60
2:AB:158:LEU:H	2:AB:158:LEU:HD12	1.66	0.60
2:AB:223:ILE:HG22	2:AB:226:ARG:NH1	2.16	0.60
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.82	0.60
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.66	0.60
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.16	0.60
10:AJ:79:ARG:HB3	9:CI:54:ASP:OD2	2.00	0.60
15:AO:61:GLY:O	15:AO:65:ARG:HD3	2.01	0.60
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.84	0.60
16:AP:39:TYR:CG	16:AP:40:ASP:N	2.69	0.60
24:AY:251:VAL:HG11	24:AY:276:LEU:HD23	1.82	0.60
26:B1:19:GLN:HB3	26:B1:35:THR:HG22	1.83	0.60
35:BA:896:A:H5"	58:BZ:146:ILE:HG13	1.84	0.60
35:BA:2298:A:H2'	35:BA:2299:G:O4'	2.01	0.60
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.66	0.60
46:BN:42:TRP:CZ3	46:BN:48:MET:HE1	2.36	0.60
48:BP:147:LEU:HB2	48:BP:148:LEU:HD13	1.84	0.60
56:BX:30:VAL:HG21	56:BX:79:ALA:HB3	1.83	0.60
1:CA:161:A:H2'	1:CA:162:A:C8	2.36	0.60
1:CA:356:A:H2	1:CA:357:G:H1'	1.67	0.60
1:CA:918:A:H2'	1:CA:919:A:H8	1.66	0.60
8:CH:29:SER:HB3	8:CH:32:LYS:CB	2.32	0.60
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.01	0.60
22:CV:50:U:C2'	22:CV:51:U:H5'	2.31	0.60
35:DA:832:G:H4'	48:DP:45:LEU:HD21	1.83	0.60
35:DA:910:A:N7	49:DQ:13:GLN:HG3	2.16	0.60
35:DA:1005:C:H2'	35:DA:1006:C:C6	2.36	0.60
35:DA:1093:G:O2'	35:DA:1094:U:H5'	2.00	0.60
38:DD:92:ILE:HD13	38:DD:104:TYR:HD2	1.66	0.60
39:DE:23:VAL:HA	39:DE:184:VAL:O	2.01	0.60
59:DI:122:GLU:CG	59:DI:123:LEU:H	2.15	0.60
55:DW:64:MET:O	55:DW:65:LEU:HB3	2.01	0.60
58:DZ:166:SER:OG	58:DZ:167:PRO:HA	2.01	0.60
8:AH:30:ARG:HB3	8:AH:30:ARG:CZ	2.32	0.60
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:16:TYR:O	24:AY:20:PRO:HG3	2.02	0.60
26:B1:29:GLY:O	26:B1:30:VAL:HG22	2.00	0.60
35:BA:1093:G:O2'	35:BA:1094:U:H5'	2.00	0.60
35:BA:1257:C:H4'	40:BF:83:PHE:CD2	2.37	0.60
35:BA:1448:G:H2'	35:BA:1449:A:C8	2.37	0.60
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.02	0.60
35:BA:1827:C:H2'	35:BA:1828:G:H5'	1.84	0.60
35:BA:1973:G:H2'	35:BA:1974:C:C6	2.37	0.60
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.01	0.60
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.67	0.60
41:BG:97:ASP:HA	41:BG:100:TRP:CD1	2.36	0.60
52:BT:16:ARG:HG3	52:BT:16:ARG:HH11	1.67	0.60
55:BW:75:TYR:HE1	55:BW:104:THR:HB	1.65	0.60
56:BX:63:LYS:HA	56:BX:72:LYS:HA	1.84	0.60
1:CA:1172:C:H2'	1:CA:1173:G:H8	1.67	0.60
1:CA:1456:G:H2'	1:CA:1457:G:O4'	2.02	0.60
3:CC:106:VAL:HG12	3:CC:108:ASN:H	1.66	0.60
12:CL:25:PRO:C	12:CL:27:LEU:H	2.09	0.60
12:CL:71:PRO:O	12:CL:102:ARG:HD2	2.01	0.60
13:CM:86:CYS:HA	19:CS:73:GLU:O	2.01	0.60
20:CT:13:LEU:HD12	20:CT:14:LYS:N	2.16	0.60
22:CW:16:U:H3	22:CW:19:G:H5"	1.66	0.60
24:CY:12:GLY:O	24:CY:14:ARG:N	2.35	0.60
24:CY:327:GLY:O	24:CY:328:LEU:C	2.43	0.60
31:D6:30:THR:O	31:D6:31:PRO:C	2.44	0.60
35:DA:1644:C:H2'	35:DA:1644:C:O2	2.01	0.60
35:DA:1865:G:H5'	35:DA:1866:C:OP2	2.02	0.60
35:DA:2295:C:O2'	35:DA:2296:U:H5'	2.00	0.60
35:DA:2377:A:H4'	51:DS:107:GLU:O	2.01	0.60
37:DC:50:ASP:O	37:DC:50:ASP:CG	2.44	0.60
41:DG:54:GLU:O	41:DG:57:ALA:HB3	2.01	0.60
57:DY:95:LYS:HG2	57:DY:100:ALA:HA	1.82	0.60
1:AA:1041:A:H2'	1:AA:1042:G:H8	1.67	0.60
3:AC:109:PRO:HB3	3:AC:115:LEU:HD13	1.83	0.60
4:AD:138:TYR:HD2	4:AD:139:ARG:N	2.00	0.60
7:AG:18:TYR:HD2	7:AG:59:LEU:HD22	1.65	0.60
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.36	0.60
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.26	0.60
15:AO:3:ILE:HD13	15:AO:3:ILE:H	1.66	0.60
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.02	0.60
24:AY:41:ASP:N	24:AY:42:PRO:CD	2.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:115:ASN:CG	24:AY:172:LYS:HA	2.26	0.60
24:AY:175:ASN:O	24:AY:179:LEU:HG	2.02	0.60
26:B1:62:VAL:HG13	26:B1:63:ALA:O	2.02	0.60
26:B1:86:SER:O	26:B1:90:ILE:HG12	2.00	0.60
30:B5:55:ARG:C	30:B5:56:LYS:HD2	2.26	0.60
35:BA:1529:G:H21	35:BA:1530:C:H3'	1.65	0.60
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.37	0.60
35:BA:2617:C:O2'	35:BA:2618:G:H5'	2.01	0.60
35:BA:2864:G:OP1	52:BT:119:LYS:HE2	2.01	0.60
38:BD:27:THR:O	38:BD:27:THR:HG23	1.99	0.60
39:BE:120:TRP:CE2	39:BE:155:LYS:HD3	2.37	0.60
48:BP:69:GLY:O	48:BP:70:GLN:HB2	1.99	0.60
49:BQ:60:ARG:HB3	49:BQ:60:ARG:NH1	2.16	0.60
52:BT:106:SER:HB2	52:BT:110:ILE:CD1	2.28	0.60
54:BV:79:VAL:HG12	54:BV:79:VAL:O	2.02	0.60
55:BW:12:ILE:HB	55:BW:42:ARG:HH12	1.67	0.60
57:BY:30:VAL:HG12	57:BY:31:LEU:N	2.16	0.60
58:BZ:39:VAL:HG11	58:BZ:88:PHE:HZ	1.67	0.60
4:CD:145:GLU:C	4:CD:146:ILE:HD12	2.26	0.60
5:CE:136:MET:O	5:CE:138:ALA:N	2.35	0.60
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	1.83	0.60
10:CJ:44:VAL:HG12	10:CJ:45:ARG:N	2.15	0.60
31:D6:28:ARG:CA	31:D6:32:ASN:HD22	2.08	0.60
35:DA:1468:C:H2'	35:DA:1469:A:C8	2.36	0.60
42:DH:55:PRO:HG2	42:DH:61:HIS:ND1	2.16	0.60
42:DH:89:ILE:HD12	42:DH:90:LYS:N	2.16	0.60
42:DH:91:GLY:CA	42:DH:160:LYS:HB3	2.31	0.60
57:DY:4:LYS:HD2	57:DY:4:LYS:C	2.27	0.60
8:AH:77:GLU:HG2	8:AH:78:GLN:N	2.16	0.60
10:AJ:89:ASP:C	10:AJ:90:LEU:HD12	2.25	0.60
16:AP:36:ILE:HG13	16:AP:37:GLY:H	1.66	0.60
20:AT:59:ALA:O	20:AT:63:ILE:HG13	2.02	0.60
26:B1:45:ASN:HD21	35:BA:2090:G:H21	1.47	0.60
33:B8:15:LYS:HG3	48:BP:65:ARG:HH21	1.67	0.60
35:BA:589:C:H2'	35:BA:590:A:H8	1.67	0.60
35:BA:1047:G:O2'	35:BA:1110:G:C2	2.54	0.60
35:BA:1049:C:H2'	35:BA:1050:A:C8	2.37	0.60
35:BA:1459:G:H2'	35:BA:1459:G:N3	2.17	0.60
35:BA:2729:G:H1'	39:BE:187:ALA:HB3	1.83	0.60
36:BB:17:C:O2'	36:BB:18:G:H5'	2.01	0.60
41:BG:86:MET:N	41:BG:87:PRO:HD2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:115:VAL:CG1	42:BH:148:ILE:HD11	2.32	0.60
43:BI:9:LEU:HD12	43:BI:12:LEU:CD1	2.30	0.60
44:BJ:130:UNK:C	44:BJ:132:UNK:N	2.64	0.60
52:BT:12:SER:O	52:BT:15:VAL:HG13	2.02	0.60
57:BY:28:LYS:N	57:BY:28:LYS:HE3	2.17	0.60
1:CA:359:U:H2'	1:CA:360:A:C8	2.37	0.60
1:CA:1347:G:C8	9:CI:107:ARG:HB3	2.37	0.60
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.83	0.60
2:CB:137:ARG:HD3	2:CB:137:ARG:C	2.26	0.60
7:CG:145:ALA:C	7:CG:147:ALA:H	2.09	0.60
7:CG:154:TYR:O	7:CG:156:TRP:N	2.31	0.60
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.00	0.60
24:CY:306:GLU:HG3	24:CY:307:TRP:N	2.17	0.60
27:D2:42:GLY:O	27:D2:43:GLN:C	2.44	0.60
35:DA:1448:G:H2'	35:DA:1449:A:C8	2.36	0.60
35:DA:1511:C:H2'	35:DA:1512:U:O4'	2.02	0.60
35:DA:2734:A:H5'	35:DA:2735:G:OP2	2.01	0.60
38:DD:206:LEU:HA	38:DD:211:ARG:HE	1.65	0.60
45:DK:32:ALA:HA	45:DK:63:ARG:HB2	1.82	0.60
49:DQ:141:GLN:OXT	58:DZ:53:ILE:O	2.19	0.60
51:DS:54:LEU:C	51:DS:56:LEU:H	2.10	0.60
53:DU:8:VAL:HG11	53:DU:12:ARG:CZ	2.31	0.60
53:DU:57:PHE:C	53:DU:59:ARG:N	2.55	0.60
53:DU:102:GLU:HG3	54:DV:2:PHE:CE1	2.37	0.60
57:DY:29:GLU:N	57:DY:29:GLU:OE1	2.32	0.60
1:AA:1004:A:O2'	1:AA:1038:C:H1'	2.01	0.60
4:AD:17:VAL:HG12	4:AD:18:LYS:N	2.17	0.60
4:AD:131:ARG:H	4:AD:131:ARG:CD	2.15	0.60
10:AJ:80:LYS:HZ3	9:CI:95:LYS:HB3	1.64	0.60
11:AK:57:THR:HG23	11:AK:58:PRO:HD2	1.83	0.60
13:AM:4:ILE:HD13	13:AM:56:LEU:HD12	1.83	0.60
19:AS:45:VAL:HA	19:AS:62:ILE:HG23	1.82	0.60
29:B4:50:THR:HG22	29:B4:51:TYR:N	2.17	0.60
34:B9:29:ASN:ND2	34:B9:29:ASN:O	2.34	0.60
35:BA:470:A:H8	35:BA:470:A:H5'	1.67	0.60
35:BA:2679:A:H4'	39:BE:165:VAL:HG11	1.84	0.60
35:BA:2756:U:H4'	35:BA:2757:A:OP1	2.01	0.60
35:BA:2795:G:N3	35:BA:2795:G:H2'	2.16	0.60
38:BD:24:ILE:HG13	38:BD:83:GLU:HA	1.82	0.60
52:BT:100:TYR:HD2	52:BT:103:ARG:NH2	1.92	0.60
54:BV:47:VAL:HG11	54:BV:50:PRO:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:879:C:O2'	1:CA:880:C:H5'	2.02	0.60
1:CA:965:A:C2	1:CA:969:A:C2	2.90	0.60
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	2.01	0.60
4:CD:138:TYR:CD2	4:CD:138:TYR:C	2.80	0.60
17:CQ:45:HIS:O	17:CQ:73:VAL:HG23	2.00	0.60
17:CQ:81:ARG:C	17:CQ:83:ASP:H	2.07	0.60
24:CY:30:GLU:HB3	45:DK:25:PRO:HG2	1.84	0.60
24:CY:138:ARG:HG3	24:CY:139:MET:H	1.65	0.60
24:CY:189:LEU:HD12	24:CY:204:SER:HB2	1.83	0.60
26:D1:8:SER:HB3	26:D1:66:HIS:HD1	1.65	0.60
26:D1:29:GLY:O	26:D1:30:VAL:HG22	2.02	0.60
35:DA:93:G:H2'	35:DA:94:C:C6	2.36	0.60
35:DA:662:G:P	48:DP:18:ARG:HD2	2.42	0.60
35:DA:780:G:N2	35:DA:783:A:H62	1.96	0.60
35:DA:1317:A:H2'	35:DA:1318:C:C6	2.36	0.60
35:DA:2729:G:H1'	39:DE:187:ALA:HB3	1.84	0.60
37:DC:64:LEU:HG	37:DC:163:PHE:CB	2.32	0.60
37:DC:96:GLY:C	37:DC:98:GLU:H	2.10	0.60
38:DD:27:THR:O	38:DD:27:THR:HG23	2.00	0.60
39:DE:69:LYS:HZ1	39:DE:89:ASP:HA	1.65	0.60
41:DG:6:ALA:O	41:DG:9:ARG:N	2.34	0.60
41:DG:47:LYS:HG2	41:DG:82:LEU:CD1	2.31	0.60
42:DH:85:LYS:HZ2	42:DH:133:VAL:HB	1.67	0.60
45:DK:18:THR:H	45:DK:19:PRO:HD2	1.66	0.60
52:DT:106:SER:HB2	52:DT:110:ILE:CD1	2.28	0.60
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.27	0.60
55:DW:60:ASN:C	55:DW:61:ASN:HD22	2.10	0.60
58:DZ:80:ARG:HH11	58:DZ:80:ARG:HG3	1.66	0.60
1:AA:472:A:H4'	16:AP:82:GLN:HE22	1.67	0.60
2:AB:52:GLU:O	2:AB:56:ARG:HG3	2.02	0.60
9:AI:118:LYS:NZ	9:AI:118:LYS:HB3	2.17	0.60
10:AJ:96:ILE:HD13	10:AJ:96:ILE:H	1.66	0.60
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.01	0.60
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.32	0.60
20:AT:13:LEU:HD12	20:AT:14:LYS:N	2.17	0.60
21:AU:12:LYS:HB3	21:AU:17:THR:O	2.02	0.60
22:AV:20:U:H3'	22:AV:21:A:H5'	1.84	0.60
22:AV:42:C:H5'	22:AV:42:C:H6	1.67	0.60
22:AW:39:U:H2'	22:AW:40:C:C5'	2.30	0.60
26:B1:86:SER:HA	26:B1:89:GLU:CD	2.27	0.60
35:BA:1077:A:OP1	58:BZ:112:ARG:HA	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:77:ILE:O	37:BC:77:ILE:HG23	2.01	0.60
38:BD:25:THR:HG21	38:BD:81:ALA:CB	2.32	0.60
45:BK:36:GLU:HG2	45:BK:65:PHE:HZ	1.67	0.60
53:BU:49:HIS:HA	53:BU:52:ARG:HB2	1.83	0.60
1:CA:9:G:H2'	1:CA:10:A:H8	1.66	0.60
2:CB:19:HIS:HD1	2:CB:189:ASP:CG	2.10	0.60
9:CI:66:ARG:HB2	9:CI:66:ARG:HH11	1.66	0.60
9:CI:79:LEU:HD11	9:CI:83:ARG:CZ	2.32	0.60
17:CQ:76:LEU:HG	17:CQ:77:VAL:H	1.67	0.60
26:D1:46:LEU:CD1	26:D1:61:ARG:HD3	2.31	0.60
34:D9:35:ARG:HG2	34:D9:36:GLN:N	2.17	0.60
35:DA:481:G:OP2	57:DY:47:LYS:HG3	2.02	0.60
41:DG:51:ARG:HH21	41:DG:52:ILE:H	1.50	0.60
42:DH:157:TYR:HE1	42:DH:171:LEU:N	1.98	0.60
59:DI:77:LEU:CD1	59:DI:142:VAL:HA	2.31	0.60
1:AA:40:C:H2'	1:AA:41:G:H8	1.66	0.60
1:AA:390:C:H2'	1:AA:391:G:H8	1.66	0.60
1:AA:674:G:H2'	1:AA:675:A:C8	2.37	0.60
1:AA:826:C:H4'	8:AH:12:ARG:HG3	1.82	0.60
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.01	0.60
2:AB:135:GLN:O	2:AB:139:LYS:HB2	2.02	0.60
7:AG:113:GLU:HG2	7:AG:119:ARG:HG2	1.84	0.60
9:AI:99:LEU:HB3	9:AI:101:PHE:CD1	2.37	0.60
12:AL:38:THR:HG22	12:AL:39:VAL:HG23	1.84	0.60
17:AQ:57:VAL:HG21	17:AQ:73:VAL:HG13	1.84	0.60
20:AT:24:LEU:HD13	20:AT:24:LEU:C	2.26	0.60
22:AV:66:U:H2'	22:AV:67:C:C6	2.37	0.60
24:AY:34:GLU:O	24:AY:34:GLU:HG3	2.02	0.60
24:AY:171:VAL:CG1	24:AY:176:ALA:HB1	2.31	0.60
31:B6:16:CYS:SG	31:B6:48:VAL:HG22	2.42	0.60
35:BA:1464:C:H2'	35:BA:1465:G:H8	1.67	0.60
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.37	0.60
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.66	0.60
42:BH:99:VAL:O	42:BH:99:VAL:HG13	2.02	0.60
45:BK:112:MET:N	45:BK:113:PRO:HD2	2.17	0.60
52:BT:27:THR:HG22	52:BT:49:VAL:HB	1.83	0.60
52:BT:117:ASP:OD2	52:BT:120:ARG:HG3	2.02	0.60
1:CA:163:C:H2'	1:CA:164:U:C6	2.36	0.60
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.82	0.60
13:CM:8:GLU:C	13:CM:9:ILE:HD12	2.27	0.60
13:CM:68:GLY:HA2	13:CM:71:ARG:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:225:GLU:CD	24:CY:225:GLU:N	2.59	0.60
28:D3:4:LEU:HD11	28:D3:39:ASP:OD1	2.02	0.60
35:DA:469:G:C2'	35:DA:470:A:H5"	2.31	0.60
35:DA:626:U:H3	48:DP:105:LEU:CB	2.15	0.60
35:DA:1562:A:H2'	35:DA:1563:G:H8	1.67	0.60
35:DA:2801:A:H2'	35:DA:2801:A:N3	2.17	0.60
39:DE:77:ILE:HG22	39:DE:78:LEU:HD23	1.84	0.60
39:DE:79:ARG:HH12	39:DE:195:LEU:HD21	1.67	0.60
41:DG:134:GLY:O	41:DG:135:LEU:HD12	2.02	0.60
42:DH:66:GLY:HA2	42:DH:69:ARG:HB3	1.83	0.60
45:DK:112:MET:N	45:DK:113:PRO:HD2	2.17	0.60
50:DR:41:ALA:C	50:DR:43:GLU:H	2.10	0.60
54:DV:5:VAL:HG23	54:DV:37:VAL:HG23	1.83	0.60
57:DY:7:VAL:HB	57:DY:8:LYS:HZ2	1.67	0.60
1:AA:218:C:H5'	1:AA:470:C:N4	2.17	0.59
1:AA:522:C:H41	12:AL:53:ARG:NH2	2.00	0.59
1:AA:637:G:H2'	1:AA:638:G:H8	1.66	0.59
1:AA:1285:A:H1'	1:AA:1286:A:OP2	2.02	0.59
3:AC:167:TRP:CG	3:AC:168:ALA:H	2.20	0.59
5:AE:80:ILE:HG22	8:AH:104:ARG:HH21	1.67	0.59
9:AI:93:ARG:C	9:AI:95:LYS:H	2.10	0.59
10:AJ:3:LYS:HD3	10:AJ:77:PRO:HG3	1.84	0.59
17:AQ:91:ARG:HG2	17:AQ:91:ARG:NH1	2.17	0.59
19:AS:51:VAL:HG12	19:AS:52:TYR:O	2.01	0.59
22:AW:32:U:O2'	22:AW:33:U:H5'	2.02	0.59
24:AY:205:PHE:CZ	24:AY:307:TRP:HA	2.37	0.59
28:B3:2:PRO:O	28:B3:4:LEU:N	2.34	0.59
31:B6:11:LEU:N	31:B6:11:LEU:HD22	2.17	0.59
35:BA:144:C:O2'	35:BA:145:G:H5'	2.00	0.59
35:BA:315:G:H2'	35:BA:316:C:C6	2.36	0.59
35:BA:545:C:H2'	35:BA:547:A:O4'	2.01	0.59
35:BA:1513:C:H2'	35:BA:1514:U:C6	2.36	0.59
35:BA:2672:G:C3'	35:BA:2673:G:H5"	2.32	0.59
35:BA:2734:A:H5'	35:BA:2735:G:OP2	2.02	0.59
40:BF:179:GLU:CD	40:BF:179:GLU:H	2.10	0.59
42:BH:170:ARG:HD2	42:BH:170:ARG:H	1.66	0.59
46:BN:120:LEU:HD13	46:BN:120:LEU:O	2.02	0.59
52:BT:40:THR:O	52:BT:41:ARG:CB	2.50	0.59
54:BV:2:PHE:O	54:BV:3:ALA:HB3	2.01	0.59
56:BX:66:LEU:HD23	56:BX:67:GLY:N	2.17	0.59
58:BZ:68:PRO:O	58:BZ:69:THR:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:82:ARG:HG3	58:BZ:83:PRO:HD2	1.83	0.59
1:CA:558:G:C3'	1:CA:559:A:H5"	2.26	0.59
1:CA:826:C:H4'	8:CH:12:ARG:HG3	1.82	0.59
1:CA:1321:C:C5'	1:CA:1322:C:H5"	2.31	0.59
8:CH:63:LEU:HB2	8:CH:65:TYR:HE1	1.66	0.59
8:CH:63:LEU:HD22	8:CH:63:LEU:H	1.65	0.59
24:CY:226:GLU:O	24:CY:254:LEU:N	2.35	0.59
25:D0:32:ARG:H	25:D0:35:ASN:HD22	1.46	0.59
35:DA:535:C:O2'	35:DA:536:A:H5'	2.02	0.59
35:DA:870:A:OP1	49:DQ:6:ARG:HG3	2.02	0.59
35:DA:1145:C:H2'	35:DA:1146:C:H6	1.67	0.59
35:DA:1490:A:H5'	35:DA:1491:G:OP2	2.02	0.59
35:DA:1493:C:H2'	35:DA:1493:C:O2	2.01	0.59
35:DA:2334:G:H21	51:DS:18:ILE:HD11	1.66	0.59
40:DF:22:ALA:C	40:DF:26:ALA:HB2	2.26	0.59
46:DN:96:GLU:OE2	46:DN:96:GLU:N	2.27	0.59
48:DP:148:LEU:HD13	48:DP:148:LEU:N	2.17	0.59
52:DT:27:THR:O	52:DT:28:VAL:CB	2.50	0.59
1:AA:9:G:H2'	1:AA:10:A:H8	1.66	0.59
1:AA:341:C:H2'	1:AA:342:C:H6	1.68	0.59
1:AA:664:G:H22	1:AA:741:G:H1	1.49	0.59
1:AA:820:U:H4'	1:AA:821:G:OP2	2.02	0.59
1:AA:1331:G:OP2	13:AM:23:TYR:HD2	1.85	0.59
2:AB:19:HIS:ND1	2:AB:189:ASP:OD2	2.35	0.59
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.13	0.59
5:AE:8:GLU:HA	5:AE:33:VAL:O	2.02	0.59
8:AH:104:ARG:O	8:AH:105:ARG:HB2	2.02	0.59
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.20	0.59
24:AY:250:ARG:HD3	24:AY:261:THR:HG22	1.83	0.59
26:B1:29:GLY:O	26:B1:31:GLY:N	2.25	0.59
33:B8:23:VAL:CG1	33:B8:46:ARG:HB3	2.32	0.59
35:BA:1079:C:O2	45:BK:129:GLY:HA3	2.02	0.59
35:BA:1796:U:H2'	35:BA:1797:C:C6	2.37	0.59
38:BD:33:LEU:O	38:BD:34:VAL:C	2.43	0.59
45:BK:18:THR:H	45:BK:19:PRO:HD2	1.67	0.59
46:BN:57:ALA:O	46:BN:58:ASP:C	2.44	0.59
48:BP:148:LEU:HD13	48:BP:148:LEU:N	2.17	0.59
50:BR:72:ASP:HB3	50:BR:75:LEU:HB2	1.84	0.59
3:CC:63:ASN:HA	3:CC:98:ASN:HB3	1.83	0.59
9:CI:70:LYS:C	9:CI:72:GLY:H	2.09	0.59
10:CJ:62:HIS:CD2	10:CJ:62:HIS:H	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:52:LYS:H	17:CQ:52:LYS:CD	2.13	0.59
34:D9:17:ILE:HD11	35:DA:2754:U:H1'	1.84	0.59
44:DJ:26:UNK:HA	44:DJ:84:UNK:HA	1.83	0.59
45:DK:93:ARG:HD2	45:DK:93:ARG:C	2.28	0.59
57:DY:81:LYS:NZ	57:DY:97:ARG:HG3	2.17	0.59
1:AA:718:G:H21	18:AR:49:LYS:NZ	2.00	0.59
1:AA:828:A:H2'	1:AA:829:G:O4'	2.02	0.59
1:AA:1133:G:H2'	1:AA:1134:G:C8	2.37	0.59
1:AA:1527:C:O2'	1:AA:1528:U:H5'	2.01	0.59
2:AB:137:ARG:C	2:AB:137:ARG:HD3	2.26	0.59
3:AC:64:VAL:O	3:AC:100:ALA:HB3	2.02	0.59
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.84	0.59
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.17	0.59
9:AI:14:VAL:O	9:AI:65:VAL:HG23	2.03	0.59
13:AM:15:VAL:O	13:AM:19:LEU:HD23	2.01	0.59
31:B6:9:LEU:HD23	31:B6:9:LEU:C	2.27	0.59
31:B6:37:ARG:O	31:B6:48:VAL:O	2.21	0.59
34:B9:20:HIS:C	34:B9:22:ARG:H	2.10	0.59
35:BA:322:A:OP2	40:BF:169:ASN:HB2	2.03	0.59
35:BA:1169:G:H1	35:BA:1180:C:N4	1.97	0.59
35:BA:1625:C:H2'	35:BA:1626:G:O4'	2.01	0.59
35:BA:2334:G:H21	51:BS:18:ILE:CD1	2.16	0.59
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.17	0.59
38:BD:21:PHE:O	38:BD:24:ILE:HG22	2.02	0.59
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.84	0.59
46:BN:35:ARG:O	46:BN:42:TRP:CZ3	2.55	0.59
50:BR:41:ALA:C	50:BR:43:GLU:H	2.09	0.59
51:BS:36:TYR:N	51:BS:36:TYR:HD1	1.98	0.59
54:BV:6:LYS:HA	54:BV:11:GLN:HA	1.84	0.59
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.18	0.59
54:BV:46:VAL:HG13	54:BV:47:VAL:N	2.18	0.59
1:CA:688:G:H2'	1:CA:689:C:H6	1.66	0.59
1:CA:848:C:H2'	1:CA:849:C:C6	2.38	0.59
1:CA:1126:U:O2'	1:CA:1127:G:H5'	2.02	0.59
2:CB:224:GLN:C	2:CB:226:ARG:H	2.11	0.59
4:CD:199:ASN:OD1	4:CD:201:GLN:HB2	2.01	0.59
10:CJ:50:ILE:H	10:CJ:50:ILE:CD1	1.96	0.59
12:CL:83:VAL:HG21	12:CL:100:ILE:HG23	1.84	0.59
22:CW:53:G:N3	22:CW:54:U:H5	2.00	0.59
25:D0:43:THR:O	25:D0:43:THR:HG23	2.02	0.59
27:D2:10:LEU:HD21	27:D2:59:ARG:HD2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1131:G:OP2	35:DA:2515:C:H4'	2.01	0.59
35:DA:1169:G:H1	35:DA:1180:C:N4	1.94	0.59
36:DB:65:C:H2'	36:DB:109:C:N4	2.16	0.59
37:DC:77:ILE:HB	37:DC:121:GLY:O	2.01	0.59
38:DD:147:LEU:HD11	38:DD:183:ARG:NH1	2.18	0.59
41:DG:139:LEU:HD23	41:DG:139:LEU:H	1.67	0.59
42:DH:97:ARG:HA	42:DH:125:VAL:HG11	1.84	0.59
46:DN:133:GLN:O	46:DN:134:ARG:HB3	2.02	0.59
50:DR:10:LEU:HB3	50:DR:17:ARG:NE	2.18	0.59
52:DT:40:THR:O	52:DT:41:ARG:CB	2.50	0.59
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.17	0.59
55:DW:92:ARG:HH11	55:DW:92:ARG:HG2	1.66	0.59
1:AA:737:A:H2'	1:AA:738:C:C6	2.37	0.59
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.28	0.59
1:AA:1150:U:H4'	10:AJ:41:PRO:HG3	1.85	0.59
1:AA:1396:A:C4'	1:AA:1398:A:H1'	2.31	0.59
7:AG:154:TYR:O	7:AG:156:TRP:N	2.32	0.59
19:AS:9:VAL:O	19:AS:11:VAL:N	2.35	0.59
26:B1:86:SER:CB	26:B1:90:ILE:HG12	2.18	0.59
27:B2:57:ILE:HG22	27:B2:61:LEU:CD2	2.31	0.59
35:BA:324:A:O2'	35:BA:325:G:H5'	2.02	0.59
35:BA:2689:U:H5"	35:BA:2690:C:H5'	1.83	0.59
39:BE:55:ASN:C	39:BE:57:LYS:N	2.60	0.59
40:BF:198:ALA:C	40:BF:200:GLU:H	2.10	0.59
41:BG:109:VAL:HG21	41:BG:142:PRO:HG3	1.85	0.59
41:BG:174:GLU:OE2	41:BG:180:PHE:HB2	2.02	0.59
46:BN:89:LYS:O	46:BN:93:THR:HG22	2.01	0.59
46:BN:133:GLN:O	46:BN:134:ARG:HB3	2.02	0.59
48:BP:125:VAL:HG11	48:BP:138:LEU:HD21	1.85	0.59
49:BQ:141:GLN:C	58:BZ:99:TYR:H	2.10	0.59
52:BT:62:THR:CG2	52:BT:75:ILE:HG12	2.31	0.59
55:BW:64:MET:O	55:BW:65:LEU:HB3	2.02	0.59
1:CA:572:A:H5"	1:CA:917:G:H4'	1.85	0.59
1:CA:735:C:O2'	1:CA:736:C:H5'	2.01	0.59
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.02	0.59
6:CF:17:SER:C	6:CF:21:LEU:HD13	2.28	0.59
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	2.17	0.59
9:CI:128:ARG:OXT	9:CI:128:ARG:HG2	2.02	0.59
24:CY:16:TYR:HA	24:CY:55:LEU:CD1	2.23	0.59
29:D4:50:THR:HG22	29:D4:51:TYR:N	2.18	0.59
31:D6:22:ALA:HB2	31:D6:39:TYR:CE2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1504:C:C3'	35:DA:1505:C:H5"	2.32	0.59
39:DE:55:ASN:C	39:DE:57:LYS:N	2.61	0.59
46:DN:96:GLU:H	46:DN:96:GLU:CD	2.10	0.59
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.66	0.59
1:AA:356:A:H2	1:AA:357:G:H1'	1.67	0.59
1:AA:499:A:H4'	1:AA:500:G:OP1	2.02	0.59
1:AA:918:A:H2'	1:AA:919:A:H8	1.66	0.59
2:AB:18:GLY:H	2:AB:42:ILE:CG2	2.11	0.59
4:AD:108:LEU:O	4:AD:110:PHE:HD1	1.84	0.59
8:AH:10:LEU:HD13	8:AH:83:ILE:HD11	1.85	0.59
8:AH:11:THR:CG2	8:AH:15:ASN:HD21	2.13	0.59
9:AI:128:ARG:HG2	9:AI:128:ARG:OXT	2.02	0.59
24:AY:177:TYR:CZ	24:AY:212:PRO:HD3	2.38	0.59
27:B2:4:SER:HA	27:B2:7:ARG:HD3	1.85	0.59
35:BA:1001:A:H2'	35:BA:1002:G:O4'	2.02	0.59
35:BA:1531:C:H3'	35:BA:1532:C:H5'	1.84	0.59
35:BA:2039:C:O2'	35:BA:2040:C:H5'	2.03	0.59
40:BF:65:TRP:HB3	40:BF:66:PRO:CD	2.32	0.59
40:BF:167:ALA:O	40:BF:170:LEU:HB2	2.01	0.59
42:BH:13:LYS:HE2	42:BH:13:LYS:CA	2.26	0.59
46:BN:40:PRO:O	53:BU:64:ARG:HG3	2.03	0.59
48:BP:52:GLU:HA	48:BP:52:GLU:OE1	2.01	0.59
58:BZ:61:LEU:HD22	58:BZ:61:LEU:N	2.17	0.59
58:BZ:61:LEU:HD23	58:BZ:65:GLN:O	2.03	0.59
1:CA:105:G:H2'	1:CA:106:C:C6	2.38	0.59
1:CA:337:C:H2'	1:CA:338:A:H8	1.68	0.59
1:CA:360:A:H2'	1:CA:361:G:C8	2.38	0.59
1:CA:875:C:H1'	8:CH:15:ASN:OD1	2.02	0.59
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.02	0.59
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.38	0.59
7:CG:12:LEU:HD11	7:CG:25:ALA:HB2	1.85	0.59
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.32	0.59
9:CI:99:LEU:HB3	9:CI:101:PHE:CD1	2.37	0.59
12:CL:27:LEU:HG	12:CL:28:LYS:HG3	1.83	0.59
13:CM:15:VAL:O	13:CM:19:LEU:HD23	2.01	0.59
20:CT:38:LYS:HA	20:CT:41:ILE:HD11	1.83	0.59
25:D0:14:ARG:HB2	25:D0:14:ARG:CZ	2.33	0.59
29:D4:48:ILE:HD12	29:D4:48:ILE:N	2.16	0.59
31:D6:13:CYS:O	31:D6:21:TYR:HA	2.01	0.59
32:D7:45:ALA:O	32:D7:46:VAL:HG23	2.02	0.59
33:D8:2:PRO:HA	35:DA:591:C:O2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D9:27:CYS:SG	34:D9:29:ASN:ND2	2.76	0.59
35:DA:1349:A:N6	35:DA:1598:C:H42	2.01	0.59
35:DA:2340:G:O2'	35:DA:2341:G:H5'	2.03	0.59
39:DE:132:HIS:CB	39:DE:135:HIS:NE2	2.61	0.59
40:DF:2:LYS:O	40:DF:24:LEU:HG	2.03	0.59
40:DF:10:PRO:HA	40:DF:128:ALA:HB2	1.83	0.59
40:DF:136:THR:HG23	40:DF:137:LYS:N	2.17	0.59
41:DG:137:GLU:HG2	41:DG:152:LEU:HD21	1.84	0.59
45:DK:99:ILE:O	45:DK:139:VAL:HG23	2.02	0.59
48:DP:50:ARG:HD3	48:DP:51:PHE:HB2	1.84	0.59
49:DQ:114:ALA:C	49:DQ:116:GLU:H	2.11	0.59
57:DY:28:LYS:NZ	57:DY:28:LYS:N	2.42	0.59
57:DY:74:PRO:O	57:DY:75:ILE:HB	2.03	0.59
1:AA:66:G:H4'	1:AA:173:U:C5	2.38	0.59
1:AA:501:C:H2'	1:AA:502:G:H8	1.67	0.59
1:AA:965:A:C2	1:AA:969:A:C2	2.90	0.59
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.37	0.59
1:AA:1065:U:H1'	1:AA:1066:C:OP2	2.00	0.59
1:AA:1112:C:O2	3:AC:179:ARG:HG2	2.03	0.59
1:AA:1313:U:OP1	19:AS:6:LYS:HG3	2.01	0.59
1:AA:1493:A:C2'	1:AA:1494:G:H5"	2.33	0.59
5:AE:72:GLN:O	5:AE:73:ASN:CB	2.50	0.59
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.03	0.59
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.01	0.59
19:AS:41:VAL:O	19:AS:44:MET:SD	2.61	0.59
24:AY:88:LYS:C	24:AY:90:GLU:H	2.10	0.59
25:B0:51:VAL:CG2	25:B0:80:HIS:HA	2.28	0.59
26:B1:30:VAL:HA	35:BA:2395:C:O2'	2.02	0.59
28:B3:3:ARG:CB	28:B3:36:VAL:HB	2.23	0.59
33:B8:10:ALA:HB2	33:B8:59:LYS:NZ	2.17	0.59
33:B8:30:ARG:NE	35:BA:2419:U:O4	2.34	0.59
35:BA:1145:C:H2'	35:BA:1146:C:H6	1.68	0.59
35:BA:1528(A):A:C3'	35:BA:1529:G:H5"	2.32	0.59
35:BA:1577:C:H2'	35:BA:1578:U:C6	2.38	0.59
35:BA:1805:U:O2	38:BD:50:THR:HB	2.01	0.59
35:BA:2193:G:H2'	35:BA:2194:G:H8	1.66	0.59
35:BA:2758:A:C3'	35:BA:2759:G:H5"	2.33	0.59
35:BA:2801:A:H2'	35:BA:2801:A:N3	2.17	0.59
35:BA:2844:G:H3'	35:BA:2845:G:H8	1.68	0.59
40:BF:3:GLU:HA	40:BF:24:LEU:CD2	2.33	0.59
40:BF:136:THR:HG23	40:BF:137:LYS:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:39:ILE:CD1	41:BG:60:LEU:HD11	2.33	0.59
41:BG:114:ILE:C	41:BG:116:ASP:N	2.57	0.59
43:BI:38:LEU:HD13	43:BI:39:ALA:H	1.67	0.59
56:BX:12:VAL:H	56:BX:28:PHE:HA	1.68	0.59
58:BZ:117:LEU:H	58:BZ:117:LEU:CD2	2.14	0.59
1:CA:375:U:OP1	16:CP:69:THR:HG21	2.02	0.59
1:CA:499:A:H4'	1:CA:500:G:OP1	2.02	0.59
25:D0:32:ARG:N	25:D0:35:ASN:HD22	2.00	0.59
31:D6:27:LYS:HE3	35:DA:2285:C:C5	2.36	0.59
35:DA:590:A:H2'	35:DA:591:C:C6	2.37	0.59
35:DA:654(K):C:H4'	35:DA:654(L):G:O5'	2.02	0.59
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.02	0.59
35:DA:2864:G:OP1	52:DT:119:LYS:HE2	2.02	0.59
38:DD:25:THR:HG21	38:DD:81:ALA:CB	2.33	0.59
39:DE:132:HIS:ND1	39:DE:135:HIS:NE2	2.46	0.59
41:DG:159:VAL:HG23	41:DG:159:VAL:O	2.02	0.59
48:DP:28:GLY:C	48:DP:29:LYS:HD2	2.27	0.59
48:DP:91:PHE:CE2	48:DP:95:VAL:HG12	2.37	0.59
52:DT:80:SER:OG	52:DT:81:PRO:HD3	2.02	0.59
1:AA:27:G:H2'	1:AA:28:G:H8	1.68	0.59
1:AA:939:G:H5"	7:AG:102:ARG:CZ	2.32	0.59
3:AC:157:ILE:CD1	3:AC:166:GLU:HB2	2.32	0.59
5:AE:132:ALA:O	5:AE:135:THR:HB	2.03	0.59
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.33	0.59
16:AP:75:ARG:C	16:AP:77:ALA:H	2.10	0.59
19:AS:79:THR:O	19:AS:80:TYR:CB	2.50	0.59
22:AW:1:G:H2'	22:AW:1:G:N3	2.18	0.59
25:B0:12:ASN:O	25:B0:14:ARG:N	2.36	0.59
26:B1:50:ARG:O	26:B1:51:VAL:HB	2.01	0.59
26:B1:71:TYR:OH	43:BI:27:ARG:HG2	2.03	0.59
35:BA:590:A:H2'	35:BA:591:C:C6	2.37	0.59
35:BA:1174:A:H5"	35:BA:1175:U:C5'	2.33	0.59
36:BB:65:C:H2'	36:BB:109:C:N4	2.18	0.59
38:BD:238:GLY:O	38:BD:239:ARG:O	2.21	0.59
38:BD:244:ARG:HD2	38:BD:245:PRO:CB	2.33	0.59
38:BD:261:LYS:HB2	38:BD:261:LYS:NZ	2.18	0.59
41:BG:111:LEU:HB3	41:BG:117:PHE:CE2	2.37	0.59
42:BH:90:LYS:O	42:BH:94:TYR:HB2	2.01	0.59
46:BN:96:GLU:H	46:BN:96:GLU:CD	2.09	0.59
50:BR:59:ASP:N	50:BR:59:ASP:OD2	2.36	0.59
54:BV:64:HIS:ND1	54:BV:92:THR:CG2	2.62	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:59:A:H2'	1:CA:59:A:N3	2.16	0.59
1:CA:370:C:O2	1:CA:370:C:C2'	2.50	0.59
1:CA:473:G:H2'	1:CA:474:G:C8	2.38	0.59
1:CA:825:G:C1'	8:CH:2:LEU:HD21	2.33	0.59
1:CA:1319:A:OP2	19:CS:5:LEU:HD21	2.02	0.59
3:CC:70:VAL:O	3:CC:106:VAL:HG23	2.03	0.59
8:CH:12:ARG:HH12	8:CH:27:PRO:HD3	1.67	0.59
15:CO:61:GLY:O	15:CO:65:ARG:HD3	2.02	0.59
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.18	0.59
22:CW:24:G:O2'	22:CW:25:C:H5'	2.02	0.59
35:DA:1001:A:H2'	35:DA:1002:G:O4'	2.03	0.59
35:DA:1090:U:H2'	35:DA:1091:G:H8	1.67	0.59
35:DA:1651:G:OP1	50:DR:40:LYS:HE3	2.01	0.59
35:DA:2262:U:H2'	35:DA:2263:C:H5"	1.84	0.59
35:DA:2617:C:C2'	35:DA:2618:G:H5'	2.33	0.59
35:DA:2672:G:C3'	35:DA:2673:G:H5"	2.33	0.59
40:DF:53:THR:HG22	40:DF:56:GLU:OE2	2.02	0.59
40:DF:167:ALA:O	40:DF:170:LEU:HB2	2.01	0.59
51:DS:26:LEU:HA	51:DS:39:ILE:HD13	1.84	0.59
1:AA:27:G:H2'	1:AA:28:G:C8	2.38	0.59
1:AA:79:G:N2	1:AA:91:C:H41	2.01	0.59
1:AA:875:C:H1'	8:AH:15:ASN:OD1	2.02	0.59
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.03	0.59
3:AC:90:GLU:O	3:AC:93:LYS:HB2	2.03	0.59
9:AI:70:LYS:C	9:AI:72:GLY:H	2.10	0.59
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.01	0.59
22:AV:20:U:H2'	22:AV:21:A:H5'	1.84	0.59
27:B2:24:LEU:O	27:B2:28:LYS:HG2	2.03	0.59
35:BA:654(L):G:H2'	35:BA:654(M):C:C1'	2.32	0.59
35:BA:855:G:H2'	35:BA:856:C:C6	2.37	0.59
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.02	0.59
35:BA:1511:C:H2'	35:BA:1512:U:O4'	2.03	0.59
35:BA:1528(A):A:H2'	35:BA:1529:G:C5'	2.29	0.59
35:BA:2165:G:H2'	35:BA:2166:G:C8	2.38	0.59
42:BH:35:VAL:O	42:BH:37:VAL:N	2.36	0.59
45:BK:93:ARG:HD2	45:BK:93:ARG:C	2.28	0.59
48:BP:132:LYS:O	48:BP:136:GLU:HG2	2.03	0.59
50:BR:97:VAL:HG22	50:BR:114:VAL:HG22	1.83	0.59
51:BS:88:ASP:OD2	51:BS:89:ARG:N	2.35	0.59
53:BU:102:GLU:HG3	54:BV:2:PHE:CE1	2.38	0.59
54:BV:24:LYS:HA	54:BV:92:THR:CG2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:81:LYS:NZ	57:BY:97:ARG:HG3	2.17	0.59
58:BZ:117:LEU:O	58:BZ:117:LEU:HG	2.03	0.59
58:BZ:150:LEU:H	58:BZ:150:LEU:HD13	1.67	0.59
1:CA:840:C:H5"	1:CA:841:U:OP1	2.03	0.59
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.37	0.59
1:CA:1124:G:O2'	10:CJ:38:ILE:HG21	2.02	0.59
2:CB:153:ARG:HG3	2:CB:154:LEU:N	2.17	0.59
4:CD:119:GLN:HE21	4:CD:123:HIS:CD2	2.21	0.59
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.18	0.59
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.38	0.59
16:CP:82:GLN:NE2	16:CP:82:GLN:N	2.50	0.59
33:D8:23:VAL:CG1	33:D8:46:ARG:HB3	2.30	0.59
35:DA:284:U:H2'	35:DA:285:C:C6	2.38	0.59
35:DA:1286:A:O2'	35:DA:1288:U:OP2	2.16	0.59
35:DA:1437:C:H2'	35:DA:1438:U:C6	2.37	0.59
35:DA:1513:C:H2'	35:DA:1514:U:C6	2.37	0.59
35:DA:2178:C:H5"	37:DC:46:LYS:HG2	1.85	0.59
38:DD:243:GLY:O	38:DD:244:ARG:HB3	2.02	0.59
40:DF:3:GLU:CG	40:DF:19:GLU:HB2	2.21	0.59
40:DF:18:ARG:HG2	40:DF:19:GLU:N	2.17	0.59
42:DH:28:GLY:HA3	42:DH:79:VAL:CG2	2.28	0.59
48:DP:147:LEU:HB2	48:DP:148:LEU:HD13	1.83	0.59
53:DU:8:VAL:HG12	53:DU:9:VAL:N	2.15	0.59
58:DZ:146:ILE:HG13	58:DZ:147:GLY:N	2.16	0.59
58:DZ:165:VAL:CG1	58:DZ:166:SER:H	2.11	0.59
1:AA:1105:A:H2'	1:AA:1106:G:C8	2.36	0.59
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.67	0.59
4:AD:138:TYR:CD2	4:AD:138:TYR:C	2.81	0.59
19:AS:63:THR:HG22	19:AS:66:MET:CE	2.31	0.59
22:AW:36:A:H2'	22:AW:37:A:O4'	2.03	0.59
24:AY:192:PRO:HB3	24:AY:199:GLY:O	2.02	0.59
31:B6:30:THR:O	31:B6:31:PRO:C	2.46	0.59
35:BA:528:A:H2	35:BA:2043:C:C5'	2.16	0.59
35:BA:574:C:N3	39:BE:145:LYS:HE2	2.17	0.59
35:BA:1020:A:N1	35:BA:1141:U:H2'	2.18	0.59
35:BA:2196:C:O2'	35:BA:2197:U:H5'	2.01	0.59
35:BA:2577:A:H5"	35:BA:2578:G:H5'	1.85	0.59
35:BA:2584:U:C2	35:BA:2585:U:H5	2.20	0.59
38:BD:33:LEU:O	38:BD:36:PRO:HD3	2.03	0.59
38:BD:182:LEU:HB2	38:BD:271:ILE:O	2.02	0.59
53:BU:104:GLN:H	53:BU:104:GLN:CD	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1004:A:O2'	1:CA:1038:C:H1'	2.03	0.59
1:CA:1041:A:H2'	1:CA:1042:G:H8	1.67	0.59
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.68	0.59
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.07	0.59
4:CD:138:TYR:HD2	4:CD:139:ARG:N	2.00	0.59
10:CJ:4:ILE:HG12	10:CJ:100:THR:CG2	2.33	0.59
24:CY:227:LEU:HA	24:CY:252:VAL:O	2.03	0.59
35:DA:1177:A:H4'	35:DA:1178:C:C6	2.38	0.59
35:DA:1436:G:C3'	35:DA:1437:C:H5"	2.33	0.59
35:DA:2308:G:H21	41:DG:79:ASN:ND2	2.00	0.59
35:DA:2483:C:H3'	35:DA:2484:G:H5"	1.85	0.59
35:DA:2795:G:H2'	35:DA:2795:G:N3	2.16	0.59
41:DG:93:THR:O	41:DG:94:LEU:HD23	2.03	0.59
46:DN:120:LEU:HD13	46:DN:120:LEU:O	2.03	0.59
48:DP:107:LYS:O	48:DP:109:GLY:N	2.36	0.59
52:DT:82:LEU:O	52:DT:84:GLN:N	2.35	0.59
54:DV:61:VAL:HG22	54:DV:61:VAL:O	2.03	0.59
58:DZ:109:ALA:HB3	58:DZ:144:LEU:O	2.03	0.59
1:AA:359:U:H2'	1:AA:360:A:C8	2.38	0.59
1:AA:1060:C:C5	3:AC:2:GLY:HA2	2.38	0.59
2:AB:153:ARG:HG3	2:AB:154:LEU:N	2.16	0.59
3:AC:62:ASP:HA	3:AC:97:LYS:HZ2	1.68	0.59
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.15	0.59
6:AF:100:ASN:HD21	18:AR:23:LYS:HE3	1.68	0.59
25:B0:49:LYS:H	25:B0:80:HIS:CB	2.16	0.59
28:B3:44:ARG:C	28:B3:48:GLU:HG3	2.28	0.59
33:B8:59:LYS:CD	48:BP:50:ARG:HG3	2.31	0.59
35:BA:654(K):C:H4'	35:BA:654(L):G:O5'	2.03	0.59
35:BA:754:C:H2'	35:BA:755:C:H6	1.67	0.59
35:BA:1437:C:H2'	35:BA:1438:U:C6	2.38	0.59
35:BA:2134:A:H2	35:BA:2159:G:H1'	1.68	0.59
38:BD:25:THR:HG22	38:BD:82:ILE:O	2.03	0.59
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.03	0.59
40:BF:9:ILE:HG23	40:BF:13:SER:O	2.03	0.59
40:BF:134:GLY:HA3	40:BF:165:ARG:HD2	1.83	0.59
43:BI:75:LEU:HD23	43:BI:76:THR:N	2.18	0.59
48:BP:50:ARG:HD3	48:BP:51:PHE:HB2	1.85	0.59
52:BT:106:SER:C	52:BT:107:ASP:OD1	2.46	0.59
52:BT:118:ARG:CD	52:BT:118:ARG:H	2.15	0.59
54:BV:39:LEU:HD12	54:BV:47:VAL:HG11	1.84	0.59
58:BZ:171:ILE:O	58:BZ:172:ALA:HB2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:627:G:H2'	1:CA:628:G:H8	1.68	0.59
2:CB:19:HIS:ND1	2:CB:189:ASP:OD2	2.34	0.59
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.85	0.59
6:CF:100:ASN:HD21	18:CR:23:LYS:HE3	1.68	0.59
12:CL:48:PRO:C	12:CL:49:ASN:HD22	2.11	0.59
12:CL:90:VAL:O	12:CL:91:LYS:HB3	2.02	0.59
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.84	0.59
22:CW:46:G:O2'	22:CW:47:U:H5"	2.03	0.59
26:D1:44:PRO:HA	35:DA:396:G:O3'	2.03	0.59
33:D8:32:LEU:HD11	35:DA:2392:A:OP1	2.02	0.59
35:DA:330:A:O2'	35:DA:331:A:H8	1.86	0.59
35:DA:1464:C:HO2'	35:DA:1528:A:H8	1.50	0.59
38:DD:64:ILE:HD12	38:DD:64:ILE:N	2.17	0.59
39:DE:49:LEU:HD12	39:DE:49:LEU:N	2.17	0.59
48:DP:132:LYS:O	48:DP:136:GLU:HG2	2.03	0.59
57:DY:44:ILE:O	57:DY:62:GLU:HB3	2.02	0.59
58:DZ:104:PHE:HB3	58:DZ:141:VAL:HG11	1.85	0.59
1:AA:56:U:O2'	59:DI:82:ARG:NH2	2.36	0.58
1:AA:106:C:H2'	1:AA:107:G:H8	1.68	0.58
1:AA:353:A:H5'	1:AA:353:A:H8	1.68	0.58
1:AA:977:A:O2'	1:AA:978:A:H5'	2.03	0.58
2:AB:178:ARG:HH22	2:AB:196:LEU:CA	2.03	0.58
3:AC:175:LEU:HD12	3:AC:175:LEU:H	1.68	0.58
4:AD:119:GLN:HE21	4:AD:123:HIS:CD2	2.21	0.58
6:AF:17:SER:C	6:AF:21:LEU:HD13	2.28	0.58
12:AL:37:CYS:SG	12:AL:81:SER:HB2	2.43	0.58
13:AM:116:THR:O	13:AM:117:VAL:HB	2.01	0.58
26:B1:62:VAL:HG22	26:B1:63:ALA:H	1.67	0.58
30:B5:46:CYS:SG	30:B5:47:PRO:HD2	2.43	0.58
35:BA:1504:C:C3'	35:BA:1505:C:H5"	2.32	0.58
35:BA:2892:A:H3'	35:BA:2893:G:C5'	2.33	0.58
48:BP:13:ASN:N	48:BP:13:ASN:HD22	2.00	0.58
52:BT:11:GLU:CD	52:BT:11:GLU:H	2.11	0.58
58:BZ:128:VAL:HG23	58:BZ:160:GLY:O	2.03	0.58
58:BZ:150:LEU:HD22	58:BZ:150:LEU:C	2.28	0.58
1:CA:218:C:H5'	1:CA:470:C:N4	2.18	0.58
1:CA:355:C:C2	1:CA:356:A:N7	2.71	0.58
1:CA:1320:C:C2	19:CS:72:GLY:HA3	2.38	0.58
1:CA:1330:U:H3'	1:CA:1331:G:O4'	2.02	0.58
10:CJ:9:ARG:CZ	10:CJ:95:GLU:HG2	2.33	0.58
24:CY:205:PHE:CE2	24:CY:307:TRP:HA	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:223:LYS:HB2	24:CY:226:GLU:CG	2.33	0.58
24:CY:332:ASP:HB2	24:CY:335:ASN:CB	2.32	0.58
28:D3:46:ASN:O	28:D3:50:VAL:HG22	2.03	0.58
31:D6:36:LEU:HD13	31:D6:50:ARG:NH1	2.17	0.58
31:D6:38:LYS:HD2	35:DA:2344:U:OP1	2.03	0.58
35:DA:141:A:N3	35:DA:141:A:H2'	2.18	0.58
49:DQ:109:VAL:HG13	49:DQ:113:GLN:OE1	2.03	0.58
50:DR:10:LEU:CD2	50:DR:17:ARG:HD2	2.32	0.58
56:DX:27:THR:HB	56:DX:80:ILE:HG22	1.84	0.58
57:DY:28:LYS:N	57:DY:28:LYS:HE3	2.17	0.58
1:AA:416:G:OP1	35:DA:2153:G:O3'	2.20	0.58
2:AB:92:TYR:HE2	2:AB:151:GLY:HA3	1.68	0.58
3:AC:167:TRP:O	3:AC:168:ALA:CB	2.51	0.58
6:AF:14:LEU:HD22	6:AF:18:GLN:NE2	2.17	0.58
11:AK:12:ARG:HG2	11:AK:13:GLN:N	2.18	0.58
12:AL:48:PRO:C	12:AL:49:ASN:HD22	2.11	0.58
13:AM:117:VAL:HG12	13:AM:118:ALA:N	2.17	0.58
15:AO:62:GLN:O	15:AO:66:LEU:HD13	2.04	0.58
16:AP:71:ARG:HH11	16:AP:71:ARG:HB3	1.68	0.58
24:AY:253:HIS:HE1	24:AY:255:PRO:HB2	1.68	0.58
35:BA:150:C:H2'	35:BA:151:C:H6	1.67	0.58
35:BA:1082:U:H5'	45:BK:117:THR:CG2	2.32	0.58
35:BA:1678:G:N2	35:BA:1989:G:H22	2.01	0.58
35:BA:2121:G:H2'	35:BA:2122:U:C5'	2.34	0.58
35:BA:2174:C:H2'	35:BA:2175:C:O4'	2.03	0.58
35:BA:2661:G:H2'	35:BA:2662:A:C8	2.37	0.58
36:BB:97:G:C2'	36:BB:98:G:H5'	2.33	0.58
38:BD:158:ALA:HB3	38:BD:161:THR:HG21	1.84	0.58
39:BE:77:ILE:HG22	39:BE:78:LEU:HD23	1.85	0.58
40:BF:8:GLN:HB2	40:BF:125:LEU:O	2.03	0.58
41:BG:21:ARG:HD2	41:BG:21:ARG:C	2.27	0.58
42:BH:47:GLU:HB2	42:BH:51:ARG:HH21	1.68	0.58
42:BH:54:ARG:HG2	42:BH:54:ARG:NH1	2.19	0.58
43:BI:29:TYR:CD1	43:BI:33:ARG:HD2	2.38	0.58
45:BK:119:ASP:HB3	45:BK:121:GLU:CD	2.27	0.58
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.18	0.58
48:BP:107:LYS:O	48:BP:109:GLY:N	2.36	0.58
49:BQ:33:GLY:HA2	49:BQ:105:GLU:HA	1.85	0.58
51:BS:106:ARG:HD2	51:BS:106:ARG:C	2.28	0.58
54:BV:34:GLU:O	54:BV:36:PRO:HD3	2.03	0.58
54:BV:61:VAL:HG22	54:BV:61:VAL:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:45:ASP:O	58:BZ:49:ARG:HB2	2.02	0.58
1:CA:1010:G:N2	1:CA:1020:U:H1'	2.19	0.58
1:CA:1133:G:H2'	1:CA:1134:G:C8	2.38	0.58
3:CC:178:LEU:O	3:CC:180:ALA:N	2.36	0.58
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.17	0.58
16:CP:43:LYS:HG3	16:CP:48:TRP:CE3	2.37	0.58
24:CY:319:ASN:O	24:CY:320:TYR:HB3	2.03	0.58
25:D0:53:MET:HB3	25:D0:59:LEU:CD2	2.30	0.58
28:D3:1:MET:SD	28:D3:38:GLU:HG3	2.43	0.58
35:DA:285:C:C3'	35:DA:286:C:H5"	2.33	0.58
35:DA:613:G:C8	35:DA:613:G:H5'	2.37	0.58
35:DA:2679:A:H4'	39:DE:165:VAL:HG11	1.85	0.58
40:DF:88:VAL:HG11	40:DF:91:GLY:HA3	1.84	0.58
40:DF:116:ASP:O	40:DF:120:GLU:HG3	2.02	0.58
40:DF:134:GLY:HA3	40:DF:165:ARG:HD2	1.83	0.58
47:DO:64:ARG:O	47:DO:82:ASN:HA	2.03	0.58
48:DP:112:LEU:CD2	48:DP:114:ILE:HD12	2.33	0.58
49:DQ:97:VAL:HG11	49:DQ:103:MET:HE3	1.84	0.58
55:DW:12:ILE:HB	55:DW:42:ARG:HH12	1.68	0.58
57:DY:30:VAL:HG12	57:DY:31:LEU:N	2.18	0.58
1:AA:59:A:H2'	1:AA:59:A:N3	2.17	0.58
1:AA:254:G:O2'	1:AA:255:G:H5'	2.03	0.58
1:AA:272:C:H2'	1:AA:273:A:C8	2.38	0.58
1:AA:1124:G:O2'	10:AJ:38:ILE:HG21	2.04	0.58
3:AC:157:ILE:HD11	3:AC:166:GLU:N	2.18	0.58
8:AH:39:LEU:O	8:AH:44:PHE:HB2	2.04	0.58
9:AI:17:VAL:CG1	9:AI:81:ILE:HD13	2.32	0.58
10:AJ:20:ALA:O	10:AJ:24:VAL:HG23	2.03	0.58
10:AJ:48:THR:HG23	10:AJ:62:HIS:HB3	1.83	0.58
22:AW:16:U:OP1	22:AW:17:C:H4'	2.02	0.58
35:BA:1436:G:C3'	35:BA:1437:C:H5"	2.33	0.58
41:BG:103:LEU:O	41:BG:106:LEU:HB3	2.04	0.58
49:BQ:134:ARG:HH12	58:BZ:119:GLU:CD	2.10	0.58
50:BR:4:LEU:C	50:BR:6:SER:N	2.59	0.58
50:BR:10:LEU:HB3	50:BR:17:ARG:NE	2.18	0.58
51:BS:89:ARG:HD2	51:BS:92:TYR:N	2.17	0.58
1:CA:27:G:H2'	1:CA:28:G:H8	1.69	0.58
1:CA:106:C:H2'	1:CA:107:G:H8	1.66	0.58
1:CA:939:G:H5"	7:CG:102:ARG:CZ	2.33	0.58
1:CA:1112:C:O2	3:CC:179:ARG:HG2	2.03	0.58
1:CA:1150:U:H4'	10:CJ:41:PRO:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1313:U:OP1	19:CS:6:LYS:HG3	2.03	0.58
7:CG:6:ARG:HH21	7:CG:94:ARG:HH22	1.51	0.58
22:CV:62:C:O2'	22:CV:63:G:H5"	2.03	0.58
24:CY:125:GLY:O	24:CY:126:GLY:C	2.46	0.58
24:CY:332:ASP:HB2	24:CY:335:ASN:HB2	1.86	0.58
26:D1:82:LEU:HD22	26:D1:90:ILE:HD12	1.84	0.58
35:DA:626:U:O2	48:DP:105:LEU:HB3	2.03	0.58
35:DA:1036:G:H2'	35:DA:1037:G:C8	2.37	0.58
35:DA:1528(A):A:H2'	35:DA:1529:G:C5'	2.26	0.58
35:DA:1607:C:H4'	35:DA:1608:A:O5'	2.03	0.58
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.68	0.58
35:DA:2039:C:O2'	35:DA:2040:C:H5'	2.03	0.58
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.38	0.58
35:DA:2289:G:H1'	35:DA:2346:A:H2	1.67	0.58
35:DA:2728:U:O2'	35:DA:2729:G:H5'	2.02	0.58
41:DG:107:LEU:HD12	41:DG:177:GLY:C	2.29	0.58
42:DH:103:LEU:HG	42:DH:104:GLU:H	1.68	0.58
59:DI:75:LEU:HD22	59:DI:141:LYS:CD	2.32	0.58
49:DQ:141:GLN:C	58:DZ:99:TYR:H	2.11	0.58
1:AA:337:C:H2'	1:AA:338:A:H8	1.69	0.58
1:AA:444:C:H2'	1:AA:445:G:H8	1.68	0.58
1:AA:922:G:N3	1:AA:1398:A:H2	2.01	0.58
10:AJ:56:HIS:C	10:AJ:58:ASP:H	2.10	0.58
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.18	0.58
16:AP:82:GLN:NE2	16:AP:82:GLN:N	2.51	0.58
19:AS:10:PHE:HZ	19:AS:70:LYS:HE2	1.69	0.58
19:AS:62:ILE:HA	19:AS:66:MET:HE3	1.85	0.58
30:B5:6:VAL:HG13	30:B5:7:PRO:HD2	1.85	0.58
31:B6:25:LYS:HD2	33:B8:34:TRP:CZ2	2.39	0.58
35:BA:743:G:O2'	35:BA:744:G:H5'	2.03	0.58
35:BA:1747:G:H2'	35:BA:1747(A):G:C8	2.38	0.58
35:BA:1889:A:O2'	35:BA:2087:G:H5'	2.02	0.58
35:BA:2295:C:O2'	35:BA:2296:U:H5'	2.03	0.58
53:BU:69:CYS:HB3	53:BU:106:PHE:HZ	1.68	0.58
56:BX:55:ASN:HB2	56:BX:80:ILE:HG12	1.85	0.58
1:CA:977:A:O2'	1:CA:978:A:H5'	2.03	0.58
1:CA:1237:C:C4'	1:CA:1334:G:H21	2.15	0.58
4:CD:174:LEU:N	4:CD:186:LEU:HD12	2.19	0.58
6:CF:33:TYR:HD1	6:CF:75:LEU:HB2	1.68	0.58
10:CJ:3:LYS:HD3	10:CJ:77:PRO:HG3	1.84	0.58
15:CO:3:ILE:HD13	15:CO:3:ILE:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.02	0.58
24:CY:253:HIS:CD2	24:CY:283:LEU:HD11	2.39	0.58
31:D6:37:ARG:HH11	31:D6:37:ARG:HG2	1.69	0.58
35:DA:17:G:H4'	53:DU:25:TRP:CZ3	2.38	0.58
35:DA:795:C:H2'	35:DA:796:C:H6	1.68	0.58
35:DA:1577:C:H2'	35:DA:1578:U:C6	2.38	0.58
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.03	0.58
35:DA:2850:A:OP2	35:DA:2866:U:H5	1.86	0.58
35:DA:2892:A:H3'	35:DA:2893:G:C5'	2.33	0.58
38:DD:238:GLY:O	38:DD:239:ARG:O	2.22	0.58
39:DE:84:PHE:O	39:DE:86:PRO:HD3	2.03	0.58
40:DF:9:ILE:HG23	40:DF:13:SER:O	2.02	0.58
41:DG:41:GLN:OE1	41:DG:60:LEU:HD23	2.04	0.58
49:DQ:60:ARG:HB3	49:DQ:60:ARG:NH1	2.18	0.58
52:DT:102:ILE:O	52:DT:106:SER:HB3	2.04	0.58
54:DV:38:LEU:HD13	54:DV:55:ALA:HB1	1.85	0.58
58:DZ:15:PRO:CB	58:DZ:19:ARG:HH21	2.13	0.58
2:AB:224:GLN:C	2:AB:226:ARG:H	2.11	0.58
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.02	0.58
8:AH:21:LYS:O	8:AH:63:LEU:HD23	2.04	0.58
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.37	0.58
9:AI:99:LEU:HB3	9:AI:101:PHE:HE1	1.67	0.58
12:AL:105:TYR:C	12:AL:107:ALA:H	2.11	0.58
22:AV:28:G:O2'	22:AV:29:G:H5'	2.03	0.58
22:AW:7:A:OP1	22:AW:8:U:H5	1.87	0.58
22:AW:57:G:C2'	22:AW:58:A:H5'	2.34	0.58
24:AY:31:ARG:HE	45:BK:20:ALA:HB2	1.68	0.58
24:AY:42:PRO:O	24:AY:45:ALA:HB3	2.03	0.58
35:BA:1187:G:H5"	54:BV:81:TYR:HE2	1.67	0.58
35:BA:1790:C:H5"	35:BA:1791:A:OP1	2.02	0.58
36:BB:7:G:H4'	51:BS:29:PHE:CD1	2.38	0.58
41:BG:116:ASP:O	41:BG:117:PHE:HB2	2.04	0.58
41:BG:133:LEU:HG	41:BG:157:ILE:HG13	1.85	0.58
42:BH:85:LYS:HZ2	42:BH:133:VAL:HB	1.68	0.58
43:BI:98:ALA:HA	43:BI:109:ILE:HD11	1.86	0.58
45:BK:14:ALA:O	45:BK:45:THR:HG21	2.03	0.58
47:BO:49:ARG:O	47:BO:50:GLY:O	2.22	0.58
47:BO:101:PRO:O	47:BO:102:VAL:HG13	2.03	0.58
48:BP:24:GLY:HA3	48:BP:33:ARG:NH1	2.18	0.58
49:BQ:109:VAL:HG13	49:BQ:113:GLN:OE1	2.04	0.58
52:BT:108:ARG:HG3	52:BT:109:GLU:N	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:2:ARG:O	57:BY:4:LYS:N	2.36	0.58
57:BY:44:ILE:O	57:BY:62:GLU:HB3	2.03	0.58
58:BZ:80:ARG:O	58:BZ:82:ARG:N	2.37	0.58
1:CA:494:U:H2'	1:CA:495:A:H5'	1.84	0.58
2:CB:52:GLU:O	2:CB:56:ARG:HG3	2.02	0.58
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.18	0.58
10:CJ:6:ILE:HG12	10:CJ:72:VAL:O	2.03	0.58
11:CK:79:SER:HB2	11:CK:106:LYS:HD3	1.84	0.58
20:CT:44:ALA:HB1	20:CT:88:VAL:HA	1.85	0.58
24:CY:159:GLY:N	24:CY:164:ILE:HA	2.19	0.58
24:CY:269:ILE:CD1	49:DQ:79:LEU:HD22	2.33	0.58
25:D0:77:ARG:NH2	35:DA:857:C:H5'	2.19	0.58
27:D2:33:MET:O	27:D2:34:GLU:C	2.45	0.58
35:DA:141:A:H8	35:DA:1408:C:O2'	1.86	0.58
35:DA:676:A:H8	35:DA:2069:G:N2	1.99	0.58
35:DA:755:C:H2'	35:DA:756:C:H6	1.69	0.58
35:DA:1049:C:H2'	35:DA:1050:A:C8	2.36	0.58
35:DA:1079:C:O2	45:DK:129:GLY:HA3	2.03	0.58
35:DA:1529:G:H21	35:DA:1530:C:H3'	1.67	0.58
35:DA:1952:A:C5	47:DO:22:ILE:HD12	2.38	0.58
35:DA:2367:G:H2'	35:DA:2368:C:H6	1.67	0.58
35:DA:2523:G:H5'	35:DA:2523:G:H8	1.69	0.58
35:DA:2756:U:H4'	35:DA:2757:A:OP1	2.03	0.58
38:DD:25:THR:CG2	38:DD:81:ALA:HB1	2.33	0.58
40:DF:65:TRP:HB3	40:DF:66:PRO:CD	2.34	0.58
45:DK:14:ALA:O	45:DK:45:THR:HG21	2.03	0.58
45:DK:119:ASP:HB3	45:DK:121:GLU:CD	2.28	0.58
46:DN:35:ARG:O	46:DN:42:TRP:CZ3	2.57	0.58
52:DT:113:LYS:O	52:DT:114:LEU:HD23	2.02	0.58
52:DT:118:ARG:CD	52:DT:118:ARG:H	2.16	0.58
56:DX:12:VAL:H	56:DX:28:PHE:HA	1.67	0.58
57:DY:5:MET:HE2	57:DY:5:MET:HA	1.84	0.58
1:AA:501:C:O2'	1:AA:502:G:H5'	2.04	0.58
4:AD:9:CYS:HA	4:AD:12:CYS:CB	2.33	0.58
4:AD:174:LEU:N	4:AD:186:LEU:HD12	2.19	0.58
5:AE:28:PHE:N	5:AE:28:PHE:CD1	2.72	0.58
10:AJ:78:ASN:HD22	10:AJ:81:THR:HG21	1.69	0.58
24:AY:54:ARG:HH11	24:AY:54:ARG:HG2	1.69	0.58
24:AY:274:LEU:O	24:AY:278:ILE:HD13	2.03	0.58
27:B2:48:HIS:CD2	35:BA:96:G:H4'	2.39	0.58
30:B5:55:ARG:O	30:B5:56:LYS:HB3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:284:U:H2'	35:BA:285:C:C6	2.38	0.58
35:BA:626:U:H3	48:BP:105:LEU:CB	2.16	0.58
35:BA:852:G:O2'	35:BA:853:G:H5'	2.04	0.58
35:BA:2051:A:H8	35:BA:2051:A:OP2	1.87	0.58
39:BE:23:VAL:HA	39:BE:184:VAL:O	2.03	0.58
41:BG:114:ILE:HG22	41:BG:116:ASP:N	2.07	0.58
42:BH:159:GLU:HG3	42:BH:160:LYS:N	2.18	0.58
45:BK:21:PRO:HB2	45:BK:22:PRO:CD	2.28	0.58
56:BX:27:THR:HB	56:BX:80:ILE:HG22	1.84	0.58
57:BY:84:ARG:HH12	57:BY:97:ARG:HE	1.51	0.58
58:BZ:41:LEU:HD13	58:BZ:41:LEU:C	2.28	0.58
1:CA:197:A:N6	1:CA:221:C:H5'	2.18	0.58
6:CF:100:ASN:N	6:CF:100:ASN:HD22	2.01	0.58
10:CJ:96:ILE:HD13	10:CJ:96:ILE:H	1.68	0.58
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.18	0.58
24:CY:35:ASP:O	24:CY:37:SER:N	2.36	0.58
24:CY:100:GLU:O	24:CY:104:GLN:HG2	2.04	0.58
26:D1:8:SER:CB	26:D1:66:HIS:CE1	2.85	0.58
27:D2:69:ARG:HH22	35:DA:111:A:H5"	1.68	0.58
35:DA:754:C:H2'	35:DA:755:C:H6	1.68	0.58
35:DA:2855:C:H2'	35:DA:2856:C:C6	2.36	0.58
38:DD:227:ASN:HB3	38:DD:228:PRO:HD2	1.86	0.58
42:DH:54:ARG:HG2	42:DH:54:ARG:NH1	2.18	0.58
45:DK:102:GLU:O	45:DK:106:GLU:HG3	2.03	0.58
54:DV:6:LYS:HA	54:DV:11:GLN:HA	1.86	0.58
56:DX:57:LEU:HD13	56:DX:78:LYS:O	2.03	0.58
1:AA:503:C:H2'	1:AA:504:C:C6	2.38	0.58
1:AA:972:C:O3'	10:AJ:57:LYS:CG	2.52	0.58
1:AA:1223:C:OP1	1:AA:1224:G:H3'	2.04	0.58
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	2.19	0.58
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.04	0.58
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.86	0.58
9:AI:32:ASP:HB3	9:AI:35:GLU:HB2	1.84	0.58
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.33	0.58
20:AT:94:ALA:O	20:AT:95:ALA:HB3	2.02	0.58
26:B1:58:ILE:HD11	26:B1:91:LYS:HB2	1.84	0.58
35:BA:74:A:H4'	35:BA:75:G:O5'	2.04	0.58
35:BA:93:G:H2'	35:BA:94:C:C6	2.38	0.58
35:BA:320:A:H3'	40:BF:136:THR:HG21	1.85	0.58
35:BA:662:G:P	48:BP:18:ARG:HD2	2.43	0.58
35:BA:1024:G:C3'	35:BA:1025:G:H5"	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1405:U:H2'	35:BA:1406:U:H6	1.67	0.58
35:BA:2263:C:H5'	35:BA:2263:C:C6	2.38	0.58
39:BE:69:LYS:HE3	39:BE:90:THR:N	2.14	0.58
42:BH:41:MET:HG3	42:BH:54:ARG:HA	1.83	0.58
42:BH:103:LEU:CG	42:BH:104:GLU:H	2.16	0.58
43:BI:78:THR:HG22	43:BI:143:SER:CB	2.33	0.58
1:CA:160:A:H1'	1:CA:344:A:N7	2.18	0.58
2:CB:18:GLY:H	2:CB:42:ILE:CG2	2.13	0.58
2:CB:19:HIS:CD2	2:CB:20:GLU:H	2.21	0.58
6:CF:6:VAL:C	6:CF:7:ASN:HD22	2.11	0.58
8:CH:21:LYS:O	8:CH:63:LEU:HD23	2.04	0.58
10:CJ:48:THR:HG23	10:CJ:62:HIS:HB3	1.86	0.58
14:CN:22:THR:O	14:CN:23:ARG:CB	2.51	0.58
17:CQ:80:GLY:C	17:CQ:82:MET:H	2.12	0.58
22:CW:71:G:H4'	35:DA:1851:U:H4'	1.86	0.58
24:CY:354:GLY:O	24:CY:355:ARG:HG2	2.04	0.58
26:D1:90:ILE:O	26:D1:94:LEU:HB2	2.02	0.58
28:D3:38:GLU:HG3	28:D3:39:ASP:H	1.69	0.58
35:DA:1024:G:C3'	35:DA:1025:G:H5"	2.31	0.58
35:DA:1174:A:H5"	35:DA:1175:U:C5'	2.33	0.58
35:DA:1473:G:O2'	35:DA:1474:C:H5'	2.04	0.58
35:DA:2263:C:H5'	35:DA:2263:C:C6	2.38	0.58
38:DD:150:LYS:HA	38:DD:150:LYS:HE3	1.85	0.58
40:DF:8:GLN:HB2	40:DF:125:LEU:O	2.02	0.58
41:DG:109:VAL:O	41:DG:113:ARG:HG3	2.03	0.58
41:DG:161:THR:HG22	41:DG:163:ALA:N	2.18	0.58
42:DH:43:VAL:HG21	42:DH:52:VAL:HG22	1.85	0.58
42:DH:158:HIS:O	42:DH:159:GLU:CB	2.52	0.58
52:DT:57:PHE:O	52:DT:59:THR:HG22	2.03	0.58
53:DU:104:GLN:CD	53:DU:104:GLN:H	2.11	0.58
54:DV:24:LYS:HA	54:DV:92:THR:CG2	2.33	0.58
56:DX:71:GLY:C	56:DX:72:LYS:HG3	2.29	0.58
58:DZ:167:PRO:O	58:DZ:168:GLU:HB2	2.03	0.58
1:AA:149:A:H2'	1:AA:150:C:C6	2.39	0.58
1:AA:436:C:H2'	1:AA:437:U:C6	2.38	0.58
1:AA:556:C:C2'	1:AA:557:G:H5'	2.34	0.58
1:AA:688:G:H2'	1:AA:689:C:H6	1.67	0.58
1:AA:1319:A:OP2	19:AS:5:LEU:HD21	2.03	0.58
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.67	0.58
9:AI:43:ALA:O	9:AI:45:ALA:N	2.37	0.58
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:71:ARG:HB3	16:AP:71:ARG:NH1	2.19	0.58
22:AV:72:C:C3'	22:AV:73:A:H5"	2.34	0.58
24:AY:140:TYR:HE1	24:AY:183:GLU:HG3	1.69	0.58
27:B2:16:LEU:O	27:B2:20:GLU:HB3	2.04	0.58
31:B6:20:ASN:ND2	31:B6:21:TYR:N	2.46	0.58
33:B8:53:PRO:C	33:B8:55:ALA:N	2.58	0.58
35:BA:141:A:H2'	35:BA:141:A:N3	2.17	0.58
35:BA:958:U:H5"	49:BQ:14:ARG:HD3	1.84	0.58
35:BA:1722:A:H2	35:BA:1740:G:H2'	1.67	0.58
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.29	0.58
38:BD:25:THR:CG2	38:BD:81:ALA:HB1	2.32	0.58
39:BE:26:ILE:HG22	39:BE:27:LEU:H	1.68	0.58
45:BK:102:GLU:O	45:BK:106:GLU:HG3	2.04	0.58
45:BK:131:ALA:C	45:BK:133:SER:H	2.11	0.58
53:BU:65:ILE:HG12	53:BU:96:ALA:HB3	1.85	0.58
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	2.03	0.58
1:CA:341:C:H2'	1:CA:342:C:H6	1.68	0.58
1:CA:472:A:H4'	16:CP:82:GLN:HE22	1.68	0.58
1:CA:619:U:C2	4:CD:135:LEU:HD21	2.39	0.58
4:CD:76:ARG:HG2	4:CD:76:ARG:NH1	2.17	0.58
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.86	0.58
8:CH:30:ARG:HB3	8:CH:30:ARG:CZ	2.31	0.58
9:CI:99:LEU:HB3	9:CI:101:PHE:HE1	1.67	0.58
10:CJ:3:LYS:HB3	10:CJ:77:PRO:HD3	1.86	0.58
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	2.04	0.58
20:CT:59:ALA:O	20:CT:63:ILE:HG13	2.04	0.58
22:CV:74:C:O2'	22:CV:75:C:H5"	2.03	0.58
24:CY:128:GLU:HA	24:CY:195:PHE:HE2	1.69	0.58
26:D1:12:PRO:HB3	26:D1:43:TYR:HD2	1.69	0.58
33:D8:30:ARG:NE	35:DA:2419:U:O4	2.36	0.58
33:D8:59:LYS:CD	48:DP:50:ARG:HG3	2.31	0.58
35:DA:1020:A:N1	35:DA:1141:U:H2'	2.19	0.58
35:DA:1796:U:H2'	35:DA:1797:C:C6	2.39	0.58
35:DA:2193:G:H2'	35:DA:2194:G:H8	1.69	0.58
38:DD:231:HIS:ND1	38:DD:232:PRO:HD2	2.19	0.58
40:DF:3:GLU:HA	40:DF:24:LEU:CD2	2.34	0.58
41:DG:128:ARG:HB3	41:DG:130:ASN:ND2	2.18	0.58
42:DH:94:TYR:CZ	42:DH:160:LYS:HD2	2.38	0.58
59:DI:75:LEU:HD22	59:DI:141:LYS:CG	2.34	0.58
59:DI:122:GLU:HG2	59:DI:123:LEU:N	2.18	0.58
47:DO:98:VAL:CG1	47:DO:117:LEU:HB3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.02	0.58
52:DT:106:SER:C	52:DT:107:ASP:OD1	2.46	0.58
53:DU:49:HIS:HA	53:DU:52:ARG:HB2	1.84	0.58
53:DU:65:ILE:HG12	53:DU:96:ALA:HB3	1.86	0.58
54:DV:19:LYS:HZ2	54:DV:20:LEU:H	1.49	0.58
1:AA:601:C:H2'	1:AA:602:A:C8	2.38	0.58
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.02	0.58
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.39	0.58
6:AF:74:ASP:HA	6:AF:77:ARG:HH12	1.69	0.58
7:AG:12:LEU:HD11	7:AG:25:ALA:HB2	1.84	0.58
9:AI:32:ASP:HB3	9:AI:35:GLU:CB	2.33	0.58
20:AT:46:GLU:HG2	20:AT:46:GLU:O	2.04	0.58
22:AV:41:C:H2'	22:AV:41:C:O2	2.02	0.58
24:AY:144:ALA:O	24:AY:149:PHE:HB2	2.04	0.58
24:AY:152:GLU:HB3	24:AY:170:LEU:HB3	1.85	0.58
24:AY:291:ARG:HH11	24:AY:295:LEU:HD11	1.67	0.58
26:B1:56:GLN:HA	26:B1:56:GLN:NE2	2.18	0.58
31:B6:34:LEU:O	31:B6:35:GLU:HB2	2.04	0.58
35:BA:412:A:H2'	35:BA:413:C:H5'	1.86	0.58
35:BA:671:C:O2'	35:BA:672:C:H5'	2.03	0.58
35:BA:1438:U:O2'	35:BA:1439:A:H5'	2.03	0.58
35:BA:1467:C:O2'	35:BA:1468:C:H5'	2.03	0.58
38:BD:242:ARG:O	38:BD:243:GLY:C	2.45	0.58
41:BG:39:ILE:HG22	41:BG:157:ILE:CG2	2.34	0.58
41:BG:82:LEU:O	41:BG:83:ARG:HB3	2.03	0.58
42:BH:28:GLY:HA3	42:BH:79:VAL:CG2	2.29	0.58
52:BT:113:LYS:O	52:BT:114:LEU:HD23	2.03	0.58
54:BV:38:LEU:HD13	54:BV:55:ALA:HB1	1.86	0.58
54:BV:47:VAL:HG13	54:BV:52:VAL:N	2.19	0.58
55:BW:92:ARG:HH11	55:BW:92:ARG:HG2	1.67	0.58
1:CA:321:A:H61	1:CA:332:G:H1	1.51	0.58
1:CA:828:A:H2'	1:CA:829:G:O4'	2.04	0.58
1:CA:939:G:H1	1:CA:1344:C:H42	1.52	0.58
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.02	0.58
3:CC:90:GLU:O	3:CC:93:LYS:HB2	2.03	0.58
4:CD:191:ARG:HD2	4:CD:191:ARG:C	2.29	0.58
9:CI:53:VAL:HG13	9:CI:95:LYS:HZ1	1.69	0.58
13:CM:116:THR:O	13:CM:117:VAL:HB	2.01	0.58
24:CY:267:SER:O	24:CY:271:ASN:HB2	2.04	0.58
24:CY:346:TRP:HA	24:CY:346:TRP:CE3	2.39	0.58
31:D6:18:ARG:CZ	31:D6:43:CYS:SG	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:32:LEU:HD11	35:DA:2391:G:H3'	1.86	0.58
35:DA:1292:U:H2'	35:DA:1293:C:C6	2.39	0.58
35:DA:1531:C:H3'	35:DA:1532:C:H5'	1.85	0.58
35:DA:2121:G:H2'	35:DA:2122:U:C5'	2.33	0.58
35:DA:2134:A:H2	35:DA:2159:G:H1'	1.68	0.58
39:DE:134:ILE:H	39:DE:134:ILE:HD13	1.67	0.58
40:DF:133:ASN:O	40:DF:135:LYS:N	2.37	0.58
45:DK:36:GLU:HG2	45:DK:65:PHE:HZ	1.69	0.58
45:DK:57:ILE:HG13	45:DK:67:PHE:HB3	1.86	0.58
53:DU:102:GLU:HG3	54:DV:2:PHE:HE1	1.69	0.58
54:DV:2:PHE:O	54:DV:3:ALA:HB3	2.03	0.58
1:AA:963:G:N2	10:AJ:55:LYS:HZ2	2.01	0.58
1:AA:1313:U:OP2	19:AS:6:LYS:HB3	2.02	0.58
8:AH:107:LEU:HD23	8:AH:107:LEU:N	2.19	0.58
10:AJ:6:ILE:HG12	10:AJ:72:VAL:O	2.03	0.58
12:AL:105:TYR:O	12:AL:107:ALA:N	2.37	0.58
20:AT:64:ASP:O	20:AT:67:ALA:HB3	2.03	0.58
24:AY:83:GLU:O	24:AY:84:ARG:HD3	2.03	0.58
24:AY:221:VAL:O	24:AY:222:LEU:HD22	2.04	0.58
33:B8:33:ASN:CB	33:B8:36:LYS:HD2	2.33	0.58
35:BA:661:C:C4'	48:BP:16:ARG:HD3	2.33	0.58
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.39	0.58
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.04	0.58
35:BA:2667:C:H1'	42:BH:109:PHE:HD2	1.66	0.58
35:BA:2809:A:O2'	35:BA:2810:A:H5'	2.04	0.58
40:BF:63:LYS:NZ	40:BF:67:GLN:HB2	2.19	0.58
41:BG:12:TYR:HA	41:BG:16:ARG:CG	2.34	0.58
45:BK:33:ASN:HD21	45:BK:63:ARG:HD3	1.69	0.58
45:BK:102:GLU:HG2	45:BK:103:GLN:H	1.69	0.58
47:BO:64:ARG:O	47:BO:82:ASN:HA	2.04	0.58
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.65	0.58
55:BW:22:ASP:HA	55:BW:25:ARG:HH12	1.69	0.58
57:BY:95:LYS:HG2	57:BY:100:ALA:HA	1.85	0.58
1:CA:503:C:H2'	1:CA:504:C:C6	2.35	0.58
1:CA:555:C:H2'	1:CA:556:C:C6	2.32	0.58
1:CA:1142:G:C2'	1:CA:1143:G:H5'	2.34	0.58
1:CA:1461:G:H2'	1:CA:1462:G:H8	1.69	0.58
2:CB:44:LEU:HA	2:CB:47:THR:OG1	2.04	0.58
3:CC:172:ARG:HH11	3:CC:172:ARG:HB3	1.69	0.58
3:CC:175:LEU:H	3:CC:175:LEU:HD12	1.69	0.58
8:CH:107:LEU:N	8:CH:107:LEU:HD23	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:56:HIS:C	10:CJ:58:ASP:H	2.11	0.58
13:CM:27:LYS:CE	13:CM:31:LYS:HE3	2.31	0.58
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.34	0.58
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.04	0.58
33:D8:33:ASN:O	35:DA:2420:C:P	2.62	0.58
33:D8:53:PRO:C	33:D8:55:ALA:N	2.59	0.58
35:DA:74:A:H4'	35:DA:75:G:O5'	2.03	0.58
35:DA:150:C:H2'	35:DA:151:C:H6	1.67	0.58
35:DA:286:C:C2'	35:DA:287:C:C5'	2.82	0.58
35:DA:1345:C:H2'	35:DA:1346:G:H8	1.69	0.58
35:DA:1494:A:HO2'	35:DA:1495:A:H5"	1.68	0.58
35:DA:1794:U:H2'	35:DA:1795:C:C6	2.38	0.58
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.69	0.58
37:DC:36:LYS:HG3	37:DC:37:PHE:N	2.11	0.58
38:DD:244:ARG:HD2	38:DD:245:PRO:CB	2.33	0.58
41:DG:61:ALA:HA	41:DG:64:THR:CG2	2.34	0.58
41:DG:139:LEU:H	41:DG:139:LEU:CD2	2.16	0.58
49:DQ:32:TYR:OH	49:DQ:111:GLU:HB3	2.04	0.58
52:DT:128:GLU:O	52:DT:129:ARG:C	2.47	0.58
54:DV:39:LEU:HD12	54:DV:47:VAL:HG11	1.85	0.58
57:DY:7:VAL:HB	57:DY:8:LYS:NZ	2.19	0.58
1:AA:6:G:H4'	1:AA:298:A:H4'	1.85	0.57
1:AA:105:G:H2'	1:AA:106:C:C6	2.38	0.57
1:AA:160:A:H1'	1:AA:344:A:N7	2.19	0.57
1:AA:409:G:C5'	4:AD:25:ARG:HB2	2.34	0.57
1:AA:423:G:OP2	35:DA:2138:C:H5"	2.04	0.57
1:AA:678:U:H2'	1:AA:679:C:C6	2.39	0.57
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.18	0.57
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.03	0.57
2:AB:19:HIS:HD1	2:AB:189:ASP:CG	2.12	0.57
17:AQ:80:GLY:C	17:AQ:82:MET:H	2.12	0.57
35:BA:908:C:O2'	35:BA:909:A:H5'	2.04	0.57
35:BA:1946:U:H2'	35:BA:1947:C:C6	2.38	0.57
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.19	0.57
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.03	0.57
38:BD:64:ILE:HD12	38:BD:64:ILE:N	2.17	0.57
38:BD:92:ILE:HD13	38:BD:104:TYR:HD2	1.68	0.57
38:BD:243:GLY:O	38:BD:244:ARG:HB3	2.03	0.57
41:BG:83:ARG:HE	41:BG:84:LYS:HZ3	1.52	0.57
52:BT:112:ARG:HB3	52:BT:112:ARG:CZ	2.33	0.57
56:BX:11:PRO:HB3	56:BX:92:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:48:LYS:HD2	56:BX:48:LYS:N	2.19	0.57
1:CA:243:A:H4'	1:CA:244:U:O5'	2.03	0.57
1:CA:274:A:O2'	1:CA:275:G:O4'	2.22	0.57
1:CA:1070:U:O2'	1:CA:1071:C:H5'	2.04	0.57
1:CA:1223:C:OP1	1:CA:1224:G:H3'	2.04	0.57
1:CA:1275:A:H2'	1:CA:1276:G:C8	2.39	0.57
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.39	0.57
8:CH:104:ARG:O	8:CH:105:ARG:HB2	2.03	0.57
9:CI:78:LYS:HB2	9:CI:78:LYS:HZ3	1.66	0.57
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.19	0.57
12:CL:119:LYS:C	12:CL:120:TYR:HD1	2.12	0.57
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.35	0.57
24:CY:141:THR:HG23	24:CY:151:VAL:HG11	1.86	0.57
32:D7:8:ASN:ND2	32:D7:11:LYS:H	2.01	0.57
33:D8:33:ASN:O	35:DA:2420:C:OP2	2.21	0.57
35:DA:1050:A:C2	35:DA:1051:G:H1'	2.38	0.57
35:DA:2844:G:H3'	35:DA:2845:G:H8	1.69	0.57
38:DD:71:ASP:HB2	38:DD:103:ARG:NH2	2.18	0.57
50:DR:61:HIS:O	50:DR:65:LEU:HD13	2.04	0.57
54:DV:72:VAL:O	54:DV:72:VAL:HG23	2.03	0.57
56:DX:11:PRO:HB3	56:DX:92:LEU:HD21	1.86	0.57
1:AA:627:G:H2'	1:AA:628:G:H8	1.67	0.57
1:AA:921:U:O2	5:AE:19:MET:HB2	2.04	0.57
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.05	0.57
4:AD:76:ARG:HG2	4:AD:76:ARG:NH1	2.19	0.57
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.18	0.57
12:AL:90:VAL:HG12	12:AL:90:VAL:O	2.02	0.57
12:AL:119:LYS:C	12:AL:120:TYR:HD1	2.12	0.57
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.03	0.57
17:AQ:91:ARG:HG2	17:AQ:91:ARG:HH11	1.70	0.57
24:AY:177:TYR:CE1	24:AY:212:PRO:HD3	2.39	0.57
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.86	0.57
31:B6:33:LYS:O	31:B6:34:LEU:HB2	2.04	0.57
35:BA:877:U:C2'	35:BA:878:A:H5"	2.34	0.57
35:BA:1188:U:H4'	54:BV:79:VAL:HG13	1.86	0.57
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.69	0.57
35:BA:2334:G:C4	51:BS:15:ARG:NH1	2.72	0.57
40:BF:20:LEU:HD22	40:BF:203:GLN:OE1	2.04	0.57
43:BI:133:HIS:ND1	43:BI:134:PRO:HD2	2.19	0.57
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.11	0.57
1:CA:1313:U:OP2	19:CS:6:LYS:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:135:GLN:O	2:CB:139:LYS:HB2	2.03	0.57
4:CD:13:ARG:HD2	4:CD:38:TYR:O	2.03	0.57
5:CE:75:THR:HG23	5:CE:76:ILE:N	2.19	0.57
7:CG:18:TYR:HD2	7:CG:59:LEU:HD22	1.68	0.57
8:CH:77:GLU:HG2	8:CH:78:GLN:N	2.18	0.57
11:CK:12:ARG:HG2	11:CK:13:GLN:N	2.19	0.57
12:CL:126:LYS:C	12:CL:128:ALA:H	2.12	0.57
13:CM:117:VAL:HG12	13:CM:118:ALA:N	2.18	0.57
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.86	0.57
16:CP:82:GLN:N	16:CP:82:GLN:HE21	2.02	0.57
20:CT:64:ASP:O	20:CT:67:ALA:HB3	2.03	0.57
24:CY:55:LEU:HD23	24:CY:58:THR:HB	1.85	0.57
34:D9:27:CYS:HB3	34:D9:32:HIS:HB2	1.86	0.57
35:DA:528:A:H2	35:DA:2043:C:C5'	2.17	0.57
35:DA:1508:A:H2'	35:DA:1508:A:N3	2.19	0.57
35:DA:2127:G:O2'	35:DA:2173:A:H2	1.87	0.57
35:DA:2512:C:H4'	39:DE:122:PHE:CE2	2.39	0.57
35:DA:2653:U:H2'	42:DH:110:SER:HB2	1.86	0.57
35:DA:2667:C:H1'	42:DH:109:PHE:HD2	1.68	0.57
37:DC:77:ILE:O	37:DC:77:ILE:HG23	2.02	0.57
38:DD:95:LEU:HD13	38:DD:97:TYR:HE1	1.68	0.57
39:DE:108:SER:HB3	39:DE:165:VAL:HG21	1.84	0.57
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.19	0.57
52:DT:112:ARG:CZ	52:DT:112:ARG:HB3	2.33	0.57
54:DV:34:GLU:O	54:DV:36:PRO:HD3	2.04	0.57
57:DY:10:GLY:HA2	57:DY:27:VAL:CG1	2.34	0.57
57:DY:27:VAL:C	57:DY:29:GLU:OE1	2.47	0.57
1:AA:473:G:H2'	1:AA:474:G:C8	2.39	0.57
1:AA:1275:A:H2'	1:AA:1276:G:C8	2.39	0.57
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.18	0.57
6:AF:100:ASN:O	18:AR:28:GLU:HG2	2.04	0.57
12:AL:110:VAL:O	12:AL:122:THR:HG21	2.04	0.57
22:AW:9:A:C5'	22:AW:46:G:H5'	2.34	0.57
22:AW:57:G:H2'	22:AW:58:A:H5'	1.86	0.57
24:AY:68:ASP:CG	24:AY:91:LEU:HD21	2.28	0.57
33:B8:2:PRO:HA	35:BA:591:C:O2	2.04	0.57
33:B8:33:ASN:O	35:BA:2420:C:P	2.62	0.57
35:BA:171:G:H2'	35:BA:172:C:C6	2.39	0.57
35:BA:1713:U:O2'	35:BA:1714:G:H5'	2.04	0.57
39:BE:137:HIS:CB	39:BE:138:PRO:HD2	2.35	0.57
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:90:VAL:CG1	53:BU:91:ASP:H	2.12	0.57
54:BV:38:LEU:O	54:BV:51:VAL:HG13	2.04	0.57
57:BY:27:VAL:C	57:BY:29:GLU:OE1	2.47	0.57
57:BY:28:LYS:O	57:BY:29:GLU:C	2.46	0.57
1:CA:678:U:H2'	1:CA:679:C:C6	2.39	0.57
1:CA:1477:C:O2'	1:CA:1478:C:H5'	2.04	0.57
4:CD:201:GLN:O	4:CD:204:ILE:HB	2.04	0.57
5:CE:7:GLU:HB3	5:CE:112:LEU:HD13	1.87	0.57
10:CJ:8:LEU:HD22	10:CJ:96:ILE:HG22	1.86	0.57
10:CJ:20:ALA:O	10:CJ:24:VAL:HG23	2.05	0.57
24:CY:139:MET:HE3	24:CY:341:LEU:CD1	2.28	0.57
26:D1:81:LYS:HE3	35:DA:271(G):C:O2'	2.03	0.57
30:D5:45:VAL:HG22	30:D5:51:TYR:CE2	2.39	0.57
35:DA:271(A):A:H2	35:DA:272(D):G:N3	2.02	0.57
35:DA:1464:C:H2'	35:DA:1465:G:H8	1.69	0.57
35:DA:1688:U:H1'	35:DA:1701:A:C6	2.39	0.57
35:DA:2051:A:H8	35:DA:2051:A:OP2	1.88	0.57
35:DA:2593:U:H2'	35:DA:2594:C:H6	1.68	0.57
35:DA:2692:C:H2'	35:DA:2693:A:H8	1.68	0.57
39:DE:48:GLN:NE2	39:DE:78:LEU:CD1	2.68	0.57
39:DE:131:ALA:C	39:DE:133:LYS:N	2.62	0.57
42:DH:25:LYS:HD2	42:DH:32:GLU:OE2	2.04	0.57
42:DH:35:VAL:O	42:DH:37:VAL:N	2.36	0.57
59:DI:130:TYR:CD2	59:DI:132:PRO:HG3	2.39	0.57
44:DJ:52:UNK:HA	44:DJ:86:UNK:O	2.05	0.57
47:DO:69:ILE:HD12	47:DO:69:ILE:N	2.19	0.57
48:DP:18:ARG:HB3	48:DP:18:ARG:CZ	2.34	0.57
51:DS:89:ARG:HD2	51:DS:92:TYR:CA	2.35	0.57
58:DZ:9:TYR:HE2	58:DZ:35:ARG:NH1	2.02	0.57
1:AA:56:U:H4'	59:DI:82:ARG:NH2	2.19	0.57
1:AA:194:C:H2'	1:AA:195:A:H5"	1.85	0.57
1:AA:619:U:C2	4:AD:135:LEU:HD21	2.39	0.57
1:AA:1237:C:C4'	1:AA:1334:G:H21	2.17	0.57
1:AA:1330:U:H3'	1:AA:1331:G:O4'	2.04	0.57
2:AB:132:LYS:O	2:AB:136:VAL:HG23	2.04	0.57
5:AE:33:VAL:HG11	5:AE:109:ILE:HA	1.86	0.57
9:AI:85:LEU:O	9:AI:89:ASN:HB2	2.05	0.57
9:AI:105:ASP:OD2	9:AI:107:ARG:HD3	2.05	0.57
13:AM:79:LYS:O	13:AM:82:MET:HB3	2.05	0.57
24:AY:59:VAL:HA	24:AY:62:PHE:HB3	1.84	0.57
35:BA:828:U:H3'	35:BA:828:U:O2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:925:C:C3'	35:BA:926:A:H5"	2.33	0.57
35:BA:2350:C:H2'	35:BA:2351:G:O4'	2.04	0.57
41:BG:51:ARG:HE	41:BG:51:ARG:CA	2.03	0.57
42:BH:17:VAL:HB	42:BH:45:VAL:HG13	1.86	0.57
47:BO:69:ILE:HD12	47:BO:69:ILE:N	2.19	0.57
48:BP:108:LYS:O	48:BP:109:GLY:O	2.22	0.57
53:BU:91:ASP:OD2	53:BU:96:ALA:N	2.38	0.57
57:BY:5:MET:HE2	57:BY:5:MET:HA	1.85	0.57
1:CA:194:C:H2'	1:CA:195:A:H5"	1.85	0.57
1:CA:272:C:H2'	1:CA:273:A:C8	2.38	0.57
1:CA:972:C:O3'	10:CJ:57:LYS:HG3	2.03	0.57
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.70	0.57
1:CA:1399:C:C2	1:CA:1502:A:N6	2.73	0.57
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.70	0.57
3:CC:157:ILE:CD1	3:CC:166:GLU:HB2	2.33	0.57
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.33	0.57
9:CI:7:THR:O	9:CI:79:LEU:HD12	2.05	0.57
27:D2:3:LEU:CD2	27:D2:7:ARG:HH21	2.17	0.57
35:DA:448:U:O4	35:DA:583:G:H1'	2.05	0.57
35:DA:534:U:O2'	53:DU:49:HIS:HD2	1.88	0.57
35:DA:828:U:H3'	35:DA:828:U:O2	2.04	0.57
35:DA:1061:U:O4	45:DK:10:LEU:HA	2.03	0.57
35:DA:1467:C:O2'	35:DA:1468:C:H5'	2.04	0.57
35:DA:2165:G:H2'	35:DA:2166:G:C8	2.39	0.57
35:DA:2720:U:H2'	35:DA:2720:U:O2	2.03	0.57
38:DD:261:LYS:HB2	38:DD:261:LYS:NZ	2.20	0.57
59:DI:92:VAL:HB	59:DI:120:ILE:HG23	1.86	0.57
44:DJ:130:UNK:C	44:DJ:132:UNK:N	2.67	0.57
46:DN:15:LEU:HB2	46:DN:134:ARG:HB2	1.86	0.57
48:DP:13:ASN:N	48:DP:13:ASN:HD22	2.01	0.57
53:DU:27:LEU:HD23	53:DU:27:LEU:H	1.70	0.57
57:DY:28:LYS:H	57:DY:28:LYS:CE	2.18	0.57
1:AA:865:A:H5'	1:AA:1078:U:O4	2.05	0.57
2:AB:19:HIS:CD2	2:AB:20:GLU:H	2.22	0.57
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.08	0.57
4:AD:108:LEU:O	4:AD:110:PHE:N	2.37	0.57
6:AF:61:LEU:HD23	6:AF:63:TYR:OH	2.04	0.57
14:AN:12:ARG:C	14:AN:14:PRO:CD	2.78	0.57
15:AO:43:LEU:C	15:AO:45:VAL:H	2.11	0.57
26:B1:21:ARG:NH2	35:BA:2079:U:H5"	2.19	0.57
27:B2:64:LEU:HD21	27:B2:68:ARG:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:285:C:C3'	35:BA:286:C:H5"	2.35	0.57
35:BA:483:A:N7	35:BA:497:A:H2	2.02	0.57
35:BA:755:C:H2'	35:BA:756:C:H6	1.69	0.57
35:BA:1288:U:C2	35:BA:1327:C:O2	2.57	0.57
35:BA:1762:A:H8	35:BA:1762:A:O5'	1.88	0.57
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	2.19	0.57
38:BD:131:LEU:O	38:BD:131:LEU:HD12	2.04	0.57
39:BE:117:MET:CE	39:BE:124:GLY:HA3	2.35	0.57
39:BE:132:HIS:CB	39:BE:135:HIS:NE2	2.62	0.57
40:BF:116:ASP:O	40:BF:120:GLU:HG3	2.03	0.57
41:BG:70:VAL:HG12	41:BG:71:THR:N	2.18	0.57
44:BJ:52:UNK:HA	44:BJ:86:UNK:O	2.04	0.57
52:BT:82:LEU:C	52:BT:84:GLN:N	2.62	0.57
57:BY:28:LYS:HB2	57:BY:38:ILE:N	2.19	0.57
57:BY:50:ARG:C	57:BY:52:SER:H	2.12	0.57
58:BZ:75:ASN:HD22	58:BZ:85:HIS:HB3	1.69	0.57
1:CA:27:G:H2'	1:CA:28:G:C8	2.40	0.57
1:CA:501:C:O2'	1:CA:502:G:H5'	2.03	0.57
1:CA:1515:C:O2'	1:CA:1516:G:H5'	2.05	0.57
11:CK:57:THR:HG22	11:CK:59:TYR:N	2.19	0.57
24:CY:258:ILE:HD12	24:CY:258:ILE:O	2.03	0.57
35:DA:289:A:H3'	35:DA:290:G:H8	1.70	0.57
35:DA:1082:U:C5'	45:DK:117:THR:HG22	2.31	0.57
35:DA:1173:G:C3'	35:DA:1174:A:H5'	2.26	0.57
35:DA:1862:G:O2'	35:DA:1863:G:H5'	2.04	0.57
35:DA:2809:A:O2'	35:DA:2810:A:H5'	2.04	0.57
38:DD:33:LEU:O	38:DD:34:VAL:C	2.46	0.57
41:DG:139:LEU:HD23	41:DG:139:LEU:N	2.19	0.57
41:DG:174:GLU:O	41:DG:176:LEU:N	2.37	0.57
42:DH:103:LEU:CG	42:DH:104:GLU:H	2.16	0.57
42:DH:159:GLU:CG	42:DH:160:LYS:H	2.13	0.57
47:DO:23:ARG:HH11	47:DO:23:ARG:HG2	1.69	0.57
49:DQ:12:GLN:HG2	49:DQ:73:PRO:HD2	1.86	0.57
50:DR:72:ASP:HB3	50:DR:75:LEU:CB	2.35	0.57
51:DS:59:LYS:HB2	51:DS:65:VAL:HG22	1.86	0.57
1:AA:235:C:H2'	1:AA:236:G:H8	1.70	0.57
1:AA:360:A:H2'	1:AA:361:G:C8	2.40	0.57
1:AA:775:G:O2'	1:AA:776:G:H5'	2.03	0.57
1:AA:778:G:O2'	1:AA:779:C:H5'	2.04	0.57
1:AA:862:C:H2'	1:AA:863:U:H5'	1.86	0.57
5:AE:107:ARG:O	5:AE:109:ILE:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:45:GLN:CA	20:AT:91:LEU:HB3	2.34	0.57
22:AV:65:G:H2'	22:AV:66:U:H6	1.69	0.57
24:AY:68:ASP:OD1	24:AY:91:LEU:HD11	2.04	0.57
24:AY:149:PHE:CD1	24:AY:173:GLY:HA3	2.40	0.57
24:AY:171:VAL:HG12	24:AY:176:ALA:HB1	1.85	0.57
24:AY:182:PRO:HB2	24:AY:325:ARG:HH12	1.69	0.57
35:BA:2127:G:H5'	37:BC:36:LYS:HG2	1.86	0.57
35:BA:2850:A:OP2	35:BA:2866:U:H5	1.87	0.57
39:BE:23:VAL:HG11	39:BE:173:VAL:HG11	1.87	0.57
41:BG:97:ASP:HA	41:BG:100:TRP:HD1	1.68	0.57
43:BI:105:HIS:C	43:BI:107:VAL:H	2.12	0.57
48:BP:112:LEU:HD22	48:BP:114:ILE:HD12	1.87	0.57
50:BR:72:ASP:HB3	50:BR:75:LEU:CB	2.35	0.57
56:BX:30:VAL:CG1	56:BX:31:HIS:H	2.14	0.57
56:BX:57:LEU:HD13	56:BX:78:LYS:O	2.05	0.57
56:BX:71:GLY:C	56:BX:72:LYS:HG3	2.29	0.57
1:CA:458:C:H2'	1:CA:460:G:C8	2.39	0.57
6:CF:94:GLN:OE1	18:CR:32:ARG:HD2	2.05	0.57
7:CG:113:GLU:HG2	7:CG:119:ARG:HG2	1.85	0.57
9:CI:100:GLY:C	9:CI:102:LEU:H	2.12	0.57
9:CI:118:LYS:NZ	9:CI:118:LYS:HB3	2.19	0.57
12:CL:90:VAL:O	12:CL:90:VAL:HG12	2.03	0.57
24:CY:22:LYS:HA	24:CY:25:ARG:HG3	1.87	0.57
24:CY:150:GLN:HB3	24:CY:172:LYS:HD2	1.87	0.57
31:D6:47:THR:HG22	31:D6:48:VAL:N	2.18	0.57
35:DA:271(P):C:H5'	59:DI:46:ALA:HB2	1.85	0.57
35:DA:473:G:P	35:DA:508:G:H22	2.28	0.57
35:DA:1496:A:C8	35:DA:1577:C:O2'	2.58	0.57
35:DA:1747:G:H2'	35:DA:1747(A):G:C8	2.39	0.57
35:DA:1783:A:C2	35:DA:2587:A:C5	2.93	0.57
35:DA:2759:G:C8	35:DA:2759:G:H5'	2.39	0.57
40:DF:65:TRP:HZ3	40:DF:73:ALA:O	1.88	0.57
41:DG:17:PRO:HG2	41:DG:18:GLU:H	1.69	0.57
41:DG:83:ARG:HD3	41:DG:84:LYS:HG3	1.86	0.57
59:DI:10:GLU:HG2	59:DI:11:ASN:N	2.19	0.57
59:DI:68:LEU:HD22	59:DI:107:ILE:CD1	2.35	0.57
51:DS:101:LEU:O	51:DS:101:LEU:HD22	2.05	0.57
52:DT:23:ARG:HA	52:DT:52:ILE:HD11	1.86	0.57
54:DV:64:HIS:ND1	54:DV:92:THR:CG2	2.61	0.57
57:DY:46:LYS:H	57:DY:62:GLU:CG	1.85	0.57
1:AA:7:G:H5'	1:AA:298:A:H5'	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:375:U:OP1	16:AP:69:THR:HG21	2.03	0.57
1:AA:834:C:H2'	1:AA:835:U:H6	1.69	0.57
1:AA:848:C:H2'	1:AA:849:C:C6	2.39	0.57
1:AA:1048:G:H5"	14:AN:2:ALA:N	2.19	0.57
8:AH:73:ASP:OD2	8:AH:75:ARG:HD3	2.05	0.57
16:AP:82:GLN:N	16:AP:82:GLN:HE21	2.02	0.57
24:AY:288:ARG:HA	24:AY:291:ARG:HB2	1.86	0.57
26:B1:46:LEU:HD21	26:B1:61:ARG:NH1	2.18	0.57
35:BA:708:C:H5'	35:BA:709:U:OP2	2.04	0.57
35:BA:1161:C:H1'	54:BV:8:GLY:O	2.05	0.57
35:BA:1688:U:H1'	35:BA:1701:A:C6	2.40	0.57
36:BB:4:C:H2'	36:BB:5:C:H6	1.70	0.57
36:BB:56:G:O2'	36:BB:57:A:OP2	2.23	0.57
40:BF:102:PRO:HB2	40:BF:105:VAL:CG2	2.35	0.57
41:BG:83:ARG:CZ	41:BG:84:LYS:HZ3	2.17	0.57
46:BN:23:LEU:CD1	46:BN:98:VAL:HG12	2.35	0.57
49:BQ:114:ALA:C	49:BQ:116:GLU:H	2.12	0.57
55:BW:29:LEU:HD21	55:BW:33:ARG:NH2	2.17	0.57
57:BY:26:LYS:HG2	57:BY:27:VAL:HG23	1.86	0.57
1:CA:79:G:C1'	1:CA:80:G:H8	2.17	0.57
1:CA:895:G:H2'	1:CA:896:C:C6	2.40	0.57
1:CA:1134:G:H2'	1:CA:1135:U:H5'	1.87	0.57
4:CD:108:LEU:O	4:CD:110:PHE:N	2.37	0.57
5:CE:41:VAL:O	5:CE:66:MET:HA	2.05	0.57
8:CH:4:ASP:OD1	8:CH:7:ALA:N	2.36	0.57
27:D2:2:LYS:HB2	27:D2:2:LYS:HZ2	1.70	0.57
30:D5:55:ARG:O	30:D5:56:LYS:HB3	2.02	0.57
31:D6:9:LEU:HD23	31:D6:9:LEU:C	2.30	0.57
34:D9:22:ARG:HH12	35:DA:2741:A:H5"	1.69	0.57
35:DA:589:C:H2'	35:DA:590:A:H8	1.69	0.57
35:DA:807:U:O2'	35:DA:808:G:H5'	2.04	0.57
35:DA:1576:U:H2'	35:DA:1577:C:C6	2.39	0.57
35:DA:2029:G:H2'	35:DA:2031:A:OP1	2.03	0.57
37:DC:58:VAL:C	37:DC:59:ARG:HD3	2.29	0.57
40:DF:29:ASN:N	40:DF:112:MET:HE3	2.19	0.57
42:DH:33:LEU:HD12	42:DH:78:GLY:HA3	1.85	0.57
47:DO:49:ARG:O	47:DO:50:GLY:O	2.22	0.57
54:DV:38:LEU:O	54:DV:51:VAL:HG13	2.04	0.57
2:AB:35:GLU:HG3	2:AB:39:ILE:O	2.04	0.57
3:AC:178:LEU:O	3:AC:180:ALA:N	2.38	0.57
9:AI:97:LYS:C	9:AI:99:LEU:N	2.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:100:GLY:C	9:AI:102:LEU:H	2.12	0.57
12:AL:34:ARG:O	12:AL:61:THR:HG23	2.05	0.57
22:AV:65:G:H2'	22:AV:66:U:C6	2.40	0.57
24:AY:188:ARG:HD3	24:AY:310:GLN:HG2	1.86	0.57
32:B7:45:ALA:O	32:B7:46:VAL:HG23	2.05	0.57
35:BA:118:A:H5'	35:BA:119:A:C8	2.36	0.57
35:BA:135:G:O2'	35:BA:136:G:H5'	2.05	0.57
35:BA:143:G:H4'	56:BX:35:THR:HG21	1.86	0.57
35:BA:191:A:O2'	35:BA:192:C:H5'	2.05	0.57
35:BA:320:A:H3'	40:BF:136:THR:CG2	2.34	0.57
35:BA:528:A:C2	35:BA:2042:A:H2'	2.39	0.57
35:BA:626:U:O2	48:BP:105:LEU:HB3	2.05	0.57
35:BA:654(U):A:O2'	35:BA:654(V):A:H5'	2.04	0.57
35:BA:1061:U:O4	45:BK:10:LEU:HA	2.04	0.57
35:BA:1192:G:O2'	35:BA:1193:G:H5'	2.05	0.57
35:BA:1270:C:H5"	35:BA:1271:G:C5'	2.35	0.57
35:BA:2123:G:H2'	35:BA:2124:G:H8	1.68	0.57
35:BA:2262:U:H2'	35:BA:2263:C:H5"	1.84	0.57
35:BA:2523:G:H8	35:BA:2523:G:H5'	1.68	0.57
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.84	0.57
35:BA:2653:U:H2'	42:BH:110:SER:HB2	1.86	0.57
38:BD:121:PRO:HB3	38:BD:135:PHE:CE2	2.40	0.57
40:BF:53:THR:C	40:BF:55:GLY:H	2.12	0.57
42:BH:25:LYS:HD2	42:BH:32:GLU:OE2	2.05	0.57
42:BH:158:HIS:O	42:BH:159:GLU:CB	2.52	0.57
52:BT:23:ARG:HA	52:BT:52:ILE:HD11	1.87	0.57
57:BY:28:LYS:NZ	57:BY:28:LYS:N	2.45	0.57
58:BZ:7:ALA:C	58:BZ:8:TYR:CD1	2.83	0.57
1:CA:577:G:H2'	1:CA:578:C:H6	1.70	0.57
1:CA:674:G:H2'	1:CA:675:A:C8	2.40	0.57
2:CB:72:GLY:HA2	2:CB:165:VAL:CG2	2.33	0.57
3:CC:62:ASP:HA	3:CC:97:LYS:NZ	2.20	0.57
8:CH:77:GLU:HG2	8:CH:78:GLN:H	1.70	0.57
8:CH:101:PRO:HG2	8:CH:133:LEU:HD11	1.87	0.57
10:CJ:78:ASN:HD22	10:CJ:81:THR:HG21	1.70	0.57
14:CN:12:ARG:C	14:CN:14:PRO:CD	2.77	0.57
24:CY:26:LEU:HD22	24:CY:48:VAL:HG21	1.86	0.57
35:DA:171:G:H2'	35:DA:172:C:C6	2.39	0.57
35:DA:1678:G:N2	35:DA:1989:G:H22	2.03	0.57
35:DA:2334:G:C4	51:DS:15:ARG:NH1	2.72	0.57
35:DA:2403:C:H42	35:DA:2414:G:H1	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2758:A:C3'	35:DA:2759:G:H5"	2.34	0.57
38:DD:158:ALA:HB3	38:DD:161:THR:HG21	1.86	0.57
38:DD:271:ILE:O	38:DD:272:ALA:CB	2.53	0.57
39:DE:69:LYS:HE3	39:DE:90:THR:N	2.15	0.57
40:DF:53:THR:HG22	40:DF:56:GLU:CD	2.30	0.57
41:DG:76:SER:HB2	41:DG:84:LYS:H	1.68	0.57
42:DH:35:VAL:CG1	42:DH:71:LEU:HD22	2.35	0.57
48:DP:95:VAL:HB	48:DP:100:LEU:HD21	1.86	0.57
52:DT:11:GLU:CD	52:DT:11:GLU:H	2.13	0.57
53:DU:101:ARG:C	53:DU:102:GLU:HG2	2.30	0.57
56:DX:48:LYS:N	56:DX:48:LYS:HD2	2.19	0.57
57:DY:97:ARG:CZ	57:DY:98:VAL:HG23	2.33	0.57
1:AA:370:C:O2	1:AA:370:C:C2'	2.52	0.57
1:AA:543:C:O2'	1:AA:544:G:H5'	2.04	0.57
1:AA:862:C:O2'	1:AA:863:U:H5'	2.05	0.57
1:AA:1060:C:O4'	10:AJ:52:GLY:HA2	2.05	0.57
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.70	0.57
4:AD:133:VAL:HG11	4:AD:138:TYR:CD1	2.25	0.57
5:AE:101:ILE:H	5:AE:101:ILE:CD1	2.16	0.57
12:AL:47:LYS:CG	12:AL:48:PRO:HD3	2.33	0.57
12:AL:53:ARG:HB3	12:AL:93:LEU:HD11	1.86	0.57
19:AS:41:VAL:HB	19:AS:44:MET:SD	2.44	0.57
20:AT:14:LYS:O	20:AT:18:GLN:HG3	2.05	0.57
22:AW:19:G:H4'	22:AW:20:U:OP2	2.04	0.57
25:B0:53:MET:HB3	25:B0:59:LEU:CD2	2.32	0.57
31:B6:18:ARG:CZ	31:B6:43:CYS:SG	2.93	0.57
35:BA:70:G:H21	35:BA:71:A:H62	1.50	0.57
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.39	0.57
35:BA:1644:C:O2	35:BA:1644:C:H2'	2.03	0.57
35:BA:1754:C:OP1	52:BT:96:ARG:NH1	2.38	0.57
41:BG:29:TRP:C	41:BG:31:VAL:H	2.12	0.57
41:BG:82:LEU:HD23	41:BG:83:ARG:N	2.19	0.57
42:BH:35:VAL:CG1	42:BH:71:LEU:HD22	2.35	0.57
42:BH:40:GLU:O	42:BH:41:MET:HB2	2.04	0.57
48:BP:91:PHE:CE2	48:BP:95:VAL:HG12	2.39	0.57
50:BR:24:GLN:HB3	50:BR:44:LEU:CD2	2.34	0.57
57:BY:2:ARG:CD	57:BY:3:VAL:HG23	2.27	0.57
1:CA:555:C:OP1	12:CL:20:LYS:HD2	2.04	0.57
1:CA:636:U:C5'	17:CQ:2:PRO:HG3	2.35	0.57
1:CA:952:U:H2'	1:CA:953:G:H8	1.70	0.57
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:167:TRP:CG	3:CC:168:ALA:H	2.22	0.57
17:CQ:91:ARG:HG2	17:CQ:91:ARG:NH1	2.20	0.57
20:CT:45:GLN:CA	20:CT:91:LEU:HB3	2.34	0.57
22:CW:68:C:H2'	22:CW:69:G:H8	1.70	0.57
24:CY:87:LEU:O	24:CY:87:LEU:HD23	2.05	0.57
24:CY:132:TRP:HE3	24:CY:135:MET:HE3	1.70	0.57
35:DA:708:C:H5'	35:DA:709:U:OP2	2.05	0.57
35:DA:1056:G:H5"	35:DA:1057:A:H5'	1.85	0.57
35:DA:1188:U:H4'	54:DV:79:VAL:HG13	1.87	0.57
35:DA:1469:A:O2'	35:DA:1470:G:H5'	2.04	0.57
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.03	0.57
38:DD:35:LYS:HZ3	38:DD:103:ARG:HA	1.68	0.57
40:DF:3:GLU:HB2	40:DF:24:LEU:HD23	1.85	0.57
40:DF:102:PRO:HB2	40:DF:105:VAL:CG2	2.34	0.57
59:DI:81:VAL:HA	59:DI:145:VAL:C	2.29	0.57
57:DY:28:LYS:O	57:DY:29:GLU:C	2.47	0.57
58:DZ:152:ALA:HB2	58:DZ:168:GLU:HA	1.85	0.57
1:AA:423:G:H2'	1:AA:424:G:C5'	2.35	0.57
1:AA:880:C:O2'	1:AA:881:G:H5'	2.04	0.57
2:AB:80:ILE:HD11	2:AB:211:ILE:HB	1.87	0.57
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.30	0.57
10:AJ:48:THR:HG23	10:AJ:62:HIS:CB	2.34	0.57
24:AY:65:LEU:CD1	24:AY:98:LEU:HD22	2.35	0.57
28:B3:2:PRO:HG2	28:B3:4:LEU:HG	1.86	0.57
30:B5:35:GLU:HB2	30:B5:49:CYS:HB2	1.85	0.57
31:B6:28:ARG:CA	31:B6:32:ASN:HD22	2.08	0.57
35:BA:1056:G:H5"	35:BA:1057:A:H5'	1.86	0.57
35:BA:1087:G:H1	35:BA:1102:C:H42	1.52	0.57
35:BA:1345:C:H2'	35:BA:1346:G:H8	1.69	0.57
38:BD:95:LEU:HD13	38:BD:97:TYR:HE1	1.70	0.57
39:BE:24:THR:HB	39:BE:186:GLY:HA2	1.87	0.57
40:BF:25:PRO:HG3	40:BF:119:ARG:CB	2.35	0.57
45:BK:99:ILE:O	45:BK:139:VAL:HG23	2.03	0.57
52:BT:31:SER:OG	52:BT:43:GLN:N	2.38	0.57
58:BZ:104:PHE:O	58:BZ:105:VAL:HG12	2.04	0.57
1:CA:1203:C:O2'	1:CA:1204:A:H5'	2.05	0.57
1:CA:1349:A:H2'	1:CA:1350:A:H8	1.69	0.57
2:CB:67:THR:HG21	2:CB:155:LEU:HG	1.87	0.57
2:CB:181:PHE:CE1	8:CH:70:GLN:HB3	2.39	0.57
3:CC:157:ILE:HD11	3:CC:166:GLU:N	2.20	0.57
5:CE:33:VAL:HG11	5:CE:109:ILE:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:1:MET:HE2	6:CF:1:MET:N	2.20	0.57
8:CH:20:TYR:CE2	8:CH:75:ARG:HB3	2.40	0.57
8:CH:39:LEU:O	8:CH:44:PHE:HB2	2.04	0.57
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.35	0.57
16:CP:71:ARG:HB3	16:CP:71:ARG:NH1	2.20	0.57
16:CP:71:ARG:HB3	16:CP:71:ARG:HH11	1.70	0.57
20:CT:57:ARG:NH1	20:CT:102:GLY:HA2	2.20	0.57
22:CV:71:G:O2'	22:CV:72:C:H5"	2.04	0.57
35:DA:1946:U:H2'	35:DA:1947:C:C6	2.40	0.57
38:DD:40:THR:HG22	38:DD:41:GLY:N	2.20	0.57
59:DI:125:GLU:HA	59:DI:143:SER:HA	1.87	0.57
44:DJ:102:UNK:HA	44:DJ:106:UNK:CB	2.35	0.57
46:DN:89:LYS:O	46:DN:93:THR:HG22	2.04	0.57
48:DP:62:LEU:H	48:DP:62:LEU:HD22	1.70	0.57
1:AA:243:A:H4'	1:AA:244:U:O5'	2.05	0.56
1:AA:596:C:H2'	1:AA:597:G:H8	1.70	0.56
1:AA:840:C:H5"	1:AA:841:U:OP1	2.05	0.56
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.35	0.56
5:AE:42:GLY:HA2	5:AE:65:ASN:O	2.05	0.56
6:AF:6:VAL:C	6:AF:7:ASN:HD22	2.12	0.56
8:AH:77:GLU:HG2	8:AH:78:GLN:H	1.70	0.56
11:AK:57:THR:HG22	11:AK:59:TYR:N	2.20	0.56
35:BA:558:G:P	46:BN:111:PRO:HD2	2.45	0.56
35:BA:821:A:C2'	35:BA:946:G:H5"	2.35	0.56
35:BA:1782:C:H5'	35:BA:2609:U:N3	2.19	0.56
35:BA:1952:A:C5	47:BO:22:ILE:HD12	2.40	0.56
38:BD:35:LYS:HZ3	38:BD:103:ARG:HA	1.69	0.56
38:BD:71:ASP:HB2	38:BD:103:ARG:NH2	2.19	0.56
40:BF:133:ASN:O	40:BF:135:LYS:N	2.38	0.56
42:BH:126:PRO:O	42:BH:127:GLU:CB	2.53	0.56
42:BH:153:LYS:H	42:BH:153:LYS:CD	2.18	0.56
43:BI:5:LEU:HD13	43:BI:36:ALA:HB2	1.86	0.56
43:BI:104:GLN:C	43:BI:105:HIS:ND1	2.63	0.56
46:BN:58:ASP:OD2	46:BN:59:LYS:HG2	2.05	0.56
50:BR:10:LEU:CD2	50:BR:17:ARG:HD2	2.35	0.56
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.27	0.56
55:BW:9:TYR:H	55:BW:102:HIS:CD2	2.23	0.56
1:CA:68:G:C2	1:CA:69:G:H1'	2.40	0.56
19:CS:58:VAL:O	19:CS:58:VAL:HG23	2.04	0.56
20:CT:10:LEU:HG	20:CT:12:ALA:H	1.70	0.56
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:74:C:H2'	22:CV:75:C:H5'	1.86	0.56
24:CY:32:ARG:HH11	24:CY:32:ARG:HG3	1.69	0.56
26:D1:82:LEU:C	26:D1:83:GLU:HG3	2.29	0.56
33:D8:50:LEU:C	33:D8:53:PRO:HD2	2.30	0.56
35:DA:144:C:O2'	35:DA:145:G:H5'	2.05	0.56
35:DA:221:A:H4'	35:DA:222:A:O5'	2.05	0.56
35:DA:997:G:OP1	53:DU:93:LYS:HD3	2.05	0.56
35:DA:1578:U:H2'	35:DA:1579:A:H5'	1.87	0.56
35:DA:1713:U:O2'	35:DA:1714:G:H5'	2.05	0.56
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	2.20	0.56
41:DG:11:TYR:HA	41:DG:15:VAL:HB	1.87	0.56
41:DG:111:LEU:HA	41:DG:114:ILE:CD1	2.35	0.56
42:DH:153:LYS:H	42:DH:153:LYS:CD	2.18	0.56
45:DK:93:ARG:N	58:DZ:112:ARG:NH2	2.48	0.56
50:DR:107:ASP:C	50:DR:107:ASP:OD2	2.46	0.56
51:DS:88:ASP:OD2	51:DS:89:ARG:N	2.38	0.56
53:DU:92:ARG:CD	54:DV:11:GLN:HG2	2.34	0.56
58:DZ:27:VAL:CG1	58:DZ:87:ASP:HB3	2.35	0.56
1:AA:197:A:N6	1:AA:221:C:H5'	2.19	0.56
1:AA:508:C:H4'	1:AA:509:A:O5'	2.05	0.56
1:AA:939:G:H1	1:AA:1344:C:H42	1.52	0.56
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.40	0.56
2:AB:82:ARG:HA	2:AB:92:TYR:CD1	2.40	0.56
6:AF:24:GLU:HG3	6:AF:25:ILE:N	2.21	0.56
9:AI:103:THR:HG22	9:AI:104:ARG:N	2.20	0.56
10:AJ:3:LYS:HB3	10:AJ:77:PRO:HD3	1.87	0.56
10:AJ:13:HIS:C	10:AJ:15:THR:H	2.13	0.56
12:AL:60:LEU:HD22	12:AL:60:LEU:H	1.69	0.56
17:AQ:48:GLU:HB2	17:AQ:50:LYS:HG2	1.87	0.56
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.35	0.56
34:B9:29:ASN:HD21	34:B9:32:HIS:CG	2.23	0.56
35:BA:676:A:H8	35:BA:2069:G:N2	1.99	0.56
35:BA:1468:C:H2'	35:BA:1469:A:C8	2.37	0.56
35:BA:2683:C:OP1	52:BT:53:ARG:NH2	2.35	0.56
35:BA:2720:U:O2	35:BA:2720:U:H2'	2.05	0.56
37:BC:58:VAL:C	37:BC:59:ARG:HD3	2.30	0.56
40:BF:192:LEU:HD23	40:BF:193:VAL:N	2.21	0.56
43:BI:145:VAL:HG12	43:BI:146:ALA:N	2.19	0.56
49:BQ:21:THR:HG21	49:BQ:101:ARG:HD2	1.87	0.56
49:BQ:32:TYR:OH	49:BQ:111:GLU:HB3	2.05	0.56
51:BS:49:VAL:HG12	51:BS:50:SER:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:54:LYS:O	53:BU:58:ARG:HG3	2.05	0.56
1:CA:254:G:O2'	1:CA:255:G:H5'	2.05	0.56
1:CA:862:C:O2'	1:CA:863:U:H5'	2.05	0.56
1:CA:1048:G:H5"	14:CN:2:ALA:N	2.20	0.56
5:CE:107:ARG:O	5:CE:109:ILE:N	2.38	0.56
7:CG:145:ALA:O	7:CG:146:GLU:HB3	2.04	0.56
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.19	0.56
8:CH:11:THR:CG2	8:CH:15:ASN:HD21	2.16	0.56
9:CI:85:LEU:O	9:CI:89:ASN:HB2	2.05	0.56
24:CY:109:PHE:O	24:CY:110:PRO:O	2.22	0.56
24:CY:141:THR:HG22	24:CY:145:GLU:OE1	2.05	0.56
26:D1:81:LYS:CE	35:DA:271(H):G:C4'	2.76	0.56
27:D2:15:LYS:O	27:D2:15:LYS:HG3	2.05	0.56
34:D9:15:LYS:HZ1	35:DA:2753:A:H1'	1.70	0.56
35:DA:877:U:C2'	35:DA:878:A:H5"	2.35	0.56
35:DA:908:C:O2'	35:DA:909:A:H5'	2.05	0.56
35:DA:2773:C:H2'	35:DA:2774:C:H6	1.70	0.56
35:DA:2819:G:H1	35:DA:2827:C:H42	1.52	0.56
36:DB:40:U:H1'	36:DB:45:A:N6	2.20	0.56
39:DE:82:ARG:O	39:DE:84:PHE:N	2.36	0.56
40:DF:53:THR:C	40:DF:55:GLY:H	2.11	0.56
40:DF:160:ASN:CG	40:DF:163:VAL:HG23	2.31	0.56
41:DG:34:LEU:CD1	41:DG:172:LEU:HD21	2.35	0.56
59:DI:29:TYR:O	59:DI:32:PRO:HD2	2.05	0.56
45:DK:41:PHE:C	45:DK:43:ALA:H	2.13	0.56
51:DS:106:ARG:HD2	51:DS:106:ARG:C	2.30	0.56
1:AA:17:U:H2'	1:AA:18:C:H6	1.67	0.56
1:AA:82:U:O2'	1:AA:83:U:H5'	2.05	0.56
1:AA:219:C:H2'	1:AA:220:G:O4'	2.06	0.56
1:AA:428:G:H4'	1:AA:429:U:O5'	2.05	0.56
1:AA:532:A:H2	1:AA:1207:G:H1'	1.70	0.56
1:AA:900:A:H2'	1:AA:901:A:C8	2.39	0.56
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.39	0.56
1:AA:1498:U:C2'	23:AX:20:U:OP1	2.53	0.56
2:AB:67:THR:HG21	2:AB:155:LEU:HG	1.87	0.56
3:AC:34:LEU:O	3:AC:37:GLN:HB2	2.05	0.56
3:AC:172:ARG:HH11	3:AC:172:ARG:HB3	1.70	0.56
6:AF:1:MET:HE2	6:AF:1:MET:N	2.19	0.56
8:AH:4:ASP:OD1	8:AH:7:ALA:N	2.36	0.56
10:AJ:31:GLY:HA3	10:AJ:78:ASN:ND2	2.20	0.56
11:AK:21:ILE:HD12	11:AK:21:ILE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:25:PRO:C	12:AL:27:LEU:H	2.10	0.56
13:AM:44:ARG:HB3	13:AM:46:LYS:HG2	1.88	0.56
17:AQ:76:LEU:HG	17:AQ:77:VAL:N	2.20	0.56
19:AS:6:LYS:HE3	19:AS:6:LYS:N	2.19	0.56
20:AT:10:LEU:HG	20:AT:12:ALA:H	1.70	0.56
20:AT:26:ASN:ND2	20:AT:27:LYS:N	2.52	0.56
22:AV:71:G:C3'	22:AV:72:C:H5"	2.35	0.56
24:AY:33:LEU:HB3	24:AY:36:PRO:HG2	1.87	0.56
24:AY:214:VAL:CG1	24:AY:215:ASP:H	2.12	0.56
24:AY:272:LYS:O	24:AY:275:ALA:HB3	2.05	0.56
27:B2:3:LEU:HD13	27:B2:3:LEU:C	2.30	0.56
27:B2:22:GLU:O	27:B2:26:ARG:HG3	2.05	0.56
28:B3:1:MET:SD	28:B3:38:GLU:HG3	2.45	0.56
29:B4:60:GLU:O	29:B4:61:VAL:C	2.49	0.56
31:B6:47:THR:HG22	31:B6:48:VAL:N	2.19	0.56
33:B8:32:LEU:HD11	35:BA:2391:G:H3'	1.88	0.56
34:B9:22:ARG:HH12	35:BA:2741:A:H5"	1.69	0.56
35:BA:8:A:H2'	35:BA:9:U:H5	1.68	0.56
35:BA:17:G:H4'	53:BU:25:TRP:CZ3	2.41	0.56
35:BA:613:G:C5'	35:BA:613:G:C8	2.88	0.56
35:BA:613:G:C8	35:BA:613:G:H5'	2.40	0.56
35:BA:654(Q):C:H2'	35:BA:654(R):C:C6	2.41	0.56
35:BA:962:G:O2'	35:BA:963:U:H5'	2.05	0.56
35:BA:1177:A:H4'	35:BA:1178:C:C6	2.39	0.56
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.05	0.56
35:BA:2195:C:O2'	35:BA:2196:C:H5'	2.05	0.56
35:BA:2303:G:H1'	41:BG:132:ASN:ND2	2.20	0.56
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.40	0.56
35:BA:2617:C:C2'	35:BA:2618:G:H5'	2.35	0.56
35:BA:2747:G:O6	35:BA:2755:C:H5"	2.05	0.56
35:BA:2759:G:H5'	35:BA:2759:G:C8	2.39	0.56
36:BB:38:C:O2	36:BB:48:A:H1'	2.06	0.56
39:BE:39:PRO:HA	39:BE:43:GLY:HA2	1.88	0.56
40:BF:88:VAL:HG11	40:BF:91:GLY:HA3	1.87	0.56
40:BF:160:ASN:C	40:BF:160:ASN:HD22	2.12	0.56
40:BF:198:ALA:C	40:BF:200:GLU:N	2.62	0.56
41:BG:61:ALA:C	41:BG:63:ILE:H	2.13	0.56
43:BI:68:LEU:O	43:BI:72:LEU:HD23	2.06	0.56
45:BK:57:ILE:HG13	45:BK:67:PHE:HB3	1.86	0.56
48:BP:10:PRO:CD	48:BP:11:GLY:H	2.19	0.56
49:BQ:12:GLN:HG2	49:BQ:73:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:108:GLU:O	53:BU:112:ARG:HG2	2.04	0.56
54:BV:28:GLU:HB2	54:BV:31:ALA:HB2	1.88	0.56
55:BW:29:LEU:HD11	55:BW:33:ARG:HE	1.70	0.56
58:BZ:61:LEU:H	58:BZ:61:LEU:CD2	2.19	0.56
1:CA:133:U:OP1	20:CT:74:LYS:HE2	2.05	0.56
1:CA:341:C:O2'	1:CA:342:C:H5'	2.05	0.56
1:CA:390:C:H2'	1:CA:391:G:H8	1.68	0.56
1:CA:444:C:H2'	1:CA:445:G:C8	2.39	0.56
1:CA:596:C:H2'	1:CA:597:G:H8	1.70	0.56
1:CA:923:A:OP1	5:CE:21:ALA:HB2	2.05	0.56
1:CA:940:C:H2'	1:CA:941:G:H8	1.70	0.56
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.69	0.56
1:CA:1105:A:H2'	1:CA:1106:G:C8	2.39	0.56
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.05	0.56
1:CA:1255:G:H3'	1:CA:1279:A:H62	1.70	0.56
1:CA:1331:G:OP2	13:CM:23:TYR:HD2	1.87	0.56
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.87	0.56
2:CB:132:LYS:O	2:CB:136:VAL:HG23	2.06	0.56
3:CC:167:TRP:O	3:CC:168:ALA:CB	2.52	0.56
4:CD:138:TYR:C	4:CD:138:TYR:HD2	2.12	0.56
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.70	0.56
6:CF:100:ASN:O	18:CR:28:GLU:HG2	2.06	0.56
11:CK:19:ALA:CB	11:CK:32:ILE:HG23	2.35	0.56
12:CL:38:THR:HG22	12:CL:39:VAL:HG23	1.87	0.56
17:CQ:57:VAL:HG21	17:CQ:73:VAL:HG13	1.86	0.56
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.70	0.56
18:CR:67:ALA:HA	18:CR:70:ILE:HG12	1.87	0.56
19:CS:9:VAL:O	19:CS:9:VAL:HG12	2.04	0.56
22:CV:2:C:H2'	22:CV:3:C:C5'	2.35	0.56
22:CV:45:U:H2'	22:CV:46:G:H5'	1.86	0.56
24:CY:297:ALA:C	24:CY:299:ARG:H	2.12	0.56
24:CY:301:GLU:O	24:CY:302:VAL:HG13	2.05	0.56
28:D3:45:GLY:O	28:D3:48:GLU:HB2	2.06	0.56
29:D4:60:GLU:O	29:D4:61:VAL:C	2.48	0.56
31:D6:40:CYS:HA	31:D6:46:HIS:H	1.71	0.56
32:D7:36:GLN:HG2	32:D7:36:GLN:O	2.04	0.56
35:DA:157:U:H5'	35:DA:171:G:N2	2.19	0.56
35:DA:321:G:OP2	40:DF:136:THR:HG22	2.05	0.56
35:DA:324:A:O2'	35:DA:325:G:H5'	2.05	0.56
35:DA:464:U:H2'	35:DA:465:G:O4'	2.05	0.56
35:DA:470:A:H8	35:DA:470:A:H5'	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:483:A:O3'	57:DY:49:VAL:HG11	2.06	0.56
35:DA:564:C:O2'	35:DA:565:C:H5'	2.06	0.56
35:DA:661:C:C4'	48:DP:16:ARG:HD3	2.35	0.56
35:DA:1047:G:N2	35:DA:1110:G:C8	2.73	0.56
35:DA:1625:C:H2'	35:DA:1626:G:O4'	2.06	0.56
35:DA:2082:A:H2'	35:DA:2083:G:O4'	2.05	0.56
35:DA:2107:C:H2'	35:DA:2108:C:O4'	2.05	0.56
35:DA:2174:C:H2'	35:DA:2175:C:O4'	2.04	0.56
35:DA:2334:G:H21	51:DS:18:ILE:CD1	2.18	0.56
35:DA:2848:G:H3'	52:DT:95:ARG:O	2.06	0.56
38:DD:25:THR:HG22	38:DD:82:ILE:O	2.05	0.56
38:DD:34:VAL:O	38:DD:34:VAL:HG13	2.05	0.56
38:DD:92:ILE:HG22	38:DD:93:ALA:N	2.20	0.56
39:DE:4:ILE:HD11	39:DE:28:ALA:HB1	1.87	0.56
39:DE:117:MET:CE	39:DE:124:GLY:HA3	2.35	0.56
42:DH:17:VAL:HB	42:DH:45:VAL:HG13	1.87	0.56
42:DH:103:LEU:HG	42:DH:104:GLU:N	2.20	0.56
59:DI:75:LEU:HD22	59:DI:141:LYS:HG3	1.86	0.56
59:DI:111:PRO:O	59:DI:113:ARG:N	2.38	0.56
47:DO:104:ARG:HH21	52:DT:33:LYS:HE2	1.70	0.56
48:DP:138:LEU:C	48:DP:140:ALA:N	2.62	0.56
48:DP:140:ALA:O	48:DP:141:ALA:CB	2.53	0.56
51:DS:89:ARG:HH11	51:DS:92:TYR:CA	2.12	0.56
55:DW:9:TYR:H	55:DW:102:HIS:CD2	2.23	0.56
56:DX:30:VAL:HG21	56:DX:79:ALA:HB3	1.86	0.56
58:DZ:135:GLU:O	58:DZ:136:PHE:HB3	2.04	0.56
58:DZ:171:ILE:O	58:DZ:172:ALA:HB2	2.05	0.56
1:AA:68:G:C2	1:AA:69:G:H1'	2.40	0.56
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.39	0.56
4:AD:131:ARG:HD3	4:AD:131:ARG:N	2.16	0.56
8:AH:84:ARG:NH1	8:AH:86:ILE:HD13	2.19	0.56
9:AI:79:LEU:HD11	9:AI:83:ARG:CZ	2.35	0.56
9:AI:97:LYS:CB	9:AI:98:PRO:HD3	2.36	0.56
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.62	0.56
12:AL:59:ARG:HH11	12:AL:65:GLU:CG	2.18	0.56
14:AN:13:THR:HG22	14:AN:13:THR:O	2.05	0.56
22:AV:20:U:C2'	22:AV:21:A:H5'	2.36	0.56
30:B5:47:PRO:O	30:B5:48:GLU:HG3	2.05	0.56
34:B9:10:ILE:HG23	35:BA:2477:C:H41	1.69	0.56
35:BA:157:U:H5'	35:BA:171:G:N2	2.19	0.56
35:BA:289:A:H3'	35:BA:290:G:H8	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1278:A:O3'	50:BR:34:ILE:HG23	2.04	0.56
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.40	0.56
35:BA:1496:A:C8	35:BA:1577:C:O2'	2.59	0.56
35:BA:2473:U:H2'	35:BA:2474:C:H5'	1.88	0.56
36:BB:30:C:H4'	36:BB:58:A:H2	1.70	0.56
38:BD:244:ARG:CD	38:BD:245:PRO:HB3	2.35	0.56
40:BF:65:TRP:HZ3	40:BF:73:ALA:O	1.89	0.56
41:BG:109:VAL:O	41:BG:113:ARG:HG3	2.06	0.56
42:BH:94:TYR:CZ	42:BH:160:LYS:HD2	2.40	0.56
56:BX:57:LEU:HD21	56:BX:78:LYS:HD2	1.87	0.56
1:CA:1349:A:H2'	1:CA:1350:A:C8	2.40	0.56
2:CB:194:PRO:O	2:CB:196:LEU:N	2.38	0.56
3:CC:89:GLU:HG3	3:CC:93:LYS:HZ2	1.69	0.56
4:CD:26:CYS:HA	4:CD:31:CYS:HB2	1.86	0.56
4:CD:131:ARG:H	4:CD:131:ARG:CD	2.16	0.56
4:CD:145:GLU:HG2	4:CD:184:LYS:NZ	2.20	0.56
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.86	0.56
6:CF:14:LEU:HD22	6:CF:18:GLN:NE2	2.20	0.56
7:CG:115:ARG:HB2	7:CG:118:VAL:CG2	2.34	0.56
16:CP:64:ALA:O	16:CP:65:GLN:C	2.49	0.56
19:CS:6:LYS:HE3	19:CS:6:LYS:N	2.18	0.56
22:CV:1:G:H2'	22:CV:2:C:C6	2.38	0.56
24:CY:15:GLY:O	24:CY:19:ILE:HG12	2.05	0.56
25:D0:65:GLY:HA2	25:D0:84:LEU:HD11	1.88	0.56
27:D2:3:LEU:O	27:D2:7:ARG:HD2	2.05	0.56
35:DA:284:U:H2'	35:DA:285:C:H6	1.69	0.56
35:DA:390:A:N6	48:DP:71:VAL:HG21	2.20	0.56
35:DA:654(U):A:O2'	35:DA:654(V):A:H5'	2.05	0.56
35:DA:1210:A:H5'	35:DA:1212:G:O4'	2.06	0.56
35:DA:1270:C:H5"	35:DA:1271:G:C5'	2.36	0.56
35:DA:1782:C:H5'	35:DA:2609:U:N3	2.20	0.56
35:DA:2123:G:H2'	35:DA:2124:G:H8	1.67	0.56
35:DA:2577:A:H5"	35:DA:2578:G:H5'	1.87	0.56
38:DD:106:ILE:HD11	38:DD:143:HIS:CD2	2.40	0.56
42:DH:159:GLU:CG	42:DH:160:LYS:N	2.69	0.56
45:DK:102:GLU:HG2	45:DK:103:GLN:H	1.69	0.56
45:DK:131:ALA:C	45:DK:133:SER:H	2.12	0.56
50:DR:24:GLN:HB3	50:DR:44:LEU:CD2	2.34	0.56
1:AA:494:U:H2'	1:AA:495:A:H5'	1.86	0.56
1:AA:1255:G:H3'	1:AA:1279:A:H62	1.71	0.56
4:AD:68:TYR:CE2	4:AD:97:LEU:HD22	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:201:GLN:O	4:AD:204:ILE:HB	2.06	0.56
5:AE:80:ILE:HA	8:AH:104:ARG:NH2	2.20	0.56
24:AY:191:ARG:HE	24:AY:194:PRO:HD3	1.71	0.56
27:B2:38:GLN:NE2	27:B2:44:LEU:HD13	2.20	0.56
27:B2:57:ILE:O	27:B2:58:ALA:C	2.47	0.56
34:B9:35:ARG:HG2	34:B9:36:GLN:N	2.20	0.56
35:BA:1047:G:N2	35:BA:1110:G:C8	2.73	0.56
35:BA:1490:A:H5'	35:BA:1491:G:OP2	2.05	0.56
35:BA:2107:C:H2'	35:BA:2108:C:O4'	2.06	0.56
35:BA:2692:C:H2'	35:BA:2693:A:H8	1.70	0.56
41:BG:7:LEU:HD23	41:BG:10:LYS:HD3	1.86	0.56
42:BH:40:GLU:HB3	42:BH:41:MET:SD	2.46	0.56
42:BH:60:ARG:NH1	42:BH:64:LEU:HD21	2.16	0.56
42:BH:157:TYR:HE1	42:BH:171:LEU:N	2.01	0.56
43:BI:92:VAL:HG22	43:BI:92:VAL:O	2.05	0.56
46:BN:24:GLY:O	46:BN:28:THR:HG22	2.06	0.56
51:BS:101:LEU:O	51:BS:106:ARG:NH2	2.38	0.56
52:BT:29:ARG:HG2	52:BT:86:ILE:O	2.06	0.56
55:BW:25:ARG:HB2	55:BW:25:ARG:NH1	2.20	0.56
1:CA:501:C:H1'	1:CA:549:C:H1'	1.88	0.56
1:CA:1514:C:O2'	1:CA:1515:C:H5'	2.05	0.56
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.19	0.56
3:CC:73:PRO:O	3:CC:76:VAL:HG22	2.05	0.56
7:CG:148:ASN:C	7:CG:150:ALA:N	2.64	0.56
9:CI:32:ASP:HB3	9:CI:35:GLU:CB	2.35	0.56
19:CS:63:THR:H	19:CS:66:MET:CE	2.10	0.56
20:CT:25:ARG:O	20:CT:29:LYS:HE3	2.04	0.56
20:CT:46:GLU:HG2	20:CT:46:GLU:O	2.04	0.56
22:CW:20:U:H2'	22:CW:21:A:H4'	1.88	0.56
35:DA:70:G:H21	35:DA:71:A:H62	1.52	0.56
35:DA:558:G:P	46:DN:111:PRO:HD2	2.44	0.56
35:DA:613:G:C5'	35:DA:613:G:C8	2.89	0.56
35:DA:2392:A:H2	35:DA:2424:C:N4	2.04	0.56
35:DA:2830:G:H5'	39:DE:58:ARG:NH2	2.19	0.56
38:DD:33:LEU:O	38:DD:36:PRO:HD3	2.06	0.56
39:DE:24:THR:HB	39:DE:186:GLY:HA2	1.86	0.56
42:DH:170:ARG:H	42:DH:170:ARG:CD	2.17	0.56
55:DW:84:ARG:HB2	55:DW:96:ILE:HG22	1.87	0.56
57:DY:26:LYS:HG2	57:DY:27:VAL:HG23	1.87	0.56
58:DZ:23:LYS:N	58:DZ:23:LYS:HD2	2.20	0.56
1:AA:79:G:C1'	1:AA:80:G:H8	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:355:C:C2	1:AA:356:A:N7	2.73	0.56
1:AA:926:G:C6	1:AA:1505:G:C6	2.94	0.56
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.70	0.56
1:AA:1405:G:O2'	1:AA:1406:U:H5'	2.06	0.56
2:AB:42:ILE:HD13	2:AB:203:GLY:HA2	1.88	0.56
4:AD:138:TYR:HD2	4:AD:138:TYR:C	2.13	0.56
24:AY:214:VAL:HG13	24:AY:215:ASP:N	2.09	0.56
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.38	0.56
35:BA:564:C:O2'	35:BA:565:C:H5'	2.06	0.56
35:BA:997:G:OP1	53:BU:93:LYS:HD3	2.04	0.56
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.40	0.56
35:BA:1508:A:N3	35:BA:1508:A:H2'	2.19	0.56
35:BA:1607:C:H4'	35:BA:1608:A:O5'	2.06	0.56
35:BA:1652:A:C2'	35:BA:1653:G:H5'	2.36	0.56
35:BA:2127:G:O2'	35:BA:2173:A:H2	1.88	0.56
35:BA:2188:C:H2'	35:BA:2189:U:O4'	2.04	0.56
35:BA:2746:U:H5"	42:BH:138:LYS:HE2	1.88	0.56
35:BA:2819:G:H1	35:BA:2827:C:H42	1.52	0.56
40:BF:160:ASN:CG	40:BF:163:VAL:HG23	2.31	0.56
43:BI:2:LYS:O	43:BI:39:ALA:HB3	2.06	0.56
43:BI:29:TYR:CD2	43:BI:30:LEU:HD23	2.41	0.56
48:BP:148:LEU:H	48:BP:148:LEU:HD13	1.71	0.56
51:BS:96:GLY:C	51:BS:98:VAL:H	2.12	0.56
52:BT:28:VAL:HG22	52:BT:46:GLU:HA	1.88	0.56
52:BT:128:GLU:O	52:BT:129:ARG:C	2.48	0.56
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	2.05	0.56
1:CA:6:G:H4'	1:CA:298:A:H4'	1.88	0.56
1:CA:148:G:H2'	1:CA:149:A:H8	1.70	0.56
1:CA:607:A:C2	16:CP:31:LYS:HG3	2.41	0.56
1:CA:636:U:H5'	17:CQ:2:PRO:HG3	1.86	0.56
4:CD:128:VAL:O	4:CD:130:GLY:N	2.39	0.56
4:CD:131:ARG:HD3	4:CD:131:ARG:N	2.18	0.56
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.35	0.56
9:CI:32:ASP:HB3	9:CI:35:GLU:HB2	1.87	0.56
11:CK:34:ASP:OD2	11:CK:36:ASP:HB2	2.06	0.56
12:CL:59:ARG:HH11	12:CL:65:GLU:CG	2.16	0.56
20:CT:14:LYS:O	20:CT:18:GLN:HG3	2.05	0.56
33:D8:34:TRP:CB	35:DA:2420:C:OP1	2.48	0.56
35:DA:573:G:O2'	35:DA:574:C:H3'	2.06	0.56
35:DA:1058:G:H5"	45:DK:1:MET:SD	2.45	0.56
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2098:U:H2'	35:DA:2099:U:H6	1.71	0.56
35:DA:2473:U:H2'	35:DA:2474:C:H5'	1.88	0.56
39:DE:23:VAL:HG11	39:DE:173:VAL:HG11	1.88	0.56
39:DE:77:ILE:CG2	39:DE:78:LEU:HD23	2.35	0.56
42:DH:72:ILE:O	42:DH:75:ALA:HB3	2.05	0.56
46:DN:6:PRO:HG2	46:DN:41:ASP:O	2.05	0.56
46:DN:119:ARG:CG	46:DN:119:ARG:HH11	2.18	0.56
48:DP:147:LEU:CG	48:DP:148:LEU:N	2.69	0.56
54:DV:28:GLU:HB2	54:DV:31:ALA:HB2	1.88	0.56
54:DV:47:VAL:HG13	54:DV:52:VAL:N	2.20	0.56
55:DW:22:ASP:HA	55:DW:25:ARG:HH12	1.70	0.56
1:AA:555:C:H2'	1:AA:556:C:C6	2.32	0.56
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.88	0.56
3:AC:5:ILE:HD12	3:AC:5:ILE:O	2.06	0.56
3:AC:22:TRP:CZ3	3:AC:24:ALA:HB2	2.40	0.56
3:AC:25:GLY:C	3:AC:27:LYS:H	2.14	0.56
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.36	0.56
11:AK:99:GLN:OE1	11:AK:105:VAL:HG21	2.06	0.56
12:AL:71:PRO:O	12:AL:102:ARG:HD2	2.05	0.56
12:AL:83:VAL:HG21	12:AL:100:ILE:HG23	1.88	0.56
22:AV:63:G:H2'	22:AV:64:A:O4'	2.06	0.56
26:B1:86:SER:CB	26:B1:89:GLU:HB2	2.27	0.56
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.54	0.56
34:B9:17:ILE:HD11	35:BA:2754:U:H1'	1.86	0.56
35:BA:464:U:H2'	35:BA:465:G:O4'	2.04	0.56
35:BA:740:U:H5'	35:BA:740:U:H6	1.71	0.56
35:BA:1111:A:N3	35:BA:1112:G:H1'	2.21	0.56
35:BA:1882:C:H5'	35:BA:1883:G:OP2	2.05	0.56
35:BA:2098:U:H2'	35:BA:2099:U:H6	1.70	0.56
35:BA:2131:G:H5"	35:BA:2132:U:H5"	1.88	0.56
36:BB:40:U:H1'	36:BB:45:A:N6	2.19	0.56
38:BD:244:ARG:HD2	38:BD:245:PRO:CA	2.36	0.56
38:BD:271:ILE:O	38:BD:272:ALA:CB	2.54	0.56
39:BE:52:LEU:HD12	39:BE:53:PRO:HD2	1.87	0.56
41:BG:161:THR:CG2	41:BG:162:THR:N	2.69	0.56
43:BI:71:ILE:HG23	43:BI:72:LEU:CD2	2.34	0.56
44:BJ:102:UNK:HA	44:BJ:106:UNK:CB	2.36	0.56
46:BN:6:PRO:O	46:BN:7:LYS:HG3	2.06	0.56
47:BO:13:ASN:HD22	47:BO:97:ARG:HB2	1.70	0.56
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.86	0.56
52:BT:102:ILE:O	52:BT:106:SER:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:118:ARG:O	52:BT:119:LYS:C	2.48	0.56
57:BY:74:PRO:O	57:BY:75:ILE:HB	2.04	0.56
1:CA:556:C:C2'	1:CA:557:G:H5'	2.35	0.56
2:CB:30:ARG:C	2:CB:32:ILE:H	2.13	0.56
4:CD:194:LEU:HD22	4:CD:194:LEU:N	2.20	0.56
8:CH:84:ARG:NH1	8:CH:86:ILE:HD13	2.19	0.56
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.30	0.56
11:CK:21:ILE:HD13	11:CK:84:VAL:CG1	2.36	0.56
13:CM:86:CYS:O	13:CM:89:GLY:N	2.38	0.56
19:CS:62:ILE:HA	19:CS:66:MET:HE3	1.86	0.56
24:CY:79:LEU:HB2	24:CY:80:PRO:HD3	1.86	0.56
24:CY:81:ALA:HB1	24:CY:84:ARG:HG2	1.87	0.56
24:CY:253:HIS:HB2	24:CY:279:LEU:HD11	1.86	0.56
26:D1:56:GLN:HE21	26:D1:56:GLN:HA	1.71	0.56
35:DA:1021:A:C8	35:DA:1021:A:C3'	2.88	0.56
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.41	0.56
35:DA:1652:A:C2'	35:DA:1653:G:H5'	2.36	0.56
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.39	0.56
35:DA:1666:G:O3'	47:DO:6:THR:HG23	2.06	0.56
35:DA:1762:A:H8	35:DA:1762:A:O5'	1.87	0.56
35:DA:2635:C:OP1	39:DE:77:ILE:HG21	2.06	0.56
41:DG:177:GLY:O	41:DG:179:PRO:HD3	2.06	0.56
42:DH:40:GLU:O	42:DH:41:MET:HB2	2.05	0.56
42:DH:47:GLU:HB2	42:DH:51:ARG:HH21	1.69	0.56
52:DT:3:ARG:HG2	52:DT:6:LEU:N	2.15	0.56
55:DW:25:ARG:NH1	55:DW:25:ARG:HB2	2.21	0.56
58:DZ:30:ASN:ND2	58:DZ:32:HIS:N	2.51	0.56
1:AA:314:C:O2'	1:AA:315:A:H5'	2.04	0.56
1:AA:382:A:H2'	1:AA:383:A:C8	2.40	0.56
1:AA:555:C:OP1	12:AL:20:LYS:HD2	2.05	0.56
1:AA:627:G:H2'	1:AA:628:G:C8	2.41	0.56
1:AA:913:A:H4'	1:AA:914:A:O5'	2.05	0.56
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.05	0.56
1:AA:1278:U:H3'	1:AA:1279:A:H5'	1.88	0.56
1:AA:1413:A:C2	1:AA:1414:U:C2	2.93	0.56
6:AF:91:VAL:CG1	6:AF:92:LYS:N	2.68	0.56
8:AH:29:SER:HB3	8:AH:32:LYS:CB	2.34	0.56
9:AI:114:TYR:HE1	10:AJ:60:ARG:H	1.48	0.56
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG13	1.88	0.56
13:AM:27:LYS:CE	13:AM:31:LYS:HE3	2.34	0.56
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.71	0.56
20:AT:57:ARG:HH12	20:AT:102:GLY:HA2	1.71	0.56
22:AV:73:A:N3	22:AV:73:A:H5'	2.20	0.56
22:AW:64:A:HO2'	22:AW:65:G:H8	1.54	0.56
24:AY:31:ARG:NH1	45:BK:34:ILE:HG13	2.21	0.56
24:AY:33:LEU:HD22	35:BA:1095:A:H61	1.70	0.56
30:B5:4:HIS:O	35:BA:2056:G:N2	2.38	0.56
31:B6:41:PRO:HG2	31:B6:43:CYS:H	1.71	0.56
35:BA:1531:C:H3'	35:BA:1532:C:C5'	2.35	0.56
35:BA:1598:C:H5'	56:BX:36:LYS:CG	2.36	0.56
35:BA:1826:G:H4'	38:BD:242:ARG:NE	2.18	0.56
35:BA:2830:G:H5'	39:BE:58:ARG:NH2	2.20	0.56
37:BC:79:LYS:HE2	37:BC:97:GLU:OE2	2.05	0.56
38:BD:25:THR:O	38:BD:26:LYS:C	2.48	0.56
39:BE:132:HIS:ND1	39:BE:135:HIS:NE2	2.48	0.56
40:BF:178:PRO:HB2	40:BF:201:VAL:HG11	1.87	0.56
42:BH:33:LEU:HD12	42:BH:78:GLY:HA3	1.87	0.56
42:BH:43:VAL:HG21	42:BH:52:VAL:HG22	1.87	0.56
50:BR:53:HIS:HA	50:BR:56:LYS:HB2	1.88	0.56
51:BS:59:LYS:HB2	51:BS:65:VAL:HG22	1.87	0.56
57:BY:7:VAL:HB	57:BY:8:LYS:NZ	2.21	0.56
58:BZ:51:ALA:O	58:BZ:52:SER:HB3	2.04	0.56
58:BZ:108:PRO:HA	58:BZ:142:SER:CA	2.25	0.56
1:CA:149:A:H2'	1:CA:150:C:C6	2.41	0.56
1:CA:409:G:C5'	4:CD:25:ARG:HB2	2.35	0.56
1:CA:501:C:H2'	1:CA:502:G:H8	1.70	0.56
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.27	0.56
1:CA:1305:G:OP1	21:CU:2:GLY:HA3	2.06	0.56
2:CB:35:GLU:HG3	2:CB:39:ILE:O	2.05	0.56
2:CB:144:ARG:O	2:CB:147:LYS:HB3	2.06	0.56
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.20	0.56
7:CG:6:ARG:HG2	7:CG:6:ARG:O	2.06	0.56
22:CW:45:U:H2'	22:CW:46:G:H5'	1.88	0.56
24:CY:283:LEU:O	24:CY:287:GLU:HB2	2.06	0.56
35:DA:315:G:H2'	35:DA:316:C:C6	2.40	0.56
35:DA:574:C:N3	39:DE:145:LYS:HE2	2.21	0.56
35:DA:654(Q):C:H2'	35:DA:654(R):C:C6	2.41	0.56
35:DA:958:U:H5"	49:DQ:14:ARG:CD	2.35	0.56
35:DA:1047:G:O2'	35:DA:1110:G:C2	2.57	0.56
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.41	0.56
37:DC:76:ALA:C	37:DC:78:ALA:H	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:4:ILE:CG1	39:DE:28:ALA:HB1	2.36	0.56
40:DF:63:LYS:NZ	40:DF:67:GLN:HB2	2.21	0.56
42:DH:103:LEU:HB2	42:DH:123:PHE:CD2	2.41	0.56
42:DH:115:VAL:CG1	42:DH:148:ILE:HD11	2.34	0.56
42:DH:126:PRO:O	42:DH:127:GLU:CB	2.53	0.56
48:DP:148:LEU:H	48:DP:148:LEU:HD13	1.71	0.56
52:DT:29:ARG:HG2	52:DT:86:ILE:O	2.06	0.56
52:DT:120:ARG:O	52:DT:123:GLN:HG2	2.05	0.56
56:DX:66:LEU:HD23	56:DX:67:GLY:N	2.20	0.56
1:AA:15:G:H4'	5:AE:24:ARG:NH1	2.17	0.56
1:AA:274:A:O2'	1:AA:275:G:O4'	2.24	0.56
1:AA:341:C:H2'	1:AA:342:C:C6	2.40	0.56
1:AA:501:C:H2'	1:AA:502:G:C8	2.41	0.56
1:AA:706:A:C5	1:AA:707:C:C5	2.93	0.56
1:AA:858:G:O6	1:AA:869:G:H3'	2.06	0.56
1:AA:940:C:H2'	1:AA:941:G:H8	1.70	0.56
1:AA:1104:G:O2'	1:AA:1105:A:H5'	2.06	0.56
1:AA:1499:A:H5'	1:AA:1499:A:C8	2.41	0.56
4:AD:191:ARG:C	4:AD:191:ARG:HD2	2.31	0.56
6:AF:94:GLN:OE1	18:AR:32:ARG:HD2	2.06	0.56
11:AK:59:TYR:CZ	11:AK:63:LEU:HD12	2.41	0.56
24:AY:75:LEU:HA	24:AY:78:GLU:O	2.05	0.56
24:AY:88:LYS:O	24:AY:92:GLU:HG2	2.06	0.56
24:AY:191:ARG:HH21	24:AY:194:PRO:HD2	1.70	0.56
26:B1:51:VAL:HG22	26:B1:52:ARG:N	2.21	0.56
27:B2:67:LYS:O	27:B2:69:ARG:N	2.39	0.56
35:BA:141:A:H8	35:BA:1408:C:O2'	1.85	0.56
35:BA:483:A:O3'	57:BY:49:VAL:HG11	2.05	0.56
35:BA:1203:G:H4'	48:BP:7:ARG:HD3	1.88	0.56
35:BA:1469:A:O2'	35:BA:1470:G:H5'	2.05	0.56
35:BA:1560:G:O2'	35:BA:1561:G:H5'	2.06	0.56
35:BA:2178:C:H5"	37:BC:46:LYS:HG2	1.88	0.56
35:BA:2308:G:O6	35:BA:2310:A:N3	2.38	0.56
35:BA:2443:C:O2'	35:BA:2444:G:H5'	2.05	0.56
36:BB:4:C:H2'	36:BB:5:C:C6	2.41	0.56
38:BD:244:ARG:HH11	38:BD:244:ARG:HG2	1.71	0.56
39:BE:78:LEU:CD2	39:BE:78:LEU:N	2.64	0.56
40:BF:80:ALA:O	40:BF:83:PHE:HB2	2.05	0.56
41:BG:101:ILE:HD13	41:BG:101:ILE:C	2.30	0.56
42:BH:18:GLU:HG3	42:BH:25:LYS:HG3	1.87	0.56
42:BH:141:VAL:CG1	42:BH:142:GLY:N	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:48:VAL:HA	50:BR:51:LEU:HD13	1.88	0.56
53:BU:27:LEU:HD23	53:BU:27:LEU:H	1.71	0.56
54:BV:5:VAL:CG2	54:BV:37:VAL:HG23	2.36	0.56
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.05	0.56
57:BY:96:ILE:HD12	57:BY:99:CYS:CB	2.36	0.56
1:CA:382:A:H2'	1:CA:383:A:C8	2.41	0.56
1:CA:718:G:H21	18:CR:49:LYS:NZ	2.03	0.56
2:CB:82:ARG:HA	2:CB:92:TYR:CD1	2.40	0.56
4:CD:68:TYR:CE2	4:CD:97:LEU:HD22	2.41	0.56
10:CJ:4:ILE:HA	10:CJ:100:THR:HG22	1.87	0.56
12:CL:105:TYR:C	12:CL:107:ALA:H	2.13	0.56
27:D2:24:LEU:CD2	27:D2:28:LYS:HE2	2.36	0.56
35:DA:301:G:H1'	35:DA:302:C:C6	2.41	0.56
35:DA:2476:A:C2	35:DA:2477:C:C4	2.94	0.56
38:DD:25:THR:O	38:DD:25:THR:HG23	2.06	0.56
38:DD:79:VAL:HG11	38:DD:111:LEU:HD12	1.87	0.56
38:DD:121:PRO:HB3	38:DD:135:PHE:CE2	2.41	0.56
38:DD:132:PRO:HD3	38:DD:190:TYR:CZ	2.41	0.56
41:DG:41:GLN:CD	41:DG:60:LEU:HD23	2.31	0.56
41:DG:64:THR:HG23	41:DG:66:GLN:H	1.71	0.56
54:DV:19:LYS:NZ	54:DV:20:LEU:H	2.03	0.56
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.41	0.56
1:AA:501:C:H1'	1:AA:549:C:H1'	1.88	0.56
1:AA:882:C:O2'	1:AA:883:C:H5'	2.06	0.56
1:AA:1000:U:H2'	1:AA:1001:A:C8	2.40	0.56
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.40	0.56
2:AB:144:ARG:O	2:AB:147:LYS:HB3	2.06	0.56
5:AE:93:PRO:CG	8:AH:105:ARG:HE	2.19	0.56
6:AF:82:ARG:HH11	6:AF:82:ARG:CB	2.19	0.56
12:AL:126:LYS:C	12:AL:128:ALA:H	2.12	0.56
13:AM:86:CYS:O	13:AM:89:GLY:N	2.39	0.56
16:AP:5:ARG:O	16:AP:19:ILE:HA	2.06	0.56
27:B2:54:LYS:O	27:B2:57:ILE:HB	2.05	0.56
35:BA:247:G:N7	35:BA:249:C:C2	2.74	0.56
35:BA:1484:G:C2'	35:BA:1485:G:H5"	2.36	0.56
35:BA:2013:A:H4'	55:BW:96:ILE:HD12	1.87	0.56
35:BA:2082:A:H2'	35:BA:2083:G:O4'	2.05	0.56
35:BA:2880:C:O2'	50:BR:90:ARG:NH1	2.38	0.56
40:BF:130:ALA:HB3	40:BF:142:TRP:HD1	1.68	0.56
42:BH:88:LEU:N	42:BH:88:LEU:HD22	2.21	0.56
47:BO:104:ARG:HH21	52:BT:33:LYS:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:101:ARG:C	53:BU:102:GLU:HG2	2.30	0.56
1:CA:295:C:H2'	1:CA:296:U:C6	2.41	0.56
1:CA:930:C:O2'	1:CA:931:C:H5'	2.05	0.56
1:CA:1223:C:P	19:CS:78:ARG:HH21	2.29	0.56
1:CA:1248:A:C2'	1:CA:1249:C:H5'	2.36	0.56
4:CD:108:LEU:O	4:CD:110:PHE:CD1	2.59	0.56
9:CI:105:ASP:OD2	9:CI:107:ARG:HD3	2.05	0.56
14:CN:13:THR:HG22	14:CN:13:THR:O	2.05	0.56
26:D1:80:LEU:HD22	26:D1:81:LYS:H	1.67	0.56
27:D2:7:ARG:O	27:D2:11:GLU:HG3	2.06	0.56
35:DA:483:A:N7	35:DA:497:A:H2	2.04	0.56
35:DA:1087:G:H1	35:DA:1102:C:H42	1.53	0.56
35:DA:1388:G:O2'	35:DA:1389:G:H5'	2.06	0.56
35:DA:1655:A:C8	35:DA:1656:C:C5	2.94	0.56
35:DA:1827:C:H2'	35:DA:1828:G:C5'	2.36	0.56
35:DA:2483:C:N3	49:DQ:124:LYS:NZ	2.54	0.56
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.32	0.56
35:DA:2650:U:O2'	35:DA:2651:C:H5'	2.06	0.56
36:DB:65:C:H2'	36:DB:109:C:H41	1.72	0.56
38:DD:95:LEU:HD13	38:DD:97:TYR:CE1	2.41	0.56
38:DD:270:ILE:C	38:DD:270:ILE:HD12	2.31	0.56
39:DE:48:GLN:NE2	39:DE:78:LEU:HD11	2.20	0.56
41:DG:33:ARG:O	41:DG:161:THR:HG23	2.06	0.56
48:DP:108:LYS:O	48:DP:109:GLY:O	2.24	0.56
54:DV:79:VAL:HG12	54:DV:79:VAL:O	2.06	0.56
1:AA:174:C:H2'	1:AA:175:C:H6	1.71	0.55
1:AA:1014:A:H5'	19:AS:14:HIS:CD2	2.41	0.55
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.41	0.55
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.06	0.55
1:AA:1347:G:C6	9:AI:107:ARG:NH2	2.72	0.55
1:AA:1493:A:H2'	1:AA:1494:G:H5"	1.87	0.55
1:AA:1508:G:H2'	1:AA:1509:C:O4'	2.07	0.55
3:AC:62:ASP:HA	3:AC:97:LYS:NZ	2.21	0.55
4:AD:194:LEU:N	4:AD:194:LEU:HD22	2.21	0.55
5:AE:93:PRO:HG2	8:AH:105:ARG:HE	1.72	0.55
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.30	0.55
13:AM:90:LEU:C	13:AM:92:HIS:N	2.58	0.55
14:AN:9:LYS:HA	14:AN:12:ARG:HD3	1.88	0.55
15:AO:82:ILE:HG23	15:AO:83:GLU:H	1.71	0.55
20:AT:74:LYS:C	20:AT:76:ALA:N	2.64	0.55
24:AY:40:ASN:C	24:AY:42:PRO:HD2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:88:LYS:HE2	24:AY:92:GLU:OE1	2.06	0.55
26:B1:89:GLU:O	26:B1:93:GLU:HG2	2.06	0.55
35:BA:666:G:H5"	48:BP:47:ASP:O	2.05	0.55
35:BA:2635:C:OP1	39:BE:77:ILE:HG21	2.05	0.55
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.70	0.55
37:BC:78:ALA:HA	37:BC:82:LYS:HD2	1.89	0.55
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.88	0.55
40:BF:11:VAL:HG12	40:BF:12:LEU:H	1.71	0.55
46:BN:65:LYS:HB2	46:BN:69:GLN:CG	2.36	0.55
49:BQ:55:VAL:HG12	49:BQ:64:ILE:HD12	1.87	0.55
49:BQ:79:LEU:HD23	49:BQ:80:GLU:H	1.70	0.55
52:BT:32:TYR:CD2	52:BT:81:PRO:O	2.59	0.55
1:CA:921:U:O2	5:CE:19:MET:HB2	2.06	0.55
1:CA:1260:C:OP1	1:CA:1284:C:H4'	2.06	0.55
4:CD:70:ILE:HG12	4:CD:71:SER:N	2.21	0.55
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.31	0.55
6:CF:97:PHE:HB2	18:CR:32:ARG:HH21	1.70	0.55
10:CJ:48:THR:HG22	10:CJ:49:VAL:N	2.21	0.55
11:CK:29:ILE:C	11:CK:29:ILE:HD12	2.31	0.55
24:CY:35:ASP:N	24:CY:36:PRO:HD3	2.21	0.55
24:CY:62:PHE:O	24:CY:66:GLU:CB	2.54	0.55
24:CY:182:PRO:HA	24:CY:352:LYS:NZ	2.20	0.55
31:D6:37:ARG:O	31:D6:48:VAL:O	2.24	0.55
35:DA:271(J):C:H2'	35:DA:271(K):U:H5"	1.86	0.55
35:DA:557:U:O2'	35:DA:558:G:H5'	2.05	0.55
35:DA:1082:U:H5'	45:DK:117:THR:CG2	2.33	0.55
35:DA:2485:G:C5'	49:DQ:46:GLN:HE21	2.18	0.55
39:DE:47:VAL:HG21	39:DE:86:PRO:HD3	1.88	0.55
41:DG:83:ARG:O	41:DG:85:GLY:N	2.38	0.55
42:DH:146:ALA:HA	42:DH:149:ARG:HB3	1.88	0.55
46:DN:42:TRP:CE3	46:DN:48:MET:HE1	2.40	0.55
49:DQ:21:THR:HG21	49:DQ:101:ARG:HD2	1.87	0.55
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.74	0.55
57:DY:2:ARG:CD	57:DY:3:VAL:HG23	2.29	0.55
57:DY:50:ARG:C	57:DY:52:SER:H	2.12	0.55
1:AA:133:U:OP1	20:AT:74:LYS:HE2	2.05	0.55
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.88	0.55
3:AC:89:GLU:HG3	3:AC:93:LYS:HZ1	1.72	0.55
4:AD:96:LEU:HD23	4:AD:139:ARG:NH1	2.21	0.55
4:AD:128:VAL:O	4:AD:130:GLY:N	2.39	0.55
5:AE:101:ILE:HG12	5:AE:101:ILE:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:7:THR:O	9:AI:79:LEU:HD12	2.05	0.55
9:AI:106:ALA:O	9:AI:108:VAL:HG22	2.06	0.55
22:AV:24:G:O2'	35:BA:1923:U:OP1	2.24	0.55
22:AW:1:G:N1	22:AW:73:A:C2	2.74	0.55
26:B1:8:SER:HB3	26:B1:66:HIS:CE1	2.41	0.55
27:B2:50:ILE:C	27:B2:52:ASP:N	2.62	0.55
28:B3:38:GLU:HG3	28:B3:39:ASP:H	1.70	0.55
31:B6:15:GLU:OE2	31:B6:41:PRO:HG3	2.07	0.55
33:B8:32:LEU:HD11	35:BA:2392:A:OP1	2.04	0.55
35:BA:107:C:H2'	35:BA:108:U:H6	1.71	0.55
35:BA:1210:A:H5'	35:BA:1212:G:O4'	2.06	0.55
35:BA:2010:G:H5"	55:BW:42:ARG:HB2	1.87	0.55
35:BA:2115:G:H3'	35:BA:2116:G:H5'	1.88	0.55
35:BA:2286:A:H4'	35:BA:2287:A:O4'	2.06	0.55
39:BE:134:ILE:HD13	39:BE:134:ILE:H	1.71	0.55
40:BF:28:ILE:O	40:BF:30:PRO:HD3	2.06	0.55
41:BG:110:ALA:HA	41:BG:140:ILE:HG23	1.87	0.55
41:BG:117:PHE:CD1	41:BG:118:ARG:N	2.74	0.55
43:BI:61:ARG:HA	43:BI:64:GLU:OE2	2.06	0.55
46:BN:22:THR:HB	46:BN:25:ARG:HB2	1.88	0.55
48:BP:18:ARG:HB3	48:BP:18:ARG:CZ	2.35	0.55
53:BU:8:VAL:HG12	53:BU:9:VAL:N	2.20	0.55
54:BV:5:VAL:HG21	54:BV:35:LEU:CB	2.36	0.55
1:CA:1236:A:H2'	1:CA:1237:C:C6	2.41	0.55
1:CA:1278:U:H3'	1:CA:1279:A:H5'	1.87	0.55
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.71	0.55
3:CC:155:GLY:HA2	3:CC:164:ARG:O	2.06	0.55
9:CI:14:VAL:O	9:CI:65:VAL:HG23	2.05	0.55
18:CR:37:VAL:HG23	18:CR:38:GLU:N	2.20	0.55
29:D4:50:THR:CG2	29:D4:51:TYR:H	2.16	0.55
33:D8:43:GLN:O	33:D8:44:LYS:HD2	2.06	0.55
35:DA:205:G:HO2'	35:DA:206:U:P	2.29	0.55
35:DA:1300:U:H4'	35:DA:1301:A:O5'	2.05	0.55
35:DA:1479:G:H5'	35:DA:1558:A:C2	2.42	0.55
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.87	0.55
35:DA:2683:C:OP1	52:DT:53:ARG:NH2	2.36	0.55
39:DE:39:PRO:HA	39:DE:43:GLY:HA2	1.87	0.55
41:DG:107:LEU:HD23	41:DG:107:LEU:N	2.18	0.55
48:DP:48:PRO:O	48:DP:49:ARG:C	2.49	0.55
51:DS:106:ARG:HH11	51:DS:109:GLY:N	2.02	0.55
52:DT:108:ARG:HG3	52:DT:109:GLU:N	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:31:SER:C	53:DU:33:ARG:H	2.15	0.55
53:DU:50:ARG:HH22	54:DV:72:VAL:HG12	1.71	0.55
54:DV:5:VAL:HG21	54:DV:35:LEU:CB	2.37	0.55
58:DZ:56:VAL:HG22	58:DZ:70:LEU:HD21	1.87	0.55
1:AA:169:C:C2'	1:AA:170:U:H5'	2.36	0.55
1:AA:295:C:H2'	1:AA:296:U:C6	2.41	0.55
1:AA:434:U:H2'	1:AA:435:C:H6	1.70	0.55
1:AA:879:C:O2'	1:AA:880:C:H5'	2.05	0.55
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.05	0.55
4:AD:59:ARG:HE	4:AD:59:ARG:CA	2.02	0.55
6:AF:1:MET:HE2	6:AF:1:MET:H2	1.71	0.55
7:AG:145:ALA:O	7:AG:146:GLU:HB3	2.04	0.55
14:AN:22:THR:O	14:AN:23:ARG:CB	2.51	0.55
14:AN:31:ARG:HG3	14:AN:31:ARG:HH11	1.70	0.55
19:AS:5:LEU:H	19:AS:6:LYS:HZ1	1.52	0.55
22:AV:39:U:H2'	22:AV:40:C:C6	2.41	0.55
24:AY:34:GLU:O	24:AY:35:ASP:C	2.48	0.55
24:AY:52:ALA:C	24:AY:54:ARG:H	2.14	0.55
35:BA:999:U:H5"	35:BA:1154:G:O6	2.06	0.55
35:BA:1385:G:C4	35:BA:1386:C:C5	2.94	0.55
35:BA:1481:U:H5'	35:BA:1482:G:OP2	2.07	0.55
35:BA:1783:A:C2	35:BA:2587:A:C5	2.95	0.55
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.41	0.55
35:BA:2403:C:H42	35:BA:2414:G:H1	1.53	0.55
46:BN:90:MET:HE2	46:BN:90:MET:HA	1.88	0.55
54:BV:78:LYS:C	54:BV:79:VAL:HG23	2.32	0.55
57:BY:2:ARG:N	57:BY:5:MET:HG2	2.22	0.55
58:BZ:28:MET:HE2	58:BZ:37:VAL:HG13	1.87	0.55
58:BZ:151:HIS:CG	58:BZ:170:THR:HA	2.40	0.55
1:CA:274:A:O2'	1:CA:275:G:C8	2.58	0.55
1:CA:436:C:H2'	1:CA:437:U:C6	2.39	0.55
1:CA:519:C:O2'	1:CA:520:A:H5'	2.06	0.55
1:CA:972:C:O3'	10:CJ:57:LYS:CG	2.55	0.55
4:CD:9:CYS:HA	4:CD:12:CYS:CB	2.36	0.55
5:CE:76:ILE:CG2	5:CE:93:PRO:HB3	2.36	0.55
5:CE:132:ALA:O	5:CE:135:THR:HB	2.06	0.55
6:CF:50:TYR:HB2	6:CF:51:PRO:HD2	1.88	0.55
7:CG:84:ASN:HD22	22:CW:33:U:H4'	1.71	0.55
9:CI:97:LYS:C	9:CI:99:LEU:N	2.64	0.55
9:CI:103:THR:HG22	9:CI:104:ARG:N	2.21	0.55
16:CP:19:ILE:HG22	16:CP:36:ILE:HD11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:36:ILE:HG13	16:CP:37:GLY:H	1.70	0.55
16:CP:58:TYR:HD1	16:CP:59:TRP:N	2.04	0.55
19:CS:41:VAL:HB	19:CS:44:MET:SD	2.46	0.55
22:CV:16:U:O3'	22:CV:17:C:H6	1.89	0.55
24:CY:251:VAL:HG21	24:CY:276:LEU:CD2	2.35	0.55
35:DA:743:G:O2'	35:DA:744:G:H5'	2.07	0.55
35:DA:1826:G:H4'	38:DD:242:ARG:NE	2.14	0.55
35:DA:2389:G:H5"	35:DA:2390:U:O4'	2.06	0.55
35:DA:2534:A:H8	35:DA:2534:A:C5'	2.19	0.55
38:DD:24:ILE:HG23	38:DD:24:ILE:O	2.07	0.55
38:DD:55:GLY:O	38:DD:56:GLY:C	2.50	0.55
38:DD:244:ARG:HD2	38:DD:245:PRO:CA	2.36	0.55
38:DD:244:ARG:CD	38:DD:245:PRO:HB3	2.36	0.55
45:DK:89:HIS:O	45:DK:91:PRO:HD3	2.06	0.55
46:DN:35:ARG:HD3	46:DN:37:LYS:HD2	1.88	0.55
48:DP:125:VAL:HG11	48:DP:138:LEU:HD21	1.86	0.55
51:DS:25:ARG:O	51:DS:39:ILE:HA	2.06	0.55
53:DU:92:ARG:HB2	54:DV:11:GLN:CD	2.32	0.55
1:AA:444:C:H2'	1:AA:445:G:C8	2.41	0.55
1:AA:1406:U:O2'	1:AA:1407:C:H5'	2.06	0.55
1:AA:1456:G:H2'	1:AA:1457:G:O4'	2.07	0.55
2:AB:16:HIS:CD2	2:AB:210:SER:HA	2.41	0.55
2:AB:16:HIS:HA	2:AB:210:SER:HB2	1.87	0.55
2:AB:54:THR:CG2	2:AB:201:ILE:HD11	2.33	0.55
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.16	0.55
9:AI:53:VAL:HG11	9:AI:92:TYR:CE2	2.42	0.55
10:AJ:40:LEU:HD23	10:AJ:40:LEU:N	2.12	0.55
13:AM:5:ALA:O	13:AM:6:GLY:C	2.49	0.55
16:AP:64:ALA:O	16:AP:65:GLN:C	2.48	0.55
24:AY:109:PHE:HB2	24:AY:110:PRO:HD2	1.88	0.55
24:AY:310:GLN:N	24:AY:310:GLN:OE1	2.39	0.55
26:B1:58:ILE:HD11	26:B1:91:LYS:CB	2.37	0.55
29:B4:46:ASN:ND2	29:B4:47:VAL:N	2.55	0.55
35:BA:221:A:H4'	35:BA:222:A:O5'	2.07	0.55
35:BA:1349:A:N6	35:BA:1598:C:H42	2.04	0.55
35:BA:2207:G:H2'	35:BA:2207:G:N3	2.20	0.55
42:BH:103:LEU:HG	42:BH:104:GLU:H	1.72	0.55
42:BH:146:ALA:HA	42:BH:149:ARG:HB3	1.87	0.55
42:BH:170:ARG:H	42:BH:170:ARG:CD	2.19	0.55
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.63	0.55
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:84:GLN:O	52:BT:85:LYS:HB2	2.07	0.55
57:BY:28:LYS:H	57:BY:28:LYS:CE	2.19	0.55
58:BZ:11:GLU:CD	58:BZ:11:GLU:H	2.14	0.55
1:CA:15:G:H4'	5:CE:24:ARG:NH1	2.17	0.55
1:CA:862:C:H2'	1:CA:863:U:H5'	1.88	0.55
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.41	0.55
3:CC:64:VAL:HG12	3:CC:66:VAL:CG2	2.37	0.55
13:CM:90:LEU:C	13:CM:92:HIS:N	2.58	0.55
17:CQ:91:ARG:HG2	17:CQ:91:ARG:HH11	1.72	0.55
19:CS:19:VAL:O	19:CS:20:LEU:HD23	2.07	0.55
24:CY:23:GLU:HG3	24:CY:24:THR:N	2.20	0.55
24:CY:242:VAL:HG13	24:CY:243:ASN:ND2	2.21	0.55
24:CY:254:LEU:HB2	24:CY:255:PRO:HD3	1.89	0.55
25:D0:34:GLY:O	25:D0:35:ASN:C	2.49	0.55
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.41	0.55
35:DA:2481:G:O2'	35:DA:2482:G:P	2.65	0.55
35:DA:2759:G:H5'	35:DA:2759:G:H8	1.72	0.55
38:DD:142:VAL:HG22	38:DD:143:HIS:N	2.22	0.55
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.37	0.55
40:DF:3:GLU:HG2	40:DF:19:GLU:CB	2.23	0.55
42:DH:137:ASP:OD1	42:DH:138:LYS:N	2.38	0.55
46:DN:6:PRO:O	46:DN:7:LYS:HG3	2.05	0.55
51:DS:96:GLY:C	51:DS:98:VAL:H	2.13	0.55
58:DZ:15:PRO:HB3	58:DZ:19:ARG:NH2	2.20	0.55
1:AA:403:C:O2'	1:AA:404:U:H5'	2.07	0.55
2:AB:8:LYS:N	2:AB:217:ARG:HH22	2.05	0.55
4:AD:155:LEU:HB2	4:AD:158:ILE:HG12	1.87	0.55
7:AG:73:MET:HA	7:AG:91:VAL:HG23	1.88	0.55
12:AL:90:VAL:O	12:AL:91:LYS:HB3	2.05	0.55
24:AY:92:GLU:O	24:AY:96:LYS:HE3	2.07	0.55
35:BA:176:G:C2'	35:BA:177:G:H5'	2.37	0.55
35:BA:301:G:H1'	35:BA:302:C:C6	2.41	0.55
35:BA:2485:G:C5'	49:BQ:46:GLN:HE21	2.19	0.55
35:BA:2787:C:O2	35:BA:2787:C:H2'	2.06	0.55
38:BD:25:THR:O	38:BD:25:THR:HG23	2.07	0.55
38:BD:142:VAL:HG22	38:BD:143:HIS:N	2.22	0.55
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.86	0.55
40:BF:53:THR:HG22	40:BF:56:GLU:CD	2.31	0.55
41:BG:107:LEU:HD13	41:BG:177:GLY:CA	2.31	0.55
41:BG:139:LEU:C	41:BG:141:PHE:H	2.13	0.55
42:BH:20:ALA:CB	42:BH:21:PRO:CD	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:103:LEU:HD12	42:BH:104:GLU:H	1.70	0.55
43:BI:4:ILE:O	43:BI:5:LEU:HB3	2.07	0.55
45:BK:57:ILE:HG23	45:BK:65:PHE:HB2	1.89	0.55
45:BK:89:HIS:O	45:BK:91:PRO:HD3	2.07	0.55
48:BP:71:VAL:HB	48:BP:72:PRO:CD	2.36	0.55
48:BP:89:ALA:O	48:BP:90:ARG:C	2.49	0.55
48:BP:127:ALA:HB3	48:BP:130:PHE:CE2	2.41	0.55
50:BR:107:ASP:C	50:BR:107:ASP:OD2	2.50	0.55
51:BS:101:LEU:O	51:BS:101:LEU:HD22	2.06	0.55
52:BT:57:PHE:O	52:BT:59:THR:HG22	2.07	0.55
57:BY:68:HIS:ND1	57:BY:70:SER:HB3	2.22	0.55
1:CA:79:G:N2	1:CA:91:C:H41	2.03	0.55
1:CA:508:C:H4’	1:CA:509:A:O5’	2.07	0.55
1:CA:627:G:H2’	1:CA:628:G:C8	2.41	0.55
1:CA:1054:C:O2	1:CA:1054:C:H3’	2.06	0.55
1:CA:1457:G:H2’	1:CA:1458:G:H8	1.72	0.55
2:CB:92:TYR:HE2	2:CB:151:GLY:HA3	1.70	0.55
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.88	0.55
5:CE:76:ILE:HD11	5:CE:142:LEU:CD2	2.35	0.55
6:CF:21:LEU:HA	6:CF:24:GLU:OE1	2.05	0.55
9:CI:79:LEU:HD13	9:CI:79:LEU:C	2.31	0.55
15:CO:87:ILE:CG2	15:CO:88:ARG:H	2.18	0.55
16:CP:28:ARG:NH1	16:CP:29:ASP:OD2	2.40	0.55
19:CS:10:PHE:HZ	19:CS:70:LYS:HE2	1.70	0.55
20:CT:57:ARG:HH12	20:CT:102:GLY:HA2	1.70	0.55
22:CW:64:A:H2’	22:CW:65:G:H8	1.71	0.55
24:CY:132:TRP:CE3	24:CY:135:MET:HE3	2.41	0.55
31:D6:10:LEU:N	31:D6:10:LEU:HD22	2.22	0.55
31:D6:33:LYS:O	31:D6:34:LEU:HB2	2.06	0.55
35:DA:666:G:H5”	48:DP:47:ASP:O	2.07	0.55
35:DA:2013:A:H4’	55:DW:96:ILE:HD12	1.89	0.55
35:DA:2308:G:O6	35:DA:2310:A:N3	2.40	0.55
38:DD:182:LEU:HB2	38:DD:271:ILE:O	2.04	0.55
39:DE:61:ARG:HB3	39:DE:62:PRO:CD	2.37	0.55
40:DF:9:ILE:HG22	40:DF:9:ILE:O	2.07	0.55
42:DH:96:ALA:CB	42:DH:105:LEU:HA	2.36	0.55
42:DH:141:VAL:CG1	42:DH:142:GLY:N	2.70	0.55
59:DI:52:ARG:O	59:DI:56:LYS:HG3	2.06	0.55
53:DU:69:CYS:HB3	53:DU:106:PHE:HZ	1.72	0.55
58:DZ:11:GLU:N	58:DZ:11:GLU:OE2	2.40	0.55
1:AA:336:C:O2’	1:AA:337:C:H5’	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:416:G:P	35:DA:2153:G:O3'	2.65	0.55
1:AA:782:A:H4'	1:AA:1514:C:O2'	2.07	0.55
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.07	0.55
1:AA:1349:A:H2'	1:AA:1350:A:C8	2.41	0.55
2:AB:194:PRO:O	2:AB:196:LEU:N	2.39	0.55
3:AC:70:VAL:O	3:AC:105:GLU:HA	2.06	0.55
5:AE:75:THR:HG23	5:AE:76:ILE:N	2.21	0.55
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.72	0.55
6:AF:21:LEU:HA	6:AF:24:GLU:OE1	2.07	0.55
6:AF:100:ASN:HD22	6:AF:100:ASN:N	2.03	0.55
7:AG:6:ARG:HH21	7:AG:94:ARG:HH22	1.53	0.55
16:AP:39:TYR:O	16:AP:40:ASP:HB2	2.07	0.55
19:AS:9:VAL:O	19:AS:9:VAL:HG12	2.07	0.55
20:AT:96:GLY:O	20:AT:99:LEU:HG	2.06	0.55
24:AY:180:LEU:O	24:AY:210:VAL:HG11	2.06	0.55
25:B0:77:ARG:NH2	35:BA:857:C:H5'	2.22	0.55
31:B6:19:ARG:CD	31:B6:19:ARG:H	2.20	0.55
31:B6:40:CYS:HA	31:B6:46:HIS:H	1.72	0.55
33:B8:48:PHE:HZ	35:BA:650:C:H5'	1.72	0.55
35:BA:2302:G:C2'	35:BA:2303:G:H5'	2.37	0.55
35:BA:2389:G:H5"	35:BA:2390:U:O4'	2.06	0.55
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.42	0.55
36:BB:114:C:O2'	51:BS:46:VAL:HG13	2.07	0.55
38:BD:71:ASP:CB	38:BD:103:ARG:HH22	2.18	0.55
39:BE:11:MET:CB	39:BE:24:THR:HA	2.37	0.55
39:BE:200:GLU:OE2	39:BE:200:GLU:N	2.35	0.55
41:BG:54:GLU:O	41:BG:57:ALA:HB3	2.07	0.55
42:BH:159:GLU:CG	42:BH:160:LYS:N	2.70	0.55
43:BI:25:TYR:HE2	43:BI:29:TYR:CD2	2.24	0.55
45:BK:57:ILE:CG2	45:BK:65:PHE:HB2	2.37	0.55
58:BZ:43:GLU:O	58:BZ:47:VAL:HG23	2.06	0.55
1:CA:219:C:H2'	1:CA:220:G:O4'	2.06	0.55
1:CA:423:G:H2'	1:CA:424:G:C5'	2.37	0.55
1:CA:1000:U:H2'	1:CA:1001:A:C8	2.41	0.55
2:CB:80:ILE:HD11	2:CB:211:ILE:HB	1.89	0.55
10:CJ:18:ALA:O	10:CJ:22:LYS:HB2	2.06	0.55
11:CK:99:GLN:OE1	11:CK:105:VAL:HG21	2.06	0.55
12:CL:24:VAL:O	12:CL:24:VAL:HG12	2.07	0.55
13:CM:8:GLU:OE2	13:CM:67:GLU:HB2	2.06	0.55
25:D0:77:ARG:HH22	35:DA:857:C:H5'	1.71	0.55
27:D2:13:ALA:HA	27:D2:16:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:142:A:H8	35:DA:1595:G:H21	1.53	0.55
35:DA:1050:A:C2	35:DA:2751:G:N7	2.75	0.55
35:DA:2025:C:O2'	35:DA:2026:C:H5'	2.05	0.55
35:DA:2207:G:N3	35:DA:2207:G:H2'	2.21	0.55
35:DA:2362:G:O2'	35:DA:2363:C:H5'	2.06	0.55
35:DA:2747:G:O6	35:DA:2755:C:H5"	2.07	0.55
38:DD:25:THR:O	38:DD:26:LYS:C	2.49	0.55
41:DG:39:ILE:HA	41:DG:157:ILE:HA	1.89	0.55
41:DG:107:LEU:HD12	41:DG:177:GLY:O	2.05	0.55
41:DG:154:GLY:O	41:DG:155:MET:HB3	2.06	0.55
45:DK:62:ASP:O	45:DK:63:ARG:HD2	2.06	0.55
48:DP:147:LEU:HD12	48:DP:148:LEU:HD13	1.89	0.55
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.87	0.55
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.07	0.55
57:DY:96:ILE:CG2	57:DY:97:ARG:H	2.13	0.55
58:DZ:69:THR:O	58:DZ:70:LEU:HD23	2.05	0.55
1:AA:409:G:H5'	4:AD:25:ARG:HB2	1.88	0.55
1:AA:825:G:C1'	8:AH:2:LEU:HD21	2.35	0.55
1:AA:878:G:H1'	8:AH:3:THR:HG21	1.88	0.55
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.07	0.55
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.72	0.55
1:AA:1489:G:H2'	1:AA:1490:C:O4'	2.06	0.55
2:AB:168:THR:HG23	2:AB:192:SER:OG	2.07	0.55
3:AC:127:ARG:N	3:AC:127:ARG:HD2	2.22	0.55
3:AC:155:GLY:HA2	3:AC:164:ARG:O	2.07	0.55
3:AC:180:ALA:HB1	3:AC:203:PHE:CE1	2.41	0.55
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.22	0.55
5:AE:13:ILE:HA	5:AE:29:GLY:O	2.07	0.55
10:AJ:4:ILE:HA	10:AJ:100:THR:HG22	1.87	0.55
12:AL:32:PHE:CD1	12:AL:84:LEU:HD21	2.41	0.55
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.06	0.55
22:AV:50:U:H2'	22:AV:51:U:H6	1.70	0.55
22:AW:4:C:H2'	22:AW:5:G:O4'	2.07	0.55
23:AX:17:A:H2'	23:AX:17:A:N3	2.21	0.55
24:AY:93:GLU:HA	24:AY:96:LYS:CD	2.24	0.55
26:B1:29:GLY:O	26:B1:30:VAL:CG2	2.55	0.55
35:BA:519:U:H2'	35:BA:520:G:H8	1.72	0.55
35:BA:674:G:O2'	40:BF:74:ARG:HD3	2.06	0.55
35:BA:1576:U:H2'	35:BA:1577:C:H6	1.72	0.55
35:BA:1578:U:H2'	35:BA:1579:A:H5'	1.89	0.55
35:BA:2679:A:O2'	35:BA:2680:C:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2742:C:O2'	35:BA:2743:C:H5'	2.06	0.55
36:BB:97:G:H2'	36:BB:98:G:H5'	1.89	0.55
36:BB:107:G:O2'	36:BB:108:U:H5'	2.07	0.55
39:BE:4:ILE:HD11	39:BE:28:ALA:HB1	1.88	0.55
39:BE:77:ILE:CG2	39:BE:78:LEU:HD23	2.37	0.55
40:BF:53:THR:HG22	40:BF:56:GLU:OE2	2.06	0.55
40:BF:194:MET:HE2	40:BF:199:TRP:CD1	2.40	0.55
41:BG:46:ALA:HA	41:BG:51:ARG:CB	2.35	0.55
41:BG:83:ARG:NE	41:BG:84:LYS:HZ3	2.04	0.55
48:BP:147:LEU:HD12	48:BP:148:LEU:HD13	1.88	0.55
53:BU:31:SER:C	53:BU:33:ARG:H	2.15	0.55
58:BZ:38:TYR:O	58:BZ:38:TYR:HD1	1.89	0.55
1:CA:337:C:H2'	1:CA:338:A:C8	2.42	0.55
1:CA:341:C:H2'	1:CA:342:C:C6	2.41	0.55
1:CA:853:G:O2'	1:CA:854:G:H5'	2.07	0.55
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.89	0.55
4:CD:31:CYS:O	4:CD:33:MET:N	2.30	0.55
5:CE:6:PHE:HD2	5:CE:36:ASP:N	2.04	0.55
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.22	0.55
12:CL:83:VAL:HG22	12:CL:84:LEU:H	1.72	0.55
13:CM:44:ARG:HB3	13:CM:46:LYS:HG2	1.88	0.55
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.37	0.55
15:CO:87:ILE:CG2	15:CO:88:ARG:N	2.69	0.55
17:CQ:76:LEU:HG	17:CQ:77:VAL:N	2.20	0.55
24:CY:26:LEU:HD13	24:CY:48:VAL:CG2	2.37	0.55
35:DA:613:G:H8	35:DA:613:G:H5'	1.71	0.55
35:DA:1375:C:H2'	35:DA:1376:C:H6	1.71	0.55
35:DA:1438:U:O2'	35:DA:1439:A:H5'	2.06	0.55
35:DA:1560:G:O2'	35:DA:1561:G:H5'	2.06	0.55
38:DD:166:GLN:HE21	38:DD:166:GLN:CA	2.19	0.55
45:DK:21:PRO:HB2	45:DK:22:PRO:CD	2.27	0.55
46:DN:46:VAL:O	46:DN:47:ALA:CB	2.53	0.55
48:DP:23:PRO:C	48:DP:33:ARG:HD2	2.32	0.55
48:DP:32:THR:O	48:DP:33:ARG:HB3	2.06	0.55
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	2.07	0.55
55:DW:75:TYR:HE1	55:DW:104:THR:HB	1.67	0.55
56:DX:15:GLU:CD	56:DX:15:GLU:N	2.61	0.55
1:AA:321:A:H61	1:AA:332:G:H1	1.54	0.55
1:AA:411:A:N6	1:AA:413:G:H21	2.04	0.55
1:AA:458:C:H2'	1:AA:460:G:C8	2.41	0.55
1:AA:834:C:H2'	1:AA:835:U:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1201:A:H1'	1:AA:1202:G:OP2	2.07	0.55
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.72	0.55
7:AG:148:ASN:C	7:AG:150:ALA:N	2.63	0.55
9:AI:53:VAL:HG13	9:AI:95:LYS:HZ1	1.71	0.55
11:AK:21:ILE:HD13	11:AK:84:VAL:CG1	2.37	0.55
12:AL:55:VAL:CG1	12:AL:56:ALA:H	2.11	0.55
24:AY:92:GLU:O	24:AY:96:LYS:HG3	2.07	0.55
24:AY:215:ASP:HB2	24:AY:291:ARG:NH2	2.22	0.55
27:B2:58:ALA:O	27:B2:61:LEU:HD23	2.07	0.55
33:B8:48:PHE:HZ	35:BA:650:C:C5'	2.20	0.55
35:BA:151:C:O2'	35:BA:152:G:H5'	2.06	0.55
35:BA:535:C:O2'	35:BA:536:A:H5'	2.06	0.55
35:BA:833:U:H2'	35:BA:834:C:H6	1.72	0.55
35:BA:875:G:H4'	58:BZ:170:THR:CG2	2.28	0.55
35:BA:963:U:H2'	35:BA:964:C:H6	1.72	0.55
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.42	0.55
37:BC:76:ALA:C	37:BC:78:ALA:H	2.14	0.55
41:BG:82:LEU:CD2	41:BG:83:ARG:N	2.70	0.55
41:BG:107:LEU:H	41:BG:107:LEU:CD2	2.08	0.55
41:BG:159:VAL:O	41:BG:159:VAL:HG13	2.07	0.55
45:BK:62:ASP:O	45:BK:63:ARG:HD2	2.06	0.55
46:BN:6:PRO:HG2	46:BN:41:ASP:O	2.07	0.55
48:BP:147:LEU:CG	48:BP:148:LEU:N	2.70	0.55
49:BQ:55:VAL:HG22	49:BQ:56:ARG:H	1.71	0.55
51:BS:89:ARG:HD2	51:BS:92:TYR:CA	2.37	0.55
51:BS:97:ARG:NH2	51:BS:98:VAL:CA	2.51	0.55
53:BU:34:LYS:HA	53:BU:34:LYS:CE	2.37	0.55
54:BV:23:GLU:O	54:BV:24:LYS:C	2.49	0.55
57:BY:97:ARG:CZ	57:BY:98:VAL:HG23	2.36	0.55
1:CA:376:G:O2'	1:CA:377:G:H5'	2.07	0.55
1:CA:1401:G:C2	1:CA:1402:C:H1'	2.41	0.55
2:CB:42:ILE:HD13	2:CB:203:GLY:HA2	1.88	0.55
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.22	0.55
3:CC:70:VAL:O	3:CC:105:GLU:HA	2.07	0.55
6:CF:82:ARG:HH11	6:CF:82:ARG:CB	2.20	0.55
9:CI:97:LYS:CB	9:CI:98:PRO:HD3	2.36	0.55
9:CI:104:ARG:O	9:CI:105:ASP:CB	2.54	0.55
11:CK:32:ILE:HD12	11:CK:72:ALA:HB2	1.88	0.55
22:CV:3:C:H2'	22:CV:4:C:C6	2.40	0.55
26:D1:29:GLY:O	26:D1:31:GLY:N	2.35	0.55
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:40:CYS:SG	31:D6:45:LYS:HD2	2.46	0.55
35:DA:143:G:H4'	56:DX:35:THR:HG21	1.88	0.55
35:DA:2635:C:P	39:DE:77:ILE:HG21	2.47	0.55
39:DE:4:ILE:HG21	39:DE:96:PHE:CE2	2.42	0.55
40:DF:40:GLN:NE2	40:DF:182:ASN:HB2	2.17	0.55
41:DG:155:MET:HE3	41:DG:157:ILE:HG22	1.89	0.55
42:DH:85:LYS:HD3	42:DH:141:VAL:HG22	1.89	0.55
46:DN:9:VAL:HG12	46:DN:10:GLU:N	2.22	0.55
46:DN:58:ASP:C	46:DN:60:ILE:N	2.63	0.55
48:DP:89:ALA:O	48:DP:90:ARG:C	2.50	0.55
49:DQ:140:ALA:HA	58:DZ:99:TYR:CE1	2.42	0.55
53:DU:54:LYS:O	53:DU:58:ARG:HG3	2.07	0.55
1:AA:389:A:H2'	1:AA:390:C:C5'	2.37	0.55
4:AD:9:CYS:O	4:AD:13:ARG:HG3	2.07	0.55
6:AF:48:LEU:HG	6:AF:57:GLN:HA	1.89	0.55
10:AJ:3:LYS:N	10:AJ:74:ILE:O	2.40	0.55
13:AM:8:GLU:OE2	13:AM:67:GLU:HB2	2.06	0.55
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.88	0.55
16:AP:6:LEU:HB3	16:AP:17:TYR:CD2	2.41	0.55
24:AY:97:LYS:HB3	24:AY:101:LEU:HD13	1.89	0.55
24:AY:258:ILE:HD11	24:AY:279:LEU:HD23	1.89	0.55
35:BA:760:G:H2'	35:BA:761:A:O4'	2.07	0.55
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.41	0.55
35:BA:1842:G:H2'	35:BA:1843:C:C6	2.42	0.55
37:BC:66:HIS:HB2	37:BC:189:ILE:CB	2.37	0.55
38:BD:270:ILE:C	38:BD:270:ILE:HD12	2.32	0.55
39:BE:106:GLY:HA3	39:BE:189:PRO:HB2	1.88	0.55
39:BE:130:GLY:O	39:BE:131:ALA:C	2.50	0.55
40:BF:2:LYS:O	40:BF:24:LEU:HG	2.05	0.55
40:BF:9:ILE:HG22	40:BF:9:ILE:O	2.06	0.55
41:BG:32:PRO:HA	41:BG:162:THR:OG1	2.07	0.55
47:BO:69:ILE:HD12	47:BO:69:ILE:H	1.72	0.55
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.75	0.55
53:BU:60:LEU:C	53:BU:60:LEU:HD13	2.32	0.55
1:CA:235:C:H2'	1:CA:236:G:H8	1.72	0.55
1:CA:245:C:O2'	1:CA:246:A:H5'	2.06	0.55
1:CA:738:C:H2'	1:CA:739:C:C6	2.41	0.55
1:CA:778:G:O2'	1:CA:779:C:H5'	2.07	0.55
2:CB:16:HIS:HA	2:CB:210:SER:HB2	1.88	0.55
4:CD:9:CYS:O	4:CD:13:ARG:HG3	2.07	0.55
5:CE:42:GLY:HA2	5:CE:65:ASN:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:43:ALA:C	9:CI:45:ALA:N	2.64	0.55
24:CY:33:LEU:C	24:CY:35:ASP:H	2.15	0.55
35:DA:322:A:OP2	40:DF:169:ASN:HB2	2.07	0.55
35:DA:654(L):G:H2'	35:DA:654(M):C:C4'	2.37	0.55
35:DA:654(L):G:N3	35:DA:654(L):G:H3'	2.22	0.55
35:DA:740:U:H2'	35:DA:741:G:C8	2.42	0.55
35:DA:1568:G:C5'	38:DD:61:LEU:HD13	2.34	0.55
35:DA:1754:C:OP1	52:DT:96:ARG:NH1	2.40	0.55
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.37	0.55
35:DA:2746:U:H5"	42:DH:138:LYS:HE2	1.89	0.55
35:DA:2827:C:H2'	35:DA:2827:C:O2	2.06	0.55
35:DA:2880:C:O2'	50:DR:90:ARG:NH1	2.40	0.55
36:DB:56:G:O2'	36:DB:57:A:OP2	2.25	0.55
38:DD:82:ILE:HD13	38:DD:82:ILE:C	2.32	0.55
39:DE:2:LYS:HE2	39:DE:95:ILE:CG2	2.37	0.55
39:DE:69:LYS:HZ2	39:DE:89:ASP:HA	1.71	0.55
40:DF:80:ALA:O	40:DF:83:PHE:HB2	2.07	0.55
59:DI:47:LEU:C	59:DI:49:ALA:N	2.65	0.55
59:DI:53:ALA:HB1	59:DI:57:ARG:NH2	2.21	0.55
45:DK:33:ASN:HD21	45:DK:63:ARG:HD3	1.71	0.55
50:DR:87:TYR:HD1	50:DR:90:ARG:HD2	1.72	0.55
51:DS:97:ARG:HH21	51:DS:98:VAL:CG2	2.20	0.55
54:DV:52:VAL:O	54:DV:52:VAL:HG13	2.07	0.55
57:DY:7:VAL:CB	57:DY:8:LYS:NZ	2.69	0.55
1:AA:376:G:O2'	1:AA:377:G:H5'	2.07	0.55
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.72	0.55
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.89	0.55
16:AP:15:PRO:HB3	16:AP:17:TYR:HE1	1.72	0.55
16:AP:19:ILE:HG22	16:AP:36:ILE:HD11	1.88	0.55
18:AR:66:LEU:HD11	18:AR:70:ILE:HD11	1.89	0.55
20:AT:57:ARG:NH1	20:AT:102:GLY:HA2	2.21	0.55
27:B2:50:ILE:C	27:B2:52:ASP:H	2.15	0.55
35:BA:271(A):A:H2	35:BA:272(D):G:N3	2.04	0.55
35:BA:286:C:C2'	35:BA:287:C:C5'	2.84	0.55
35:BA:654(L):G:H2'	35:BA:654(M):C:C4'	2.36	0.55
35:BA:812:C:O5'	48:BP:25:SER:O	2.25	0.55
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.06	0.55
38:BD:24:ILE:O	38:BD:24:ILE:HG23	2.07	0.55
39:BE:69:LYS:HZ2	39:BE:89:ASP:HA	1.72	0.55
43:BI:82:ARG:HH11	43:BI:82:ARG:HG3	1.72	0.55
50:BR:104:ARG:HH11	50:BR:104:ARG:HB3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:33:LYS:HB3	51:BS:34:HIS:CD2	2.42	0.55
1:CA:160:A:H2'	1:CA:161:A:O4'	2.07	0.55
1:CA:403:C:O2'	1:CA:404:U:H5'	2.05	0.55
1:CA:601:C:H2'	1:CA:602:A:H8	1.70	0.55
1:CA:878:G:H1'	8:CH:3:THR:HG21	1.89	0.55
2:CB:8:LYS:N	2:CB:217:ARG:HH22	2.05	0.55
5:CE:28:PHE:CD1	5:CE:28:PHE:N	2.74	0.55
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.37	0.55
10:CJ:34:VAL:HG12	10:CJ:35:SER:N	2.21	0.55
15:CO:43:LEU:C	15:CO:45:VAL:H	2.15	0.55
18:CR:66:LEU:CD1	18:CR:70:ILE:HD11	2.37	0.55
21:CU:6:ARG:NE	21:CU:15:ARG:HH21	2.04	0.55
22:CV:2:C:H2'	22:CV:3:C:H5'	1.89	0.55
23:CX:24:A:C3'	24:CY:200:ARG:NH1	2.69	0.55
27:D2:43:GLN:O	27:D2:44:LEU:CB	2.55	0.55
29:D4:53:THR:C	29:D4:54:LYS:HD2	2.32	0.55
30:D5:33:CYS:SG	30:D5:49:CYS:HB2	2.45	0.55
35:DA:143:G:H1'	56:DX:37:THR:CG2	2.36	0.55
35:DA:1568:G:H5"	38:DD:61:LEU:CD1	2.34	0.55
35:DA:2682:U:O4	35:DA:2728:U:H1'	2.07	0.55
38:DD:64:ILE:H	38:DD:64:ILE:CD1	2.18	0.55
42:DH:143:GLN:HE21	42:DH:147:ASN:HD21	1.53	0.55
45:DK:57:ILE:CG2	45:DK:65:PHE:HB2	2.37	0.55
50:DR:78:LYS:O	50:DR:83:ILE:HG12	2.07	0.55
53:DU:88:ILE:O	53:DU:88:ILE:CG1	2.55	0.55
56:DX:11:PRO:O	56:DX:13:LEU:HG	2.07	0.55
58:DZ:102:LEU:HD23	58:DZ:104:PHE:CZ	2.42	0.55
1:AA:57:G:O6	1:AA:356:A:N1	2.41	0.54
1:AA:88:A:H2'	1:AA:88:A:N3	2.21	0.54
1:AA:164:U:H2'	1:AA:165:C:H6	1.72	0.54
1:AA:1423:G:O2'	1:AA:1424:C:H5'	2.07	0.54
2:AB:139:LYS:O	2:AB:143:GLU:HG2	2.07	0.54
4:AD:83:SER:HA	4:AD:89:THR:CG2	2.37	0.54
4:AD:165:MET:C	4:AD:167:GLY:H	2.15	0.54
8:AH:84:ARG:HH11	8:AH:84:ARG:HG2	1.71	0.54
9:AI:18:PHE:HD1	9:AI:62:TYR:HD2	1.54	0.54
16:AP:67:THR:OG1	16:AP:70:ALA:HB2	2.07	0.54
19:AS:20:LEU:CA	19:AS:23:ASN:HD22	2.14	0.54
19:AS:62:ILE:HG23	19:AS:62:ILE:O	2.07	0.54
24:AY:73:LEU:HD22	24:AY:73:LEU:O	2.07	0.54
26:B1:30:VAL:H	35:BA:2396:G:H4'	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:27:CYS:HB3	34:B9:32:HIS:HB2	1.89	0.54
35:BA:271(J):C:H2'	35:BA:271(K):U:H5"	1.89	0.54
35:BA:675:A:OP1	40:BF:63:LYS:HE2	2.06	0.54
35:BA:752:A:O2'	35:BA:753:C:OP2	2.20	0.54
35:BA:1075:C:H2'	35:BA:1076:C:H6	1.71	0.54
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.42	0.54
35:BA:1655:A:C8	35:BA:1656:C:C5	2.95	0.54
36:BB:40:U:O2'	36:BB:45:A:N6	2.40	0.54
38:BD:106:ILE:HD11	38:BD:143:HIS:CD2	2.41	0.54
40:BF:3:GLU:CA	40:BF:24:LEU:HG	2.33	0.54
47:BO:23:ARG:HH11	47:BO:23:ARG:HG2	1.72	0.54
48:BP:95:VAL:HB	48:BP:100:LEU:HD21	1.87	0.54
50:BR:80:PHE:O	50:BR:85:PRO:HD3	2.07	0.54
51:BS:25:ARG:O	51:BS:39:ILE:HA	2.06	0.54
51:BS:97:ARG:HH21	51:BS:98:VAL:HG22	1.72	0.54
53:BU:79:PHE:CE2	53:BU:83:LEU:HD13	2.42	0.54
1:CA:88:A:N3	1:CA:88:A:H2'	2.22	0.54
1:CA:314:C:O2'	1:CA:315:A:H5'	2.07	0.54
1:CA:562:C:H1'	12:CL:15:ARG:HB3	1.88	0.54
1:CA:1444:C:H2'	1:CA:1445:C:C6	2.42	0.54
4:CD:165:MET:C	4:CD:167:GLY:H	2.13	0.54
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.89	0.54
7:CG:57:GLU:OE2	7:CG:57:GLU:N	2.40	0.54
7:CG:73:MET:HA	7:CG:91:VAL:HG23	1.87	0.54
12:CL:115:LYS:O	12:CL:117:ARG:HG3	2.07	0.54
20:CT:93:GLU:HG2	20:CT:93:GLU:O	2.07	0.54
24:CY:88:LYS:HE2	24:CY:91:LEU:HD23	1.88	0.54
24:CY:284:TYR:HA	24:CY:287:GLU:HB2	1.90	0.54
24:CY:304:PRO:O	24:CY:305:ILE:HG22	2.07	0.54
28:D3:59:VAL:HG12	28:D3:60:GLU:N	2.22	0.54
35:DA:412:A:H2'	35:DA:413:C:H5'	1.89	0.54
35:DA:517:C:O2'	55:DW:18:ARG:NH2	2.40	0.54
35:DA:773:U:C5'	38:DD:47:GLY:HA3	2.36	0.54
35:DA:1722:A:C2	35:DA:1740:G:H8	2.25	0.54
35:DA:1853:A:N1	35:DA:2087:G:H1'	2.22	0.54
37:DC:79:LYS:HE2	37:DC:97:GLU:OE2	2.06	0.54
40:DF:9:ILE:HG12	40:DF:14:PRO:C	2.31	0.54
41:DG:51:ARG:CA	41:DG:51:ARG:NE	2.64	0.54
42:DH:99:VAL:O	42:DH:99:VAL:HG13	2.06	0.54
46:DN:7:LYS:O	46:DN:9:VAL:N	2.40	0.54
46:DN:65:LYS:HB2	46:DN:69:GLN:CG	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:118:ARG:O	52:DT:119:LYS:C	2.50	0.54
54:DV:21:ARG:HH11	54:DV:21:ARG:HG2	1.72	0.54
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	2.06	0.54
57:DY:31:LEU:N	57:DY:31:LEU:HD22	2.21	0.54
1:AA:341:C:O2'	1:AA:342:C:H5'	2.07	0.54
1:AA:559:A:OP2	5:AE:126:ARG:NH2	2.40	0.54
1:AA:612:C:O2'	1:AA:613:C:H5'	2.07	0.54
1:AA:853:G:O2'	1:AA:854:G:H5'	2.07	0.54
1:AA:1262:C:H42	1:AA:1273:G:H1	1.55	0.54
1:AA:1330:U:H4'	13:AM:23:TYR:CE2	2.42	0.54
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	1.87	0.54
5:AE:6:PHE:HD2	5:AE:36:ASP:N	2.05	0.54
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.89	0.54
11:AK:27:ASN:HB2	11:AK:55:LYS:CD	2.36	0.54
11:AK:29:ILE:HD12	11:AK:29:ILE:C	2.32	0.54
12:AL:47:LYS:HA	12:AL:47:LYS:HE3	1.89	0.54
15:AO:87:ILE:CG2	15:AO:88:ARG:H	2.20	0.54
18:AR:66:LEU:CD1	18:AR:70:ILE:HD11	2.37	0.54
19:AS:20:LEU:HA	19:AS:23:ASN:HB3	1.89	0.54
19:AS:66:MET:HA	19:AS:69:HIS:HD2	1.72	0.54
24:AY:154:VAL:HB	24:AY:168:GLN:O	2.07	0.54
31:B6:28:ARG:HH11	31:B6:28:ARG:CB	2.04	0.54
31:B6:52:VAL:HG12	31:B6:53:LYS:N	2.22	0.54
32:B7:12:ARG:HD3	32:B7:46:VAL:HG21	1.88	0.54
34:B9:11:CYS:SG	34:B9:32:HIS:ND1	2.81	0.54
35:BA:1827:C:H2'	35:BA:1828:G:C5'	2.38	0.54
35:BA:2199:A:H2'	35:BA:2199:A:N3	2.22	0.54
35:BA:2635:C:P	39:BE:77:ILE:HG21	2.47	0.54
35:BA:2808:U:C2'	35:BA:2809:A:H5'	2.37	0.54
35:BA:2855:C:H2'	35:BA:2856:C:C6	2.36	0.54
37:BC:78:ALA:CB	37:BC:82:LYS:HD2	2.37	0.54
40:BF:39:TRP:CH2	40:BF:106:ARG:HD3	2.42	0.54
42:BH:72:ILE:O	42:BH:75:ALA:HB3	2.07	0.54
42:BH:103:LEU:HB2	42:BH:123:PHE:CD2	2.42	0.54
42:BH:154:PRO:O	42:BH:155:SER:CB	2.55	0.54
48:BP:23:PRO:C	48:BP:33:ARG:HD2	2.32	0.54
48:BP:62:LEU:HD22	48:BP:62:LEU:H	1.72	0.54
52:BT:27:THR:O	52:BT:28:VAL:HG23	2.06	0.54
54:BV:25:LEU:H	54:BV:92:THR:HG21	1.72	0.54
54:BV:99:ILE:O	54:BV:99:ILE:HG12	2.08	0.54
55:BW:84:ARG:HB2	55:BW:96:ILE:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:82:ARG:HB2	2:CB:92:TYR:HE1	1.72	0.54
3:CC:67:THR:HG23	3:CC:102:ASN:HB2	1.89	0.54
6:CF:74:ASP:HA	6:CF:77:ARG:HH12	1.72	0.54
8:CH:85:ARG:HG3	8:CH:85:ARG:HH11	1.73	0.54
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.12	0.54
10:CJ:61:GLU:HG3	14:CN:58:LYS:CE	2.36	0.54
10:CJ:61:GLU:CG	14:CN:58:LYS:HE2	2.34	0.54
12:CL:37:CYS:SG	12:CL:81:SER:HB2	2.47	0.54
24:CY:32:ARG:CA	45:DK:29:GLN:HE22	2.20	0.54
26:D1:3:LYS:CG	26:D1:4:VAL:N	2.68	0.54
35:DA:135:G:O2'	35:DA:136:G:H5'	2.07	0.54
35:DA:1111:A:N3	35:DA:1112:G:H1'	2.22	0.54
35:DA:1484:G:C2'	35:DA:1485:G:H5"	2.36	0.54
35:DA:1515:G:H2'	35:DA:1516:C:H6	1.71	0.54
35:DA:2742:C:O2'	35:DA:2743:C:H5'	2.06	0.54
38:DD:28:GLU:HB3	38:DD:29:PRO:CD	2.26	0.54
45:DK:88:ALA:O	45:DK:89:HIS:HB2	2.06	0.54
50:DR:53:HIS:HA	50:DR:56:LYS:HB2	1.89	0.54
51:DS:97:ARG:HH21	51:DS:98:VAL:HG22	1.71	0.54
55:DW:24:ILE:HG21	55:DW:36:LEU:HD21	1.89	0.54
57:DY:68:HIS:ND1	57:DY:70:SER:HB3	2.22	0.54
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.25	0.54
4:AD:18:LYS:HA	4:AD:33:MET:HG2	1.89	0.54
5:AE:48:ALA:O	5:AE:50:GLU:N	2.41	0.54
8:AH:1:MET:CE	8:AH:3:THR:HG23	2.38	0.54
9:AI:90:PRO:C	9:AI:92:TYR:H	2.16	0.54
11:AK:19:ALA:CB	11:AK:32:ILE:HG23	2.37	0.54
12:AL:92:ASP:O	12:AL:94:PRO:HD3	2.08	0.54
15:AO:87:ILE:CG2	15:AO:88:ARG:N	2.70	0.54
18:AR:86:VAL:C	18:AR:87:ARG:HD3	2.32	0.54
24:AY:106:LEU:C	24:AY:108:ASN:N	2.65	0.54
25:B0:14:ARG:HB2	25:B0:14:ARG:CZ	2.38	0.54
31:B6:26:ASN:ND2	31:B6:32:ASN:HD21	2.05	0.54
32:B7:38:GLY:O	35:BA:458:G:H5"	2.08	0.54
35:BA:225:A:H2'	35:BA:226:G:H5'	1.90	0.54
35:BA:271(O):C:HO2'	35:BA:271(P):C:H6	1.54	0.54
35:BA:654(N):G:H2'	35:BA:654(O):G:O4'	2.08	0.54
35:BA:958:U:H5"	49:BQ:14:ARG:CD	2.37	0.54
35:BA:1329:U:H5"	35:BA:1330:C:H5	1.72	0.54
35:BA:1924:C:O2'	35:BA:1925:C:H5'	2.07	0.54
35:BA:2682:U:O4	35:BA:2728:U:H1'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2837:G:H2'	35:BA:2838:G:H8	1.72	0.54
35:BA:2848:G:H3'	52:BT:95:ARG:O	2.07	0.54
35:BA:2888:C:H2'	35:BA:2889:C:C6	2.42	0.54
38:BD:79:VAL:HG11	38:BD:111:LEU:HD12	1.88	0.54
39:BE:47:VAL:HG21	39:BE:86:PRO:HD3	1.89	0.54
39:BE:61:ARG:HB3	39:BE:62:PRO:CD	2.37	0.54
42:BH:85:LYS:HD3	42:BH:141:VAL:HG22	1.88	0.54
42:BH:103:LEU:HG	42:BH:104:GLU:N	2.22	0.54
42:BH:103:LEU:CD1	42:BH:104:GLU:H	2.19	0.54
47:BO:64:ARG:CZ	52:BT:70:VAL:HG21	2.37	0.54
48:BP:135:LEU:O	48:BP:135:LEU:HD13	2.07	0.54
49:BQ:97:VAL:HG11	49:BQ:103:MET:HE3	1.89	0.54
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB3	1.90	0.54
50:BR:78:LYS:O	50:BR:83:ILE:HG12	2.08	0.54
53:BU:80:ILE:O	53:BU:84:LYS:HB2	2.08	0.54
1:CA:711:G:O2'	1:CA:712:A:H5'	2.07	0.54
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.06	0.54
2:CB:73:THR:HA	2:CB:94:ASN:O	2.07	0.54
3:CC:25:GLY:C	3:CC:27:LYS:H	2.15	0.54
8:CH:1:MET:HE2	8:CH:1:MET:H2	1.72	0.54
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.88	0.54
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.07	0.54
22:CV:31:A:H2'	22:CV:32:U:H6	1.73	0.54
22:CW:53:G:H22	22:CW:61:C:H42	1.54	0.54
24:CY:88:LYS:N	24:CY:89:PRO:CD	2.71	0.54
24:CY:336:VAL:C	24:CY:338:ASP:H	2.14	0.54
35:DA:588:U:H1'	40:DF:90:PHE:CD1	2.42	0.54
35:DA:1027:A:C2	35:DA:2488:A:H5'	2.42	0.54
35:DA:1192:G:O2'	35:DA:1193:G:H5'	2.06	0.54
35:DA:1437:C:H5'	35:DA:1437:C:H6	1.73	0.54
35:DA:1501:C:H1'	38:DD:100:GLY:HA2	1.88	0.54
35:DA:1882:C:H5'	35:DA:1883:G:OP2	2.08	0.54
35:DA:2286:A:H4'	35:DA:2287:A:O4'	2.07	0.54
35:DA:2837:G:H2'	35:DA:2838:G:H8	1.72	0.54
36:DB:12:C:C4'	36:DB:13:A:OP1	2.56	0.54
39:DE:52:LEU:HD12	39:DE:53:PRO:HD2	1.88	0.54
47:DO:7:TYR:HE1	47:DO:20:MET:HE3	1.73	0.54
50:DR:80:PHE:O	50:DR:85:PRO:HD3	2.07	0.54
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.08	0.54
51:DS:85:VAL:CG2	51:DS:106:ARG:HB2	2.38	0.54
57:DY:55:TYR:O	57:DY:56:PRO:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:4:ARG:HH11	58:DZ:4:ARG:CB	2.19	0.54
58:DZ:94:GLU:HA	58:DZ:94:GLU:OE1	2.07	0.54
1:AA:952:U:H2'	1:AA:953:G:H8	1.72	0.54
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.22	0.54
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.07	0.54
2:AB:142:LEU:HD11	2:AB:146:GLN:HE21	1.72	0.54
5:AE:50:GLU:HB3	5:AE:53:LEU:HD13	1.89	0.54
11:AK:126:ARG:O	11:AK:127:LYS:C	2.50	0.54
16:AP:58:TYR:HD1	16:AP:59:TRP:N	2.06	0.54
19:AS:24:ALA:O	19:AS:25:LYS:HB2	2.06	0.54
22:AW:68:C:C2'	22:AW:69:G:H5'	2.37	0.54
24:AY:231:VAL:HG11	24:AY:268:GLN:CD	2.33	0.54
24:AY:253:HIS:CE1	24:AY:255:PRO:HB2	2.42	0.54
26:B1:49:VAL:O	26:B1:59:THR:HA	2.06	0.54
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.23	0.54
26:B1:69:LYS:HE3	35:BA:372:G:OP2	2.07	0.54
35:BA:478:A:C6	35:BA:480:A:C6	2.96	0.54
35:BA:1322:A:OP1	55:BW:11:ARG:HG3	2.08	0.54
35:BA:1464:C:HO2'	35:BA:1528:A:H8	1.52	0.54
35:BA:2807:G:C3'	35:BA:2808:U:H5"	2.38	0.54
39:BE:4:ILE:HG21	39:BE:96:PHE:CE2	2.41	0.54
39:BE:4:ILE:CG1	39:BE:28:ALA:HB1	2.38	0.54
41:BG:16:ARG:HB2	41:BG:17:PRO:CD	2.37	0.54
46:BN:132:ALA:O	46:BN:133:GLN:HB3	2.07	0.54
57:BY:2:ARG:C	57:BY:4:LYS:N	2.61	0.54
1:CA:389:A:H2'	1:CA:390:C:C5'	2.37	0.54
1:CA:428:G:H4'	1:CA:429:U:O5'	2.07	0.54
1:CA:559:A:OP2	5:CE:126:ARG:NH2	2.40	0.54
4:CD:83:SER:HA	4:CD:89:THR:CG2	2.38	0.54
10:CJ:62:HIS:CD2	10:CJ:62:HIS:N	2.75	0.54
14:CN:31:ARG:HH11	14:CN:31:ARG:HG3	1.71	0.54
18:CR:22:VAL:HG12	18:CR:22:VAL:O	2.08	0.54
18:CR:66:LEU:HD11	18:CR:70:ILE:HD11	1.89	0.54
22:CV:31:A:H2'	22:CV:32:U:C6	2.43	0.54
35:DA:478:A:C6	35:DA:480:A:C6	2.95	0.54
35:DA:1048:A:H2'	35:DA:1048:A:N3	2.22	0.54
35:DA:1100:C:H2'	35:DA:1101:U:H5'	1.90	0.54
35:DA:2350:C:H2'	35:DA:2351:G:O4'	2.07	0.54
35:DA:2849:U:OP2	52:DT:95:ARG:NH1	2.40	0.54
35:DA:2887:U:O2'	35:DA:2888:C:H5'	2.07	0.54
38:DD:75:ILE:O	38:DD:118:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:104:ARG:HH11	50:DR:104:ARG:HB3	1.73	0.54
52:DT:84:GLN:O	52:DT:85:LYS:HB2	2.07	0.54
53:DU:91:ASP:OD2	53:DU:96:ALA:N	2.40	0.54
55:DW:29:LEU:HD21	55:DW:33:ARG:NH2	2.22	0.54
1:AA:164:U:H2'	1:AA:165:C:C6	2.42	0.54
1:AA:337:C:H2'	1:AA:338:A:C8	2.42	0.54
1:AA:895:G:H2'	1:AA:896:C:C6	2.41	0.54
1:AA:1001:A:OP2	35:DA:2116:G:O6	2.24	0.54
1:AA:1260:C:OP1	1:AA:1284:C:H4'	2.08	0.54
2:AB:113:HIS:O	2:AB:117:GLU:HG3	2.06	0.54
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.23	0.54
5:AE:147:ASP:HB3	5:AE:150:ARG:NH2	2.20	0.54
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	1.89	0.54
10:AJ:24:VAL:HG12	10:AJ:28:ARG:HD2	1.89	0.54
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.38	0.54
22:AW:5:G:N2	22:AW:68:C:N4	2.54	0.54
24:AY:232:MET:O	24:AY:248:ALA:HB3	2.07	0.54
35:BA:20:C:O2'	35:BA:21:A:H5'	2.08	0.54
35:BA:773:U:C5'	38:BD:47:GLY:HA3	2.37	0.54
35:BA:1048:A:N3	35:BA:1048:A:H2'	2.22	0.54
35:BA:1050:A:C2	35:BA:1051:G:H1'	2.43	0.54
35:BA:1654:A:P	50:BR:3:HIS:HB2	2.47	0.54
35:BA:2250:G:OP1	49:BQ:85:LYS:HE3	2.08	0.54
35:BA:2362:G:O2'	35:BA:2363:C:H5'	2.08	0.54
35:BA:2392:A:H2	35:BA:2424:C:N4	2.04	0.54
35:BA:2759:G:H5'	35:BA:2759:G:H8	1.71	0.54
37:BC:37:PHE:O	37:BC:39:GLU:N	2.40	0.54
38:BD:231:HIS:ND1	38:BD:232:PRO:HD2	2.20	0.54
41:BG:101:ILE:HD13	41:BG:102:PHE:N	2.22	0.54
42:BH:66:GLY:HA2	42:BH:69:ARG:HB3	1.88	0.54
42:BH:68:THR:O	42:BH:72:ILE:HG12	2.07	0.54
45:BK:95:LYS:HG2	45:BK:137:GLU:CB	2.25	0.54
52:BT:58:ASN:C	52:BT:58:ASN:HD22	2.16	0.54
54:BV:4:ILE:HB	54:BV:39:LEU:O	2.08	0.54
55:BW:24:ILE:HG21	55:BW:36:LEU:HD21	1.89	0.54
57:BY:26:LYS:CG	57:BY:27:VAL:H	2.15	0.54
57:BY:31:LEU:N	57:BY:31:LEU:HD22	2.22	0.54
1:CA:164:U:H2'	1:CA:165:C:C6	2.43	0.54
1:CA:275:G:O2'	1:CA:276:G:H5'	2.08	0.54
1:CA:409:G:H5'	4:CD:25:ARG:HB2	1.89	0.54
1:CA:533:A:O2'	1:CA:534:U:H5"	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:5:ILE:O	3:CC:5:ILE:HD12	2.07	0.54
6:CF:24:GLU:HG3	6:CF:25:ILE:N	2.21	0.54
7:CG:102:ARG:O	7:CG:106:GLN:HG3	2.07	0.54
9:CI:18:PHE:HD1	9:CI:62:TYR:HD2	1.54	0.54
13:CM:79:LYS:O	13:CM:82:MET:HB3	2.07	0.54
16:CP:6:LEU:HB3	16:CP:17:TYR:CD2	2.40	0.54
20:CT:91:LEU:O	20:CT:94:ALA:HB3	2.08	0.54
22:CV:59:U:C2'	22:CV:60:U:H5'	2.37	0.54
24:CY:33:LEU:CD2	35:DA:1095:A:H61	2.21	0.54
24:CY:344:LEU:HD23	24:CY:344:LEU:N	2.16	0.54
35:DA:8:A:H2'	35:DA:9:U:H5	1.66	0.54
35:DA:37:C:H2'	35:DA:38:A:C8	2.43	0.54
35:DA:590:A:OP1	40:DF:95:ARG:NH1	2.41	0.54
35:DA:1081:U:O2'	45:DK:117:THR:HG21	2.07	0.54
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.43	0.54
35:DA:1531:C:H3'	35:DA:1532:C:C5'	2.36	0.54
35:DA:2036:C:H6	35:DA:2036:C:C5'	2.13	0.54
35:DA:2260:C:H2'	35:DA:2261:C:H6	1.72	0.54
35:DA:2358:G:H1	48:DP:55:ARG:HH22	1.56	0.54
36:DB:28:C:O2'	36:DB:29:A:H5'	2.08	0.54
37:DC:65:PRO:HG2	37:DC:189:ILE:HA	1.89	0.54
40:DF:11:VAL:HG12	40:DF:12:LEU:H	1.73	0.54
40:DF:164:ARG:HH11	40:DF:164:ARG:HG2	1.72	0.54
41:DG:126:ASP:O	41:DG:128:ARG:NE	2.41	0.54
42:DH:60:ARG:NH1	42:DH:64:LEU:HD21	2.16	0.54
54:DV:5:VAL:CG2	54:DV:37:VAL:HG23	2.37	0.54
1:AA:966:G:O2'	1:AA:967:C:O5'	2.25	0.54
1:AA:1054:C:H3'	1:AA:1054:C:O2	2.07	0.54
1:AA:1223:C:P	19:AS:78:ARG:HH21	2.30	0.54
1:AA:1248:A:C2'	1:AA:1249:C:H5'	2.38	0.54
1:AA:1458:G:O2'	1:AA:1459:C:H5'	2.07	0.54
2:AB:82:ARG:HB2	2:AB:92:TYR:HE1	1.73	0.54
3:AC:155:GLY:O	3:AC:196:LEU:HD13	2.08	0.54
8:AH:20:TYR:CE2	8:AH:75:ARG:HB3	2.42	0.54
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	2.22	0.54
16:AP:47:ASP:O	16:AP:49:LEU:N	2.41	0.54
24:AY:27:LYS:HA	24:AY:30:GLU:HB3	1.89	0.54
27:B2:16:LEU:HB3	27:B2:20:GLU:HG2	1.88	0.54
28:B3:40:THR:OG1	28:B3:43:ILE:HG12	2.07	0.54
30:B5:3:LYS:HG3	30:B5:4:HIS:N	2.18	0.54
31:B6:9:LEU:O	31:B6:25:LYS:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1056:G:H4'	35:BA:1086:A:H8	1.73	0.54
35:BA:1065:U:O2'	35:BA:1066:U:H5'	2.08	0.54
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.71	0.54
35:BA:1853:A:N1	35:BA:2087:G:H1'	2.22	0.54
35:BA:2302:G:H1'	41:BG:128:ARG:NH2	2.22	0.54
36:BB:50:G:OP2	51:BS:62:LYS:HB3	2.08	0.54
38:BD:55:GLY:O	38:BD:56:GLY:C	2.51	0.54
39:BE:184:VAL:HG12	39:BE:185:LYS:H	1.72	0.54
41:BG:36:LYS:HE3	41:BG:160:VAL:HG21	1.90	0.54
46:BN:7:LYS:O	46:BN:9:VAL:N	2.40	0.54
49:BQ:55:VAL:O	49:BQ:56:ARG:C	2.51	0.54
58:BZ:5:LEU:HD11	58:BZ:43:GLU:HB3	1.89	0.54
1:CA:7:G:H5'	1:CA:298:A:H5'	1.88	0.54
1:CA:775:G:O2'	1:CA:776:G:H5'	2.07	0.54
2:CB:71:VAL:HG23	2:CB:164:VAL:HG22	1.89	0.54
13:CM:5:ALA:O	13:CM:6:GLY:C	2.49	0.54
22:CW:68:C:H2'	22:CW:69:G:C8	2.42	0.54
31:D6:11:LEU:O	31:D6:23:THR:HA	2.07	0.54
35:DA:1109:C:N3	35:DA:1110:G:N2	2.55	0.54
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.07	0.54
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.07	0.54
36:DB:30:C:H4'	36:DB:58:A:H2	1.72	0.54
36:DB:38:C:O2	36:DB:48:A:H1'	2.08	0.54
38:DD:71:ASP:CB	38:DD:103:ARG:HH22	2.17	0.54
40:DF:113:ALA:HB1	40:DF:186:ILE:HG21	1.89	0.54
40:DF:192:LEU:HD23	40:DF:193:VAL:N	2.22	0.54
41:DG:9:ARG:O	41:DG:10:LYS:C	2.50	0.54
41:DG:40:ASN:OD1	41:DG:40:ASN:C	2.51	0.54
41:DG:124:SER:HB2	41:DG:131:TYR:HE1	1.66	0.54
42:DH:41:MET:HG2	42:DH:54:ARG:HA	1.88	0.54
46:DN:55:VAL:HG21	46:DN:127:ASP:H	1.73	0.54
54:DV:78:LYS:C	54:DV:79:VAL:HG23	2.32	0.54
56:DX:55:ASN:HB2	56:DX:80:ILE:HG12	1.90	0.54
57:DY:2:ARG:O	57:DY:4:LYS:N	2.40	0.54
57:DY:28:LYS:HB2	57:DY:38:ILE:N	2.19	0.54
58:DZ:40:ASP:HB3	58:DZ:43:GLU:CB	2.36	0.54
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.08	0.54
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.07	0.54
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.08	0.54
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.08	0.54
4:AD:11:LEU:HD23	4:AD:11:LEU:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:67:VAL:HG21	5:AE:140:ARG:HA	1.89	0.54
16:AP:72:ARG:NH2	16:AP:73:LEU:HD21	2.23	0.54
24:AY:73:LEU:C	24:AY:73:LEU:HD13	2.33	0.54
25:B0:65:GLY:HA2	25:B0:84:LEU:CD1	2.37	0.54
28:B3:46:ASN:O	28:B3:50:VAL:HG22	2.07	0.54
33:B8:21:LYS:HD3	33:B8:48:PHE:CZ	2.43	0.54
34:B9:15:LYS:HZ1	35:BA:2753:A:H1'	1.71	0.54
35:BA:271(D):G:O2'	35:BA:271(E):U:H5'	2.07	0.54
35:BA:271(T):C:H6	35:BA:271(T):C:C5'	2.18	0.54
35:BA:373:U:H2'	35:BA:374:A:H8	1.72	0.54
35:BA:942:G:H5'	48:BP:35:HIS:HB2	1.90	0.54
35:BA:1021:A:C8	35:BA:1021:A:C3'	2.89	0.54
35:BA:1479:G:H5'	35:BA:1558:A:C2	2.42	0.54
35:BA:1614:A:N1	55:BW:91:GLY:HA2	2.23	0.54
38:BD:64:ILE:H	38:BD:64:ILE:CD1	2.18	0.54
39:BE:21:VAL:O	39:BE:21:VAL:HG23	2.08	0.54
39:BE:48:GLN:NE2	39:BE:78:LEU:HD11	2.22	0.54
41:BG:88:ILE:HG13	41:BG:89:GLY:N	2.22	0.54
42:BH:88:LEU:C	42:BH:89:ILE:HG13	2.33	0.54
43:BI:14:ASP:H	43:BI:17:GLN:NE2	2.05	0.54
45:BK:103:GLN:HA	45:BK:106:GLU:OE1	2.08	0.54
45:BK:136:VAL:O	45:BK:136:VAL:HG13	2.07	0.54
48:BP:48:PRO:O	48:BP:49:ARG:C	2.50	0.54
51:BS:16:ASN:C	51:BS:17:ARG:O	2.49	0.54
58:BZ:108:PRO:HB3	58:BZ:141:VAL:O	2.07	0.54
1:CA:82:U:O2'	1:CA:83:U:H5'	2.07	0.54
1:CA:164:U:H2'	1:CA:165:C:H6	1.73	0.54
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.42	0.54
2:CB:36:ARG:H	2:CB:41:ILE:CD1	2.16	0.54
2:CB:142:LEU:HD11	2:CB:146:GLN:HE21	1.71	0.54
3:CC:11:ARG:HG2	3:CC:11:ARG:HH11	1.72	0.54
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.55	0.54
5:CE:13:ILE:HA	5:CE:29:GLY:O	2.08	0.54
13:CM:27:LYS:O	13:CM:30:ALA:HB3	2.08	0.54
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.08	0.54
15:CO:25:THR:HG21	15:CO:70:LEU:HB2	1.89	0.54
19:CS:66:MET:HA	19:CS:69:HIS:HD2	1.73	0.54
24:CY:249:VAL:HG22	24:CY:250:ARG:N	2.22	0.54
26:D1:84:GLY:O	26:D1:85:LEU:C	2.51	0.54
28:D3:3:ARG:O	28:D3:4:LEU:C	2.51	0.54
28:D3:56:VAL:HG12	28:D3:57:GLU:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:55:ARG:C	30:D5:56:LYS:HD2	2.32	0.54
35:DA:1171:G:H5"	35:DA:1173:G:H5"	1.90	0.54
35:DA:1654:A:P	50:DR:3:HIS:HB2	2.47	0.54
35:DA:1906:G:O2'	35:DA:1907:G:H5'	2.07	0.54
35:DA:1924:C:O2'	35:DA:1925:C:H5'	2.07	0.54
35:DA:2010:G:H5"	55:DW:42:ARG:HB2	1.88	0.54
35:DA:2262:U:O2'	35:DA:2263:C:H5"	2.07	0.54
35:DA:2283:C:H2'	35:DA:2284:C:C5'	2.35	0.54
35:DA:2302:G:C2'	35:DA:2303:G:H5'	2.37	0.54
35:DA:2672:G:H3'	35:DA:2673:G:H5"	1.88	0.54
35:DA:2732:G:C3'	35:DA:2733:A:H5'	2.38	0.54
37:DC:75:LEU:HB3	37:DC:120:MET:HA	1.89	0.54
42:DH:154:PRO:O	42:DH:155:SER:CB	2.56	0.54
47:DO:64:ARG:CZ	52:DT:70:VAL:HG21	2.38	0.54
47:DO:87:ILE:HG21	47:DO:91:LEU:HA	1.90	0.54
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	2.07	0.54
49:DQ:55:VAL:O	49:DQ:56:ARG:C	2.50	0.54
52:DT:32:TYR:CD2	52:DT:81:PRO:O	2.61	0.54
5:AE:76:ILE:HD11	5:AE:142:LEU:CD2	2.35	0.54
6:AF:40:VAL:HG23	6:AF:63:TYR:HD1	1.72	0.54
14:AN:3:ARG:HB3	14:AN:3:ARG:HH11	1.71	0.54
20:AT:91:LEU:O	20:AT:94:ALA:HB3	2.07	0.54
22:AW:6:G:O2'	22:AW:7:A:H5'	2.07	0.54
25:B0:65:GLY:HA2	25:B0:84:LEU:HD11	1.89	0.54
35:BA:1501:C:H1'	38:BD:100:GLY:HA2	1.88	0.54
35:BA:1841:U:O2'	38:BD:244:ARG:NH2	2.41	0.54
37:BC:86:ALA:HB1	37:BC:94:VAL:HG11	1.90	0.54
38:BD:132:PRO:HD3	38:BD:190:TYR:CZ	2.42	0.54
40:BF:9:ILE:HG12	40:BF:14:PRO:C	2.32	0.54
43:BI:122:GLU:HB3	43:BI:126:TYR:OH	2.08	0.54
52:BT:82:LEU:C	52:BT:84:GLN:H	2.16	0.54
53:BU:55:ARG:HA	53:BU:58:ARG:HG3	1.90	0.54
57:BY:40:GLU:HA	57:BY:40:GLU:OE2	2.07	0.54
1:CA:17:U:H2'	1:CA:18:C:H6	1.67	0.54
1:CA:599:C:O2'	1:CA:600:C:H5'	2.07	0.54
1:CA:620:C:C2	4:CD:135:LEU:HG	2.42	0.54
1:CA:1001(A):G:H2'	1:CA:1002:G:C8	2.42	0.54
1:CA:1060:C:O4'	10:CJ:52:GLY:HA2	2.08	0.54
1:CA:1502:A:H2	1:CA:1505:G:H1	1.54	0.54
3:CC:67:THR:HG23	3:CC:102:ASN:CB	2.38	0.54
4:CD:18:LYS:HA	4:CD:33:MET:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:106:ALA:O	9:CI:108:VAL:HG22	2.08	0.54
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.38	0.54
12:CL:32:PHE:CD1	12:CL:84:LEU:HD21	2.42	0.54
12:CL:119:LYS:C	12:CL:120:TYR:CD1	2.86	0.54
24:CY:121:GLN:HE21	24:CY:166:TYR:HD2	1.55	0.54
26:D1:93:GLU:C	26:D1:95:LEU:H	2.14	0.54
27:D2:68:ARG:O	27:D2:69:ARG:HG3	2.08	0.54
30:D5:35:GLU:HB2	30:D5:49:CYS:HB2	1.89	0.54
31:D6:23:THR:HG21	35:DA:2419:U:H5'	1.90	0.54
35:DA:18:C:H4'	53:DU:23:GLY:O	2.08	0.54
35:DA:1005:C:H2'	35:DA:1006:C:H6	1.73	0.54
35:DA:1081:U:H2'	35:DA:1082:U:C6	2.42	0.54
35:DA:1107:G:H2'	35:DA:1108:U:C6	2.43	0.54
35:DA:1885:A:H5'	35:DA:1885:A:H8	1.73	0.54
35:DA:1980:G:O2'	35:DA:1982:C:OP2	2.26	0.54
37:DC:66:HIS:HB2	37:DC:189:ILE:CB	2.38	0.54
38:DD:260:ARG:O	38:DD:261:LYS:C	2.48	0.54
40:DF:25:PRO:HG3	40:DF:119:ARG:CB	2.38	0.54
40:DF:165:ARG:HH11	40:DF:165:ARG:HG3	1.73	0.54
42:DH:68:THR:O	42:DH:72:ILE:HG12	2.08	0.54
42:DH:85:LYS:HD3	42:DH:133:VAL:HB	1.88	0.54
48:DP:112:LEU:HD22	48:DP:114:ILE:HD12	1.88	0.54
49:DQ:141:GLN:H	58:DZ:99:TYR:CB	2.13	0.54
57:DY:96:ILE:HD12	57:DY:99:CYS:CB	2.37	0.54
58:DZ:119:GLU:OE1	58:DZ:122:ARG:HB2	2.08	0.54
1:AA:542:G:H2'	1:AA:543:C:C6	2.43	0.54
1:AA:674:G:N2	11:AK:116:HIS:HB2	2.23	0.54
1:AA:1001(A):G:H2'	1:AA:1002:G:C8	2.42	0.54
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.71	0.54
2:AB:30:ARG:C	2:AB:32:ILE:H	2.14	0.54
2:AB:178:ARG:HH21	8:AH:74:PRO:HG3	1.73	0.54
8:AH:82:HIS:CE1	8:AH:84:ARG:HB2	2.43	0.54
9:AI:48:GLU:O	9:AI:50:LEU:N	2.40	0.54
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	2.08	0.54
13:AM:9:ILE:HD13	41:BG:146:TYR:CZ	2.43	0.54
13:AM:48:LEU:HD23	13:AM:48:LEU:N	2.23	0.54
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.48	0.54
16:AP:47:ASP:C	16:AP:49:LEU:H	2.16	0.54
18:AR:88:LYS:HE2	18:AR:88:LYS:O	2.07	0.54
24:AY:88:LYS:N	24:AY:89:PRO:HD2	2.23	0.54
33:B8:59:LYS:HG3	48:BP:50:ARG:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(M):G:C3'	35:BA:271(N):U:H5"	2.38	0.54
35:BA:1345:C:H2'	35:BA:1346:G:C8	2.43	0.54
35:BA:2262:U:C2'	35:BA:2263:C:C5'	2.84	0.54
35:BA:2639:A:H2'	35:BA:2640:G:H5'	1.90	0.54
36:BB:28:C:O2'	36:BB:29:A:H5'	2.08	0.54
38:BD:92:ILE:HG22	38:BD:93:ALA:N	2.21	0.54
39:BE:48:GLN:NE2	39:BE:78:LEU:CD1	2.70	0.54
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.23	0.54
54:BV:39:LEU:HA	54:BV:47:VAL:HG22	1.90	0.54
56:BX:15:GLU:CD	56:BX:15:GLU:N	2.62	0.54
1:CA:411:A:N6	1:CA:413:G:H21	2.05	0.54
1:CA:521:G:O2'	1:CA:522:C:H5'	2.08	0.54
1:CA:1277:C:O2'	1:CA:1279:A:H8	1.91	0.54
1:CA:1446:U:H1'	1:CA:1456:G:O6	2.08	0.54
1:CA:1487:G:O2'	1:CA:1488:G:H5'	2.08	0.54
2:CB:16:HIS:CD2	2:CB:210:SER:HA	2.42	0.54
2:CB:113:HIS:O	2:CB:117:GLU:HG3	2.07	0.54
4:CD:49:ARG:HD3	4:CD:50:ARG:H	1.73	0.54
12:CL:47:LYS:CB	12:CL:48:PRO:CD	2.79	0.54
12:CL:47:LYS:HA	12:CL:47:LYS:HE3	1.89	0.54
18:CR:86:VAL:C	18:CR:87:ARG:HD3	2.33	0.54
30:D5:2:ALA:N	35:DA:2015:A:N3	2.56	0.54
32:D7:47:ARG:C	32:D7:48:LYS:HD3	2.32	0.54
35:DA:271(C):C:H2'	35:DA:271(D):G:H8	1.73	0.54
35:DA:691:C:O2'	35:DA:692:C:H5'	2.07	0.54
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.42	0.54
35:DA:855:G:H1	35:DA:922:U:H3	1.56	0.54
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.73	0.54
35:DA:1899:G:H21	35:DA:1902:C:H5	1.55	0.54
35:DA:2201:C:O2'	35:DA:2202:C:H5'	2.08	0.54
35:DA:2639:A:H2'	35:DA:2640:G:H5'	1.89	0.54
37:DC:86:ALA:HB1	37:DC:94:VAL:HG11	1.90	0.54
40:DF:199:TRP:O	40:DF:203:GLN:HG2	2.08	0.54
42:DH:41:MET:CG	42:DH:55:PRO:HD3	2.36	0.54
42:DH:88:LEU:HD22	42:DH:88:LEU:N	2.22	0.54
45:DK:102:GLU:HG2	45:DK:103:GLN:N	2.23	0.54
46:DN:58:ASP:OD2	46:DN:59:LYS:HG2	2.07	0.54
46:DN:132:ALA:O	46:DN:133:GLN:HB3	2.08	0.54
46:DN:133:GLN:CG	46:DN:135:PRO:HD3	2.31	0.54
48:DP:98:GLU:O	48:DP:101:VAL:HG12	2.07	0.54
48:DP:138:LEU:O	48:DP:140:ALA:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:20:ARG:HG3	51:DS:25:ARG:HD2	1.90	0.54
51:DS:33:LYS:HB3	51:DS:34:HIS:CD2	2.43	0.54
54:DV:25:LEU:H	54:DV:92:THR:HG21	1.72	0.54
1:AA:110:C:O2'	1:AA:111:G:O5'	2.25	0.54
1:AA:711:G:O2'	1:AA:712:A:H5'	2.08	0.54
1:AA:716:A:N3	11:AK:117:ASN:O	2.41	0.54
1:AA:980:C:H2'	1:AA:981:U:H5'	1.90	0.54
4:AD:70:ILE:HG12	4:AD:71:SER:N	2.23	0.54
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.88	0.54
6:AF:42:GLU:C	6:AF:44:GLY:H	2.16	0.54
8:AH:87:SER:HA	8:AH:93:VAL:HG23	1.89	0.54
9:AI:78:LYS:HB2	9:AI:78:LYS:HZ3	1.73	0.54
10:AJ:22:LYS:HD2	10:AJ:22:LYS:C	2.33	0.54
10:AJ:48:THR:HG22	10:AJ:49:VAL:N	2.22	0.54
11:AK:127:LYS:HE2	11:AK:127:LYS:HA	1.90	0.54
18:AR:22:VAL:O	18:AR:22:VAL:HG12	2.08	0.54
24:AY:57:ARG:O	24:AY:61:THR:HG22	2.08	0.54
24:AY:223:LYS:O	24:AY:226:GLU:HB2	2.07	0.54
24:AY:315:VAL:HG21	24:AY:320:TYR:CD2	2.43	0.54
26:B1:3:LYS:HG3	26:B1:4:VAL:N	2.16	0.54
26:B1:29:GLY:C	26:B1:31:GLY:H	2.11	0.54
26:B1:32:LYS:C	26:B1:33:LYS:HG2	2.33	0.54
28:B3:11:SER:HB3	35:BA:988:A:P	2.47	0.54
28:B3:45:GLY:HA2	28:B3:48:GLU:CD	2.32	0.54
35:BA:773:U:H4'	38:BD:47:GLY:CA	2.36	0.54
35:BA:1722:A:C2	35:BA:1740:G:H8	2.26	0.54
35:BA:1756:G:H4'	35:BA:1758:G:O4'	2.08	0.54
35:BA:2646:C:OP2	35:BA:2732:G:O2'	2.21	0.54
35:BA:2827:C:O2	35:BA:2827:C:H2'	2.08	0.54
38:BD:166:GLN:HE21	38:BD:166:GLN:CA	2.19	0.54
39:BE:82:ARG:O	39:BE:84:PHE:N	2.38	0.54
41:BG:114:ILE:HA	41:BG:140:ILE:CD1	2.37	0.54
42:BH:96:ALA:CB	42:BH:105:LEU:HA	2.38	0.54
42:BH:138:LYS:O	42:BH:141:VAL:N	2.38	0.54
43:BI:123:LEU:HD23	43:BI:123:LEU:C	2.33	0.54
46:BN:55:VAL:HG21	46:BN:127:ASP:H	1.73	0.54
51:BS:85:VAL:O	51:BS:106:ARG:HA	2.08	0.54
51:BS:93:LYS:O	51:BS:93:LYS:HG3	2.07	0.54
53:BU:50:ARG:HH22	54:BV:72:VAL:HG12	1.73	0.54
53:BU:76:TYR:CE2	53:BU:80:ILE:HG13	2.42	0.54
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:858:G:O6	1:CA:869:G:H3'	2.08	0.54
1:CA:1224:G:O2'	1:CA:1225:A:OP1	2.24	0.54
3:CC:22:TRP:CZ3	3:CC:24:ALA:HB2	2.41	0.54
4:CD:96:LEU:HD23	4:CD:139:ARG:NH1	2.23	0.54
4:CD:104:VAL:C	4:CD:106:TYR:H	2.16	0.54
10:CJ:31:GLY:HA3	10:CJ:78:ASN:ND2	2.23	0.54
11:CK:88:GLY:O	11:CK:91:ARG:HB2	2.08	0.54
17:CQ:56:VAL:O	17:CQ:77:VAL:HB	2.07	0.54
19:CS:20:LEU:HA	19:CS:23:ASN:ND2	2.15	0.54
22:CV:20:U:H3'	22:CV:21:A:C5'	2.38	0.54
24:CY:41:ASP:N	24:CY:42:PRO:CD	2.68	0.54
26:D1:19:GLN:HB2	26:D1:35:THR:HG22	1.88	0.54
27:D2:10:LEU:O	27:D2:14:ARG:HG3	2.08	0.54
28:D3:40:THR:OG1	28:D3:43:ILE:HG12	2.08	0.54
28:D3:45:GLY:HA2	28:D3:48:GLU:OE2	2.08	0.54
29:D4:46:ASN:ND2	29:D4:47:VAL:N	2.55	0.54
35:DA:271(T):C:H6	35:DA:271(T):C:C5'	2.20	0.54
35:DA:826:U:H2'	35:DA:828:U:O4'	2.08	0.54
35:DA:1056:G:H4'	35:DA:1086:A:H8	1.73	0.54
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.43	0.54
35:DA:2094:G:OP1	59:DI:22:LYS:HD2	2.08	0.54
35:DA:2846:G:P	52:DT:54:ARG:HB2	2.47	0.54
37:DC:47:LEU:H	37:DC:47:LEU:HD23	1.73	0.54
38:DD:201:HIS:C	38:DD:203:ASN:H	2.16	0.54
42:DH:20:ALA:HB1	42:DH:21:PRO:HD3	1.90	0.54
45:DK:27:LEU:N	45:DK:27:LEU:HD23	2.23	0.54
45:DK:82:ALA:HB2	45:DK:99:ILE:CD1	2.37	0.54
46:DN:10:GLU:OE2	46:DN:11:PRO:HD2	2.07	0.54
46:DN:26:LEU:HD11	46:DN:30:ILE:HD11	1.90	0.54
48:DP:46:LYS:HG2	48:DP:52:GLU:OE2	2.08	0.54
50:DR:4:LEU:C	50:DR:6:SER:N	2.61	0.54
54:DV:25:LEU:C	54:DV:27:ALA:H	2.16	0.54
58:DZ:126:VAL:HG12	58:DZ:163:LEU:HA	1.89	0.54
1:AA:148:G:H2'	1:AA:149:A:H8	1.71	0.53
1:AA:443:C:H2'	1:AA:444:C:H6	1.73	0.53
1:AA:577:G:H2'	1:AA:578:C:H6	1.71	0.53
1:AA:956:U:O2'	1:AA:957:U:H5'	2.08	0.53
2:AB:166:ASP:HB3	2:AB:169:LYS:CB	2.38	0.53
4:AD:30:LYS:C	4:AD:32:ALA:N	2.55	0.53
10:AJ:62:HIS:CD2	10:AJ:62:HIS:N	2.76	0.53
11:AK:58:PRO:HD3	11:AK:89:ALA:HB1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:6:ARG:NE	21:AU:15:ARG:HH21	2.05	0.53
25:B0:77:ARG:HH22	35:BA:857:C:H5'	1.73	0.53
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.88	0.53
31:B6:11:LEU:O	31:B6:23:THR:HA	2.08	0.53
35:BA:359:A:H2'	35:BA:360:G:O4'	2.08	0.53
35:BA:724:U:O2'	35:BA:725:G:H5'	2.08	0.53
35:BA:1081:U:H2'	35:BA:1082:U:C6	2.43	0.53
35:BA:1388:G:O2'	35:BA:1389:G:H5'	2.09	0.53
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.73	0.53
35:BA:2476:A:C2	35:BA:2477:C:C4	2.96	0.53
35:BA:2846:G:P	52:BT:54:ARG:HB2	2.47	0.53
35:BA:2849:U:OP2	52:BT:95:ARG:NH1	2.42	0.53
41:BG:139:LEU:HD23	41:BG:139:LEU:N	2.23	0.53
42:BH:77:LYS:HA	42:BH:80:SER:HB2	1.89	0.53
42:BH:85:LYS:HD3	42:BH:133:VAL:HB	1.89	0.53
43:BI:109:ILE:HD13	43:BI:109:ILE:H	1.71	0.53
45:BK:41:PHE:C	45:BK:43:ALA:H	2.14	0.53
45:BK:82:ALA:HB2	45:BK:99:ILE:CD1	2.37	0.53
48:BP:125:VAL:O	48:BP:145:PRO:HD2	2.08	0.53
48:BP:140:ALA:O	48:BP:141:ALA:CB	2.55	0.53
1:CA:118:U:O4	1:CA:288:A:H2'	2.07	0.53
1:CA:443:C:H2'	1:CA:444:C:H6	1.74	0.53
1:CA:1430:C:H2'	1:CA:1431:C:C6	2.43	0.53
2:CB:111:ARG:HH11	2:CB:111:ARG:HG2	1.72	0.53
3:CC:180:ALA:HB1	3:CC:203:PHE:CE1	2.42	0.53
19:CS:41:VAL:O	19:CS:44:MET:SD	2.66	0.53
26:D1:81:LYS:HG2	35:DA:271(H):G:H4'	1.89	0.53
35:DA:858:U:O2	35:DA:2268:A:H2'	2.08	0.53
35:DA:1842:G:H2'	35:DA:1843:C:C6	2.43	0.53
35:DA:2201:C:H2'	35:DA:2202:C:C6	2.43	0.53
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.41	0.53
35:DA:2807:G:C3'	35:DA:2808:U:H5"	2.39	0.53
35:DA:2850:A:H2'	35:DA:2851:A:C8	2.43	0.53
38:DD:34:VAL:O	38:DD:35:LYS:HD3	2.08	0.53
41:DG:130:ASN:HB3	41:DG:160:VAL:HA	1.90	0.53
48:DP:134:ALA:C	48:DP:136:GLU:N	2.65	0.53
51:DS:17:ARG:O	51:DS:19:LYS:N	2.41	0.53
51:DS:74:ALA:O	51:DS:77:ALA:HB3	2.08	0.53
53:DU:79:PHE:CE2	53:DU:83:LEU:HD13	2.42	0.53
57:DY:8:LYS:HG2	57:DY:13:VAL:HG11	1.90	0.53
1:AA:36:C:O3'	12:AL:123:LYS:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.08	0.53
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.90	0.53
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.61	0.53
11:AK:120:ARG:HG3	11:AK:120:ARG:HH11	1.73	0.53
12:AL:55:VAL:HG13	12:AL:68:ALA:O	2.08	0.53
24:AY:139:MET:HE3	24:AY:341:LEU:HD11	1.89	0.53
33:B8:43:GLN:O	33:B8:44:LYS:HD2	2.08	0.53
35:BA:519:U:H2'	35:BA:520:G:C8	2.42	0.53
35:BA:2061:G:H5"	35:BA:2503:A:C2	2.43	0.53
35:BA:2188:C:H2'	35:BA:2189:U:C1'	2.38	0.53
35:BA:2201:C:H2'	35:BA:2202:C:C6	2.44	0.53
38:BD:12:SER:HB2	38:BD:208:LYS:HB3	1.90	0.53
40:BF:32:LEU:HD11	40:BF:105:VAL:HG13	1.90	0.53
43:BI:65:ALA:HB1	43:BI:132:PRO:HB2	1.91	0.53
45:BK:88:ALA:O	45:BK:89:HIS:HB2	2.07	0.53
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	2.08	0.53
1:CA:1375:A:H2'	1:CA:1376:U:C6	2.43	0.53
2:CB:14:GLY:O	2:CB:15:VAL:HG13	2.08	0.53
3:CC:100:ALA:O	3:CC:101:LEU:HB2	2.09	0.53
7:CG:70:LYS:HB3	7:CG:96:GLN:HG2	1.90	0.53
8:CH:123:GLU:O	8:CH:126:LYS:HB3	2.08	0.53
9:CI:48:GLU:O	9:CI:50:LEU:N	2.40	0.53
10:CJ:13:HIS:C	10:CJ:15:THR:H	2.14	0.53
13:CM:48:LEU:N	13:CM:48:LEU:HD23	2.23	0.53
19:CS:62:ILE:HG23	19:CS:62:ILE:O	2.08	0.53
24:CY:54:ARG:HH11	24:CY:54:ARG:CG	2.19	0.53
28:D3:44:ARG:C	28:D3:48:GLU:HG3	2.34	0.53
33:D8:33:ASN:CB	33:D8:36:LYS:HD2	2.37	0.53
35:DA:256:A:H2'	35:DA:257:A:C8	2.43	0.53
35:DA:271(P):C:C5'	59:DI:46:ALA:HB2	2.39	0.53
35:DA:347:A:H2'	35:DA:348:G:H8	1.74	0.53
35:DA:1209:G:H21	35:DA:1210:A:H62	1.54	0.53
35:DA:1991:U:H2'	35:DA:1992:G:H5"	1.89	0.53
35:DA:2015:A:H5'	55:DW:92:ARG:NH2	2.23	0.53
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.44	0.53
35:DA:2543:G:H2'	35:DA:2544:G:H8	1.72	0.53
38:DD:91:ARG:HG2	38:DD:91:ARG:NH1	2.23	0.53
39:DE:120:TRP:CE2	39:DE:155:LYS:HD3	2.42	0.53
40:DF:28:ILE:O	40:DF:30:PRO:HD3	2.08	0.53
41:DG:64:THR:HG23	41:DG:65:GLY:N	2.23	0.53
41:DG:131:TYR:HB3	41:DG:159:VAL:CG2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DI:10:GLU:O	59:DI:12:LEU:CD2	2.55	0.53
59:DI:90:GLY:O	59:DI:121:LYS:NZ	2.38	0.53
46:DN:17:ASP:OD2	46:DN:56:ASN:HB3	2.08	0.53
48:DP:10:PRO:CD	48:DP:11:GLY:H	2.20	0.53
48:DP:135:LEU:O	48:DP:135:LEU:HD13	2.09	0.53
52:DT:1:MET:HG3	52:DT:2:ASN:H	1.72	0.53
54:DV:39:LEU:O	54:DV:40:LEU:HG	2.08	0.53
58:DZ:150:LEU:HD22	58:DZ:171:ILE:HD11	1.91	0.53
1:AA:777:A:H2'	1:AA:778:G:H8	1.73	0.53
1:AA:925:G:H4'	1:AA:1502:A:N1	2.23	0.53
1:AA:959:A:H2'	1:AA:960:U:C4'	2.39	0.53
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.73	0.53
2:AB:17:PHE:CD1	2:AB:44:LEU:HD11	2.43	0.53
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.00	0.53
7:AG:6:ARG:HG2	7:AG:6:ARG:O	2.08	0.53
10:AJ:18:ALA:O	10:AJ:22:LYS:HB2	2.08	0.53
24:AY:115:ASN:OD1	24:AY:172:LYS:HA	2.09	0.53
27:B2:35:LEU:O	27:B2:39:ALA:HB2	2.09	0.53
35:BA:469:G:O2'	35:BA:470:A:H5"	2.09	0.53
35:BA:557:U:O2'	35:BA:558:G:H5'	2.08	0.53
35:BA:1844:C:O2'	35:BA:1845:G:H5'	2.09	0.53
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.43	0.53
38:BD:75:ILE:O	38:BD:118:VAL:HG23	2.09	0.53
40:BF:40:GLN:OE1	40:BF:184:TYR:HB2	2.08	0.53
43:BI:126:TYR:O	43:BI:141:LYS:HA	2.08	0.53
46:BN:46:VAL:O	46:BN:47:ALA:CB	2.57	0.53
52:BT:6:LEU:O	52:BT:6:LEU:HD23	2.09	0.53
57:BY:29:GLU:N	57:BY:29:GLU:CD	2.66	0.53
58:BZ:124:ILE:HG12	58:BZ:125:LEU:N	2.23	0.53
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.43	0.53
2:CB:17:PHE:CD1	2:CB:44:LEU:HD11	2.42	0.53
8:CH:97:VAL:CG1	8:CH:98:LYS:N	2.72	0.53
11:CK:59:TYR:CZ	11:CK:63:LEU:HD12	2.43	0.53
20:CT:57:ARG:HH12	20:CT:102:GLY:CA	2.20	0.53
22:CW:71:G:H8	22:CW:71:G:H5'	1.72	0.53
24:CY:10:LEU:HB2	24:CY:14:ARG:HH11	1.74	0.53
35:DA:271(D):G:O2'	35:DA:271(E):U:H5'	2.07	0.53
35:DA:576:U:H2'	35:DA:577:G:C8	2.42	0.53
35:DA:626:U:H3	48:DP:105:LEU:HB3	1.73	0.53
35:DA:1427:A:H4'	35:DA:1428:C:O5'	2.07	0.53
35:DA:1481:U:H5'	35:DA:1482:G:OP2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2115:G:H3'	35:DA:2116:G:H5'	1.89	0.53
35:DA:2131:G:H5"	35:DA:2132:U:H5"	1.89	0.53
37:DC:37:PHE:O	37:DC:39:GLU:HG3	2.09	0.53
39:DE:59:VAL:HG21	39:DE:63:LEU:HA	1.89	0.53
40:DF:160:ASN:HD22	40:DF:160:ASN:C	2.15	0.53
40:DF:187:VAL:HG13	48:DP:5:ASP:O	2.09	0.53
46:DN:22:THR:HB	46:DN:25:ARG:HB2	1.89	0.53
46:DN:25:ARG:HH11	46:DN:25:ARG:CG	2.21	0.53
48:DP:24:GLY:CA	48:DP:33:ARG:NH1	2.71	0.53
48:DP:127:ALA:HB3	48:DP:130:PHE:CE2	2.43	0.53
51:DS:93:LYS:HG3	51:DS:93:LYS:O	2.08	0.53
52:DT:66:VAL:HG12	52:DT:66:VAL:O	2.07	0.53
52:DT:82:LEU:C	52:DT:84:GLN:N	2.64	0.53
53:DU:89:GLU:N	53:DU:89:GLU:OE1	2.42	0.53
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.38	0.53
1:AA:9:G:H2'	1:AA:10:A:C8	2.44	0.53
1:AA:614:A:C2	1:AA:627:G:C2	2.97	0.53
1:AA:892:A:H2'	1:AA:893:C:C6	2.43	0.53
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.74	0.53
3:AC:52:LEU:H	3:AC:52:LEU:CD2	2.17	0.53
4:AD:104:VAL:C	4:AD:106:TYR:H	2.15	0.53
7:AG:70:LYS:HB3	7:AG:96:GLN:HG2	1.90	0.53
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.38	0.53
10:AJ:40:LEU:H	10:AJ:40:LEU:CD2	2.15	0.53
10:AJ:75:ILE:CG1	10:AJ:76:ASN:H	2.21	0.53
12:AL:83:VAL:HG22	12:AL:84:LEU:H	1.72	0.53
15:AO:43:LEU:C	15:AO:45:VAL:N	2.64	0.53
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.52	0.53
19:AS:58:VAL:O	19:AS:58:VAL:HG23	2.09	0.53
25:B0:28:GLY:O	25:B0:66:VAL:HG13	2.08	0.53
33:B8:12:LYS:HE2	35:BA:249:C:O2	2.09	0.53
35:BA:2201:C:O2'	35:BA:2202:C:H5'	2.08	0.53
35:BA:2481:G:O2'	35:BA:2482:G:P	2.67	0.53
36:BB:65:C:H2'	36:BB:109:C:H41	1.74	0.53
38:BD:95:LEU:HD13	38:BD:97:TYR:CE1	2.43	0.53
39:BE:34:VAL:O	39:BE:35:GLN:CB	2.56	0.53
42:BH:41:MET:CG	42:BH:55:PRO:HD3	2.38	0.53
42:BH:158:HIS:CE1	42:BH:169:VAL:O	2.62	0.53
45:BK:102:GLU:HG2	45:BK:103:GLN:N	2.24	0.53
46:BN:42:TRP:CE3	46:BN:48:MET:HE1	2.43	0.53
52:BT:33:LYS:HZ2	52:BT:74:ARG:HH21	1.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:90:VAL:O	53:BU:92:ARG:N	2.32	0.53
1:CA:169:C:C2'	1:CA:170:U:H5'	2.38	0.53
1:CA:424:G:H2'	1:CA:425:G:C8	2.36	0.53
1:CA:1262:C:H42	1:CA:1273:G:H1	1.57	0.53
1:CA:1321:C:H5"	1:CA:1322:C:H5"	1.91	0.53
1:CA:1472:U:O2'	1:CA:1473:A:H5'	2.08	0.53
4:CD:203:VAL:HG12	4:CD:203:VAL:O	2.08	0.53
7:CG:155:ARG:O	7:CG:156:TRP:HD1	1.92	0.53
10:CJ:3:LYS:N	10:CJ:74:ILE:O	2.41	0.53
13:CM:108:ARG:HH12	13:CM:111:LYS:HB2	1.73	0.53
19:CS:43:GLU:OE1	19:CS:44:MET:HE3	2.08	0.53
24:CY:54:ARG:CD	24:CY:101:LEU:HD21	2.31	0.53
25:D0:84:LEU:HD12	25:D0:84:LEU:H	1.73	0.53
30:D5:6:VAL:HG13	30:D5:7:PRO:HD2	1.91	0.53
31:D6:25:LYS:HD2	33:D8:34:TRP:CZ2	2.43	0.53
35:DA:225:A:H2'	35:DA:226:G:H5'	1.91	0.53
35:DA:909:A:H2'	35:DA:912:C:H5	1.73	0.53
35:DA:2511:U:H2'	35:DA:2512:C:C6	2.43	0.53
39:DE:48:GLN:HE21	39:DE:78:LEU:HD12	1.69	0.53
41:DG:109:VAL:HG11	41:DG:142:PRO:HG3	1.91	0.53
42:DH:25:LYS:HA	42:DH:33:LEU:O	2.08	0.53
45:DK:103:GLN:HA	45:DK:106:GLU:OE1	2.08	0.53
45:DK:131:ALA:C	45:DK:133:SER:N	2.66	0.53
51:DS:101:LEU:HD13	51:DS:101:LEU:N	2.22	0.53
52:DT:28:VAL:HG22	52:DT:46:GLU:HA	1.91	0.53
55:DW:29:LEU:HD11	55:DW:33:ARG:HE	1.73	0.53
57:DY:2:ARG:N	57:DY:5:MET:HG2	2.23	0.53
57:DY:2:ARG:O	57:DY:4:LYS:HG3	2.07	0.53
57:DY:8:LYS:H	57:DY:8:LYS:CD	2.18	0.53
57:DY:97:ARG:HG3	57:DY:97:ARG:HH11	1.74	0.53
58:DZ:74:VAL:HG13	58:DZ:86:VAL:HG12	1.90	0.53
1:AA:1502:A:H2	1:AA:1505:G:N2	2.05	0.53
4:AD:25:ARG:C	4:AD:27:TYR:H	2.17	0.53
4:AD:99:SER:O	4:AD:140:VAL:HG23	2.09	0.53
4:AD:145:GLU:HG2	4:AD:184:LYS:NZ	2.23	0.53
7:AG:148:ASN:O	7:AG:150:ALA:N	2.41	0.53
9:AI:10:ARG:HD3	9:AI:75:ASP:HB3	1.91	0.53
12:AL:81:SER:O	12:AL:82:VAL:CB	2.56	0.53
29:B4:64:LYS:HA	29:B4:64:LYS:HE3	1.91	0.53
35:BA:494:G:O2'	35:BA:495:G:H5'	2.08	0.53
35:BA:715:G:H2'	35:BA:716:A:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1058:G:H5”	45:BK:1:MET:SD	2.49	0.53
35:BA:1268:A:H2’	35:BA:1269:A:O4’	2.08	0.53
35:BA:1336:A:H2’	35:BA:1337:G:C8	2.43	0.53
35:BA:1336:A:H2’	35:BA:1337:G:H8	1.73	0.53
35:BA:2598:A:OP1	38:BD:235:GLY:HA3	2.09	0.53
35:BA:2732:G:H3’	35:BA:2733:A:C5’	2.38	0.53
37:BC:44:HIS:HA	37:BC:175:VAL:N	2.17	0.53
38:BD:40:THR:HG22	38:BD:41:GLY:N	2.22	0.53
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.90	0.53
40:BF:125:LEU:N	40:BF:125:LEU:HD22	2.24	0.53
45:BK:112:MET:N	45:BK:113:PRO:CD	2.72	0.53
54:BV:81:TYR:C	54:BV:82:ARG:HG3	2.33	0.53
57:BY:10:GLY:HA2	57:BY:27:VAL:CG1	2.35	0.53
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.26	0.53
1:CA:274:A:H4’	1:CA:275:G:OP1	2.08	0.53
1:CA:959:A:H2’	1:CA:960:U:C4’	2.39	0.53
1:CA:1188:A:H2’	1:CA:1189:C:O4’	2.08	0.53
1:CA:1288:A:N1	1:CA:1371:G:H1’	2.24	0.53
1:CA:1288:A:O2’	1:CA:1289:A:H5’	2.08	0.53
1:CA:1330:U:H4’	13:CM:23:TYR:CE2	2.44	0.53
2:CB:213:LEU:HD23	2:CB:213:LEU:C	2.33	0.53
5:CE:57:LYS:HG2	5:CE:61:TYR:HE2	1.73	0.53
9:CI:100:GLY:C	9:CI:102:LEU:N	2.66	0.53
11:CK:127:LYS:HE2	11:CK:127:LYS:HA	1.90	0.53
12:CL:105:TYR:O	12:CL:107:ALA:N	2.41	0.53
19:CS:14:HIS:O	19:CS:18:LYS:HE2	2.09	0.53
22:CV:63:G:H5’	22:CV:63:G:H8	1.74	0.53
24:CY:353:ALA:HA	24:CY:356:ARG:NE	2.23	0.53
26:D1:86:SER:HB2	26:D1:90:ILE:CG1	2.34	0.53
28:D3:45:GLY:HA2	28:D3:48:GLU:CD	2.34	0.53
30:D5:3:LYS:HG3	30:D5:4:HIS:N	2.19	0.53
35:DA:203:C:H3’	35:DA:204:A:H5”	1.90	0.53
35:DA:494:G:O2’	55:DW:5:ALA:O	2.27	0.53
35:DA:773:U:H4’	38:DD:47:GLY:CA	2.36	0.53
35:DA:2584:U:C2	35:DA:2585:U:H5	2.26	0.53
35:DA:2598:A:OP1	38:DD:235:GLY:HA3	2.08	0.53
36:DB:107:G:O2’	36:DB:108:U:H5’	2.08	0.53
39:DE:7:VAL:HG22	39:DE:27:LEU:HB3	1.91	0.53
39:DE:94:GLU:HG2	39:DE:177:PRO:HB3	1.91	0.53
41:DG:101:ILE:HD13	41:DG:101:ILE:C	2.34	0.53
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:106:PHE:O	53:DU:110:VAL:HG23	2.09	0.53
1:AA:562:C:H1'	12:AL:15:ARG:HB3	1.90	0.53
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.91	0.53
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.34	0.53
3:AC:67:THR:HG23	3:AC:102:ASN:CB	2.38	0.53
6:AF:97:PHE:HB2	18:AR:32:ARG:HH21	1.71	0.53
10:AJ:8:LEU:HD22	10:AJ:96:ILE:HG22	1.89	0.53
10:AJ:61:GLU:CG	14:AN:58:LYS:HE2	2.36	0.53
11:AK:88:GLY:O	11:AK:89:ALA:C	2.52	0.53
25:B0:54:GLY:O	25:B0:56:ASP:N	2.42	0.53
26:B1:88:LYS:CE	26:B1:92:LYS:HB2	2.39	0.53
28:B3:2:PRO:HB2	28:B3:59:VAL:H	1.73	0.53
28:B3:2:PRO:CG	28:B3:58:VAL:HG12	2.39	0.53
28:B3:4:LEU:HA	28:B3:57:GLU:O	2.09	0.53
30:B5:33:CYS:SG	30:B5:49:CYS:HB2	2.48	0.53
35:BA:390:A:N6	48:BP:71:VAL:HG21	2.22	0.53
35:BA:1063:G:O2'	45:BK:87:GLY:HA3	2.08	0.53
35:BA:1107:G:H2'	35:BA:1108:U:C6	2.44	0.53
35:BA:1209:G:H21	35:BA:1210:A:H62	1.57	0.53
38:BD:159:ALA:HB1	38:BD:198:ASN:O	2.09	0.53
41:BG:33:ARG:O	41:BG:162:THR:HG23	2.08	0.53
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	1.89	0.53
45:BK:131:ALA:C	45:BK:133:SER:N	2.66	0.53
46:BN:17:ASP:OD2	46:BN:56:ASN:HB3	2.08	0.53
48:BP:111:ARG:HA	48:BP:128:HIS:ND1	2.24	0.53
54:BV:21:ARG:HH11	54:BV:21:ARG:HG2	1.73	0.53
58:BZ:111:VAL:HG22	58:BZ:112:ARG:N	2.24	0.53
1:CA:834:C:H2'	1:CA:835:U:H6	1.73	0.53
1:CA:877:C:OP1	8:CH:88:LYS:HD3	2.08	0.53
1:CA:1104:G:O2'	1:CA:1105:A:H5'	2.09	0.53
2:CB:231:GLU:HB2	2:CB:232:PRO:CD	2.39	0.53
4:CD:155:LEU:HB2	4:CD:158:ILE:HG12	1.89	0.53
7:CG:77:SER:O	7:CG:78:ARG:HB2	2.09	0.53
7:CG:148:ASN:O	7:CG:150:ALA:N	2.42	0.53
8:CH:1:MET:CE	8:CH:3:THR:HG23	2.39	0.53
8:CH:82:HIS:CE1	8:CH:84:ARG:HB2	2.44	0.53
9:CI:90:PRO:C	9:CI:92:TYR:H	2.15	0.53
16:CP:15:PRO:HB3	16:CP:17:TYR:HE1	1.74	0.53
18:CR:88:LYS:HE2	18:CR:88:LYS:O	2.08	0.53
23:CX:23:G:N1	24:CY:128:GLU:OE2	2.42	0.53
25:D0:28:GLY:O	25:D0:66:VAL:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:118:A:H5'	35:DA:119:A:C8	2.41	0.53
35:DA:612:C:C3'	35:DA:613:G:H5"	2.37	0.53
35:DA:2199:A:H2'	35:DA:2199:A:N3	2.23	0.53
35:DA:2315:G:N2	41:DG:128:ARG:HH12	2.04	0.53
39:DE:40:GLU:N	39:DE:40:GLU:OE1	2.41	0.53
42:DH:18:GLU:HG3	42:DH:25:LYS:HG3	1.90	0.53
45:DK:19:PRO:O	45:DK:22:PRO:HD2	2.09	0.53
46:DN:120:LEU:HD13	46:DN:120:LEU:C	2.33	0.53
47:DO:69:ILE:HD12	47:DO:69:ILE:H	1.73	0.53
48:DP:7:ARG:HG2	48:DP:7:ARG:NH1	2.23	0.53
48:DP:100:LEU:H	48:DP:100:LEU:CD2	2.22	0.53
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.66	0.53
52:DT:31:SER:OG	52:DT:43:GLN:N	2.42	0.53
53:DU:26:GLY:C	53:DU:28:ARG:N	2.64	0.53
58:DZ:45:ASP:OD2	58:DZ:49:ARG:HG2	2.09	0.53
1:AA:60:A:H2	1:AA:107:G:N3	2.06	0.53
1:AA:160:A:H2'	1:AA:161:A:O4'	2.08	0.53
1:AA:475:G:H2'	1:AA:476:G:C8	2.44	0.53
1:AA:777:A:H2'	1:AA:778:G:C8	2.44	0.53
1:AA:1178:G:P	9:AI:93:ARG:HH21	2.31	0.53
2:AB:71:VAL:HG23	2:AB:164:VAL:HG22	1.89	0.53
3:AC:67:THR:HG23	3:AC:102:ASN:HB2	1.89	0.53
5:AE:76:ILE:CG2	5:AE:93:PRO:HB3	2.39	0.53
6:AF:62:TRP:CZ3	6:AF:64:GLN:HB2	2.44	0.53
9:AI:43:ALA:C	9:AI:45:ALA:N	2.66	0.53
9:AI:79:LEU:C	9:AI:79:LEU:HD13	2.34	0.53
11:AK:120:ARG:NH2	11:AK:126:ARG:HH21	2.06	0.53
12:AL:119:LYS:C	12:AL:120:TYR:CD1	2.86	0.53
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.37	0.53
18:AR:60:ALA:O	18:AR:64:ARG:HG3	2.09	0.53
20:AT:30:LYS:HZ1	20:AT:72:LEU:HD21	1.74	0.53
20:AT:49:ALA:HB1	20:AT:100:ILE:HD13	1.90	0.53
24:AY:116:ALA:HB2	24:AY:177:TYR:HA	1.90	0.53
32:B7:36:GLN:HG2	32:B7:36:GLN:O	2.08	0.53
35:BA:443:A:H1'	35:BA:1201:C:O4'	2.09	0.53
35:BA:963:U:H2'	35:BA:964:C:C6	2.44	0.53
35:BA:1181:C:O2'	35:BA:1182:A:H5'	2.09	0.53
35:BA:1484:G:C3'	35:BA:1485:G:H5"	2.38	0.53
35:BA:2305:A:H2'	35:BA:2306:C:O4'	2.09	0.53
35:BA:2630:G:H1'	35:BA:2894:G:C1'	2.37	0.53
36:BB:20:C:O2'	36:BB:21:G:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:34:VAL:O	38:BD:35:LYS:HD3	2.08	0.53
40:BF:3:GLU:CB	40:BF:24:LEU:HD23	2.39	0.53
40:BF:24:LEU:C	40:BF:26:ALA:N	2.67	0.53
48:BP:32:THR:O	48:BP:33:ARG:HB3	2.08	0.53
48:BP:134:ALA:C	48:BP:136:GLU:H	2.17	0.53
1:CA:243:A:O2'	1:CA:244:U:OP2	2.25	0.53
1:CA:542:G:H5'	4:CD:41:GLY:HA3	1.91	0.53
1:CA:1278:U:H5"	1:CA:1279:A:O4'	2.08	0.53
5:CE:76:ILE:HG23	5:CE:93:PRO:HB3	1.89	0.53
10:CJ:38:ILE:CD1	10:CJ:71:LEU:HD23	2.39	0.53
16:CP:39:TYR:O	16:CP:40:ASP:HB2	2.07	0.53
22:CV:61:C:H2'	22:CV:62:C:C6	2.44	0.53
24:CY:156:LEU:O	24:CY:156:LEU:HG	2.07	0.53
24:CY:206:ALA:HA	24:CY:305:ILE:HD11	1.90	0.53
24:CY:212:PRO:HD2	24:CY:298:LEU:HD13	1.89	0.53
24:CY:223:LYS:HB2	24:CY:226:GLU:HG2	1.91	0.53
30:D5:48:GLU:C	30:D5:50:GLY:N	2.64	0.53
31:D6:11:LEU:HD21	31:D6:26:ASN:H	1.71	0.53
33:D8:10:ALA:HB2	33:D8:59:LYS:HZ2	1.71	0.53
35:DA:549:G:H2'	35:DA:551:G:C5'	2.21	0.53
35:DA:706:A:C2	35:DA:707:G:H1'	2.44	0.53
35:DA:1385:G:C4	35:DA:1386:C:C5	2.96	0.53
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.17	0.53
35:DA:2625:G:H2'	35:DA:2626:C:O4'	2.09	0.53
38:DD:159:ALA:HB1	38:DD:198:ASN:O	2.09	0.53
39:DE:13:ARG:HA	39:DE:22:PRO:HA	1.91	0.53
40:DF:40:GLN:OE1	40:DF:184:TYR:HB2	2.09	0.53
40:DF:107:LYS:HE3	40:DF:205:ARG:O	2.09	0.53
40:DF:125:LEU:HD22	40:DF:125:LEU:N	2.24	0.53
59:DI:77:LEU:CD1	59:DI:142:VAL:HG13	2.39	0.53
59:DI:90:GLY:O	59:DI:121:LYS:HG3	2.08	0.53
49:DQ:141:GLN:HB2	58:DZ:99:TYR:CD2	2.42	0.53
58:DZ:101:PRO:HA	58:DZ:123:ASP:HB3	1.89	0.53
1:AA:521:G:O2'	1:AA:522:C:H5'	2.09	0.53
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.22	0.53
1:AA:1027:C:H2'	1:AA:1028:C:C5	2.44	0.53
1:AA:1326:C:H2'	1:AA:1327:C:H6	1.74	0.53
3:AC:100:ALA:O	3:AC:101:LEU:HB2	2.08	0.53
3:AC:101:LEU:HD23	3:AC:101:LEU:C	2.34	0.53
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.34	0.53
24:AY:352:LYS:O	24:AY:354:GLY:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:28:ARG:NH1	31:B6:28:ARG:CB	2.69	0.53
32:B7:47:ARG:C	32:B7:48:LYS:HD3	2.33	0.53
35:BA:37:C:H2'	35:BA:38:A:C8	2.43	0.53
35:BA:706:A:C2	35:BA:707:G:H1'	2.44	0.53
35:BA:1300:U:O2'	35:BA:1301:A:OP2	2.27	0.53
35:BA:1331:A:O2'	35:BA:1332:G:H5"	2.07	0.53
35:BA:1332:G:H5"	35:BA:1332:G:C8	2.44	0.53
35:BA:1516:C:H2'	35:BA:1517:G:H8	1.74	0.53
35:BA:1666:G:O3'	47:BO:6:THR:HG23	2.09	0.53
36:BB:12:C:C4'	36:BB:13:A:OP1	2.57	0.53
38:BD:34:VAL:O	38:BD:34:VAL:HG13	2.08	0.53
38:BD:43:ARG:HD3	38:BD:49:ILE:HG22	1.90	0.53
39:BE:2:LYS:HE2	39:BE:95:ILE:CG2	2.39	0.53
40:BF:164:ARG:HH11	40:BF:164:ARG:HG2	1.74	0.53
42:BH:92:ILE:C	42:BH:94:TYR:H	2.17	0.53
47:BO:7:TYR:HE1	47:BO:20:MET:HE3	1.73	0.53
52:BT:121:ILE:HG22	52:BT:122:ASP:N	2.23	0.53
57:BY:26:LYS:HG2	57:BY:27:VAL:N	2.22	0.53
57:BY:88:LYS:HD3	57:BY:93:GLY:H	1.74	0.53
58:BZ:151:HIS:HB3	58:BZ:170:THR:CA	2.31	0.53
1:CA:57:G:O6	1:CA:356:A:N1	2.42	0.53
1:CA:174:C:H2'	1:CA:175:C:H6	1.72	0.53
1:CA:411:A:H2'	1:CA:412:A:H4'	1.91	0.53
1:CA:512:U:H2'	1:CA:513:C:H6	1.74	0.53
1:CA:626:U:H4'	16:CP:38:TYR:CE2	2.44	0.53
3:CC:180:ALA:O	3:CC:181:ASN:C	2.52	0.53
5:CE:50:GLU:HB3	5:CE:53:LEU:HD13	1.90	0.53
10:CJ:40:LEU:H	10:CJ:40:LEU:CD2	2.15	0.53
13:CM:105:THR:O	13:CM:106:ASN:C	2.52	0.53
16:CP:75:ARG:O	16:CP:78:GLY:N	2.37	0.53
22:CW:10:G:N2	22:CW:26:A:H1'	2.24	0.53
24:CY:42:PRO:HA	24:CY:45:ALA:HB2	1.91	0.53
24:CY:342:MET:HE1	24:CY:346:TRP:CZ2	2.44	0.53
24:CY:349:LEU:C	24:CY:351:TRP:H	2.17	0.53
27:D2:53:LEU:O	27:D2:56:GLN:HB2	2.08	0.53
35:DA:78:A:H2'	35:DA:79:G:H8	1.74	0.53
35:DA:654:A:N3	35:DA:654(A):G:H1'	2.24	0.53
35:DA:821:A:C2'	35:DA:946:G:H5"	2.38	0.53
35:DA:1278:A:O3'	50:DR:34:ILE:HG23	2.08	0.53
35:DA:1576:U:H2'	35:DA:1577:C:H6	1.73	0.53
35:DA:1668:A:N6	35:DA:1676:A:H61	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2679:A:O2'	35:DA:2680:C:H5'	2.08	0.53
39:DE:11:MET:CB	39:DE:24:THR:HA	2.38	0.53
59:DI:133:HIS:CD2	59:DI:135:GLU:HG2	2.44	0.53
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.17	0.53
54:DV:89:GLN:OE1	54:DV:89:GLN:HA	2.09	0.53
55:DW:17:VAL:O	55:DW:18:ARG:C	2.52	0.53
55:DW:95:ILE:O	55:DW:95:ILE:HG13	2.08	0.53
1:AA:486:U:H2'	1:AA:487:A:H8	1.70	0.53
1:AA:599:C:O2'	1:AA:600:C:H5'	2.08	0.53
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.08	0.53
2:AB:144:ARG:HA	2:AB:147:LYS:HB3	1.91	0.53
5:AE:115:VAL:HG12	5:AE:116:THR:N	2.24	0.53
9:AI:48:GLU:C	9:AI:50:LEU:N	2.67	0.53
11:AK:34:ASP:OD2	11:AK:36:ASP:HB2	2.08	0.53
20:AT:45:GLN:HB2	20:AT:91:LEU:HD22	1.90	0.53
20:AT:57:ARG:HH12	20:AT:102:GLY:CA	2.22	0.53
20:AT:100:ILE:H	20:AT:100:ILE:CD1	2.22	0.53
21:AU:25:LYS:HG2	21:AU:26:LYS:N	2.24	0.53
24:AY:118:LEU:CD1	24:AY:210:VAL:HG22	2.38	0.53
24:AY:312:ARG:HH21	24:AY:325:ARG:HH22	1.56	0.53
25:B0:14:ARG:O	25:B0:15:ASP:HB2	2.09	0.53
35:BA:203:C:H3'	35:BA:204:A:H5"	1.90	0.53
35:BA:473:G:P	35:BA:508:G:H22	2.32	0.53
35:BA:1515:G:H2'	35:BA:1516:C:H6	1.68	0.53
35:BA:1952:A:C2	47:BO:22:ILE:HG23	2.44	0.53
35:BA:1998:G:O2'	35:BA:1999:C:H5'	2.09	0.53
46:BN:27:ALA:HB3	46:BN:106:MET:HE1	1.91	0.53
48:BP:100:LEU:H	48:BP:100:LEU:CD2	2.20	0.53
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB2	1.88	0.53
53:BU:92:ARG:CD	54:BV:11:GLN:HG2	2.38	0.53
54:BV:18:LEU:CD2	54:BV:19:LYS:H	2.22	0.53
54:BV:89:GLN:HA	54:BV:89:GLN:OE1	2.09	0.53
56:BX:80:ILE:O	56:BX:80:ILE:HG13	2.09	0.53
58:BZ:141:VAL:CG2	58:BZ:144:LEU:HB2	2.39	0.53
1:CA:637:G:H2'	1:CA:638:G:C8	2.43	0.53
1:CA:966:G:O2'	1:CA:967:C:O5'	2.26	0.53
2:CB:8:LYS:HA	2:CB:217:ARG:HH22	1.74	0.53
3:CC:64:VAL:O	3:CC:100:ALA:HB3	2.09	0.53
8:CH:95:VAL:HB	8:CH:99:GLU:O	2.08	0.53
10:CJ:48:THR:HG23	10:CJ:62:HIS:CB	2.39	0.53
12:CL:92:ASP:O	12:CL:94:PRO:HD3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:5:ARG:O	16:CP:19:ILE:HA	2.09	0.53
24:CY:137:LEU:HD22	24:CY:137:LEU:O	2.09	0.53
24:CY:256:THR:HB	24:CY:258:ILE:HG23	1.90	0.53
25:D0:65:GLY:HA2	25:D0:84:LEU:CD1	2.39	0.53
27:D2:35:LEU:C	27:D2:37:PHE:H	2.17	0.53
27:D2:42:GLY:O	27:D2:44:LEU:N	2.42	0.53
35:DA:919:G:H4'	36:DB:81:G:H4'	1.91	0.53
35:DA:1037:G:H1	35:DA:1118:C:N4	2.06	0.53
35:DA:1076:C:H2'	35:DA:1077:A:C8	2.44	0.53
38:DD:244:ARG:HH11	38:DD:244:ARG:HG2	1.73	0.53
39:DE:101:ARG:HA	39:DE:170:LEU:O	2.09	0.53
40:DF:181:LEU:CD1	40:DF:186:ILE:HD11	2.38	0.53
41:DG:41:GLN:O	41:DG:43:LEU:HD23	2.08	0.53
48:DP:17:LYS:C	48:DP:19:VAL:N	2.65	0.53
48:DP:114:ILE:O	48:DP:115:LEU:HB3	2.09	0.53
49:DQ:134:ARG:NH1	58:DZ:119:GLU:OE2	2.42	0.53
51:DS:101:LEU:O	51:DS:102:ALA:O	2.27	0.53
1:AA:637:G:H2'	1:AA:638:G:C8	2.44	0.53
1:AA:738:C:H2'	1:AA:739:C:C6	2.44	0.53
1:AA:797:C:O2'	1:AA:798:G:H5'	2.09	0.53
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.39	0.53
3:AC:172:ARG:HB3	3:AC:172:ARG:NH1	2.24	0.53
7:AG:32:ARG:HG2	7:AG:32:ARG:NH1	2.24	0.53
8:AH:1:MET:HE2	8:AH:1:MET:H2	1.74	0.53
11:AK:120:ARG:NH2	11:AK:126:ARG:HE	2.07	0.53
19:AS:14:HIS:O	19:AS:18:LYS:HE2	2.09	0.53
22:AW:76:A:O2'	35:BA:2394:C:N3	2.33	0.53
24:AY:33:LEU:HB3	24:AY:36:PRO:CG	2.39	0.53
24:AY:135:MET:HE1	24:AY:191:ARG:NH1	2.24	0.53
24:AY:220:VAL:O	24:AY:220:VAL:HG12	2.08	0.53
30:B5:43:HIS:CD2	35:BA:2815:C:O2'	2.62	0.53
34:B9:19:ARG:NH1	35:BA:2755:C:C4	2.77	0.53
35:BA:795:C:H2'	35:BA:796:C:H6	1.74	0.53
35:BA:997:G:OP1	53:BU:93:LYS:HB2	2.08	0.53
35:BA:1528(A):A:N7	35:BA:1529:G:H8	2.07	0.53
35:BA:1685:C:C2'	35:BA:1686:C:C5'	2.87	0.53
35:BA:1782:C:O2'	35:BA:1783:A:H5'	2.08	0.53
35:BA:2850:A:H2'	35:BA:2851:A:C8	2.43	0.53
41:BG:109:VAL:O	41:BG:113:ARG:CG	2.56	0.53
42:BH:137:ASP:OD1	42:BH:138:LYS:N	2.42	0.53
44:BJ:30:UNK:O	44:BJ:32:UNK:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:39:PRO:C	50:BR:41:ALA:N	2.65	0.53
50:BR:77:ARG:O	50:BR:78:LYS:C	2.51	0.53
51:BS:14:VAL:CG1	51:BS:15:ARG:H	2.11	0.53
53:BU:26:GLY:C	53:BU:28:ARG:N	2.63	0.53
57:BY:49:VAL:HG12	57:BY:53:PRO:CG	2.36	0.53
1:CA:110:C:O2'	1:CA:111:G:O5'	2.26	0.53
1:CA:777:A:H2'	1:CA:778:G:H8	1.74	0.53
3:CC:32:LEU:HD22	3:CC:59:ARG:NH1	2.24	0.53
4:CD:55:ALA:O	4:CD:59:ARG:HG2	2.09	0.53
5:CE:48:ALA:O	5:CE:50:GLU:N	2.42	0.53
6:CF:48:LEU:HG	6:CF:57:GLN:HA	1.91	0.53
8:CH:84:ARG:HH11	8:CH:84:ARG:HG2	1.73	0.53
11:CK:27:ASN:HB2	11:CK:55:LYS:CD	2.36	0.53
13:CM:84:ILE:HG13	19:CS:66:MET:CE	2.39	0.53
18:CR:74:ARG:HB3	18:CR:81:PHE:CE1	2.44	0.53
20:CT:13:LEU:C	20:CT:13:LEU:CD1	2.82	0.53
29:D4:59:VAL:CG1	29:D4:60:GLU:H	2.13	0.53
30:D5:43:HIS:CD2	35:DA:2815:C:O2'	2.62	0.53
31:D6:19:ARG:CD	31:D6:19:ARG:H	2.22	0.53
33:D8:31:HIS:CG	33:D8:32:LEU:N	2.77	0.53
34:D9:19:ARG:NH1	35:DA:2755:C:C4	2.77	0.53
35:DA:287:C:H2'	35:DA:288:C:O4'	2.09	0.53
35:DA:494:G:N2	55:DW:57:ASN:HD21	2.05	0.53
35:DA:1464:C:H2'	35:DA:1465:G:C8	2.44	0.53
35:DA:2287:A:H2	35:DA:2346:A:C2	2.27	0.53
35:DA:2511:U:H2'	35:DA:2512:C:H6	1.73	0.53
37:DC:82:LYS:CE	37:DC:151:GLU:HA	2.32	0.53
40:DF:50:SER:HB2	40:DF:94:PRO:HD3	1.90	0.53
41:DG:107:LEU:HD13	41:DG:178:PHE:CD1	2.44	0.53
59:DI:77:LEU:HD11	59:DI:142:VAL:CA	2.37	0.53
59:DI:120:ILE:HD11	59:DI:126:TYR:CE1	2.44	0.53
48:DP:128:HIS:O	48:DP:129:ALA:HB2	2.09	0.53
51:DS:49:VAL:HG12	51:DS:50:SER:N	2.23	0.53
51:DS:76:LYS:O	51:DS:80:LEU:HD13	2.09	0.53
53:DU:34:LYS:HA	53:DU:34:LYS:CE	2.39	0.53
54:DV:19:LYS:HD3	54:DV:22:VAL:HG23	1.90	0.53
58:DZ:141:VAL:O	58:DZ:141:VAL:HG22	2.09	0.53
1:AA:533:A:O2'	1:AA:534:U:H5"	2.09	0.52
1:AA:624:C:H2'	1:AA:625:G:H8	1.75	0.52
1:AA:741:G:H5'	15:AO:39:LEU:HD23	1.91	0.52
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1300:G:O2'	1:AA:1301:U:P	2.67	0.52
2:AB:44:LEU:H	2:AB:44:LEU:HD12	1.73	0.52
2:AB:73:THR:HA	2:AB:94:ASN:O	2.08	0.52
3:AC:32:LEU:HD22	3:AC:59:ARG:NH1	2.24	0.52
3:AC:33:LEU:O	3:AC:37:GLN:HG2	2.09	0.52
3:AC:179:ARG:O	3:AC:179:ARG:HG3	2.07	0.52
7:AG:115:ARG:HB2	7:AG:118:VAL:CG2	2.38	0.52
7:AG:155:ARG:O	7:AG:156:TRP:HD1	1.92	0.52
8:AH:102:ARG:HE	8:AH:102:ARG:N	2.07	0.52
9:AI:23:ASN:N	9:AI:23:ASN:HD22	2.07	0.52
13:AM:7:VAL:O	13:AM:9:ILE:HD12	2.10	0.52
18:AR:67:ALA:HA	18:AR:70:ILE:HG12	1.89	0.52
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.09	0.52
18:AR:86:VAL:HG12	18:AR:87:ARG:HD2	1.91	0.52
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.23	0.52
26:B1:50:ARG:HA	26:B1:58:ILE:O	2.09	0.52
27:B2:18:PRO:HG2	27:B2:19:VAL:H	1.74	0.52
35:BA:644:A:H4'	35:BA:645:C:C5	2.45	0.52
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.43	0.52
35:BA:1510:G:H2'	35:BA:1511:C:C6	2.43	0.52
35:BA:1678:G:H22	35:BA:1989:G:H22	1.54	0.52
35:BA:1980:G:O2'	35:BA:1982:C:OP2	2.27	0.52
35:BA:2439:A:H3'	35:BA:2439:A:P	2.49	0.52
37:BC:65:PRO:HG2	37:BC:189:ILE:HA	1.91	0.52
38:BD:73:VAL:HG13	38:BD:120:GLY:HA2	1.91	0.52
41:BG:83:ARG:HG2	41:BG:84:LYS:HG3	1.89	0.52
41:BG:83:ARG:N	41:BG:83:ARG:HD3	2.24	0.52
45:BK:9:LYS:O	45:BK:10:LEU:HB3	2.09	0.52
46:BN:119:ARG:HH11	46:BN:119:ARG:CG	2.21	0.52
48:BP:98:GLU:O	48:BP:101:VAL:HG12	2.09	0.52
49:BQ:1:MET:O	49:BQ:2:LEU:CB	2.57	0.52
50:BR:64:ARG:O	50:BR:68:ARG:HG3	2.09	0.52
52:BT:88:ILE:HG22	52:BT:89:VAL:CG2	2.24	0.52
53:BU:89:GLU:N	53:BU:89:GLU:OE1	2.42	0.52
54:BV:18:LEU:CG	54:BV:19:LYS:H	2.21	0.52
58:BZ:99:TYR:HA	58:BZ:124:ILE:O	2.09	0.52
1:CA:9:G:H2'	1:CA:10:A:C8	2.44	0.52
1:CA:434:U:H2'	1:CA:435:C:H6	1.72	0.52
1:CA:882:C:O2'	1:CA:883:C:H5'	2.08	0.52
1:CA:900:A:H2'	1:CA:901:A:C8	2.43	0.52
1:CA:1329:A:H5"	13:CM:29:ARG:HD2	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:34:LEU:HD23	3:CC:35:GLU:N	2.24	0.52
4:CD:2:GLY:O	4:CD:4:TYR:N	2.41	0.52
5:CE:63:ARG:O	5:CE:66:MET:HE2	2.09	0.52
7:CG:136:LYS:C	7:CG:138:LYS:N	2.67	0.52
13:CM:9:ILE:HG21	13:CM:11:ARG:NE	2.24	0.52
13:CM:22:ILE:HB	13:CM:25:ILE:HB	1.92	0.52
18:CR:36:ASN:HB3	18:CR:39:VAL:CG2	2.39	0.52
19:CS:29:ARG:O	19:CS:31:ILE:N	2.42	0.52
22:CV:76:A:H2'	35:DA:2451:A:O2'	2.09	0.52
31:D6:26:ASN:ND2	31:D6:32:ASN:HD21	2.05	0.52
35:DA:142(A):C:O2'	35:DA:143:G:H5'	2.09	0.52
35:DA:247:G:N7	35:DA:249:C:C2	2.77	0.52
35:DA:1162:G:O2'	35:DA:1163:G:H5'	2.09	0.52
35:DA:1203:G:H4'	48:DP:7:ARG:HD3	1.91	0.52
35:DA:1614:A:N1	55:DW:91:GLY:HA2	2.23	0.52
36:DB:27:C:H5'	36:DB:28:C:OP2	2.10	0.52
39:DE:130:GLY:O	39:DE:131:ALA:C	2.52	0.52
41:DG:44:GLY:C	41:DG:46:ALA:N	2.65	0.52
59:DI:101:LEU:HD12	59:DI:101:LEU:C	2.34	0.52
45:DK:57:ILE:HG23	45:DK:65:PHE:HB2	1.89	0.52
45:DK:90:LYS:O	58:DZ:112:ARG:NH2	2.42	0.52
45:DK:112:MET:N	45:DK:113:PRO:CD	2.72	0.52
46:DN:27:ALA:HB3	46:DN:106:MET:HE1	1.91	0.52
47:DO:72:PRO:C	47:DO:74:GLY:H	2.17	0.52
53:DU:108:GLU:O	53:DU:112:ARG:HG2	2.09	0.52
54:DV:39:LEU:O	54:DV:40:LEU:CB	2.57	0.52
57:DY:8:LYS:HE2	57:DY:69:ALA:O	2.09	0.52
1:AA:274:A:H4'	1:AA:275:G:OP1	2.09	0.52
2:AB:134:GLU:OE1	2:AB:138:LEU:HD11	2.08	0.52
3:AC:34:LEU:HD23	3:AC:35:GLU:N	2.24	0.52
3:AC:134:ILE:CG2	3:AC:168:ALA:HB3	2.39	0.52
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.91	0.52
8:AH:84:ARG:O	8:AH:135:CYS:HB2	2.09	0.52
9:AI:5:TYR:HE2	9:AI:16:ARG:HG2	1.73	0.52
16:AP:72:ARG:HH21	16:AP:73:LEU:HD21	1.73	0.52
19:AS:19:VAL:O	19:AS:20:LEU:HD23	2.10	0.52
24:AY:106:LEU:O	24:AY:108:ASN:N	2.43	0.52
24:AY:181:SER:N	24:AY:182:PRO:HD2	2.25	0.52
24:AY:229:ILE:HG21	24:AY:272:LYS:HE3	1.90	0.52
24:AY:290:LYS:O	24:AY:294:GLU:HG3	2.09	0.52
27:B2:11:GLU:HG3	27:B2:12:GLU:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:64:A:O2'	35:BA:65:C:H5'	2.10	0.52
35:BA:143:G:H1'	56:BX:37:THR:CG2	2.36	0.52
35:BA:1054:A:H2'	35:BA:1055:G:H8	1.69	0.52
35:BA:1109:C:H2'	35:BA:1109:C:O2	2.08	0.52
35:BA:1166:C:H2'	35:BA:1167:U:H6	1.74	0.52
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.44	0.52
35:BA:1464:C:H2'	35:BA:1465:G:C8	2.43	0.52
35:BA:1529:G:N2	35:BA:1530:C:H3'	2.23	0.52
35:BA:1906:G:O2'	35:BA:1907:G:H5'	2.08	0.52
35:BA:2605:U:H2'	35:BA:2606:C:C6	2.44	0.52
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.09	0.52
38:BD:235:GLY:C	38:BD:237:GLU:N	2.66	0.52
47:BO:26:LYS:HE3	47:BO:37:ASP:OD1	2.09	0.52
48:BP:88:LEU:CD1	48:BP:95:VAL:HG11	2.39	0.52
49:BQ:140:ALA:HA	58:BZ:99:TYR:CG	2.45	0.52
1:CA:486:U:H2'	1:CA:487:A:H8	1.71	0.52
1:CA:1169:A:H2'	1:CA:1170:A:H8	1.72	0.52
2:CB:167:PRO:HG3	2:CB:188:ALA:CB	2.39	0.52
3:CC:172:ARG:HB3	3:CC:172:ARG:NH1	2.23	0.52
5:CE:101:ILE:HG12	5:CE:101:ILE:O	2.08	0.52
6:CF:62:TRP:CZ3	6:CF:64:GLN:HB2	2.44	0.52
10:CJ:22:LYS:C	10:CJ:22:LYS:HD2	2.34	0.52
11:CK:34:ASP:C	11:CK:36:ASP:H	2.15	0.52
12:CL:81:SER:O	12:CL:82:VAL:CB	2.57	0.52
20:CT:96:GLY:O	20:CT:99:LEU:HG	2.08	0.52
22:CW:70:G:H2'	22:CW:71:G:C5'	2.39	0.52
27:D2:44:LEU:O	27:D2:45:SER:HB3	2.09	0.52
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.52	0.52
35:DA:271(M):G:C3'	35:DA:271(N):U:H5"	2.38	0.52
35:DA:1666:G:O2'	35:DA:1667:G:H5'	2.09	0.52
35:DA:1844:C:O2'	35:DA:1845:G:H5'	2.09	0.52
36:DB:4:C:H2'	36:DB:5:C:C6	2.44	0.52
37:DC:49:ILE:HG13	37:DC:50:ASP:N	2.10	0.52
38:DD:161:THR:O	38:DD:162:SER:HB3	2.09	0.52
39:DE:21:VAL:HG23	39:DE:21:VAL:O	2.09	0.52
42:DH:88:LEU:C	42:DH:89:ILE:HG13	2.34	0.52
45:DK:136:VAL:O	45:DK:136:VAL:HG13	2.07	0.52
48:DP:100:LEU:HD22	48:DP:100:LEU:N	2.25	0.52
49:DQ:116:GLU:O	49:DQ:120:ILE:HG12	2.09	0.52
52:DT:16:ARG:HG3	52:DT:16:ARG:NH1	2.24	0.52
52:DT:50:ILE:HD12	52:DT:50:ILE:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:95:LEU:HD12	54:DV:11:GLN:HG3	1.90	0.52
54:DV:48:GLY:O	54:DV:49:THR:HG23	2.09	0.52
1:AA:424:G:H2'	1:AA:425:G:C8	2.37	0.52
1:AA:424:G:N7	35:DA:2139:C:C5'	2.71	0.52
1:AA:453:A:O2'	1:AA:454:C:C6	2.60	0.52
1:AA:985:C:H2'	1:AA:986:A:C8	2.44	0.52
1:AA:1031:G:O2'	1:AA:1032:G:H5'	2.09	0.52
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.10	0.52
1:AA:1288:A:O4'	1:AA:1353:G:H4'	2.09	0.52
2:AB:92:TYR:CD2	2:AB:151:GLY:HA3	2.43	0.52
4:AD:146:ILE:HD12	4:AD:146:ILE:N	2.24	0.52
5:AE:136:MET:C	5:AE:138:ALA:H	2.17	0.52
6:AF:22:GLU:HA	6:AF:22:GLU:OE2	2.09	0.52
7:AG:57:GLU:N	7:AG:57:GLU:OE2	2.42	0.52
9:AI:104:ARG:O	9:AI:105:ASP:CB	2.57	0.52
10:AJ:48:THR:CG2	10:AJ:62:HIS:HB3	2.40	0.52
17:AQ:21:VAL:HG21	17:AQ:59:ILE:HD11	1.92	0.52
17:AQ:56:VAL:O	17:AQ:77:VAL:HB	2.09	0.52
20:AT:45:GLN:CB	20:AT:91:LEU:HD13	2.37	0.52
24:AY:6:LEU:O	24:AY:10:LEU:HB3	2.09	0.52
24:AY:74:GLU:O	24:AY:78:GLU:N	2.40	0.52
27:B2:63:VAL:O	27:B2:66:GLU:HG2	2.10	0.52
35:BA:588:U:H1'	40:BF:90:PHE:CD1	2.44	0.52
35:BA:855:G:H1	35:BA:922:U:H3	1.55	0.52
35:BA:1899:G:H21	35:BA:1902:C:H5	1.57	0.52
35:BA:2543:G:H2'	35:BA:2544:G:H8	1.72	0.52
35:BA:2672:G:H2'	35:BA:2673:G:H5"	1.91	0.52
35:BA:2672:G:H3'	35:BA:2673:G:H5"	1.90	0.52
35:BA:2846:G:OP2	52:BT:54:ARG:HB2	2.08	0.52
37:BC:94:VAL:O	37:BC:94:VAL:HG23	2.10	0.52
38:BD:82:ILE:C	38:BD:82:ILE:HD13	2.34	0.52
39:BE:13:ARG:HA	39:BE:22:PRO:HA	1.90	0.52
40:BF:22:ALA:C	40:BF:26:ALA:HB2	2.34	0.52
42:BH:159:GLU:CG	42:BH:160:LYS:H	2.14	0.52
45:BK:100:THR:HA	45:BK:139:VAL:HB	1.91	0.52
47:BO:16:ALA:HA	47:BO:46:ALA:CB	2.39	0.52
48:BP:13:ASN:HD22	48:BP:13:ASN:H	1.58	0.52
48:BP:138:LEU:C	48:BP:140:ALA:N	2.65	0.52
51:BS:42:ASP:C	51:BS:44:LYS:H	2.16	0.52
52:BT:3:ARG:C	52:BT:5:ALA:N	2.67	0.52
52:BT:66:VAL:HG12	52:BT:66:VAL:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:102:GLU:HG3	54:BV:2:PHE:HE1	1.72	0.52
54:BV:69:LYS:HA	54:BV:87:HIS:O	2.10	0.52
58:BZ:59:LEU:O	58:BZ:61:LEU:HD22	2.10	0.52
1:CA:489:C:H2'	1:CA:490:G:C8	2.43	0.52
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.22	0.52
1:CA:1396:A:O4'	1:CA:1398:A:H1'	2.09	0.52
4:CD:8:VAL:O	4:CD:10:ARG:N	2.42	0.52
6:CF:91:VAL:CG1	6:CF:92:LYS:N	2.71	0.52
8:CH:10:LEU:HB3	8:CH:83:ILE:CD1	2.39	0.52
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HD23	1.91	0.52
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.25	0.52
25:D0:20:ARG:HH11	35:DA:2271:G:C5'	2.23	0.52
25:D0:25:ARG:HA	25:D0:29:GLN:HE22	1.75	0.52
32:D7:38:GLY:O	35:DA:458:G:H5"	2.09	0.52
33:D8:21:LYS:HD3	33:D8:48:PHE:CZ	2.44	0.52
35:DA:718:A:C2'	35:DA:719:C:H5'	2.39	0.52
35:DA:962:G:O2'	35:DA:963:U:H5'	2.09	0.52
35:DA:1448:G:H2'	35:DA:1449:A:H8	1.74	0.52
35:DA:1529:G:N2	35:DA:1530:C:H3'	2.24	0.52
35:DA:1782:C:O2'	35:DA:1783:A:H5'	2.08	0.52
35:DA:2250:G:OP1	49:DQ:85:LYS:HE3	2.09	0.52
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.45	0.52
35:DA:2888:C:H2'	35:DA:2889:C:C6	2.44	0.52
40:DF:19:GLU:N	40:DF:19:GLU:CD	2.67	0.52
49:DQ:134:ARG:NH1	58:DZ:119:GLU:CD	2.67	0.52
56:DX:90:GLU:O	56:DX:93:GLU:HB2	2.09	0.52
58:DZ:99:TYR:CE2	58:DZ:125:LEU:HD13	2.44	0.52
1:AA:67:C:H2'	1:AA:68:G:H8	1.73	0.52
1:AA:536:C:H2'	1:AA:537:G:C8	2.45	0.52
1:AA:1151:A:H2'	1:AA:1152:A:H8	1.74	0.52
5:AE:79:GLU:O	8:AH:104:ARG:CZ	2.57	0.52
8:AH:95:VAL:HB	8:AH:99:GLU:O	2.09	0.52
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.08	0.52
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.24	0.52
13:AM:91:ARG:HB2	13:AM:98:VAL:HG22	1.91	0.52
22:AV:72:C:H6	22:AV:72:C:C5'	2.14	0.52
24:AY:139:MET:CE	24:AY:341:LEU:HD21	2.39	0.52
24:AY:258:ILE:C	24:AY:258:ILE:HD12	2.34	0.52
24:AY:296:LYS:C	24:AY:298:LEU:H	2.18	0.52
29:B4:53:THR:C	29:B4:54:LYS:HD2	2.33	0.52
29:B4:59:VAL:CG1	29:B4:60:GLU:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1579:A:H5'	35:BA:1579:A:H8	1.73	0.52
35:BA:1902:C:C1'	38:BD:244:ARG:HD3	2.40	0.52
35:BA:2087:G:O2'	35:BA:2088:G:H5'	2.09	0.52
39:BE:134:ILE:O	39:BE:134:ILE:CG1	2.55	0.52
40:BF:114:VAL:HG21	40:BF:202:PHE:CZ	2.44	0.52
40:BF:165:ARG:HG3	40:BF:165:ARG:HH11	1.75	0.52
41:BG:82:LEU:CD2	41:BG:83:ARG:H	2.21	0.52
42:BH:115:VAL:HG12	42:BH:116:GLU:N	2.24	0.52
43:BI:27:ARG:O	43:BI:32:PRO:HG3	2.09	0.52
46:BN:25:ARG:HH11	46:BN:25:ARG:CG	2.19	0.52
48:BP:128:HIS:O	48:BP:129:ALA:HB2	2.09	0.52
48:BP:130:PHE:CD2	48:BP:130:PHE:N	2.77	0.52
51:BS:101:LEU:HD13	51:BS:101:LEU:N	2.23	0.52
51:BS:106:ARG:HH11	51:BS:109:GLY:N	2.07	0.52
52:BT:38:ASN:HD21	52:BT:41:ARG:HG2	1.74	0.52
53:BU:95:LEU:HD12	54:BV:11:GLN:HG3	1.91	0.52
54:BV:48:GLY:O	54:BV:49:THR:HG23	2.09	0.52
58:BZ:137:ILE:HG22	58:BZ:138:GLU:N	2.24	0.52
1:CA:927:G:O2'	1:CA:928:G:H5'	2.09	0.52
3:CC:179:ARG:O	3:CC:179:ARG:HG3	2.08	0.52
4:CD:25:ARG:C	4:CD:27:TYR:H	2.18	0.52
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.39	0.52
5:CE:47:LYS:N	5:CE:47:LYS:HD2	2.24	0.52
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG13	1.91	0.52
10:CJ:32:ALA:H	10:CJ:78:ASN:ND2	2.07	0.52
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.24	0.52
21:CU:25:LYS:HG2	21:CU:26:LYS:N	2.24	0.52
24:CY:23:GLU:HG3	24:CY:24:THR:HG23	1.91	0.52
24:CY:27:LYS:HD3	45:DK:21:PRO:HD3	1.91	0.52
24:CY:256:THR:HG21	24:CY:283:LEU:HD22	1.92	0.52
30:D5:47:PRO:O	30:D5:48:GLU:HG3	2.09	0.52
34:D9:11:CYS:CB	34:D9:13:LYS:H	2.20	0.52
35:DA:296:C:O2'	35:DA:297:C:H5'	2.10	0.52
35:DA:443:A:H1'	35:DA:1201:C:O4'	2.09	0.52
35:DA:1316:U:O2'	35:DA:1317:A:H5'	2.10	0.52
35:DA:1345:C:H2'	35:DA:1346:G:C8	2.44	0.52
35:DA:1484:G:C3'	35:DA:1485:G:H5"	2.38	0.52
35:DA:1678:G:H22	35:DA:1989:G:H22	1.55	0.52
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.42	0.52
37:DC:59:ARG:HD3	37:DC:59:ARG:N	2.25	0.52
38:DD:35:LYS:HG2	38:DD:104:TYR:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:77:ALA:CB	38:DD:97:TYR:HA	2.40	0.52
39:DE:200:GLU:OE2	39:DE:200:GLU:N	2.35	0.52
40:DF:194:MET:HE2	40:DF:199:TRP:CD1	2.45	0.52
42:DH:35:VAL:HG13	42:DH:71:LEU:HD22	1.91	0.52
45:DK:125:ARG:HH11	45:DK:125:ARG:HG2	1.73	0.52
48:DP:111:ARG:HA	48:DP:128:HIS:ND1	2.24	0.52
49:DQ:55:VAL:HG22	49:DQ:56:ARG:H	1.72	0.52
53:DU:80:ILE:O	53:DU:84:LYS:HB2	2.10	0.52
54:DV:46:VAL:HG13	54:DV:47:VAL:N	2.24	0.52
1:AA:115:G:O2'	1:AA:116:A:OP2	2.27	0.52
1:AA:275:G:O2'	1:AA:276:G:H5'	2.08	0.52
1:AA:422:C:H4'	1:AA:423:G:C4	2.45	0.52
1:AA:728:A:H2'	1:AA:729:A:C8	2.44	0.52
1:AA:1060:C:P	14:AN:45:ARG:HH22	2.32	0.52
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.45	0.52
1:AA:1191:A:OP1	3:AC:3:ASN:ND2	2.43	0.52
1:AA:1431:C:H2'	1:AA:1432:G:O4'	2.10	0.52
4:AD:55:ALA:O	4:AD:59:ARG:HG2	2.09	0.52
4:AD:172:PRO:HG2	6:CF:15:ASP:OD2	2.08	0.52
8:AH:23:SER:HA	8:AH:63:LEU:HD22	1.91	0.52
8:AH:85:ARG:HH11	8:AH:85:ARG:HG3	1.74	0.52
9:AI:100:GLY:C	9:AI:102:LEU:N	2.66	0.52
18:AR:36:ASN:HB3	18:AR:39:VAL:CG2	2.39	0.52
21:AU:2:GLY:C	21:AU:4:GLY:H	2.18	0.52
27:B2:8:LYS:O	27:B2:9:GLN:C	2.52	0.52
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.23	0.52
31:B6:23:THR:HG21	35:BA:2419:U:H5'	1.91	0.52
34:B9:11:CYS:CB	34:B9:13:LYS:H	2.23	0.52
35:BA:72:U:O2'	35:BA:73:A:H5'	2.09	0.52
35:BA:272(J):C:H42	35:BA:363(A):A:N6	2.06	0.52
35:BA:909:A:H2'	35:BA:912:C:H5	1.74	0.52
35:BA:1022:G:O2'	35:BA:1023:U:OP2	2.25	0.52
35:BA:1171:G:H5"	35:BA:1173:G:H5"	1.92	0.52
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.09	0.52
35:BA:1958:C:O2'	35:BA:1959:G:H5'	2.08	0.52
41:BG:52:ILE:HG22	41:BG:54:GLU:CG	2.40	0.52
42:BH:86:GLU:HA	42:BH:132:ARG:HA	1.92	0.52
48:BP:7:ARG:HG2	48:BP:7:ARG:NH1	2.23	0.52
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.23	0.52
50:BR:87:TYR:HD1	50:BR:90:ARG:HD2	1.75	0.52
51:BS:17:ARG:O	51:BS:19:LYS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:20:ARG:HG3	51:BS:25:ARG:HD2	1.91	0.52
51:BS:97:ARG:HH21	51:BS:98:VAL:CA	2.20	0.52
53:BU:25:TRP:CD1	53:BU:26:GLY:N	2.78	0.52
54:BV:39:LEU:HD12	54:BV:47:VAL:HG21	1.91	0.52
56:BX:30:VAL:CG2	56:BX:79:ALA:HB3	2.40	0.52
57:BY:96:ILE:HD12	57:BY:99:CYS:HB2	1.92	0.52
1:CA:451:A:N6	1:CA:480:U:H2'	2.25	0.52
1:CA:501:C:H2'	1:CA:502:G:C8	2.43	0.52
1:CA:767:A:H2'	1:CA:768:A:O4'	2.09	0.52
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.73	0.52
1:CA:1446:U:H4'	1:CA:1447:A:N7	2.24	0.52
4:CD:79:PHE:CZ	4:CD:204:ILE:HD13	2.45	0.52
6:CF:40:VAL:HG23	6:CF:63:TYR:HD1	1.73	0.52
9:CI:23:ASN:N	9:CI:23:ASN:HD22	2.06	0.52
15:CO:43:LEU:C	15:CO:45:VAL:N	2.67	0.52
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.40	0.52
17:CQ:43:LEU:O	17:CQ:69:LYS:HG3	2.09	0.52
18:CR:21:LYS:NZ	18:CR:53:ARG:O	2.43	0.52
20:CT:51:GLU:HA	20:CT:54:LYS:HB3	1.92	0.52
35:DA:207:A:H2'	35:DA:208:C:O4'	2.10	0.52
35:DA:229:A:H3'	35:DA:230:U:H5'	1.92	0.52
35:DA:494:G:O2'	35:DA:495:G:H5'	2.09	0.52
35:DA:760:G:H2'	35:DA:761:A:O4'	2.10	0.52
35:DA:795:C:H2'	35:DA:796:C:C6	2.44	0.52
35:DA:879:G:H2'	35:DA:880:G:C8	2.43	0.52
35:DA:963:U:H2'	35:DA:964:C:H6	1.74	0.52
35:DA:1065:U:O2'	35:DA:1066:U:H5'	2.09	0.52
35:DA:1357:U:H2'	35:DA:1358:G:O4'	2.09	0.52
35:DA:2112:G:H2'	35:DA:2113:U:O4'	2.09	0.52
35:DA:2146:C:H4'	35:DA:2147:G:C8	2.44	0.52
35:DA:2575:C:H2'	35:DA:2578:G:O6	2.10	0.52
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.75	0.52
37:DC:49:ILE:C	37:DC:51:PRO:HD3	2.34	0.52
40:DF:144:LYS:C	40:DF:146:ALA:H	2.17	0.52
41:DG:39:ILE:HG13	41:DG:92:VAL:CG1	2.40	0.52
59:DI:3:VAL:O	59:DI:18:VAL:HA	2.10	0.52
45:DK:91:PRO:O	58:DZ:112:ARG:NH2	2.42	0.52
47:DO:101:PRO:HD2	52:DT:70:VAL:HB	1.92	0.52
48:DP:125:VAL:O	48:DP:145:PRO:HD2	2.09	0.52
50:DR:41:ALA:C	50:DR:43:GLU:N	2.68	0.52
50:DR:48:VAL:HA	50:DR:51:LEU:HD13	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:42:ASP:C	51:DS:44:LYS:H	2.17	0.52
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.35	0.52
55:DW:1:MET:CE	55:DW:2:GLU:H	2.23	0.52
57:DY:2:ARG:C	57:DY:4:LYS:N	2.63	0.52
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.90	0.52
1:AA:274:A:O2'	1:AA:275:G:C8	2.60	0.52
1:AA:946:A:H2'	1:AA:947:G:C8	2.44	0.52
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.92	0.52
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.10	0.52
1:AA:1497:G:O2'	1:AA:1498:U:H5'	2.09	0.52
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.56	0.52
4:AD:79:PHE:HA	4:AD:93:PHE:CD2	2.43	0.52
11:AK:111:ASP:OD2	18:AR:84:LYS:HE3	2.10	0.52
20:AT:44:ALA:HB3	20:AT:91:LEU:HD12	1.91	0.52
24:AY:326:THR:HG23	24:AY:328:LEU:H	1.74	0.52
28:B3:31:LEU:HD12	35:BA:1157:G:HO2'	1.75	0.52
28:B3:59:VAL:HG12	28:B3:60:GLU:N	2.25	0.52
35:BA:1100:C:H2'	35:BA:1101:U:H5'	1.91	0.52
35:BA:2192:G:H2'	35:BA:2193:G:H5"	1.91	0.52
35:BA:2262:U:H2'	35:BA:2263:C:H5'	1.90	0.52
35:BA:2287:A:H2	35:BA:2346:A:C2	2.27	0.52
38:BD:31:LYS:O	38:BD:36:PRO:HD3	2.09	0.52
38:BD:211:ARG:O	38:BD:212:SER:C	2.52	0.52
38:BD:260:ARG:O	38:BD:261:LYS:C	2.52	0.52
39:BE:70:ALA:O	39:BE:71:GLY:C	2.53	0.52
40:BF:19:GLU:N	40:BF:19:GLU:CD	2.68	0.52
40:BF:132:VAL:CG1	40:BF:133:ASN:H	2.17	0.52
40:BF:194:MET:HE2	40:BF:199:TRP:HD1	1.74	0.52
40:BF:199:TRP:O	40:BF:203:GLN:HG2	2.10	0.52
41:BG:103:LEU:HD23	41:BG:106:LEU:HD22	1.91	0.52
41:BG:167:GLU:CD	41:BG:167:GLU:H	2.18	0.52
42:BH:116:GLU:HG3	42:BH:117:PRO:HD2	1.92	0.52
47:BO:16:ALA:HA	47:BO:46:ALA:HB2	1.91	0.52
47:BO:53:LYS:H	47:BO:53:LYS:HE3	1.71	0.52
48:BP:65:ARG:HD2	48:BP:65:ARG:N	2.20	0.52
52:BT:62:THR:HA	52:BT:74:ARG:O	2.09	0.52
52:BT:89:VAL:HG21	52:BT:91:ARG:HH21	1.74	0.52
54:BV:19:LYS:HG3	54:BV:20:LEU:H	1.73	0.52
57:BY:16:ALA:HA	57:BY:21:LYS:CD	2.39	0.52
1:CA:267:C:OP2	17:CQ:67:LYS:HD2	2.10	0.52
1:CA:381:C:H2'	1:CA:382:A:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:851:G:H2'	1:CA:852:G:H8	1.74	0.52
1:CA:1151:A:H2'	1:CA:1152:A:H8	1.74	0.52
1:CA:1288:A:O4'	1:CA:1353:G:H4'	2.10	0.52
1:CA:1300:G:O2'	1:CA:1301:U:P	2.67	0.52
2:CB:109:SER:O	2:CB:112:VAL:N	2.41	0.52
5:CE:115:VAL:HG12	5:CE:116:THR:N	2.24	0.52
11:CK:88:GLY:O	11:CK:89:ALA:C	2.53	0.52
12:CL:39:VAL:O	12:CL:56:ALA:HA	2.10	0.52
14:CN:9:LYS:HA	14:CN:12:ARG:HD3	1.91	0.52
19:CS:11:VAL:HG22	19:CS:16:LEU:HD11	1.92	0.52
20:CT:100:ILE:H	20:CT:100:ILE:CD1	2.22	0.52
22:CV:24:G:C6	22:CV:25:C:C4	2.98	0.52
24:CY:19:ILE:C	24:CY:21:GLN:H	2.16	0.52
24:CY:331:HIS:C	24:CY:333:PRO:HD2	2.35	0.52
29:D4:64:LYS:HE3	29:D4:64:LYS:HA	1.92	0.52
33:D8:59:LYS:HG3	48:DP:50:ARG:HB2	1.91	0.52
35:DA:69:C:H2'	35:DA:69:C:O2	2.09	0.52
35:DA:598:G:H5"	48:DP:15:ARG:CD	2.21	0.52
35:DA:654(N):G:H2'	35:DA:654(O):G:O4'	2.10	0.52
35:DA:1046:A:C2	44:DJ:8:UNK:HA	2.43	0.52
35:DA:1316:U:H2'	35:DA:1317:A:H8	1.75	0.52
35:DA:1332:G:C8	35:DA:1332:G:H5"	2.45	0.52
35:DA:1384:A:N3	35:DA:1405:U:H1'	2.25	0.52
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.25	0.52
39:DE:184:VAL:HG12	39:DE:185:LYS:H	1.74	0.52
40:DF:21:ALA:O	40:DF:23:ASP:N	2.41	0.52
40:DF:83:PHE:O	40:DF:84:VAL:HB	2.10	0.52
40:DF:198:ALA:C	40:DF:200:GLU:N	2.67	0.52
41:DG:70:VAL:CG1	41:DG:71:THR:N	2.72	0.52
45:DK:95:LYS:HD2	45:DK:95:LYS:N	2.24	0.52
45:DK:98:ARG:CD	45:DK:139:VAL:HG22	2.40	0.52
45:DK:109:LYS:O	45:DK:112:MET:HG2	2.09	0.52
49:DQ:1:MET:O	49:DQ:2:LEU:CB	2.57	0.52
52:DT:24:PRO:HA	52:DT:49:VAL:HG13	1.91	0.52
1:AA:509:A:H5'	4:AD:54:TYR:CD2	2.45	0.52
1:AA:663:A:H5"	18:AR:61:LYS:NZ	2.25	0.52
1:AA:922:G:H2'	1:AA:923:A:C8	2.45	0.52
1:AA:1321:C:H5"	1:AA:1322:C:H5"	1.90	0.52
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.45	0.52
2:AB:167:PRO:HG3	2:AB:188:ALA:CB	2.40	0.52
4:AD:49:ARG:HD3	4:AD:50:ARG:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:34:ASP:C	11:AK:36:ASP:H	2.18	0.52
13:AM:108:ARG:HH12	13:AM:111:LYS:HB2	1.75	0.52
22:AV:31:A:H2'	22:AV:32:U:C6	2.45	0.52
22:AV:68:C:H2'	22:AV:69:G:H5'	1.91	0.52
24:AY:19:ILE:N	24:AY:20:PRO:HD2	2.25	0.52
24:AY:88:LYS:CD	24:AY:91:LEU:HD23	2.37	0.52
26:B1:30:VAL:H	35:BA:2396:G:C4'	2.23	0.52
27:B2:32:LEU:HD23	27:B2:32:LEU:C	2.34	0.52
33:B8:50:LEU:C	33:B8:53:PRO:HD2	2.34	0.52
35:BA:631:A:H2'	35:BA:632:A:O4'	2.10	0.52
35:BA:654:A:N3	35:BA:654(A):G:H1'	2.25	0.52
35:BA:1109:C:N3	35:BA:1110:G:N2	2.58	0.52
35:BA:1509(A):A:O2'	35:BA:1509(B):A:H5'	2.10	0.52
35:BA:1686:C:H2'	35:BA:1687:G:O4'	2.10	0.52
35:BA:2112:G:H2'	35:BA:2113:U:O4'	2.10	0.52
35:BA:2358:G:H1	48:BP:55:ARG:HH22	1.56	0.52
35:BA:2415:G:H2'	35:BA:2416:C:C6	2.45	0.52
35:BA:2515:C:O2'	35:BA:2516:G:H5'	2.10	0.52
37:BC:75:LEU:HB3	37:BC:120:MET:HA	1.92	0.52
38:BD:8:PRO:HB3	38:BD:14:ARG:CB	2.39	0.52
38:BD:150:LYS:HA	38:BD:150:LYS:HE3	1.89	0.52
42:BH:41:MET:HG2	42:BH:54:ARG:HA	1.91	0.52
42:BH:89:ILE:HD11	42:BH:129:THR:HB	1.90	0.52
45:BK:109:LYS:O	45:BK:112:MET:HG2	2.10	0.52
46:BN:18:ALA:HB1	46:BN:21:LYS:CG	2.40	0.52
46:BN:23:LEU:HD13	46:BN:98:VAL:HG12	1.91	0.52
48:BP:122:PRO:HA	48:BP:141:ALA:O	2.10	0.52
48:BP:130:PHE:N	48:BP:130:PHE:HD2	2.08	0.52
48:BP:134:ALA:C	48:BP:136:GLU:N	2.65	0.52
51:BS:76:LYS:O	51:BS:80:LEU:HD13	2.09	0.52
52:BT:50:ILE:HD12	52:BT:50:ILE:N	2.23	0.52
1:CA:745:C:O2'	1:CA:746:A:H5'	2.08	0.52
1:CA:829:G:H2'	1:CA:830:G:H8	1.74	0.52
1:CA:1031:G:O2'	1:CA:1032:G:H5'	2.09	0.52
1:CA:1221:G:O2'	1:CA:1222:G:H5'	2.09	0.52
1:CA:1239:A:H62	1:CA:1299:A:N6	2.08	0.52
2:CB:82:ARG:HB3	2:CB:94:ASN:HD21	1.74	0.52
12:CL:61:THR:C	12:CL:63:GLY:H	2.18	0.52
13:CM:7:VAL:O	13:CM:9:ILE:HD12	2.10	0.52
19:CS:20:LEU:CA	19:CS:23:ASN:HD22	2.13	0.52
20:CT:49:ALA:HB1	20:CT:100:ILE:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:6:ARG:HH21	21:CU:15:ARG:HH21	1.56	0.52
24:CY:88:LYS:N	24:CY:89:PRO:HD2	2.25	0.52
26:D1:45:ASN:ND2	35:DA:2090:G:H21	2.05	0.52
27:D2:43:GLN:O	27:D2:44:LEU:HB2	2.09	0.52
30:D5:40:LYS:CE	30:D5:46:CYS:HB3	2.40	0.52
35:DA:1272:A:OP2	35:DA:1647:G:OP1	2.28	0.52
35:DA:1889:A:O2'	35:DA:2087:G:H5'	2.10	0.52
35:DA:2808:U:C2'	35:DA:2809:A:H5'	2.39	0.52
35:DA:2846:G:OP2	52:DT:54:ARG:HB2	2.10	0.52
36:DB:4:C:H2'	36:DB:5:C:H6	1.74	0.52
36:DB:17:C:C2'	36:DB:18:G:H5'	2.40	0.52
38:DD:12:SER:HB2	38:DD:208:LYS:HB3	1.91	0.52
38:DD:211:ARG:O	38:DD:212:SER:C	2.53	0.52
39:DE:108:SER:OG	39:DE:163:GLU:HG2	2.10	0.52
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.90	0.52
41:DG:55:LYS:C	41:DG:57:ALA:N	2.64	0.52
41:DG:149:VAL:O	41:DG:149:VAL:HG23	2.10	0.52
42:DH:30:LYS:HE3	42:DH:81:GLU:HG2	1.92	0.52
42:DH:87:LEU:C	42:DH:88:LEU:HD22	2.35	0.52
59:DI:69:LYS:HE2	59:DI:136:VAL:CB	2.35	0.52
52:DT:74:ARG:HB3	52:DT:76:PHE:CE1	2.44	0.52
54:DV:18:LEU:HD12	54:DV:18:LEU:N	2.24	0.52
55:DW:62:HIS:O	55:DW:63:ASP:C	2.53	0.52
56:DX:51:VAL:HA	56:DX:82:GLN:O	2.10	0.52
57:DY:26:LYS:HG2	57:DY:27:VAL:N	2.22	0.52
57:DY:40:GLU:OE2	57:DY:40:GLU:HA	2.10	0.52
1:AA:35:G:N2	12:AL:118:SER:OG	2.33	0.52
1:AA:59:A:N6	1:AA:331:G:H1'	2.24	0.52
4:AD:18:LYS:C	4:AD:19:LEU:HD12	2.35	0.52
4:AD:68:TYR:CZ	4:AD:97:LEU:HD22	2.43	0.52
4:AD:110:PHE:CE2	4:AD:148:VAL:HG23	2.45	0.52
7:AG:136:LYS:C	7:AG:138:LYS:N	2.68	0.52
7:AG:147:ALA:C	7:AG:148:ASN:HD22	2.18	0.52
8:AH:35:ILE:O	8:AH:39:LEU:CD2	2.57	0.52
10:AJ:32:ALA:H	10:AJ:78:ASN:ND2	2.07	0.52
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.92	0.52
11:AK:18:ARG:O	11:AK:32:ILE:HG22	2.10	0.52
11:AK:114:VAL:O	11:AK:114:VAL:HG13	2.10	0.52
12:AL:59:ARG:HA	12:AL:65:GLU:HG3	1.92	0.52
15:AO:38:ARG:HH11	15:AO:38:ARG:HG2	1.75	0.52
19:AS:58:VAL:HG21	19:AS:75:ALA:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:25:ARG:O	20:AT:29:LYS:HE3	2.09	0.52
21:AU:6:ARG:HH21	21:AU:15:ARG:HH21	1.56	0.52
26:B1:56:GLN:HE21	26:B1:56:GLN:CA	2.10	0.52
31:B6:35:GLU:HB3	31:B6:51:GLU:HG3	1.91	0.52
35:BA:271(L):U:H4'	35:BA:271(M):G:C5	2.45	0.52
35:BA:573:G:O2'	35:BA:574:C:H3'	2.10	0.52
35:BA:845:G:H8	35:BA:845:G:O5'	1.92	0.52
35:BA:1076:C:H2'	35:BA:1077:A:C8	2.45	0.52
35:BA:1640:C:H2'	35:BA:1641:A:O4'	2.10	0.52
35:BA:2099:U:O2	35:BA:2099:U:C2'	2.57	0.52
35:BA:2136:C:H2'	35:BA:2137:C:H6	1.75	0.52
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.25	0.52
35:BA:2354:G:H2'	35:BA:2355:C:H6	1.75	0.52
35:BA:2625:G:H2'	35:BA:2626:C:O4'	2.10	0.52
38:BD:125:ILE:HG22	38:BD:125:ILE:O	2.10	0.52
40:BF:107:LYS:HE3	40:BF:205:ARG:O	2.09	0.52
40:BF:144:LYS:C	40:BF:146:ALA:H	2.18	0.52
41:BG:111:LEU:CD2	41:BG:120:LEU:HD21	2.40	0.52
42:BH:30:LYS:HE3	42:BH:81:GLU:HG2	1.91	0.52
42:BH:35:VAL:HG13	42:BH:71:LEU:HD22	1.92	0.52
42:BH:76:VAL:C	42:BH:78:GLY:H	2.17	0.52
44:BJ:22:UNK:CB	44:BJ:119:UNK:HA	2.40	0.52
45:BK:19:PRO:O	45:BK:22:PRO:HD2	2.10	0.52
45:BK:53:VAL:HG23	45:BK:53:VAL:O	2.10	0.52
45:BK:58:THR:HG22	45:BK:59:ILE:N	2.25	0.52
46:BN:9:VAL:HG12	46:BN:10:GLU:N	2.23	0.52
48:BP:100:LEU:HD22	48:BP:100:LEU:N	2.24	0.52
48:BP:125:VAL:CG1	48:BP:138:LEU:HD21	2.40	0.52
50:BR:26:LYS:HE2	50:BR:71:GLN:H	1.74	0.52
52:BT:50:ILE:HD11	52:BT:64:ARG:HB2	1.91	0.52
52:BT:50:ILE:HA	52:BT:99:LEU:HD11	1.92	0.52
53:BU:88:ILE:C	53:BU:90:VAL:N	2.67	0.52
55:BW:9:TYR:CD2	55:BW:9:TYR:N	2.77	0.52
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.09	0.52
56:BX:90:GLU:O	56:BX:93:GLU:HB2	2.09	0.52
57:BY:55:TYR:O	57:BY:56:PRO:C	2.50	0.52
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.90	0.52
58:BZ:64:GLY:O	58:BZ:65:GLN:C	2.53	0.52
1:CA:453:A:O2'	1:CA:454:C:C6	2.60	0.52
1:CA:639:G:H2'	1:CA:640:A:H8	1.74	0.52
1:CA:741:G:H5'	15:CO:39:LEU:HD23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1027:C:H2'	1:CA:1028:C:C5	2.44	0.52
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.92	0.52
2:CB:220:ASP:O	2:CB:222:ILE:N	2.43	0.52
3:CC:52:LEU:H	3:CC:52:LEU:CD2	2.18	0.52
4:CD:11:LEU:HD23	4:CD:11:LEU:H	1.75	0.52
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.92	0.52
6:CF:42:GLU:C	6:CF:44:GLY:H	2.18	0.52
9:CI:10:ARG:HD3	9:CI:75:ASP:HB3	1.91	0.52
9:CI:53:VAL:HG11	9:CI:92:TYR:CE2	2.45	0.52
10:CJ:24:VAL:HG12	10:CJ:28:ARG:HD2	1.90	0.52
11:CK:51:LYS:HD3	11:CK:51:LYS:N	2.25	0.52
17:CQ:21:VAL:HG21	17:CQ:59:ILE:HD11	1.91	0.52
18:CR:87:ARG:HG2	18:CR:87:ARG:O	2.10	0.52
19:CS:20:LEU:HA	19:CS:23:ASN:HB3	1.92	0.52
21:CU:7:ARG:O	21:CU:8:THR:HG23	2.10	0.52
22:CW:49:C:C2'	22:CW:50:U:H5'	2.39	0.52
26:D1:88:LYS:NZ	26:D1:92:LYS:CB	2.67	0.52
27:D2:2:LYS:HA	27:D2:5:GLU:OE1	2.09	0.52
31:D6:26:ASN:ND2	31:D6:32:ASN:OD1	2.43	0.52
35:DA:20:C:O2'	35:DA:21:A:H5'	2.09	0.52
35:DA:644:A:H4'	35:DA:645:C:C5	2.45	0.52
35:DA:1429:G:H2'	35:DA:1430:C:C6	2.45	0.52
41:DG:98:ARG:HA	41:DG:101:ILE:HD12	1.91	0.52
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.90	0.52
41:DG:111:LEU:HD21	41:DG:120:LEU:HD21	1.91	0.52
41:DG:161:THR:C	41:DG:163:ALA:N	2.67	0.52
41:DG:181:ARG:O	41:DG:181:ARG:HD2	2.10	0.52
42:DH:20:ALA:CB	42:DH:21:PRO:CD	2.87	0.52
45:DK:27:LEU:HD23	45:DK:27:LEU:H	1.75	0.52
50:DR:26:LYS:HE2	50:DR:71:GLN:H	1.73	0.52
51:DS:16:ASN:C	51:DS:17:ARG:O	2.48	0.52
51:DS:89:ARG:NH1	51:DS:92:TYR:HA	2.11	0.52
52:DT:41:ARG:CZ	52:DT:41:ARG:HB3	2.40	0.52
52:DT:121:ILE:HG22	52:DT:122:ASP:N	2.24	0.52
55:DW:55:ALA:O	55:DW:58:ALA:HB3	2.10	0.52
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.25	0.52
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.44	0.52
3:AC:28:GLN:O	3:AC:29:TYR:C	2.53	0.52
3:AC:87:LEU:HA	3:AC:90:GLU:HG2	1.91	0.52
4:AD:31:CYS:SG	4:AD:33:MET:HB3	2.50	0.52
6:AF:50:TYR:HB2	6:AF:51:PRO:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:32:ALA:H	10:AJ:78:ASN:HD21	1.56	0.52
19:AS:20:LEU:CA	19:AS:23:ASN:HB3	2.40	0.52
24:AY:286:LEU:HD23	24:AY:286:LEU:O	2.09	0.52
31:B6:20:ASN:CG	31:B6:21:TYR:H	2.18	0.52
33:B8:10:ALA:HB2	33:B8:59:LYS:HZ2	1.74	0.52
33:B8:36:LYS:HE2	33:B8:40:GLU:OE2	2.10	0.52
35:BA:30:G:H2'	35:BA:31:C:C6	2.44	0.52
35:BA:142:A:H8	35:BA:1595:G:H21	1.55	0.52
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.74	0.52
35:BA:582:G:H2'	35:BA:583:G:C8	2.45	0.52
35:BA:740:U:H2'	35:BA:741:G:C8	2.45	0.52
35:BA:1437:C:H5'	35:BA:1437:C:H6	1.73	0.52
35:BA:1991:U:H2'	35:BA:1992:G:H5"	1.91	0.52
36:BB:95:C:C2'	36:BB:96:U:H6	2.15	0.52
38:BD:161:THR:O	38:BD:162:SER:HB3	2.10	0.52
38:BD:242:ARG:HG2	38:BD:242:ARG:NH1	2.25	0.52
39:BE:101:ARG:HA	39:BE:170:LEU:O	2.10	0.52
39:BE:132:HIS:CG	39:BE:135:HIS:HE2	2.27	0.52
45:BK:15:GLY:HA2	45:BK:42:ASN:OD1	2.10	0.52
45:BK:35:MET:C	45:BK:37:PHE:H	2.17	0.52
45:BK:73:PRO:C	45:BK:75:SER:H	2.18	0.52
46:BN:120:LEU:HD13	46:BN:120:LEU:C	2.34	0.52
47:BO:101:PRO:HD2	52:BT:70:VAL:HB	1.92	0.52
48:BP:24:GLY:CA	48:BP:33:ARG:NH1	2.73	0.52
48:BP:57:THR:C	48:BP:59:LEU:N	2.67	0.52
50:BR:41:ALA:C	50:BR:43:GLU:N	2.67	0.52
52:BT:3:ARG:HG2	52:BT:6:LEU:N	2.16	0.52
1:CA:165:C:O2'	1:CA:166:G:H5'	2.10	0.52
1:CA:370:C:N4	1:CA:391:G:N1	2.54	0.52
1:CA:946:A:H2'	1:CA:947:G:C8	2.45	0.52
1:CA:985:C:H2'	1:CA:986:A:C8	2.45	0.52
3:CC:70:VAL:HG12	3:CC:72:LYS:N	2.15	0.52
6:CF:53:ALA:C	6:CF:55:ASP:H	2.18	0.52
7:CG:20:ASP:O	7:CG:24:THR:HG23	2.10	0.52
22:CW:71:G:H2'	22:CW:72:C:O4'	2.10	0.52
24:CY:166:TYR:CD1	24:CY:167:ALA:N	2.78	0.52
26:D1:80:LEU:CD1	26:D1:82:LEU:HD21	2.40	0.52
31:D6:28:ARG:NH1	31:D6:28:ARG:CB	2.67	0.52
31:D6:36:LEU:N	31:D6:36:LEU:HD23	2.25	0.52
35:DA:99:U:C6	35:DA:102:G:N2	2.78	0.52
35:DA:256:A:H2'	35:DA:257:A:H8	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:715:G:H2'	35:DA:716:A:O4'	2.10	0.52
35:DA:724:U:O2'	35:DA:725:G:H5'	2.10	0.52
35:DA:1075:C:H2'	35:DA:1076:C:H6	1.74	0.52
35:DA:1166:C:H2'	35:DA:1167:U:H6	1.74	0.52
35:DA:1286:A:C2'	35:DA:1288:U:OP2	2.57	0.52
35:DA:2668:G:O2'	35:DA:2669:G:H5'	2.09	0.52
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.75	0.52
37:DC:59:ARG:HG2	37:DC:62:VAL:CG2	2.40	0.52
37:DC:78:ALA:HA	37:DC:82:LYS:HD2	1.91	0.52
39:DE:104:VAL:HG11	39:DE:188:VAL:HG21	1.92	0.52
40:DF:24:LEU:CB	40:DF:25:PRO:CD	2.87	0.52
40:DF:198:ALA:C	40:DF:200:GLU:H	2.17	0.52
42:DH:103:LEU:CD1	42:DH:104:GLU:H	2.23	0.52
59:DI:135:GLU:HG3	59:DI:136:VAL:HG23	1.91	0.52
49:DQ:114:ALA:O	49:DQ:116:GLU:N	2.43	0.52
52:DT:3:ARG:C	52:DT:5:ALA:H	2.18	0.52
52:DT:58:ASN:HD22	52:DT:58:ASN:C	2.16	0.52
58:DZ:165:VAL:CG1	58:DZ:166:SER:N	2.72	0.52
1:AA:381:C:H2'	1:AA:382:A:C8	2.45	0.52
1:AA:411:A:H2'	1:AA:412:A:H4'	1.92	0.52
1:AA:1065:U:H5"	1:AA:1190:G:H21	1.75	0.52
1:AA:1363(A):A:C4'	1:AA:1364:U:H5"	2.34	0.52
3:AC:64:VAL:HG12	3:AC:66:VAL:CG2	2.40	0.52
4:AD:19:LEU:HB3	4:AD:21:LEU:HG	1.91	0.52
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.78	0.52
5:AE:139:LEU:C	5:AE:141:GLN:H	2.18	0.52
18:AR:58:LEU:HB3	18:AR:62:GLU:HB2	1.91	0.52
20:AT:53:LEU:O	20:AT:56:MET:N	2.43	0.52
23:AX:18:A:N3	23:AX:18:A:H2'	2.25	0.52
24:AY:66:GLU:C	24:AY:68:ASP:H	2.18	0.52
26:B1:45:ASN:ND2	26:B1:47:GLN:HE21	2.08	0.52
27:B2:42:GLY:O	27:B2:44:LEU:N	2.39	0.52
35:BA:265:A:H1'	35:BA:266:G:O4'	2.10	0.52
35:BA:613:G:H8	35:BA:613:G:H5'	1.75	0.52
35:BA:871:U:H4'	49:BQ:69:PHE:CD2	2.44	0.52
35:BA:1132:A:H2'	35:BA:1133:U:C6	2.45	0.52
35:BA:1568:G:H5"	38:BD:61:LEU:CD1	2.34	0.52
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.33	0.52
35:BA:2029:G:H2'	35:BA:2031:A:OP1	2.09	0.52
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.44	0.52
37:BC:59:ARG:HG2	37:BC:62:VAL:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:77:ALA:CB	38:BD:97:TYR:HA	2.40	0.52
40:BF:53:THR:C	40:BF:55:GLY:N	2.66	0.52
41:BG:38:VAL:HG13	41:BG:93:THR:HG23	1.91	0.52
42:BH:94:TYR:CD2	42:BH:107:VAL:HB	2.45	0.52
42:BH:137:ASP:HB3	42:BH:140:LYS:HB3	1.92	0.52
46:BN:26:LEU:HD11	46:BN:30:ILE:HD11	1.92	0.52
51:BS:12:PHE:H	51:BS:12:PHE:HD1	1.58	0.52
54:BV:19:LYS:HD3	54:BV:22:VAL:HG23	1.92	0.52
56:BX:11:PRO:O	56:BX:13:LEU:HG	2.10	0.52
57:BY:2:ARG:O	57:BY:4:LYS:HG3	2.09	0.52
57:BY:31:LEU:CB	57:BY:32:PRO:HA	2.37	0.52
58:BZ:29:TYR:O	58:BZ:30:ASN:HB3	2.09	0.52
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	2.24	0.52
1:CA:407:G:H2'	1:CA:408:A:H8	1.75	0.52
1:CA:612:C:O2'	1:CA:613:C:H5'	2.10	0.52
1:CA:624:C:H2'	1:CA:625:G:H8	1.74	0.52
1:CA:834:C:H2'	1:CA:835:U:C6	2.45	0.52
1:CA:1178:G:P	9:CI:93:ARG:HH21	2.33	0.52
2:CB:134:GLU:OE1	2:CB:138:LEU:HD11	2.09	0.52
2:CB:214:ILE:O	2:CB:218:ALA:HB2	2.10	0.52
5:CE:6:PHE:N	5:CE:6:PHE:CD1	2.78	0.52
5:CE:107:ARG:C	5:CE:109:ILE:N	2.68	0.52
7:CG:147:ALA:C	7:CG:148:ASN:HD22	2.17	0.52
9:CI:5:TYR:HE2	9:CI:16:ARG:HG2	1.75	0.52
18:CR:47:THR:HB	18:CR:49:LYS:HG2	1.91	0.52
20:CT:45:GLN:CB	20:CT:91:LEU:HD13	2.35	0.52
24:CY:150:GLN:CB	24:CY:172:LYS:HB2	2.40	0.52
28:D3:2:PRO:HG2	28:D3:4:LEU:HG	1.91	0.52
35:DA:271(A):A:H3'	35:DA:271(B):C:C6	2.45	0.52
35:DA:729:G:H5'	35:DA:730:C:H5"	1.92	0.52
35:DA:1510:G:H2'	35:DA:1511:C:C6	2.45	0.52
35:DA:1528(A):A:N7	35:DA:1529:G:H8	2.08	0.52
35:DA:2123:G:H4'	37:DC:166:ASP:CB	2.40	0.52
36:DB:45:A:H1'	41:DG:95:ARG:CZ	2.39	0.52
38:DD:242:ARG:NH1	38:DD:242:ARG:HG2	2.25	0.52
39:DE:128:SER:O	39:DE:129:HIS:HB2	2.09	0.52
41:DG:51:ARG:CZ	41:DG:53:LEU:HG	2.39	0.52
46:DN:24:GLY:O	46:DN:28:THR:HG22	2.10	0.52
48:DP:71:VAL:HB	48:DP:72:PRO:CD	2.37	0.52
48:DP:125:VAL:CG1	48:DP:138:LEU:HD21	2.40	0.52
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:18:LEU:CD1	50:DR:22:ARG:NE	2.73	0.52
50:DR:64:ARG:O	50:DR:68:ARG:HG3	2.10	0.52
52:DT:50:ILE:HD11	52:DT:64:ARG:HB2	1.92	0.52
52:DT:82:LEU:C	52:DT:84:GLN:H	2.18	0.52
53:DU:88:ILE:HB	53:DU:90:VAL:CG2	2.38	0.52
54:DV:66:ARG:HG2	54:DV:88:ARG:CB	2.37	0.52
1:AA:376:G:H2'	1:AA:377:G:H8	1.75	0.51
1:AA:767:A:H2'	1:AA:768:A:O4'	2.09	0.51
1:AA:1142:G:H2'	1:AA:1143:G:H5'	1.92	0.51
1:AA:1337:G:H5"	1:AA:1338:G:OP1	2.09	0.51
1:AA:1396:A:H4'	1:AA:1398:A:C1'	2.39	0.51
2:AB:109:SER:HA	2:AB:112:VAL:HG23	1.92	0.51
2:AB:111:ARG:HH11	2:AB:111:ARG:HG2	1.76	0.51
2:AB:143:GLU:O	2:AB:147:LYS:HB2	2.10	0.51
2:AB:231:GLU:HB2	2:AB:232:PRO:CD	2.39	0.51
3:AC:87:LEU:C	3:AC:89:GLU:N	2.66	0.51
3:AC:101:LEU:HD23	3:AC:101:LEU:O	2.10	0.51
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.92	0.51
11:AK:31:THR:O	11:AK:31:THR:HG23	2.10	0.51
13:AM:27:LYS:O	13:AM:30:ALA:HB3	2.10	0.51
20:AT:89:ARG:NH2	20:AT:104:LEU:HD11	2.21	0.51
22:AW:25:C:H2'	22:AW:26:A:C8	2.45	0.51
26:B1:51:VAL:HG12	26:B1:58:ILE:HG22	1.91	0.51
31:B6:37:ARG:HH11	31:B6:37:ARG:HG2	1.75	0.51
35:BA:797:C:OP2	40:BF:62:ARG:HG3	2.11	0.51
35:BA:879:G:H2'	35:BA:880:G:C8	2.42	0.51
35:BA:1142:U:H6	35:BA:1142:U:O5'	1.93	0.51
35:BA:1286:A:C2'	35:BA:1288:U:OP2	2.58	0.51
35:BA:2432:A:H2'	35:BA:2433:A:C8	2.45	0.51
37:BC:103:ILE:C	37:BC:105:ASP:N	2.68	0.51
41:BG:134:GLY:O	41:BG:135:LEU:HD12	2.10	0.51
41:BG:137:GLU:HG2	41:BG:152:LEU:HD21	1.91	0.51
41:BG:173:LEU:HB3	41:BG:178:PHE:CD2	2.45	0.51
43:BI:29:TYR:HD2	43:BI:30:LEU:HD23	1.75	0.51
44:BJ:18:UNK:C	44:BJ:20:UNK:H	2.23	0.51
45:BK:125:ARG:HH11	45:BK:125:ARG:HG2	1.75	0.51
51:BS:85:VAL:CG2	51:BS:106:ARG:HB2	2.37	0.51
57:BY:7:VAL:HB	57:BY:8:LYS:HZ2	1.76	0.51
57:BY:87:LYS:HD3	57:BY:89:PHE:HD1	1.75	0.51
1:CA:8:A:C6	4:CD:209:ARG:HA	2.44	0.51
1:CA:925:G:H4'	1:CA:1502:A:C2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:975:A:C4'	1:CA:976:G:H5"	2.35	0.51
2:CB:54:THR:CG2	2:CB:201:ILE:HD11	2.32	0.51
4:CD:18:LYS:C	4:CD:19:LEU:HD12	2.35	0.51
4:CD:19:LEU:HB3	4:CD:21:LEU:HG	1.91	0.51
5:CE:146:ALA:C	5:CE:148:VAL:H	2.18	0.51
12:CL:60:LEU:HD22	12:CL:60:LEU:N	2.25	0.51
16:CP:67:THR:OG1	16:CP:70:ALA:HB2	2.09	0.51
28:D3:2:PRO:CG	28:D3:58:VAL:HG12	2.40	0.51
33:D8:48:PHE:HZ	35:DA:650:C:H5'	1.75	0.51
35:DA:1841:U:H1'	38:DD:244:ARG:HH22	1.75	0.51
35:DA:2057:A:H2'	35:DA:2058:A:O4'	2.11	0.51
35:DA:2776:A:OP1	35:DA:2776:A:H3'	2.10	0.51
37:DC:37:PHE:O	37:DC:39:GLU:N	2.43	0.51
37:DC:72:VAL:HG12	37:DC:74:VAL:HG23	1.92	0.51
38:DD:31:LYS:O	38:DD:36:PRO:HD3	2.10	0.51
38:DD:197:GLY:O	38:DD:198:ASN:C	2.53	0.51
39:DE:2:LYS:HA	39:DE:84:PHE:CE2	2.44	0.51
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.10	0.51
41:DG:98:ARG:O	41:DG:101:ILE:HD13	2.11	0.51
42:DH:92:ILE:C	42:DH:94:TYR:H	2.18	0.51
45:DK:73:PRO:C	45:DK:75:SER:H	2.18	0.51
48:DP:33:ARG:O	48:DP:34:GLY:O	2.27	0.51
48:DP:122:PRO:HA	48:DP:141:ALA:O	2.10	0.51
50:DR:41:ALA:O	50:DR:43:GLU:N	2.43	0.51
56:DX:9:LEU:HD12	56:DX:30:VAL:O	2.11	0.51
1:AA:959:A:C2'	1:AA:960:U:H4'	2.40	0.51
1:AA:1278:U:H5"	1:AA:1279:A:O4'	2.10	0.51
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.75	0.51
3:AC:72:LYS:HG2	3:AC:75:VAL:HG23	1.92	0.51
4:AD:120:LEU:HD23	4:AD:125:HIS:HD2	1.75	0.51
8:AH:25:ASP:HB3	8:AH:58:TYR:HB3	1.91	0.51
13:AM:16:ASP:HB3	13:AM:41:PRO:HB3	1.91	0.51
19:AS:29:ARG:O	19:AS:31:ILE:N	2.43	0.51
20:AT:104:LEU:HD23	20:AT:105:SER:N	2.25	0.51
24:AY:249:VAL:CG2	24:AY:250:ARG:N	2.74	0.51
25:B0:34:GLY:O	25:B0:35:ASN:C	2.52	0.51
26:B1:53:VAL:O	26:B1:55:GLY:N	2.42	0.51
35:BA:645:C:O2	35:BA:645:C:C2'	2.58	0.51
35:BA:956:G:OP2	49:BQ:14:ARG:NH2	2.42	0.51
35:BA:1485:G:O2'	35:BA:1486:A:H5'	2.10	0.51
35:BA:1505:C:H3'	35:BA:1506:C:C6	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2732:G:C3'	35:BA:2733:A:H5'	2.39	0.51
37:BC:59:ARG:HD3	37:BC:59:ARG:N	2.25	0.51
38:BD:101:GLU:HG3	38:BD:102:LYS:N	2.25	0.51
38:BD:270:ILE:O	38:BD:270:ILE:HD12	2.10	0.51
41:BG:29:TRP:O	41:BG:33:ARG:NH1	2.43	0.51
41:BG:41:GLN:O	41:BG:43:LEU:HD23	2.10	0.51
45:BK:98:ARG:O	45:BK:99:ILE:HD13	2.09	0.51
46:BN:10:GLU:OE2	46:BN:11:PRO:HD2	2.11	0.51
47:BO:105:GLU:N	47:BO:105:GLU:OE1	2.44	0.51
48:BP:30:THR:CG2	48:BP:31:ALA:N	2.57	0.51
50:BR:63:ARG:HA	50:BR:80:PHE:HE2	1.75	0.51
51:BS:17:ARG:HA	51:BS:20:ARG:NH1	2.24	0.51
52:BT:3:ARG:C	52:BT:5:ALA:H	2.16	0.51
54:BV:6:LYS:HG2	54:BV:37:VAL:CB	2.38	0.51
58:BZ:67:LEU:HD12	58:BZ:67:LEU:N	2.25	0.51
1:CA:376:G:O3'	16:CP:5:ARG:NH1	2.43	0.51
1:CA:728:A:H2'	1:CA:729:A:C8	2.44	0.51
1:CA:995:C:O2'	1:CA:996:A:H5'	2.10	0.51
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.46	0.51
2:CB:109:SER:HA	2:CB:112:VAL:HG23	1.93	0.51
4:CD:79:PHE:HA	4:CD:93:PHE:CD2	2.45	0.51
4:CD:128:VAL:CG1	4:CD:129:ASN:H	2.24	0.51
4:CD:128:VAL:CG1	4:CD:129:ASN:N	2.72	0.51
4:CD:180:GLY:O	4:CD:181:MET:C	2.53	0.51
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.35	0.51
14:CN:44:LEU:HD23	14:CN:44:LEU:C	2.36	0.51
15:CO:36:ILE:HG22	15:CO:37:ASN:HD22	1.74	0.51
16:CP:72:ARG:NH2	16:CP:73:LEU:HD21	2.25	0.51
19:CS:4:SER:O	19:CS:5:LEU:CB	2.57	0.51
24:CY:316:LEU:CD2	24:CY:333:PRO:HB2	2.41	0.51
29:D4:57:ILE:HG22	29:D4:59:VAL:HG23	1.92	0.51
30:D5:16:ARG:NH2	35:DA:517:C:OP1	2.44	0.51
31:D6:19:ARG:CG	31:D6:20:ASN:N	2.66	0.51
35:DA:107:C:H2'	35:DA:108:U:H6	1.75	0.51
35:DA:494:G:H21	55:DW:57:ASN:ND2	2.05	0.51
35:DA:827:U:H2'	35:DA:2068:U:C2	2.45	0.51
35:DA:1063:G:O2'	45:DK:87:GLY:HA3	2.09	0.51
35:DA:1598:C:H5'	56:DX:36:LYS:CG	2.41	0.51
35:DA:1756:G:H4'	35:DA:1758:G:O4'	2.09	0.51
35:DA:2136:C:H2'	35:DA:2137:C:H6	1.74	0.51
35:DA:2307:G:H3'	35:DA:2307:G:N3	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2534:A:H5'	35:DA:2534:A:C8	2.37	0.51
35:DA:2634:G:O3'	39:DE:77:ILE:HG21	2.10	0.51
40:DF:22:ALA:HA	40:DF:26:ALA:CB	2.34	0.51
41:DG:44:GLY:C	41:DG:46:ALA:H	2.18	0.51
41:DG:102:PHE:C	41:DG:102:PHE:CD1	2.89	0.51
42:DH:89:ILE:HD11	42:DH:129:THR:HB	1.92	0.51
45:DK:91:PRO:C	58:DZ:112:ARG:NH2	2.67	0.51
49:DQ:2:LEU:HG	49:DQ:69:PHE:HE1	1.75	0.51
52:DT:27:THR:O	52:DT:28:VAL:HG23	2.10	0.51
57:DY:16:ALA:HA	57:DY:21:LYS:CD	2.38	0.51
1:AA:193:C:O2'	1:AA:194:C:H5'	2.10	0.51
1:AA:243:A:O2'	1:AA:244:U:OP2	2.25	0.51
1:AA:1000:U:H3'	35:DA:2116:G:O6	2.10	0.51
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.45	0.51
2:AB:58:ILE:HG22	2:AB:222:ILE:HG12	1.92	0.51
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.76	0.51
5:AE:48:ALA:C	5:AE:50:GLU:H	2.18	0.51
5:AE:78:HIS:HE1	5:AE:143:ARG:H	1.59	0.51
8:AH:109:ILE:HD11	8:AH:120:THR:CG2	2.40	0.51
8:AH:120:THR:O	8:AH:121:ASP:C	2.53	0.51
11:AK:51:LYS:HD3	11:AK:51:LYS:N	2.25	0.51
12:AL:104:VAL:HG12	12:AL:105:TYR:CD1	2.44	0.51
27:B2:21:LEU:O	27:B2:22:GLU:C	2.53	0.51
28:B3:3:ARG:O	28:B3:4:LEU:C	2.51	0.51
31:B6:25:LYS:HD2	33:B8:34:TRP:HZ2	1.75	0.51
31:B6:40:CYS:SG	31:B6:45:LYS:CE	2.98	0.51
35:BA:1081:U:O2'	45:BK:117:THR:HG21	2.10	0.51
35:BA:2131:G:H5"	35:BA:2132:U:C5'	2.41	0.51
35:BA:2206:G:N2	35:BA:2207:G:C5'	2.69	0.51
35:BA:2630:G:H21	35:BA:2892:A:H1'	1.76	0.51
35:BA:2636:U:H4'	39:BE:80:GLU:OE2	2.10	0.51
35:BA:2668:G:O2'	35:BA:2669:G:H5'	2.09	0.51
38:BD:91:ARG:HG2	38:BD:91:ARG:NH1	2.25	0.51
43:BI:31:LEU:HD13	43:BI:37:VAL:HA	1.92	0.51
48:BP:97:PRO:O	48:BP:101:VAL:HG12	2.10	0.51
49:BQ:2:LEU:HG	49:BQ:69:PHE:HE1	1.76	0.51
1:CA:360:A:H2'	1:CA:361:G:H8	1.76	0.51
1:CA:922:G:H2'	1:CA:923:A:C8	2.45	0.51
1:CA:1007:C:H2'	1:CA:1008:C:C6	2.45	0.51
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.92	0.51
2:CB:166:ASP:HB3	2:CB:169:LYS:CB	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:168:THR:HG23	2:CB:192:SER:OG	2.10	0.51
3:CC:33:LEU:O	3:CC:37:GLN:HG2	2.10	0.51
3:CC:101:LEU:O	3:CC:101:LEU:HD23	2.10	0.51
3:CC:155:GLY:O	3:CC:196:LEU:HD13	2.10	0.51
5:CE:67:VAL:HG21	5:CE:140:ARG:HA	1.91	0.51
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.41	0.51
11:CK:126:ARG:O	11:CK:127:LYS:C	2.52	0.51
12:CL:59:ARG:HA	12:CL:65:GLU:HG3	1.92	0.51
13:CM:67:GLU:O	13:CM:69:GLU:N	2.40	0.51
16:CP:47:ASP:C	16:CP:49:LEU:H	2.18	0.51
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.52	0.51
18:CR:58:LEU:HB3	18:CR:62:GLU:HB2	1.92	0.51
19:CS:27:GLU:O	19:CS:28:LYS:O	2.28	0.51
22:CW:41:C:H2'	22:CW:42:C:C6	2.46	0.51
24:CY:129:ALA:O	24:CY:132:TRP:HB3	2.10	0.51
31:D6:52:VAL:HG12	31:D6:53:LYS:N	2.25	0.51
33:D8:36:LYS:HE2	33:D8:40:GLU:OE2	2.09	0.51
34:D9:11:CYS:SG	34:D9:32:HIS:ND1	2.83	0.51
35:DA:176:G:C2'	35:DA:177:G:H5'	2.40	0.51
35:DA:359:A:H2'	35:DA:360:G:O4'	2.09	0.51
35:DA:812:C:O5'	48:DP:25:SER:O	2.29	0.51
35:DA:845:G:H8	35:DA:845:G:O5'	1.94	0.51
35:DA:852:G:O2'	35:DA:853:G:H5'	2.10	0.51
35:DA:963:U:H2'	35:DA:964:C:C6	2.45	0.51
35:DA:1748:G:H5'	35:DA:1748:G:H8	1.75	0.51
35:DA:1885:A:H3'	35:DA:1886:C:H6	1.75	0.51
38:DD:73:VAL:HG13	38:DD:120:GLY:HA2	1.92	0.51
38:DD:94:LEU:HD22	38:DD:94:LEU:C	2.36	0.51
40:DF:32:LEU:HD11	40:DF:105:VAL:HG13	1.92	0.51
41:DG:173:LEU:HD22	41:DG:178:PHE:CE2	2.46	0.51
44:DJ:30:UNK:O	44:DJ:32:UNK:N	2.43	0.51
53:DU:92:ARG:HD3	54:DV:11:GLN:CG	2.39	0.51
55:DW:9:TYR:N	55:DW:9:TYR:CD2	2.79	0.51
57:DY:39:VAL:CG1	57:DY:40:GLU:H	2.09	0.51
57:DY:48:ALA:C	57:DY:49:VAL:HG22	2.35	0.51
57:DY:87:LYS:HD3	57:DY:89:PHE:HD1	1.76	0.51
57:DY:97:ARG:HG3	57:DY:97:ARG:NH1	2.24	0.51
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.74	0.51
1:AA:245:C:O2'	1:AA:246:A:H5'	2.11	0.51
1:AA:304:U:H2'	1:AA:305:G:C8	2.45	0.51
1:AA:572:A:H5"	1:AA:917:G:H4'	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:829:G:H2'	1:AA:830:G:H8	1.75	0.51
1:AA:889:A:H5'	1:AA:891:U:H1'	1.93	0.51
4:AD:88:VAL:O	4:AD:92:VAL:HG23	2.10	0.51
9:AI:10:ARG:HD3	9:AI:75:ASP:CB	2.41	0.51
11:AK:88:GLY:O	11:AK:91:ARG:HB2	2.09	0.51
15:AO:25:THR:HG21	15:AO:70:LEU:HB2	1.91	0.51
24:AY:25:ARG:O	24:AY:28:GLU:HB2	2.09	0.51
24:AY:198:SER:O	24:AY:199:GLY:C	2.54	0.51
24:AY:341:LEU:O	24:AY:343:ASP:N	2.44	0.51
26:B1:80:LEU:HD23	26:B1:81:LYS:N	2.25	0.51
28:B3:45:GLY:HA2	28:B3:48:GLU:OE2	2.09	0.51
29:B4:57:ILE:HG22	29:B4:59:VAL:HG23	1.92	0.51
30:B5:2:ALA:N	35:BA:2015:A:N3	2.58	0.51
35:BA:1300:U:H4'	35:BA:1301:A:O5'	2.10	0.51
35:BA:2511:U:H2'	35:BA:2512:C:C6	2.45	0.51
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.45	0.51
37:BC:84:LYS:N	37:BC:84:LYS:HD2	2.26	0.51
39:BE:94:GLU:HG2	39:BE:177:PRO:HB3	1.91	0.51
41:BG:114:ILE:HG22	41:BG:116:ASP:C	2.35	0.51
41:BG:133:LEU:CD1	41:BG:157:ILE:HD11	2.39	0.51
42:BH:20:ALA:HB1	42:BH:21:PRO:HD3	1.89	0.51
42:BH:100:GLY:C	42:BH:102:ALA:N	2.67	0.51
42:BH:103:LEU:CG	42:BH:104:GLU:N	2.73	0.51
43:BI:28:ASN:CA	43:BI:32:PRO:HG2	2.40	0.51
45:BK:12:LEU:O	45:BK:52:ILE:HD12	2.10	0.51
50:BR:32:GLY:C	50:BR:33:ARG:HD2	2.35	0.51
52:BT:91:ARG:HA	52:BT:117:ASP:HB3	1.92	0.51
54:BV:22:VAL:O	54:BV:23:GLU:CB	2.58	0.51
57:BY:8:LYS:H	57:BY:8:LYS:CD	2.21	0.51
58:BZ:109:ALA:O	58:BZ:110:GLY:C	2.53	0.51
1:CA:67:C:H2'	1:CA:68:G:H8	1.72	0.51
1:CA:956:U:O2'	1:CA:957:U:H5'	2.10	0.51
2:CB:51:LEU:HD22	2:CB:55:PHE:HE2	1.75	0.51
2:CB:142:LEU:HD11	2:CB:146:GLN:NE2	2.26	0.51
4:CD:208:SER:O	4:CD:209:ARG:C	2.52	0.51
7:CG:109:ASN:C	7:CG:111:ARG:H	2.19	0.51
11:CK:120:ARG:NH2	11:CK:126:ARG:HH21	2.08	0.51
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	2.11	0.51
22:CW:60:U:H2'	22:CW:61:C:H5	1.75	0.51
27:D2:2:LYS:O	27:D2:5:GLU:N	2.43	0.51
27:D2:16:LEU:O	27:D2:17:SER:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:40:CYS:SG	31:D6:45:LYS:CE	2.99	0.51
35:DA:645:C:O2	35:DA:645:C:C2'	2.59	0.51
35:DA:1046:A:H2	44:DJ:8:UNK:CA	2.23	0.51
35:DA:1827:C:OP2	38:DD:222:ARG:NH1	2.43	0.51
35:DA:2793:G:H22	35:DA:2803:C:H1'	1.74	0.51
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.45	0.51
38:DD:201:HIS:O	38:DD:203:ASN:N	2.43	0.51
41:DG:51:ARG:NH1	41:DG:53:LEU:HG	2.26	0.51
42:DH:158:HIS:CE1	42:DH:169:VAL:O	2.62	0.51
59:DI:29:TYR:CE1	59:DI:33:ARG:NE	2.75	0.51
45:DK:98:ARG:O	45:DK:99:ILE:HD13	2.09	0.51
47:DO:104:ARG:CZ	47:DO:104:ARG:HB3	2.40	0.51
50:DR:77:ARG:O	50:DR:78:LYS:C	2.53	0.51
52:DT:28:VAL:HG13	52:DT:46:GLU:CA	2.38	0.51
53:DU:25:TRP:CD1	53:DU:26:GLY:N	2.79	0.51
53:DU:88:ILE:C	53:DU:90:VAL:N	2.67	0.51
54:DV:69:LYS:HA	54:DV:87:HIS:O	2.10	0.51
56:DX:30:VAL:CG1	56:DX:31:HIS:H	2.12	0.51
1:AA:706:A:C5	1:AA:707:C:H5	2.28	0.51
1:AA:851:G:H2'	1:AA:852:G:H8	1.75	0.51
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.45	0.51
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.75	0.51
4:AD:52:SER:O	4:AD:53:ASP:C	2.53	0.51
8:AH:82:HIS:CD2	8:AH:138:TRP:NE1	2.78	0.51
10:AJ:38:ILE:CD1	10:AJ:71:LEU:HD23	2.40	0.51
12:AL:52:LEU:O	12:AL:54:LYS:HD2	2.10	0.51
13:AM:67:GLU:O	13:AM:69:GLU:N	2.39	0.51
19:AS:11:VAL:HG22	19:AS:16:LEU:CD1	2.40	0.51
25:B0:43:THR:HG23	25:B0:43:THR:O	2.09	0.51
27:B2:5:GLU:O	27:B2:9:GLN:OE1	2.28	0.51
29:B4:38:ALA:HA	29:B4:55:PRO:HA	1.93	0.51
35:BA:297:C:H2'	35:BA:298:G:O4'	2.11	0.51
35:BA:633:A:H2'	35:BA:634:C:H5'	1.93	0.51
35:BA:1021:A:H2'	35:BA:1023:U:H5'	1.93	0.51
35:BA:1708:C:H2'	35:BA:1709:U:C6	2.45	0.51
35:BA:1885:A:H8	35:BA:1885:A:H5'	1.74	0.51
35:BA:2015:A:H5'	55:BW:92:ARG:NH2	2.25	0.51
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.45	0.51
35:BA:2534:A:H5'	35:BA:2534:A:C8	2.40	0.51
35:BA:2634:G:O3'	39:BE:77:ILE:HG21	2.10	0.51
37:BC:37:PHE:O	37:BC:39:GLU:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:94:LEU:C	38:BD:94:LEU:HD22	2.36	0.51
39:BE:30:PRO:O	39:BE:32:PRO:HD3	2.10	0.51
40:BF:3:GLU:HG2	40:BF:19:GLU:CB	2.25	0.51
41:BG:60:LEU:O	41:BG:64:THR:HG22	2.10	0.51
41:BG:114:ILE:O	41:BG:115:ARG:C	2.54	0.51
46:BN:133:GLN:CG	46:BN:135:PRO:HD3	2.31	0.51
47:BO:1:MET:HB2	47:BO:32:TYR:HB3	1.93	0.51
47:BO:104:ARG:CZ	47:BO:104:ARG:HB3	2.40	0.51
51:BS:89:ARG:O	51:BS:90:GLY:O	2.28	0.51
58:BZ:42:VAL:HG23	58:BZ:46:LYS:HE3	1.92	0.51
58:BZ:102:LEU:HD13	58:BZ:123:ASP:CA	2.38	0.51
1:CA:108:G:H5'	1:CA:109:A:C5'	2.40	0.51
1:CA:189(A):C:H2'	1:CA:189(B):C:H6	1.74	0.51
1:CA:473:G:H5"	16:CP:81:ARG:HE	1.74	0.51
1:CA:1418:A:C2	1:CA:1483:A:C2	2.98	0.51
2:CB:231:GLU:HB2	2:CB:232:PRO:HD2	1.93	0.51
3:CC:127:ARG:HH11	3:CC:127:ARG:HG2	1.75	0.51
6:CF:11:ASN:ND2	6:CF:86:ARG:NH2	2.58	0.51
7:CG:136:LYS:O	7:CG:138:LYS:N	2.44	0.51
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.93	0.51
10:CJ:42:THR:HG23	10:CJ:67:THR:O	2.11	0.51
13:CM:35:GLU:HG3	13:CM:36:LYS:H	1.75	0.51
16:CP:58:TYR:C	16:CP:58:TYR:CD1	2.88	0.51
22:CW:11:C:N4	22:CW:24:G:H1	2.07	0.51
25:D0:50:ASN:HB3	25:D0:63:VAL:HG22	1.93	0.51
35:DA:519:U:H2'	35:DA:520:G:H8	1.76	0.51
35:DA:956:G:OP2	49:DQ:14:ARG:NH2	2.43	0.51
35:DA:1268:A:H2'	35:DA:1269:A:O4'	2.11	0.51
35:DA:1300:U:HO2'	35:DA:1301:A:P	2.33	0.51
35:DA:1464:C:O2'	35:DA:1528:A:C8	2.62	0.51
35:DA:1600:C:O2'	35:DA:1601:G:H5'	2.11	0.51
35:DA:2138:C:H1'	35:DA:2154:G:H22	1.76	0.51
35:DA:2443:C:O2'	35:DA:2444:G:H5'	2.08	0.51
36:DB:45:A:H2'	36:DB:45:A:N3	2.25	0.51
38:DD:33:LEU:HD11	38:DD:102:LYS:HD2	1.93	0.51
38:DD:43:ARG:HD3	38:DD:49:ILE:HG22	1.93	0.51
38:DD:270:ILE:O	38:DD:270:ILE:HD12	2.10	0.51
40:DF:28:ILE:HD11	40:DF:115:ALA:HB3	1.93	0.51
40:DF:34:TRP:HB2	48:DP:10:PRO:O	2.11	0.51
41:DG:60:LEU:O	41:DG:63:ILE:HG12	2.11	0.51
42:DH:18:GLU:O	42:DH:24:VAL:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:40:GLU:HB3	42:DH:41:MET:SD	2.49	0.51
59:DI:5:LEU:HD23	59:DI:36:ALA:HB2	1.91	0.51
59:DI:120:ILE:HG23	59:DI:120:ILE:O	2.09	0.51
44:DJ:18:UNK:C	44:DJ:20:UNK:H	2.24	0.51
45:DK:52:ILE:HG23	45:DK:52:ILE:O	2.11	0.51
45:DK:94:GLU:CB	58:DZ:112:ARG:HH12	2.22	0.51
46:DN:40:PRO:C	46:DN:42:TRP:H	2.17	0.51
48:DP:48:PRO:CD	48:DP:49:ARG:H	2.24	0.51
50:DR:63:ARG:HA	50:DR:80:PHE:HE2	1.75	0.51
51:DS:54:LEU:HA	51:DS:57:LYS:O	2.11	0.51
52:DT:6:LEU:O	52:DT:6:LEU:HD23	2.10	0.51
54:DV:18:LEU:CG	54:DV:19:LYS:H	2.22	0.51
1:AA:451:A:N6	1:AA:480:U:H2'	2.26	0.51
1:AA:473:G:H5"	16:AP:81:ARG:HE	1.74	0.51
1:AA:995:C:O2'	1:AA:996:A:H5'	2.10	0.51
1:AA:1129:C:H5"	1:AA:1139:G:O6	2.10	0.51
2:AB:109:SER:O	2:AB:112:VAL:N	2.44	0.51
2:AB:140:HIS:HA	2:AB:143:GLU:CG	2.41	0.51
2:AB:167:PRO:HG2	2:AB:192:SER:CB	2.41	0.51
3:AC:141:VAL:HG11	3:AC:202:ILE:CD1	2.39	0.51
4:AD:83:SER:C	4:AD:85:LYS:H	2.18	0.51
5:AE:107:ARG:C	5:AE:109:ILE:N	2.68	0.51
7:AG:77:SER:O	7:AG:78:ARG:HB2	2.11	0.51
8:AH:123:GLU:O	8:AH:126:LYS:HB3	2.11	0.51
12:AL:24:VAL:HG12	12:AL:24:VAL:O	2.10	0.51
14:AN:37:PHE:N	14:AN:37:PHE:CD2	2.78	0.51
16:AP:5:ARG:HE	16:AP:22:THR:HG23	1.76	0.51
22:AV:16:U:H3	22:AV:59:U:H3	1.57	0.51
24:AY:37:SER:HB3	24:AY:38:LEU:HD22	1.93	0.51
25:B0:80:HIS:N	25:B0:80:HIS:CD2	2.79	0.51
30:B5:20:ARG:NH1	55:BW:15:ARG:NH2	2.57	0.51
31:B6:15:GLU:O	31:B6:15:GLU:HG2	2.10	0.51
35:BA:287:C:H2'	35:BA:288:C:O4'	2.11	0.51
35:BA:623:G:H2'	35:BA:624:C:C6	2.45	0.51
35:BA:914:C:H5'	35:BA:914:C:H6	1.76	0.51
35:BA:1116:C:H2'	35:BA:1117:G:C5'	2.34	0.51
35:BA:1448:G:H2'	35:BA:1449:A:H8	1.74	0.51
35:BA:2579:C:O2'	35:BA:2580:U:H5'	2.11	0.51
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.75	0.51
37:BC:68:LEU:HB2	37:BC:70:LYS:HE2	1.93	0.51
38:BD:27:THR:CG2	38:BD:83:GLU:HG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:33:LEU:HD11	38:BD:102:LYS:HD2	1.92	0.51
38:BD:34:VAL:O	38:BD:35:LYS:CD	2.59	0.51
41:BG:177:GLY:O	41:BG:179:PRO:HD3	2.10	0.51
45:BK:27:LEU:HD23	45:BK:27:LEU:N	2.25	0.51
45:BK:95:LYS:N	45:BK:95:LYS:HD2	2.26	0.51
46:BN:111:PRO:HG3	46:BN:114:ARG:HH22	1.76	0.51
47:BO:72:PRO:C	47:BO:74:GLY:H	2.18	0.51
48:BP:14:LYS:O	48:BP:15:ARG:CG	2.59	0.51
48:BP:17:LYS:C	48:BP:19:VAL:N	2.65	0.51
50:BR:77:ARG:O	50:BR:79:LEU:N	2.44	0.51
51:BS:57:LYS:O	51:BS:58:LEU:HB3	2.11	0.51
52:BT:33:LYS:HZ2	52:BT:74:ARG:NH2	2.09	0.51
57:BY:97:ARG:NE	57:BY:97:ARG:HA	2.26	0.51
58:BZ:5:LEU:HD13	58:BZ:47:VAL:HG21	1.93	0.51
58:BZ:79:ARG:HG3	58:BZ:79:ARG:HH11	1.75	0.51
1:CA:22:G:H2'	1:CA:23:C:H6	1.73	0.51
1:CA:659:U:H2'	1:CA:660:G:H8	1.75	0.51
1:CA:777:A:H2'	1:CA:778:G:C8	2.44	0.51
1:CA:909:A:H2'	1:CA:910:C:O4'	2.11	0.51
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.76	0.51
1:CA:1060:C:P	14:CN:45:ARG:HH22	2.33	0.51
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.45	0.51
1:CA:1368:G:O2'	1:CA:1369:C:H5'	2.11	0.51
4:CD:88:VAL:O	4:CD:92:VAL:HG23	2.10	0.51
4:CD:146:ILE:HD12	4:CD:146:ILE:N	2.26	0.51
5:CE:26:PHE:O	5:CE:27:ARG:HB2	2.10	0.51
5:CE:139:LEU:C	5:CE:141:GLN:H	2.18	0.51
8:CH:87:SER:HA	8:CH:93:VAL:HG23	1.91	0.51
8:CH:119:LEU:HD23	8:CH:119:LEU:N	2.25	0.51
9:CI:46:ALA:HB2	9:CI:74:ILE:HG23	1.90	0.51
10:CJ:4:ILE:HD12	10:CJ:74:ILE:HD11	1.93	0.51
15:CO:10:LYS:HE3	15:CO:14:GLU:OE2	2.10	0.51
20:CT:10:LEU:HD12	20:CT:11:SER:N	2.26	0.51
20:CT:45:GLN:HB2	20:CT:91:LEU:HD22	1.92	0.51
22:CW:16:U:C4	22:CW:18:G:H3'	2.44	0.51
26:D1:81:LYS:HE2	35:DA:271(H):G:H4'	1.92	0.51
29:D4:57:ILE:HG21	41:DG:142:PRO:HB3	1.91	0.51
31:D6:15:GLU:CG	31:D6:18:ARG:HG3	2.40	0.51
31:D6:20:ASN:ND2	31:D6:21:TYR:N	2.50	0.51
31:D6:23:THR:HG21	35:DA:2419:U:C4'	2.39	0.51
31:D6:30:THR:HG21	35:DA:2285:C:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:271(O):C:HO2'	35:DA:271(P):C:H6	1.56	0.51
35:DA:964:C:O2'	35:DA:2273:A:N3	2.44	0.51
35:DA:1021:A:H2'	35:DA:1023:U:H5'	1.93	0.51
35:DA:1291:C:O2'	35:DA:1292:U:H5'	2.11	0.51
35:DA:1586:A:H3'	35:DA:1587:A:O4'	2.09	0.51
35:DA:1708:C:H2'	35:DA:1709:U:C6	2.45	0.51
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.09	0.51
35:DA:2883:A:C5'	35:DA:2884:U:H5'	2.41	0.51
37:DC:68:LEU:HB2	37:DC:70:LYS:HE2	1.92	0.51
37:DC:78:ALA:CB	37:DC:82:LYS:HD2	2.41	0.51
38:DD:77:ALA:HB2	38:DD:97:TYR:HA	1.91	0.51
41:DG:101:ILE:HD13	41:DG:102:PHE:H	1.72	0.51
41:DG:154:GLY:O	41:DG:155:MET:CB	2.59	0.51
42:DH:76:VAL:C	42:DH:78:GLY:H	2.19	0.51
42:DH:103:LEU:HD12	42:DH:104:GLU:H	1.76	0.51
59:DI:79:ILE:CG2	59:DI:80:PRO:HD2	2.39	0.51
46:DN:18:ALA:HB1	46:DN:21:LYS:CG	2.40	0.51
47:DO:2:ILE:HD11	47:DO:82:ASN:HD22	1.75	0.51
50:DR:33:ARG:CG	50:DR:115:GLU:HG3	2.34	0.51
52:DT:106:SER:O	52:DT:107:ASP:CB	2.59	0.51
56:DX:44:GLU:C	56:DX:46:ALA:H	2.19	0.51
58:DZ:81:ARG:O	58:DZ:82:ARG:HB2	2.09	0.51
1:AA:745:C:O2'	1:AA:746:A:H5'	2.10	0.51
1:AA:975:A:C4'	1:AA:976:G:H5"	2.35	0.51
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.75	0.51
1:AA:1329:A:H5"	13:AM:29:ARG:HD2	1.90	0.51
2:AB:28:PHE:CD1	2:AB:28:PHE:O	2.64	0.51
3:AC:89:GLU:HG3	3:AC:93:LYS:HZ2	1.71	0.51
4:AD:79:PHE:CZ	4:AD:204:ILE:HD13	2.46	0.51
4:AD:150:GLU:CD	4:AD:150:GLU:N	2.69	0.51
4:AD:180:GLY:O	4:AD:181:MET:C	2.53	0.51
6:AF:11:ASN:ND2	6:AF:86:ARG:NH2	2.59	0.51
10:AJ:6:ILE:CB	10:AJ:98:ILE:HG13	2.40	0.51
11:AK:44:SER:O	11:AK:47:VAL:HB	2.11	0.51
13:AM:22:ILE:HB	13:AM:25:ILE:HB	1.92	0.51
24:AY:295:LEU:O	24:AY:298:LEU:HB2	2.10	0.51
33:B8:16:ILE:HD12	33:B8:57:ARG:HG2	1.93	0.51
33:B8:33:ASN:HD22	33:B8:34:TRP:H	1.48	0.51
35:BA:142(A):C:O2'	35:BA:143:G:H5'	2.11	0.51
35:BA:207:A:H2'	35:BA:208:C:O4'	2.11	0.51
35:BA:321:G:OP2	40:BF:136:THR:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:448:U:O4	35:BA:583:G:H1'	2.11	0.51
35:BA:718:A:C2'	35:BA:719:C:H5'	2.40	0.51
35:BA:796:C:H2'	35:BA:797:C:H6	1.74	0.51
35:BA:956:G:C4'	49:BQ:83:MET:HE1	2.41	0.51
35:BA:991:C:H2'	35:BA:992:C:H6	1.74	0.51
35:BA:1791:A:H3'	35:BA:1792:G:H8	1.76	0.51
35:BA:1912:A:O2'	35:BA:1913:A:H5'	2.10	0.51
35:BA:2260:C:H2'	35:BA:2261:C:H6	1.75	0.51
35:BA:2444:G:OP1	40:BF:67:GLN:NE2	2.43	0.51
35:BA:2883:A:C5'	35:BA:2884:U:H5'	2.41	0.51
37:BC:47:LEU:HD23	37:BC:47:LEU:H	1.75	0.51
38:BD:35:LYS:HG2	38:BD:104:TYR:CE1	2.46	0.51
40:BF:53:THR:N	40:BF:56:GLU:OE2	2.34	0.51
41:BG:148:MET:O	41:BG:148:MET:HG3	2.10	0.51
45:BK:93:ARG:NH1	45:BK:94:GLU:HB2	2.26	0.51
48:BP:17:LYS:HB3	48:BP:19:VAL:HG22	1.91	0.51
51:BS:20:ARG:HG2	51:BS:20:ARG:HH11	1.75	0.51
53:BU:17:ILE:O	53:BU:20:LEU:N	2.40	0.51
57:BY:9:LYS:HG3	57:BY:10:GLY:H	1.74	0.51
1:CA:505:G:C6	1:CA:535:A:C2	2.98	0.51
1:CA:828:A:N3	2:CB:26:PRO:HG3	2.26	0.51
1:CA:959:A:C2'	1:CA:960:U:H4'	2.41	0.51
1:CA:1129:C:H5"	1:CA:1139:G:O6	2.10	0.51
1:CA:1408:A:H2'	1:CA:1409:C:H6	1.75	0.51
2:CB:102:LEU:HB3	2:CB:180:LEU:CD1	2.39	0.51
2:CB:140:HIS:HA	2:CB:143:GLU:CG	2.40	0.51
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.35	0.51
4:CD:150:GLU:CD	4:CD:150:GLU:N	2.68	0.51
8:CH:25:ASP:HB3	8:CH:58:TYR:HB3	1.93	0.51
8:CH:82:HIS:CD2	8:CH:138:TRP:NE1	2.79	0.51
8:CH:120:THR:O	8:CH:121:ASP:C	2.53	0.51
9:CI:48:GLU:C	9:CI:50:LEU:N	2.67	0.51
18:CR:53:ARG:HH21	18:CR:60:ALA:N	2.09	0.51
20:CT:45:GLN:C	20:CT:47:GLY:H	2.19	0.51
24:CY:75:LEU:HD11	24:CY:84:ARG:HB2	1.92	0.51
25:D0:14:ARG:O	25:D0:15:ASP:HB2	2.10	0.51
26:D1:44:PRO:O	26:D1:46:LEU:N	2.43	0.51
26:D1:87:PRO:CG	26:D1:88:LYS:H	2.21	0.51
28:D3:31:LEU:HD12	35:DA:1157:G:HO2'	1.73	0.51
31:D6:35:GLU:HB3	31:D6:51:GLU:HG3	1.91	0.51
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1685:C:C2'	35:DA:1686:C:C5'	2.88	0.51
35:DA:2012:G:O3'	55:DW:96:ILE:HG13	2.10	0.51
35:DA:2192:G:H2'	35:DA:2193:G:H5"	1.91	0.51
35:DA:2439:A:H3'	35:DA:2439:A:P	2.50	0.51
37:DC:103:ILE:C	37:DC:105:ASP:N	2.69	0.51
39:DE:132:HIS:CG	39:DE:135:HIS:HE2	2.26	0.51
59:DI:7:GLU:CB	59:DI:8:PRO:HD2	2.32	0.51
45:DK:15:GLY:HA2	45:DK:42:ASN:OD1	2.11	0.51
45:DK:35:MET:C	45:DK:37:PHE:H	2.18	0.51
48:DP:65:ARG:HD2	48:DP:65:ARG:N	2.20	0.51
48:DP:130:PHE:N	48:DP:130:PHE:HD2	2.09	0.51
53:DU:61:TRP:O	53:DU:62:ILE:C	2.53	0.51
54:DV:79:VAL:O	54:DV:80:GLN:HB2	2.11	0.51
58:DZ:10:ARG:N	58:DZ:37:VAL:HA	2.25	0.51
1:AA:140:A:H2'	1:AA:141:A:H8	1.76	0.51
1:AA:601:C:H2'	1:AA:602:A:H8	1.74	0.51
1:AA:764:C:H2'	1:AA:765:G:O4'	2.11	0.51
1:AA:1240:U:OP2	7:AG:116:ALA:HB2	2.11	0.51
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.75	0.51
4:AD:2:GLY:O	4:AD:4:TYR:N	2.44	0.51
6:AF:53:ALA:C	6:AF:55:ASP:H	2.19	0.51
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.51	0.51
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.58	0.51
17:AQ:18:THR:HG23	17:AQ:69:LYS:HE3	1.93	0.51
18:AR:47:THR:HB	18:AR:49:LYS:HG2	1.92	0.51
19:AS:11:VAL:HG22	19:AS:16:LEU:HD11	1.92	0.51
24:AY:31:ARG:O	24:AY:32:ARG:HB2	2.11	0.51
24:AY:32:ARG:N	24:AY:32:ARG:NE	2.58	0.51
24:AY:267:SER:HB2	49:BQ:80:GLU:OE2	2.11	0.51
30:B5:3:LYS:HE3	30:B5:3:LYS:CA	2.22	0.51
35:BA:1291:C:O2'	35:BA:1292:U:H5'	2.11	0.51
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.58	0.51
35:BA:1437:C:H5'	35:BA:1437:C:C6	2.45	0.51
35:BA:1973:G:H2'	35:BA:1974:C:H6	1.75	0.51
35:BA:2314:C:O2'	35:BA:2315:G:H5'	2.11	0.51
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.10	0.51
35:BA:2776:A:OP1	35:BA:2776:A:H3'	2.10	0.51
35:BA:2822:G:H2'	35:BA:2823:A:H5"	1.93	0.51
38:BD:48:ARG:HG3	38:BD:48:ARG:NH1	2.26	0.51
39:BE:7:VAL:CG2	39:BE:27:LEU:HB3	2.40	0.51
39:BE:117:MET:O	39:BE:117:MET:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:75:LYS:O	41:BG:76:SER:HB3	2.11	0.51
41:BG:130:ASN:CG	41:BG:160:VAL:HA	2.36	0.51
42:BH:89:ILE:HG12	42:BH:129:THR:HA	1.93	0.51
43:BI:15:VAL:C	43:BI:17:GLN:H	2.17	0.51
48:BP:112:LEU:HD23	48:BP:112:LEU:C	2.35	0.51
51:BS:90:GLY:O	51:BS:92:TYR:CD1	2.63	0.51
53:BU:61:TRP:O	53:BU:62:ILE:C	2.53	0.51
57:BY:17:SER:HB3	57:BY:71:LYS:HB3	1.92	0.51
57:BY:97:ARG:HG3	57:BY:97:ARG:HH11	1.76	0.51
58:BZ:72:ARG:CG	58:BZ:89:PHE:HB2	2.40	0.51
1:CA:294:U:H2'	1:CA:295:C:C6	2.46	0.51
1:CA:509:A:H5'	4:CD:54:TYR:CD2	2.46	0.51
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.26	0.51
1:CA:1060:C:O2'	1:CA:1061:G:H5'	2.11	0.51
1:CA:1115:C:H2'	1:CA:1116:C:C6	2.46	0.51
1:CA:1452:C:H4'	1:CA:1456:G:C5	2.46	0.51
3:CC:123:GLN:HA	3:CC:126:ARG:HD2	1.92	0.51
4:CD:83:SER:C	4:CD:85:LYS:H	2.19	0.51
8:CH:29:SER:O	8:CH:32:LYS:HB2	2.11	0.51
8:CH:102:ARG:HE	8:CH:102:ARG:N	2.08	0.51
11:CK:114:VAL:O	11:CK:114:VAL:HG13	2.11	0.51
20:CT:104:LEU:HD23	20:CT:105:SER:N	2.26	0.51
24:CY:79:LEU:CB	24:CY:80:PRO:HD3	2.40	0.51
27:D2:57:ILE:O	27:D2:61:LEU:HD23	2.11	0.51
32:D7:48:LYS:HZ2	35:DA:125:G:H21	1.59	0.51
33:D8:15:LYS:HB2	48:DP:65:ARG:NH2	2.26	0.51
33:D8:32:LEU:C	33:D8:33:ASN:O	2.53	0.51
35:DA:272(J):C:H42	35:DA:363(A):A:N6	2.08	0.51
35:DA:740:U:H5'	35:DA:740:U:H6	1.75	0.51
35:DA:1163:G:O2'	35:DA:1164:G:H5'	2.11	0.51
35:DA:1396:U:O2	35:DA:1396:U:C2'	2.57	0.51
35:DA:1686:C:H2'	35:DA:1687:G:O4'	2.10	0.51
35:DA:2636:U:H4'	39:DE:80:GLU:OE2	2.10	0.51
36:DB:84:C:C2'	36:DB:85:G:H5"	2.31	0.51
37:DC:169:GLY:O	37:DC:170:ALA:HB3	2.11	0.51
38:DD:165:ILE:HG22	38:DD:167:GLY:H	1.76	0.51
41:DG:41:GLN:O	41:DG:42:GLY:C	2.52	0.51
41:DG:78:SER:C	41:DG:80:PHE:N	2.69	0.51
41:DG:98:ARG:O	41:DG:101:ILE:CD1	2.58	0.51
41:DG:103:LEU:O	41:DG:107:LEU:CD2	2.58	0.51
42:DH:85:LYS:HE2	42:DH:145:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DI:52:ARG:HB3	59:DI:56:LYS:NZ	2.26	0.51
59:DI:57:ARG:O	59:DI:61:ARG:HG3	2.10	0.51
45:DK:100:THR:HA	45:DK:139:VAL:HB	1.92	0.51
46:DN:1:MET:HG2	54:DV:20:LEU:HD22	1.93	0.51
48:DP:13:ASN:HD22	48:DP:13:ASN:H	1.59	0.51
48:DP:16:ARG:CD	48:DP:16:ARG:C	2.84	0.51
51:DS:89:ARG:C	51:DS:92:TYR:HB3	2.36	0.51
52:DT:62:THR:HA	52:DT:74:ARG:O	2.10	0.51
52:DT:91:ARG:HA	52:DT:117:ASP:HB3	1.93	0.51
56:DX:47:PHE:HB3	56:DX:89:ILE:HD12	1.93	0.51
57:DY:17:SER:HB3	57:DY:71:LYS:HB3	1.91	0.51
57:DY:47:LYS:N	57:DY:47:LYS:CD	2.68	0.51
58:DZ:166:SER:CB	58:DZ:169:GLU:HB2	2.40	0.51
1:AA:8:A:C6	4:AD:209:ARG:HA	2.46	0.51
1:AA:927:G:O2'	1:AA:928:G:H5'	2.11	0.51
1:AA:1221:G:O2'	1:AA:1222:G:H5'	2.10	0.51
1:AA:1239:A:H62	1:AA:1299:A:N6	2.09	0.51
3:AC:76:VAL:HG21	3:AC:103:VAL:CG1	2.41	0.51
3:AC:123:GLN:HA	3:AC:126:ARG:HD2	1.92	0.51
5:AE:26:PHE:O	5:AE:27:ARG:HB2	2.10	0.51
5:AE:63:ARG:O	5:AE:66:MET:HE2	2.11	0.51
5:AE:150:ARG:HG3	5:AE:150:ARG:HH11	1.76	0.51
8:AH:14:ARG:O	8:AH:18:ARG:HD3	2.11	0.51
9:AI:37:PHE:CE1	9:AI:74:ILE:HG12	2.46	0.51
20:AT:93:GLU:HG2	20:AT:93:GLU:O	2.10	0.51
27:B2:6:VAL:HG12	27:B2:7:ARG:N	2.26	0.51
29:B4:44:CYS:SG	29:B4:64:LYS:HB3	2.51	0.51
35:BA:18:C:H4'	53:BU:23:GLY:O	2.11	0.51
35:BA:84:A:H5"	57:BY:9:LYS:HE3	1.92	0.51
35:BA:314:A:O2'	35:BA:315:G:H5'	2.11	0.51
35:BA:347:A:H2'	35:BA:348:G:H8	1.75	0.51
35:BA:361:G:C3'	35:BA:362:U:H5"	2.40	0.51
35:BA:795:C:H2'	35:BA:796:C:C6	2.46	0.51
35:BA:1427:A:H4'	35:BA:1428:C:O5'	2.11	0.51
35:BA:1529:G:N3	35:BA:1529:G:H2'	2.26	0.51
35:BA:1824:G:OP1	38:BD:52:ARG:HD3	2.10	0.51
35:BA:1826:G:H2'	35:BA:1827:C:C6	2.46	0.51
35:BA:2870:C:O2'	35:BA:2871:C:H5'	2.11	0.51
35:BA:2887:U:O2'	35:BA:2888:C:H5'	2.11	0.51
41:BG:44:GLY:H	41:BG:88:ILE:CG2	2.23	0.51
41:BG:121:ASN:HB2	41:BG:131:TYR:HE1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:85:LYS:HE2	42:BH:145:ALA:HB2	1.93	0.51
42:BH:87:LEU:C	42:BH:88:LEU:HD22	2.35	0.51
46:BN:1:MET:HG2	54:BV:20:LEU:HD22	1.92	0.51
48:BP:13:ASN:H	48:BP:13:ASN:ND2	2.09	0.51
48:BP:23:PRO:HD2	48:BP:33:ARG:CZ	2.40	0.51
48:BP:138:LEU:O	48:BP:140:ALA:N	2.44	0.51
49:BQ:116:GLU:O	49:BQ:120:ILE:HG12	2.11	0.51
51:BS:42:ASP:C	51:BS:44:LYS:N	2.69	0.51
51:BS:89:ARG:C	51:BS:92:TYR:HB3	2.36	0.51
57:BY:7:VAL:CB	57:BY:8:LYS:NZ	2.74	0.51
1:CA:33:A:H2'	1:CA:34:C:H6	1.76	0.51
1:CA:143:A:H2	1:CA:220:G:H1	1.59	0.51
1:CA:706:A:C5	1:CA:707:C:C5	2.98	0.51
1:CA:802:A:H2'	1:CA:803:G:O4'	2.11	0.51
1:CA:1142:G:H2'	1:CA:1143:G:H5'	1.92	0.51
1:CA:1189:C:P	10:CJ:51:ARG:HH22	2.34	0.51
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.76	0.51
3:CC:83:ARG:HA	3:CC:86:VAL:HG22	1.93	0.51
4:CD:14:ARG:HG3	4:CD:15:GLU:N	2.24	0.51
5:CE:48:ALA:C	5:CE:50:GLU:H	2.19	0.51
11:CK:18:ARG:O	11:CK:32:ILE:HG22	2.11	0.51
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.93	0.51
11:CK:58:PRO:HD3	11:CK:89:ALA:HB1	1.92	0.51
11:CK:120:ARG:NH2	11:CK:126:ARG:HE	2.09	0.51
12:CL:81:SER:O	12:CL:106:ASP:HB2	2.11	0.51
18:CR:86:VAL:HG12	18:CR:87:ARG:HD2	1.91	0.51
19:CS:33:THR:OG1	19:CS:34:TRP:N	2.44	0.51
22:CW:39:U:H2'	22:CW:40:C:C5'	2.36	0.51
22:CW:60:U:H2'	22:CW:61:C:C5	2.46	0.51
25:D0:48:GLY:HA3	25:D0:80:HIS:HB3	1.92	0.51
28:D3:4:LEU:HA	28:D3:57:GLU:O	2.10	0.51
31:D6:15:GLU:HG2	31:D6:15:GLU:O	2.10	0.51
31:D6:15:GLU:HG2	31:D6:18:ARG:HE	1.76	0.51
31:D6:51:GLU:O	31:D6:52:VAL:HB	2.11	0.51
33:D8:32:LEU:HD13	33:D8:32:LEU:N	2.18	0.51
33:D8:48:PHE:HZ	35:DA:650:C:C5'	2.23	0.51
35:DA:137:C:O2	35:DA:137:C:H2'	2.11	0.51
35:DA:528:A:C2	35:DA:2042:A:H2'	2.46	0.51
35:DA:674:G:O2'	40:DF:74:ARG:HD3	2.10	0.51
35:DA:1316:U:H2'	35:DA:1317:A:C8	2.45	0.51
35:DA:1505:C:H3'	35:DA:1506:C:C6	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1579:A:H5'	35:DA:1579:A:H8	1.75	0.51
35:DA:2092:U:O4'	35:DA:2092:U:O2	2.28	0.51
35:DA:2195:C:O2'	35:DA:2196:C:H5'	2.10	0.51
37:DC:94:VAL:HG23	37:DC:94:VAL:O	2.10	0.51
38:DD:27:THR:CG2	38:DD:83:GLU:HG2	2.40	0.51
38:DD:82:ILE:O	38:DD:82:ILE:HG23	2.11	0.51
39:DE:93:VAL:HG21	39:DE:180:ASN:CA	2.37	0.51
42:DH:60:ARG:O	42:DH:64:LEU:HG	2.11	0.51
42:DH:77:LYS:HA	42:DH:80:SER:HB2	1.92	0.51
42:DH:86:GLU:HA	42:DH:132:ARG:HA	1.93	0.51
45:DK:12:LEU:O	45:DK:52:ILE:HD12	2.10	0.51
47:DO:118:ALA:C	47:DO:120:GLU:H	2.19	0.51
51:DS:20:ARG:HH11	51:DS:20:ARG:HG2	1.76	0.51
52:DT:55:ASN:N	52:DT:59:THR:HB	2.26	0.51
54:DV:39:LEU:HA	54:DV:47:VAL:HG22	1.93	0.51
54:DV:81:TYR:C	54:DV:82:ARG:HG3	2.35	0.51
54:DV:99:ILE:HG12	54:DV:99:ILE:O	2.10	0.51
56:DX:26:TYR:CE2	56:DX:89:ILE:HB	2.46	0.51
58:DZ:9:TYR:HE2	58:DZ:35:ARG:HH11	1.58	0.51
58:DZ:131:ARG:HH11	58:DZ:131:ARG:HG2	1.75	0.51
1:AA:358:U:H5'	1:AA:358:U:H6	1.76	0.51
1:AA:509:A:H5'	4:AD:54:TYR:HD2	1.76	0.51
1:AA:828:A:N3	2:AB:26:PRO:HG3	2.25	0.51
1:AA:909:A:H2'	1:AA:910:C:O4'	2.11	0.51
1:AA:1441:G:H4'	1:AA:1442:G:C4	2.45	0.51
4:AD:19:LEU:O	4:AD:26:CYS:SG	2.69	0.51
10:AJ:61:GLU:HG3	14:AN:58:LYS:CE	2.39	0.51
11:AK:63:LEU:O	11:AK:63:LEU:HD23	2.11	0.51
13:AM:9:ILE:HG21	13:AM:11:ARG:NE	2.26	0.51
13:AM:23:TYR:HB3	13:AM:67:GLU:HA	1.93	0.51
22:AV:1:G:H2'	22:AV:2:C:H6	1.76	0.51
24:AY:83:GLU:C	24:AY:84:ARG:HD3	2.36	0.51
27:B2:3:LEU:O	27:B2:6:VAL:HB	2.11	0.51
35:BA:13:A:H61	35:BA:525:U:H3'	1.76	0.51
35:BA:256:A:H2'	35:BA:257:A:C8	2.46	0.51
35:BA:587:C:C4	48:BP:33:ARG:HG2	2.46	0.51
35:BA:646:A:H2'	35:BA:647:G:O4'	2.11	0.51
35:BA:807:U:OP2	48:BP:39:LYS:HG2	2.11	0.51
35:BA:1097:U:H2'	35:BA:1098:A:C5'	2.39	0.51
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.76	0.51
36:BB:17:C:C2'	36:BB:18:G:H5'	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:91:C:O2'	36:BB:92:C:H5'	2.11	0.51
39:BE:48:GLN:HE21	39:BE:78:LEU:HD12	1.73	0.51
40:BF:64:ILE:HG12	40:BF:65:TRP:NE1	2.26	0.51
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.67	0.51
41:BG:110:ALA:HA	41:BG:140:ILE:CG2	2.41	0.51
46:BN:58:ASP:C	46:BN:60:ILE:N	2.63	0.51
47:BO:3:GLN:HG3	47:BO:4:PRO:CD	2.41	0.51
1:CA:980:C:H2'	1:CA:981:U:H5'	1.93	0.51
1:CA:1352:C:H2'	1:CA:1353:G:H8	1.75	0.51
1:CA:1353:G:H1	1:CA:1369:C:H42	1.57	0.51
3:CC:79:ARG:HG2	3:CC:82:GLU:OE1	2.11	0.51
3:CC:186:PHE:HA	3:CC:198:VAL:O	2.11	0.51
10:CJ:98:ILE:HD12	10:CJ:98:ILE:N	2.26	0.51
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.10	0.51
15:CO:38:ARG:HH11	15:CO:38:ARG:HG2	1.76	0.51
24:CY:332:ASP:O	24:CY:333:PRO:C	2.53	0.51
26:D1:11:ARG:HB2	26:D1:12:PRO:HD2	1.92	0.51
27:D2:48:HIS:CD2	35:DA:96:G:H4'	2.46	0.51
33:D8:4:MET:HB2	33:D8:61:LEU:HD11	1.93	0.51
33:D8:23:VAL:HA	33:D8:47:LYS:O	2.11	0.51
33:D8:31:HIS:CG	33:D8:32:LEU:H	2.27	0.51
35:DA:229:A:H3'	35:DA:230:U:C5'	2.41	0.51
35:DA:271(J):C:C3'	35:DA:271(K):U:H5"	2.41	0.51
35:DA:361:G:C3'	35:DA:362:U:H5"	2.40	0.51
35:DA:389:G:H22	48:DP:72:PRO:CG	2.24	0.51
35:DA:942:G:H5'	48:DP:35:HIS:HB2	1.93	0.51
35:DA:1841:U:O2'	38:DD:244:ARG:NH2	2.44	0.51
35:DA:1902:C:C1'	38:DD:244:ARG:HD3	2.41	0.51
35:DA:2000:G:O2'	35:DA:2001:A:H5'	2.11	0.51
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.46	0.51
35:DA:2409:G:H2'	35:DA:2410:G:O4'	2.11	0.51
37:DC:84:LYS:N	37:DC:84:LYS:HD2	2.24	0.51
39:DE:34:VAL:O	39:DE:35:GLN:CB	2.59	0.51
40:DF:9:ILE:HG12	40:DF:14:PRO:CA	2.41	0.51
42:DH:25:LYS:HA	42:DH:34:GLU:HA	1.93	0.51
42:DH:116:GLU:HG3	42:DH:117:PRO:HD2	1.92	0.51
59:DI:8:PRO:O	59:DI:9:LEU:CB	2.58	0.51
48:DP:14:LYS:O	48:DP:15:ARG:CG	2.59	0.51
48:DP:97:PRO:O	48:DP:101:VAL:HG12	2.11	0.51
48:DP:130:PHE:N	48:DP:130:PHE:CD2	2.78	0.51
50:DR:96:ARG:HH22	50:DR:118:GLU:H	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:17:ARG:HA	51:DS:20:ARG:NH1	2.25	0.51
51:DS:85:VAL:O	51:DS:106:ARG:HA	2.11	0.51
52:DT:3:ARG:C	52:DT:5:ALA:N	2.68	0.51
53:DU:9:VAL:O	53:DU:12:ARG:HB2	2.11	0.51
54:DV:39:LEU:HD12	54:DV:47:VAL:HG21	1.93	0.51
1:AA:267:C:OP2	17:AQ:67:LYS:HD2	2.11	0.50
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.76	0.50
1:AA:1288:A:H1'	1:AA:1352:C:O2'	2.11	0.50
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.09	0.50
3:AC:5:ILE:HD12	3:AC:5:ILE:C	2.36	0.50
4:AD:205:GLU:O	4:AD:206:PHE:C	2.53	0.50
5:AE:47:LYS:HD2	5:AE:47:LYS:N	2.26	0.50
5:AE:76:ILE:HG23	5:AE:93:PRO:HB3	1.92	0.50
7:AG:20:ASP:O	7:AG:24:THR:HG23	2.11	0.50
8:AH:29:SER:O	8:AH:32:LYS:HB2	2.11	0.50
8:AH:112:LEU:HD13	8:AH:133:LEU:HA	1.93	0.50
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HD23	1.92	0.50
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.26	0.50
18:AR:21:LYS:NZ	18:AR:53:ARG:O	2.44	0.50
19:AS:58:VAL:HG21	19:AS:75:ALA:HB2	1.94	0.50
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.25	0.50
24:AY:171:VAL:HG21	24:AY:180:LEU:HD12	1.92	0.50
24:AY:174:GLU:CD	24:AY:174:GLU:H	2.19	0.50
31:B6:15:GLU:O	31:B6:16:CYS:C	2.54	0.50
33:B8:23:VAL:HA	33:B8:47:LYS:O	2.11	0.50
35:BA:324:A:C2'	35:BA:325:G:H5'	2.40	0.50
35:BA:494:G:H21	55:BW:57:ASN:ND2	2.07	0.50
35:BA:1360:A:H5'	35:BA:1361:G:OP2	2.11	0.50
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.46	0.50
35:BA:2793:G:H22	35:BA:2803:C:H1'	1.75	0.50
37:BC:95:GLY:HA3	37:BC:99:ILE:HD11	1.94	0.50
38:BD:8:PRO:HB3	38:BD:14:ARG:HB2	1.92	0.50
38:BD:67:PHE:CE1	38:BD:157:ARG:NH1	2.78	0.50
38:BD:77:ALA:HB2	38:BD:97:TYR:HA	1.92	0.50
41:BG:117:PHE:CE1	41:BG:119:GLY:N	2.78	0.50
41:BG:137:GLU:HG2	41:BG:152:LEU:CD2	2.41	0.50
42:BH:31:GLY:H	42:BH:79:VAL:HG12	1.77	0.50
45:BK:12:LEU:HD12	45:BK:55:VAL:HG11	1.93	0.50
45:BK:27:LEU:HD23	45:BK:27:LEU:H	1.76	0.50
54:BV:76:LYS:HB2	54:BV:81:TYR:HB3	1.92	0.50
57:BY:8:LYS:HG2	57:BY:13:VAL:HG11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:973:G:H1'	10:CJ:55:LYS:HE2	1.93	0.50
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.46	0.50
2:CB:204:ASN:ND2	2:CB:207:ALA:H	2.09	0.50
3:CC:139:GLN:O	3:CC:143:GLU:HB2	2.10	0.50
4:CD:110:PHE:CE2	4:CD:148:VAL:HG23	2.46	0.50
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.50	0.50
8:CH:14:ARG:O	8:CH:18:ARG:HD3	2.11	0.50
12:CL:53:ARG:CB	12:CL:93:LEU:HD11	2.41	0.50
16:CP:72:ARG:HH21	16:CP:73:LEU:HD21	1.76	0.50
20:CT:53:LEU:O	20:CT:56:MET:N	2.45	0.50
24:CY:54:ARG:HA	24:CY:57:ARG:NE	2.26	0.50
24:CY:78:GLU:O	24:CY:78:GLU:CD	2.54	0.50
24:CY:263:GLN:O	24:CY:264:THR:O	2.29	0.50
27:D2:46:GLN:O	27:D2:47:ASN:C	2.53	0.50
27:D2:69:ARG:NH2	35:DA:111:A:H5"	2.26	0.50
35:DA:55:G:H2'	35:DA:56:A:H8	1.76	0.50
35:DA:373:U:H2'	35:DA:374:A:H8	1.76	0.50
35:DA:925:C:C3'	35:DA:926:A:H5"	2.39	0.50
35:DA:941:A:O3'	48:DP:35:HIS:HB2	2.12	0.50
35:DA:1109:C:H2'	35:DA:1109:C:O2	2.08	0.50
35:DA:1132:A:H2'	35:DA:1133:U:C6	2.46	0.50
35:DA:1329:U:H5"	35:DA:1330:C:H5	1.75	0.50
35:DA:1437:C:H5'	35:DA:1437:C:C6	2.45	0.50
35:DA:1952:A:C2	47:DO:22:ILE:HG23	2.46	0.50
35:DA:2729:G:H2'	35:DA:2730:C:C6	2.46	0.50
36:DB:71:C:C2	36:DB:72:G:C8	2.98	0.50
38:DD:48:ARG:HG3	38:DD:48:ARG:NH1	2.26	0.50
39:DE:70:ALA:O	39:DE:71:GLY:C	2.53	0.50
39:DE:151:TYR:HD2	39:DE:154:LYS:NZ	2.09	0.50
59:DI:66:GLU:HA	59:DI:69:LYS:HG3	1.93	0.50
45:DK:53:VAL:O	45:DK:53:VAL:HG23	2.11	0.50
48:DP:134:ALA:C	48:DP:136:GLU:H	2.18	0.50
50:DR:78:LYS:O	50:DR:82:GLU:HB3	2.11	0.50
51:DS:97:ARG:HH21	51:DS:98:VAL:CA	2.20	0.50
53:DU:92:ARG:CB	54:DV:11:GLN:NE2	2.74	0.50
56:DX:88:LYS:CE	56:DX:93:GLU:HG3	2.41	0.50
58:DZ:158:PRO:HG2	58:DZ:161:VAL:CG2	2.40	0.50
1:AA:392:G:H2'	1:AA:393:A:H8	1.76	0.50
1:AA:779:C:O2'	1:AA:780:A:H5'	2.11	0.50
1:AA:1019:C:H2'	1:AA:1020:U:H6	1.76	0.50
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1145:C:H4'	1:AA:1146:A:H5'	1.92	0.50
2:AB:75:LYS:HD3	2:AB:75:LYS:C	2.36	0.50
3:AC:139:GLN:O	3:AC:143:GLU:HB2	2.10	0.50
4:AD:122:ARG:HA	4:AD:134:ASP:HB2	1.94	0.50
6:AF:30:LEU:N	6:AF:30:LEU:HD23	2.26	0.50
9:AI:50:LEU:O	9:AI:53:VAL:HG22	2.12	0.50
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.12	0.50
12:AL:75:HIS:HA	12:AL:102:ARG:HH22	1.76	0.50
13:AM:65:LYS:HB2	13:AM:65:LYS:NZ	2.26	0.50
16:AP:51:VAL:CG1	16:AP:52:ASP:H	2.21	0.50
24:AY:46:ARG:O	24:AY:49:SER:HB3	2.10	0.50
24:AY:118:LEU:CG	24:AY:210:VAL:HG22	2.39	0.50
24:AY:186:VAL:HB	24:AY:310:GLN:HA	1.93	0.50
26:B1:84:GLY:O	26:B1:85:LEU:C	2.55	0.50
31:B6:10:LEU:N	31:B6:10:LEU:HD22	2.26	0.50
33:B8:61:LEU:H	33:B8:61:LEU:CD2	2.16	0.50
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.46	0.50
36:BB:37:C:H2'	36:BB:38:C:H5'	1.93	0.50
36:BB:87:G:N2	36:BB:89:G:H3'	2.25	0.50
37:BC:51:PRO:O	37:BC:52:ARG:HB2	2.11	0.50
38:BD:183:ARG:HB3	38:BD:270:ILE:HG22	1.93	0.50
38:BD:201:HIS:C	38:BD:203:ASN:H	2.18	0.50
38:BD:201:HIS:O	38:BD:203:ASN:N	2.44	0.50
40:BF:110:LEU:O	40:BF:111:ALA:C	2.54	0.50
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.21	0.50
41:BG:127:GLY:N	41:BG:166:ASP:OD1	2.41	0.50
42:BH:18:GLU:O	42:BH:24:VAL:HA	2.11	0.50
42:BH:25:LYS:HA	42:BH:33:LEU:O	2.10	0.50
48:BP:62:LEU:N	48:BP:62:LEU:HD22	2.27	0.50
49:BQ:60:ARG:HH11	49:BQ:60:ARG:CB	2.24	0.50
50:BR:41:ALA:O	50:BR:43:GLU:N	2.44	0.50
51:BS:74:ALA:CB	51:BS:103:GLU:HG3	2.38	0.50
52:BT:6:LEU:HD23	52:BT:6:LEU:C	2.36	0.50
53:BU:92:ARG:HB2	54:BV:11:GLN:CD	2.35	0.50
57:BY:68:HIS:C	57:BY:70:SER:H	2.19	0.50
1:CA:543:C:O2'	1:CA:544:G:H5'	2.11	0.50
1:CA:663:A:H5"	18:CR:61:LYS:NZ	2.26	0.50
1:CA:1065:U:H5"	1:CA:1190:G:H21	1.75	0.50
5:CE:11:ILE:HD12	5:CE:31:LEU:HD12	1.93	0.50
5:CE:150:ARG:HH11	5:CE:150:ARG:HG3	1.76	0.50
9:CI:18:PHE:CD1	9:CI:62:TYR:HD2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:79:LEU:HD13	9:CI:79:LEU:O	2.11	0.50
13:CM:16:ASP:HB3	13:CM:41:PRO:HB3	1.92	0.50
16:CP:51:VAL:CG1	16:CP:52:ASP:H	2.21	0.50
21:CU:2:GLY:C	21:CU:4:GLY:H	2.19	0.50
22:CW:71:G:O2'	22:CW:72:C:H5'	2.11	0.50
24:CY:330:ARG:HB3	24:CY:332:ASP:OD1	2.11	0.50
31:D6:15:GLU:O	31:D6:16:CYS:C	2.55	0.50
34:D9:19:ARG:O	34:D9:20:HIS:HB2	2.11	0.50
35:DA:632:A:H2'	35:DA:633:A:C8	2.47	0.50
35:DA:1097:U:H2'	35:DA:1098:A:C5'	2.40	0.50
35:DA:1685:C:C2'	35:DA:1686:C:H5"	2.42	0.50
35:DA:2305:A:H2'	35:DA:2306:C:O4'	2.11	0.50
35:DA:2605:U:H2'	35:DA:2606:C:C6	2.47	0.50
38:DD:34:VAL:O	38:DD:35:LYS:CD	2.59	0.50
45:DK:132:ARG:HH11	45:DK:132:ARG:HG3	1.76	0.50
47:DO:3:GLN:HG3	47:DO:4:PRO:CD	2.41	0.50
48:DP:88:LEU:CD1	48:DP:95:VAL:HG11	2.41	0.50
50:DR:63:ARG:HA	50:DR:80:PHE:CE2	2.47	0.50
52:DT:89:VAL:HG21	52:DT:91:ARG:HH21	1.76	0.50
57:DY:19:LYS:HB2	57:DY:19:LYS:NZ	2.26	0.50
1:AA:118:U:O4	1:AA:288:A:H2'	2.10	0.50
1:AA:413:G:O6	4:AD:35:ARG:HD3	2.11	0.50
1:AA:439:A:H2'	1:AA:441:A:O4'	2.12	0.50
1:AA:707:C:O2'	1:AA:708:C:H5'	2.11	0.50
1:AA:1083:U:H5	1:AA:1084:G:C6	2.28	0.50
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.12	0.50
3:AC:81:GLY:O	3:AC:85:ARG:HB2	2.12	0.50
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.42	0.50
5:AE:15:ARG:HD2	5:AE:26:PHE:CD2	2.46	0.50
6:AF:42:GLU:C	6:AF:44:GLY:N	2.68	0.50
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.12	0.50
22:AW:63:G:C5'	37:BC:52:ARG:HA	2.39	0.50
25:B0:20:ARG:HH11	35:BA:2271:G:C5'	2.24	0.50
27:B2:46:GLN:OE1	27:B2:46:GLN:HA	2.11	0.50
31:B6:30:THR:HG21	35:BA:2285:C:H5'	1.92	0.50
35:BA:66:C:O2'	35:BA:67:U:H5'	2.12	0.50
35:BA:92:A:O2'	35:BA:93:G:H5'	2.11	0.50
35:BA:389:G:H22	48:BP:72:PRO:CG	2.24	0.50
35:BA:445:C:O2'	35:BA:446:G:H5'	2.10	0.50
35:BA:902:C:O2'	35:BA:903:C:H5'	2.11	0.50
35:BA:1429:G:H2'	35:BA:1430:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.11	0.50
37:BC:67:GLY:HA2	37:BC:162:GLU:O	2.12	0.50
38:BD:165:ILE:HG22	38:BD:167:GLY:H	1.77	0.50
38:BD:254:THR:O	38:BD:254:THR:OG1	2.29	0.50
39:BE:11:MET:HB2	39:BE:23:VAL:O	2.10	0.50
39:BE:147:PRO:HB2	39:BE:149:ARG:HG2	1.92	0.50
39:BE:174:ASP:OD2	39:BE:175:VAL:N	2.44	0.50
41:BG:82:LEU:HD22	41:BG:87:PRO:HG3	1.93	0.50
43:BI:31:LEU:HD22	43:BI:38:LEU:HD23	1.92	0.50
48:BP:16:ARG:CD	48:BP:16:ARG:C	2.84	0.50
50:BR:4:LEU:O	50:BR:6:SER:N	2.44	0.50
52:BT:16:ARG:HG3	52:BT:16:ARG:NH1	2.26	0.50
52:BT:74:ARG:HB3	52:BT:76:PHE:CE1	2.47	0.50
54:BV:21:ARG:O	54:BV:22:VAL:HG23	2.11	0.50
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.93	0.50
1:CA:865:A:H2'	1:CA:866:C:H6	1.77	0.50
1:CA:892:A:O2'	1:CA:1415:G:H4'	2.11	0.50
1:CA:1145:C:H4'	1:CA:1146:A:H5'	1.93	0.50
1:CA:1457:G:O2'	1:CA:1458:G:H5'	2.11	0.50
2:CB:75:LYS:HD3	2:CB:75:LYS:C	2.36	0.50
2:CB:144:ARG:HA	2:CB:147:LYS:HB3	1.92	0.50
9:CI:37:PHE:CE1	9:CI:74:ILE:HG12	2.47	0.50
10:CJ:81:THR:C	10:CJ:83:GLU:N	2.61	0.50
11:CK:44:SER:O	11:CK:47:VAL:HB	2.11	0.50
11:CK:120:ARG:HH11	11:CK:120:ARG:HG3	1.76	0.50
14:CN:3:ARG:HB3	14:CN:3:ARG:HH11	1.73	0.50
16:CP:47:ASP:O	16:CP:49:LEU:N	2.44	0.50
17:CQ:61:GLU:HA	17:CQ:71:PHE:CE1	2.47	0.50
19:CS:36:ARG:HH21	19:CS:72:GLY:CA	2.24	0.50
25:D0:27:GLU:HB3	35:DA:856:C:C1'	2.40	0.50
25:D0:54:GLY:O	25:D0:56:ASP:N	2.44	0.50
26:D1:19:GLN:CB	26:D1:35:THR:HG22	2.41	0.50
35:DA:78:A:H2'	35:DA:79:G:C8	2.46	0.50
35:DA:1142:U:O5'	35:DA:1142:U:H6	1.95	0.50
35:DA:1826:G:C4'	38:DD:242:ARG:HE	2.20	0.50
35:DA:2554:U:H2'	35:DA:2555:U:C6	2.47	0.50
35:DA:2630:G:H21	35:DA:2892:A:H1'	1.76	0.50
40:DF:18:ARG:C	40:DF:19:GLU:CD	2.80	0.50
41:DG:114:ILE:O	41:DG:115:ARG:C	2.54	0.50
41:DG:124:SER:O	41:DG:131:TYR:CD1	2.64	0.50
42:DH:137:ASP:HB3	42:DH:140:LYS:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DI:94:ALA:HB1	59:DI:111:PRO:CB	2.34	0.50
50:DR:32:GLY:C	50:DR:33:ARG:HD2	2.36	0.50
52:DT:26:ASP:C	52:DT:26:ASP:OD2	2.54	0.50
54:DV:15:GLU:CB	54:DV:16:PRO:HD2	2.27	0.50
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.76	0.50
1:AA:1084:G:H5'	1:AA:1102:A:OP2	2.12	0.50
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.46	0.50
1:AA:1292:U:H5'	9:AI:38:GLN:HE21	1.77	0.50
1:AA:1353:G:H1	1:AA:1369:C:H42	1.59	0.50
1:AA:1452:C:H4'	1:AA:1456:G:C5	2.47	0.50
1:AA:1495:U:OP1	24:AY:160:PRO:HG2	2.12	0.50
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.94	0.50
10:AJ:42:THR:HG23	10:AJ:67:THR:O	2.10	0.50
10:AJ:48:THR:HG22	10:AJ:49:VAL:H	1.76	0.50
11:AK:120:ARG:CZ	11:AK:126:ARG:HE	2.24	0.50
16:AP:65:GLN:O	16:AP:65:GLN:HG2	2.12	0.50
18:AR:25:THR:O	18:AR:26:LEU:HD23	2.11	0.50
19:AS:13:ASP:C	19:AS:15:LEU:H	2.19	0.50
19:AS:43:GLU:OE1	19:AS:44:MET:HE3	2.11	0.50
22:AW:1:G:C6	22:AW:73:A:N1	2.79	0.50
34:B9:14:CYS:HA	34:B9:26:ILE:O	2.12	0.50
35:BA:152:G:H2'	35:BA:153:C:C6	2.47	0.50
35:BA:229:A:H3'	35:BA:230:U:H5'	1.93	0.50
35:BA:1046:A:H2	44:BJ:8:UNK:CA	2.24	0.50
35:BA:1368:G:O2'	35:BA:1369:G:H5'	2.12	0.50
35:BA:1885:A:H3'	35:BA:1886:C:H6	1.77	0.50
35:BA:2848:G:C8	52:BT:97:ALA:HB2	2.46	0.50
36:BB:45:A:H2'	36:BB:45:A:N3	2.26	0.50
37:BC:49:ILE:C	37:BC:51:PRO:HD3	2.36	0.50
39:BE:128:SER:O	39:BE:129:HIS:HB2	2.10	0.50
41:BG:11:TYR:O	41:BG:12:TYR:O	2.29	0.50
46:BN:70:LYS:HB3	46:BN:87:LEU:HB2	1.93	0.50
48:BP:33:ARG:O	48:BP:34:GLY:O	2.29	0.50
49:BQ:51:ARG:HG2	49:BQ:51:ARG:NH1	2.25	0.50
55:BW:55:ALA:O	55:BW:58:ALA:HB3	2.11	0.50
57:BY:7:VAL:CG2	57:BY:8:LYS:HZ3	2.24	0.50
1:CA:358:U:H5'	1:CA:358:U:H6	1.76	0.50
1:CA:422:C:H4'	1:CA:423:G:C4	2.45	0.50
1:CA:674:G:N2	11:CK:116:HIS:HB2	2.26	0.50
1:CA:889:A:H5'	1:CA:891:U:H1'	1.94	0.50
1:CA:993:G:H22	1:CA:1046:A:H1'	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:139:LYS:O	2:CB:143:GLU:HG2	2.11	0.50
4:CD:4:TYR:CG	4:CD:5:ILE:N	2.78	0.50
5:CE:84:PHE:HB3	5:CE:134:ALA:HB2	1.94	0.50
8:CH:82:HIS:CD2	8:CH:138:TRP:HE1	2.29	0.50
8:CH:112:LEU:HD13	8:CH:133:LEU:HA	1.94	0.50
10:CJ:75:ILE:CG1	10:CJ:76:ASN:H	2.20	0.50
20:CT:26:ASN:ND2	20:CT:27:LYS:N	2.57	0.50
20:CT:89:ARG:NH2	20:CT:104:LEU:HD11	2.22	0.50
22:CW:24:G:H2'	22:CW:25:C:O4'	2.12	0.50
24:CY:15:GLY:C	24:CY:17:LEU:N	2.69	0.50
24:CY:31:ARG:HD2	24:CY:31:ARG:N	2.22	0.50
24:CY:139:MET:HG3	24:CY:337:LEU:HA	1.94	0.50
24:CY:341:LEU:HA	24:CY:344:LEU:HD21	1.93	0.50
28:D3:11:SER:HB3	35:DA:988:A:P	2.51	0.50
35:DA:752:A:O2'	35:DA:753:C:OP2	2.26	0.50
35:DA:1115:G:H2'	35:DA:1116:C:O4'	2.11	0.50
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.12	0.50
35:DA:1464:C:O2'	35:DA:1528:A:H8	1.94	0.50
35:DA:1640:C:H2'	35:DA:1641:A:O4'	2.11	0.50
35:DA:1652:A:O2'	35:DA:1653:G:H5'	2.11	0.50
35:DA:1824:G:OP1	38:DD:52:ARG:HD3	2.11	0.50
35:DA:2267:A:H5"	35:DA:2268:A:C5'	2.42	0.50
35:DA:2646:C:OP2	35:DA:2732:G:O2'	2.23	0.50
35:DA:2822:G:H2'	35:DA:2823:A:H5"	1.94	0.50
38:DD:125:ILE:HG22	38:DD:125:ILE:O	2.10	0.50
39:DE:78:LEU:CD2	39:DE:78:LEU:N	2.63	0.50
45:DK:9:LYS:O	45:DK:10:LEU:HB3	2.10	0.50
45:DK:73:PRO:C	45:DK:75:SER:N	2.70	0.50
46:DN:47:ALA:HB2	46:DN:112:LEU:CD1	2.41	0.50
48:DP:131:SER:O	48:DP:134:ALA:N	2.45	0.50
52:DT:1:MET:HG3	52:DT:2:ASN:N	2.27	0.50
53:DU:60:LEU:HD13	53:DU:60:LEU:C	2.36	0.50
54:DV:18:LEU:HD13	54:DV:19:LYS:H	1.76	0.50
57:DY:86:ARG:HG2	57:DY:87:LYS:N	2.26	0.50
1:AA:143:A:H2	1:AA:220:G:H1	1.60	0.50
1:AA:165:C:O2'	1:AA:166:G:H5'	2.12	0.50
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.94	0.50
1:AA:1030(C):G:O2'	1:AA:1030(D):A:H5'	2.11	0.50
1:AA:1510:U:H1'	1:AA:1526:G:N2	2.26	0.50
2:AB:8:LYS:HA	2:AB:217:ARG:HH22	1.76	0.50
2:AB:214:ILE:O	2:AB:218:ALA:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:231:GLU:HB2	2:AB:232:PRO:HD2	1.94	0.50
4:AD:8:VAL:O	4:AD:10:ARG:N	2.44	0.50
4:AD:14:ARG:HG3	4:AD:15:GLU:N	2.26	0.50
5:AE:75:THR:HA	5:AE:115:VAL:HG13	1.94	0.50
5:AE:146:ALA:C	5:AE:148:VAL:H	2.20	0.50
17:AQ:15:MET:HE1	17:AQ:43:LEU:HD22	1.92	0.50
22:AV:37:A:C2	23:AX:19:U:C4	2.99	0.50
22:AW:37:A:H2'	22:AW:38:A:C8	2.47	0.50
22:AW:52:G:H1'	22:AW:63:G:N2	2.27	0.50
25:B0:19:LYS:O	25:B0:20:ARG:C	2.54	0.50
31:B6:26:ASN:ND2	31:B6:32:ASN:OD1	2.45	0.50
32:B7:9:ARG:HH12	35:BA:1309:G:H3'	1.76	0.50
35:BA:1027:A:C2	35:BA:2488:A:H5'	2.46	0.50
35:BA:1329:U:H5"	35:BA:1330:C:C5	2.46	0.50
35:BA:1339:G:N2	35:BA:1603:A:H1'	2.26	0.50
35:BA:1357:U:H2'	35:BA:1358:G:O4'	2.12	0.50
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.63	0.50
37:BC:74:VAL:HG22	37:BC:119:VAL:CB	2.41	0.50
37:BC:169:GLY:O	37:BC:170:ALA:HB3	2.11	0.50
38:BD:164:GLN:HG2	38:BD:165:ILE:H	1.77	0.50
39:BE:81:ILE:O	39:BE:81:ILE:HG22	2.10	0.50
41:BG:169:ALA:O	41:BG:173:LEU:HG	2.11	0.50
42:BH:19:VAL:HG21	42:BH:44:VAL:CG1	2.41	0.50
43:BI:4:ILE:O	43:BI:5:LEU:CB	2.60	0.50
43:BI:78:THR:HG22	43:BI:143:SER:HB3	1.93	0.50
48:BP:114:ILE:O	48:BP:115:LEU:HB3	2.10	0.50
50:BR:34:ILE:HG22	50:BR:35:THR:N	2.27	0.50
50:BR:103:ARG:HD3	50:BR:108:GLY:C	2.36	0.50
52:BT:32:TYR:HD2	52:BT:81:PRO:O	1.94	0.50
52:BT:55:ASN:N	52:BT:59:THR:HB	2.26	0.50
1:CA:892:A:H2'	1:CA:893:C:C6	2.46	0.50
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.42	0.50
1:CA:1030(C):G:O2'	1:CA:1030(D):A:H5'	2.11	0.50
1:CA:1258:G:H2'	1:CA:1259:C:H6	1.76	0.50
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.12	0.50
4:CD:33:MET:CE	4:CD:37:PRO:HA	2.41	0.50
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.93	0.50
14:CN:37:PHE:CD2	14:CN:37:PHE:N	2.78	0.50
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.54	0.50
24:CY:61:THR:O	24:CY:65:LEU:HG	2.11	0.50
24:CY:181:SER:N	24:CY:182:PRO:HD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:46:LYS:HD2	25:D0:78:TYR:CZ	2.46	0.50
25:D0:80:HIS:CD2	25:D0:80:HIS:N	2.78	0.50
26:D1:46:LEU:HD12	26:D1:61:ARG:HD3	1.93	0.50
29:D4:44:CYS:SG	29:D4:64:LYS:HB3	2.52	0.50
31:D6:15:GLU:CD	31:D6:18:ARG:HG3	2.36	0.50
35:DA:290:G:O2'	35:DA:291:C:H5'	2.11	0.50
35:DA:1300:U:O2'	35:DA:1301:A:OP2	2.27	0.50
35:DA:2208:A:H1'	35:DA:2219:G:C5	2.47	0.50
35:DA:2444:G:OP1	40:DF:67:GLN:NE2	2.43	0.50
40:DF:3:GLU:O	40:DF:19:GLU:CB	2.59	0.50
41:DG:12:TYR:O	41:DG:16:ARG:HB2	2.12	0.50
41:DG:115:ARG:NH1	41:DG:136:ARG:HG3	2.23	0.50
59:DI:72:LEU:CD2	59:DI:107:ILE:HG21	2.41	0.50
49:DQ:137:TYR:HD1	49:DQ:138:ASP:N	2.09	0.50
50:DR:9:LYS:O	50:DR:10:LEU:CG	2.60	0.50
51:DS:89:ARG:O	51:DS:90:GLY:O	2.29	0.50
52:DT:38:ASN:HD21	52:DT:41:ARG:HG2	1.76	0.50
57:DY:56:PRO:O	57:DY:57:GLN:CG	2.55	0.50
58:DZ:152:ALA:HB1	58:DZ:167:PRO:CB	2.41	0.50
1:AA:477:A:H2'	1:AA:479:C:C6	2.47	0.50
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.35	0.50
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.11	0.50
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	2.11	0.50
3:AC:180:ALA:O	3:AC:181:ASN:C	2.53	0.50
9:AI:18:PHE:CD1	9:AI:62:TYR:HD2	2.28	0.50
9:AI:114:TYR:CE1	10:AJ:60:ARG:N	2.70	0.50
15:AO:37:ASN:HD22	15:AO:37:ASN:N	2.09	0.50
18:AR:35:ARG:C	18:AR:37:VAL:H	2.19	0.50
19:AS:27:GLU:O	19:AS:28:LYS:O	2.29	0.50
19:AS:36:ARG:HH21	19:AS:72:GLY:CA	2.24	0.50
20:AT:51:GLU:HA	20:AT:54:LYS:HB3	1.93	0.50
22:AW:69:G:H2'	22:AW:70:G:C8	2.46	0.50
24:AY:79:LEU:CB	24:AY:80:PRO:HD3	2.39	0.50
28:B3:6:VAL:HG12	28:B3:28:LEU:HD11	1.93	0.50
30:B5:20:ARG:HA	30:B5:23:HIS:CD2	2.47	0.50
35:BA:99:U:C6	35:BA:102:G:N2	2.80	0.50
35:BA:271(J):C:C3'	35:BA:271(K):U:H5"	2.42	0.50
35:BA:601:C:C5'	40:BF:108:LYS:NZ	2.74	0.50
35:BA:686:G:H21	35:BA:788:A:H61	1.60	0.50
35:BA:926:A:H5'	35:BA:926:A:H8	1.76	0.50
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2036:C:H6	35:BA:2036:C:C5'	2.13	0.50
35:BA:2123:G:H4'	37:BC:166:ASP:CB	2.42	0.50
35:BA:2827:C:H5'	35:BA:2828:C:OP2	2.12	0.50
38:BD:142:VAL:HG23	38:BD:192:THR:O	2.12	0.50
40:BF:24:LEU:CB	40:BF:25:PRO:CD	2.90	0.50
41:BG:55:LYS:C	41:BG:57:ALA:N	2.69	0.50
41:BG:114:ILE:CG2	41:BG:116:ASP:H	2.12	0.50
42:BH:143:GLN:HE21	42:BH:147:ASN:HD21	1.59	0.50
43:BI:88:ILE:O	43:BI:90:GLY:N	2.45	0.50
49:BQ:39:PRO:O	49:BQ:40:ALA:HB2	2.11	0.50
50:BR:8:ARG:NE	50:BR:8:ARG:CA	2.74	0.50
50:BR:60:LEU:HD23	50:BR:60:LEU:C	2.37	0.50
52:BT:24:PRO:HA	52:BT:49:VAL:HG13	1.93	0.50
54:BV:25:LEU:C	54:BV:27:ALA:H	2.20	0.50
55:BW:62:HIS:O	55:BW:63:ASP:C	2.55	0.50
56:BX:47:PHE:HB3	56:BX:89:ILE:HD12	1.94	0.50
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.41	0.50
58:BZ:155:LEU:HD12	58:BZ:155:LEU:N	2.26	0.50
1:CA:166:G:H2'	1:CA:167:G:H8	1.77	0.50
1:CA:304:U:H2'	1:CA:305:G:C8	2.47	0.50
1:CA:707:C:O2'	1:CA:708:C:H5'	2.11	0.50
1:CA:1237:C:H4'	1:CA:1334:G:H21	1.73	0.50
3:CC:134:ILE:CG2	3:CC:168:ALA:HB3	2.41	0.50
4:CD:205:GLU:O	4:CD:206:PHE:C	2.54	0.50
11:CK:21:ILE:HD13	11:CK:84:VAL:HG12	1.93	0.50
12:CL:104:VAL:HG12	12:CL:105:TYR:CD1	2.47	0.50
13:CM:89:GLY:C	13:CM:90:LEU:O	2.53	0.50
13:CM:91:ARG:HB2	13:CM:98:VAL:HG22	1.92	0.50
16:CP:28:ARG:HG2	16:CP:28:ARG:NH1	2.24	0.50
17:CQ:11:VAL:O	17:CQ:12:SER:HB2	2.11	0.50
18:CR:60:ALA:O	18:CR:64:ARG:HG3	2.12	0.50
22:CV:24:G:O2'	35:DA:1923:U:H5"	2.12	0.50
24:CY:15:GLY:O	24:CY:17:LEU:N	2.45	0.50
27:D2:46:GLN:O	27:D2:47:ASN:O	2.30	0.50
28:D3:6:VAL:HG12	28:D3:28:LEU:HD11	1.93	0.50
35:DA:72:U:O2'	35:DA:73:A:H5'	2.11	0.50
35:DA:871:U:H4'	49:DQ:69:PHE:CD2	2.46	0.50
35:DA:914:C:H5'	35:DA:914:C:H6	1.77	0.50
36:DB:40:U:O2'	36:DB:45:A:N6	2.44	0.50
42:DH:33:LEU:HD11	42:DH:136:ILE:O	2.11	0.50
42:DH:54:ARG:HD3	42:DH:65:HIS:CD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.60	0.50
50:DR:8:ARG:NE	50:DR:8:ARG:CA	2.75	0.50
55:DW:1:MET:HB3	55:DW:64:MET:HE3	1.94	0.50
56:DX:57:LEU:HD21	56:DX:78:LYS:HD2	1.93	0.50
57:DY:49:VAL:CG1	57:DY:53:PRO:HG3	2.39	0.50
1:AA:225:C:H2'	1:AA:226:G:H8	1.77	0.50
1:AA:516:U:O2'	1:AA:517:G:H5'	2.10	0.50
1:AA:659:U:H2'	1:AA:660:G:H8	1.75	0.50
1:AA:741:G:H5'	15:AO:39:LEU:CD2	2.41	0.50
1:AA:874:G:O2'	1:AA:875:C:H5'	2.12	0.50
1:AA:918:A:O2'	1:AA:919:A:H5'	2.12	0.50
2:AB:235:SER:O	2:AB:239:VAL:HG23	2.11	0.50
3:AC:149:ALA:O	3:AC:150:LYS:HB2	2.12	0.50
6:AF:42:GLU:O	6:AF:44:GLY:N	2.45	0.50
8:AH:82:HIS:HD2	8:AH:138:TRP:NE1	2.10	0.50
10:AJ:82:ILE:O	10:AJ:82:ILE:HG22	2.12	0.50
13:AM:46:LYS:HG3	13:AM:47:ASP:CG	2.37	0.50
18:AR:23:LYS:C	18:AR:25:THR:H	2.20	0.50
20:AT:13:LEU:C	20:AT:13:LEU:CD1	2.84	0.50
21:AU:22:ARG:N	21:AU:23:PRO:HD3	2.26	0.50
22:AV:20:U:H3'	22:AV:21:A:C5'	2.42	0.50
22:AW:38:A:H3'	22:AW:39:U:C5'	2.37	0.50
24:AY:140:TYR:OH	24:AY:187:HIS:CE1	2.64	0.50
29:B4:50:THR:CG2	29:B4:51:TYR:H	2.16	0.50
33:B8:46:ARG:HG2	33:B8:46:ARG:NH1	2.27	0.50
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.75	0.50
35:BA:271(P):C:O2'	35:BA:271(Q):G:H5'	2.11	0.50
35:BA:809:G:O2'	35:BA:810:U:H5'	2.12	0.50
35:BA:1067:A:H2'	35:BA:1068:G:O4'	2.11	0.50
35:BA:1278:A:H5"	50:BR:36:THR:HG22	1.94	0.50
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.11	0.50
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.41	0.50
35:BA:2590:A:O2'	35:BA:2591:C:H5'	2.10	0.50
35:BA:2788:C:O2'	35:BA:2809:A:N3	2.44	0.50
35:BA:2870:C:H2'	35:BA:2871:C:O4'	2.12	0.50
36:BB:40:U:H1'	36:BB:45:A:H62	1.76	0.50
38:BD:155:LEU:HD12	38:BD:155:LEU:N	2.27	0.50
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	1.94	0.50
40:BF:10:PRO:CG	40:BF:13:SER:HB2	2.36	0.50
41:BG:66:GLN:HE21	41:BG:98:ARG:HB2	1.77	0.50
43:BI:82:ARG:HG3	43:BI:82:ARG:NH1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:14:VAL:HG12	46:BN:15:LEU:N	2.27	0.50
47:BO:40:VAL:HG12	47:BO:41:ALA:N	2.26	0.50
50:BR:63:ARG:HA	50:BR:80:PHE:CE2	2.46	0.50
52:BT:1:MET:HG3	52:BT:2:ASN:H	1.76	0.50
52:BT:27:THR:HG23	52:BT:28:VAL:N	2.27	0.50
52:BT:81:PRO:O	52:BT:82:LEU:HG	2.12	0.50
54:BV:28:GLU:HB3	54:BV:29:PRO:CD	2.39	0.50
55:BW:9:TYR:N	55:BW:9:TYR:HD2	2.10	0.50
55:BW:33:ARG:O	55:BW:37:ARG:HB2	2.12	0.50
58:BZ:29:TYR:HA	58:BZ:33:LEU:O	2.11	0.50
1:CA:477:A:H2'	1:CA:479:C:C6	2.46	0.50
1:CA:506:G:H2'	1:CA:507:C:C6	2.47	0.50
1:CA:1014:A:H2	1:CA:1219:U:O2	1.94	0.50
3:CC:141:VAL:HG11	3:CC:202:ILE:CD1	2.39	0.50
4:CD:91:SER:HA	4:CD:94:LEU:HD12	1.93	0.50
4:CD:96:LEU:N	4:CD:96:LEU:CD1	2.75	0.50
7:CG:116:ALA:O	7:CG:117:ALA:C	2.54	0.50
22:CV:41:C:C3'	22:CV:42:C:H5'	2.41	0.50
24:CY:22:LYS:HD2	24:CY:25:ARG:HD2	1.93	0.50
24:CY:40:ASN:O	24:CY:43:GLU:HG2	2.11	0.50
26:D1:30:VAL:HA	35:DA:2395:C:O2'	2.12	0.50
35:DA:230:U:O2'	35:DA:231:C:H5'	2.12	0.50
35:DA:519:U:H2'	35:DA:520:G:C8	2.45	0.50
35:DA:719:C:O2'	35:DA:720:C:H5'	2.12	0.50
35:DA:1339:G:N2	35:DA:1603:A:H1'	2.27	0.50
35:DA:1557:C:H2'	35:DA:1558:A:C2	2.46	0.50
35:DA:2015:A:H5'	55:DW:92:ARG:HH21	1.77	0.50
35:DA:2061:G:H5"	35:DA:2503:A:C2	2.47	0.50
36:DB:85:G:O2'	36:DB:86:G:H5'	2.12	0.50
39:DE:117:MET:O	39:DE:117:MET:HG2	2.11	0.50
40:DF:32:LEU:HB3	40:DF:112:MET:HE1	1.93	0.50
40:DF:157:VAL:HB	40:DF:194:MET:HB3	1.93	0.50
41:DG:16:ARG:HD2	41:DG:31:VAL:HG21	1.94	0.50
59:DI:66:GLU:HA	59:DI:69:LYS:HZ2	1.77	0.50
44:DJ:96:UNK:C	44:DJ:132:UNK:CB	2.90	0.50
46:DN:43:THR:O	46:DN:46:VAL:HG12	2.12	0.50
48:DP:85:LEU:HD23	48:DP:88:LEU:HD23	1.93	0.50
54:DV:21:ARG:O	54:DV:22:VAL:HG23	2.11	0.50
54:DV:23:GLU:O	54:DV:24:LYS:C	2.54	0.50
57:DY:97:ARG:HA	57:DY:97:ARG:NE	2.26	0.50
58:DZ:9:TYR:CD2	58:DZ:35:ARG:HD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:30:ASN:ND2	58:DZ:30:ASN:C	2.67	0.50
58:DZ:166:SER:CB	58:DZ:167:PRO:CA	2.89	0.50
1:AA:629:G:H2'	1:AA:630:G:C8	2.47	0.50
1:AA:741:G:H2'	1:AA:742:G:O4'	2.12	0.50
3:AC:32:LEU:HD22	3:AC:59:ARG:HH12	1.77	0.50
4:AD:28:SER:O	4:AD:30:LYS:HG2	2.12	0.50
4:AD:68:TYR:N	4:AD:68:TYR:CD1	2.79	0.50
7:AG:44:TYR:HA	7:AG:47:CYS:SG	2.52	0.50
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.42	0.50
17:AQ:9:VAL:HG12	17:AQ:10:VAL:N	2.27	0.50
18:AR:53:ARG:HH21	18:AR:60:ALA:N	2.10	0.50
19:AS:19:VAL:O	19:AS:19:VAL:HG12	2.12	0.50
20:AT:48:LYS:O	20:AT:49:ALA:HB2	2.11	0.50
21:AU:7:ARG:O	21:AU:8:THR:HG23	2.11	0.50
24:AY:54:ARG:HB3	24:AY:54:ARG:CZ	2.42	0.50
26:B1:20:ARG:HG2	26:B1:20:ARG:NH1	2.26	0.50
33:B8:15:LYS:HB2	48:BP:65:ARG:NH2	2.27	0.50
35:BA:911:A:H2'	49:BQ:9:TYR:CZ	2.47	0.50
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.74	0.50
37:BC:128:GLY:O	37:BC:130:ILE:N	2.44	0.50
38:BD:197:GLY:O	38:BD:198:ASN:C	2.54	0.50
40:BF:133:ASN:HA	40:BF:162:LEU:HD23	1.94	0.50
41:BG:86:MET:O	41:BG:87:PRO:O	2.29	0.50
46:BN:9:VAL:CG1	46:BN:10:GLU:N	2.75	0.50
47:BO:14:THR:O	47:BO:51:ALA:HB3	2.12	0.50
48:BP:46:LYS:HG2	48:BP:52:GLU:OE2	2.12	0.50
50:BR:33:ARG:CG	50:BR:115:GLU:HG3	2.33	0.50
55:BW:1:MET:CE	55:BW:2:GLU:H	2.24	0.50
57:BY:56:PRO:O	57:BY:57:GLN:CG	2.55	0.50
1:CA:60:A:H2	1:CA:107:G:N3	2.09	0.50
1:CA:878:G:C1'	8:CH:3:THR:HG21	2.42	0.50
1:CA:966:G:HO2'	1:CA:967:C:H6	1.43	0.50
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.52	0.50
2:CB:167:PRO:HG2	2:CB:192:SER:CB	2.41	0.50
3:CC:6:HIS:HB2	14:CN:49:HIS:HD2	1.77	0.50
3:CC:119:ARG:HE	3:CC:140:ARG:NH2	2.10	0.50
3:CC:175:LEU:HD12	3:CC:175:LEU:N	2.26	0.50
4:CD:105:VAL:O	4:CD:105:VAL:HG12	2.11	0.50
4:CD:145:GLU:HG2	4:CD:184:LYS:HZ3	1.77	0.50
8:CH:84:ARG:O	8:CH:135:CYS:HB2	2.11	0.50
10:CJ:48:THR:HG22	10:CJ:49:VAL:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:82:ILE:HG23	15:CO:83:GLU:H	1.74	0.50
16:CP:29:ASP:OD2	16:CP:29:ASP:N	2.42	0.50
18:CR:25:THR:O	18:CR:26:LEU:HD23	2.11	0.50
21:CU:22:ARG:N	21:CU:23:PRO:HD3	2.26	0.50
24:CY:61:THR:CA	24:CY:64:SER:HB3	2.39	0.50
24:CY:64:SER:O	24:CY:68:ASP:HB2	2.12	0.50
24:CY:181:SER:O	24:CY:352:LYS:NZ	2.45	0.50
26:D1:4:VAL:HA	26:D1:10:LYS:O	2.11	0.50
27:D2:47:ASN:ND2	35:DA:94(A):G:N3	2.60	0.50
31:D6:25:LYS:HE2	31:D6:27:LYS:NZ	2.26	0.50
32:D7:8:ASN:ND2	32:D7:10:ARG:N	2.59	0.50
32:D7:9:ARG:HH12	35:DA:1309:G:H3'	1.77	0.50
35:DA:92:A:O2'	35:DA:93:G:H5'	2.12	0.50
35:DA:286:C:C2'	35:DA:287:C:H5"	2.38	0.50
35:DA:297:C:H2'	35:DA:298:G:O4'	2.12	0.50
35:DA:626:U:C2	48:DP:105:LEU:HB3	2.46	0.50
35:DA:654(R):C:H2'	35:DA:654(S):G:H8	1.76	0.50
35:DA:1067:A:H2'	35:DA:1068:G:O4'	2.11	0.50
35:DA:1485:G:O2'	35:DA:1486:A:H5'	2.11	0.50
35:DA:1509(A):A:O2'	35:DA:1509(B):A:H5'	2.12	0.50
35:DA:2121:G:C2'	35:DA:2122:U:H5'	2.41	0.50
35:DA:2540:C:H2'	35:DA:2541:A:O4'	2.11	0.50
36:DB:6:C:O2'	51:DS:29:PHE:HE1	1.95	0.50
38:DD:8:PRO:HB3	38:DD:14:ARG:CB	2.41	0.50
42:DH:103:LEU:CG	42:DH:104:GLU:N	2.74	0.50
59:DI:111:PRO:C	59:DI:113:ARG:N	2.68	0.50
47:DO:26:LYS:HE3	47:DO:37:ASP:OD1	2.12	0.50
47:DO:71:ARG:HH21	47:DO:77:ILE:HG21	1.76	0.50
48:DP:146:VAL:HG22	48:DP:147:LEU:N	2.27	0.50
52:DT:28:VAL:HG11	52:DT:46:GLU:CG	2.34	0.50
54:DV:22:VAL:O	54:DV:23:GLU:CB	2.60	0.50
58:DZ:125:LEU:O	58:DZ:126:VAL:HG13	2.12	0.50
1:AA:723:U:O2	1:AA:723:U:C2'	2.59	0.50
1:AA:1060:C:H4'	10:AJ:52:GLY:N	2.27	0.50
1:AA:1287:A:H2	1:AA:1353:G:N3	2.10	0.50
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.47	0.50
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.46	0.50
2:AB:178:ARG:HD2	8:AH:71:GLY:HA2	1.94	0.50
3:AC:84:ILE:HD11	3:AC:88:ARG:NH2	2.26	0.50
3:AC:167:TRP:O	3:AC:168:ALA:HB2	2.12	0.50
4:AD:105:VAL:HG12	4:AD:105:VAL:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.42	0.50
5:AE:101:ILE:HD13	5:AE:101:ILE:N	2.19	0.50
5:AE:136:MET:C	5:AE:138:ALA:N	2.70	0.50
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.42	0.50
8:AH:120:THR:HG23	8:AH:123:GLU:CD	2.37	0.50
9:AI:4:TYR:HB2	9:AI:19:LEU:CB	2.34	0.50
9:AI:78:LYS:HG2	9:AI:78:LYS:O	2.11	0.50
9:AI:103:THR:CG2	9:AI:104:ARG:N	2.75	0.50
10:AJ:88:LEU:HG	10:AJ:90:LEU:HD11	1.94	0.50
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.93	0.50
15:AO:37:ASN:N	15:AO:37:ASN:ND2	2.59	0.50
18:AR:44:LEU:HD21	18:AR:50:ILE:HD13	1.94	0.50
20:AT:50:GLU:O	20:AT:53:LEU:N	2.45	0.50
27:B2:38:GLN:HB2	27:B2:44:LEU:CD1	2.42	0.50
35:BA:225:A:C2'	35:BA:226:G:H5'	2.42	0.50
35:BA:626:U:H3	48:BP:105:LEU:HB3	1.74	0.50
35:BA:654(R):C:H2'	35:BA:654(S):G:H8	1.77	0.50
35:BA:1316:U:H2'	35:BA:1317:A:C8	2.47	0.50
35:BA:1652:A:O2'	35:BA:1653:G:H5'	2.12	0.50
35:BA:2267:A:H5"	35:BA:2268:A:C5'	2.39	0.50
35:BA:2317:C:O2'	35:BA:2318:G:H5'	2.12	0.50
35:BA:2511:U:H2'	35:BA:2512:C:H6	1.77	0.50
35:BA:2533:A:H2'	35:BA:2534:A:C5'	2.32	0.50
35:BA:2773:C:H2'	35:BA:2774:C:H6	1.75	0.50
36:BB:27:C:H5'	36:BB:28:C:OP2	2.12	0.50
39:BE:2:LYS:HA	39:BE:84:PHE:CE2	2.47	0.50
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.11	0.50
41:BG:45:GLU:O	41:BG:47:LYS:HG2	2.12	0.50
46:BN:26:LEU:O	46:BN:30:ILE:HG13	2.12	0.50
47:BO:43:VAL:HG23	47:BO:56:ASP:O	2.11	0.50
47:BO:87:ILE:HG21	47:BO:91:LEU:HA	1.94	0.50
47:BO:87:ILE:HG23	47:BO:91:LEU:HA	1.93	0.50
48:BP:131:SER:O	48:BP:134:ALA:N	2.45	0.50
54:BV:6:LYS:HE2	54:BV:37:VAL:CG1	2.42	0.50
54:BV:39:LEU:O	54:BV:40:LEU:HG	2.11	0.50
1:CA:36:C:O3'	12:CL:123:LYS:HA	2.12	0.50
1:CA:580:U:H2'	1:CA:581:G:C8	2.47	0.50
1:CA:716:A:N3	11:CK:117:ASN:O	2.45	0.50
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.11	0.50
2:CB:104:ASN:ND2	2:CB:107:THR:HB	2.27	0.50
2:CB:143:GLU:O	2:CB:147:LYS:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:149:ALA:O	3:CC:150:LYS:HB2	2.12	0.50
4:CD:68:TYR:CD1	4:CD:68:TYR:N	2.79	0.50
4:CD:99:SER:O	4:CD:140:VAL:HG23	2.11	0.50
4:CD:165:MET:C	4:CD:167:GLY:N	2.68	0.50
5:CE:136:MET:C	5:CE:138:ALA:H	2.19	0.50
7:CG:76:ARG:HD3	7:CG:89:MET:CE	2.42	0.50
9:CI:10:ARG:HD3	9:CI:75:ASP:CB	2.41	0.50
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.12	0.50
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	2.12	0.50
13:CM:68:GLY:O	13:CM:72:ALA:N	2.45	0.50
19:CS:11:VAL:HG22	19:CS:16:LEU:CD1	2.41	0.50
20:CT:26:ASN:HA	20:CT:29:LYS:HG2	1.93	0.50
24:CY:65:LEU:HD11	24:CY:94:ALA:O	2.12	0.50
24:CY:346:TRP:O	24:CY:347:ALA:C	2.54	0.50
28:D3:2:PRO:HB2	28:D3:59:VAL:H	1.76	0.50
33:D8:16:ILE:HD12	33:D8:57:ARG:HG2	1.93	0.50
35:DA:548:A:H2'	35:DA:549:G:O4'	2.11	0.50
35:DA:654(C):G:H2'	35:DA:654(D):G:H8	1.76	0.50
35:DA:2131:G:H5"	35:DA:2132:U:C5'	2.42	0.50
35:DA:2222:G:H5'	38:DD:149:PRO:HG3	1.94	0.50
36:DB:20:C:O2'	36:DB:21:G:H5'	2.12	0.50
36:DB:105:A:H2'	36:DB:106:G:O4'	2.11	0.50
38:DD:24:ILE:HD12	38:DD:84:TYR:HB2	1.94	0.50
38:DD:101:GLU:HG3	38:DD:102:LYS:N	2.26	0.50
38:DD:155:LEU:HD12	38:DD:155:LEU:N	2.26	0.50
39:DE:7:VAL:CG2	39:DE:27:LEU:HB3	2.42	0.50
39:DE:76:ARG:O	39:DE:77:ILE:C	2.54	0.50
39:DE:172:VAL:HG13	39:DE:182:LEU:HD11	1.93	0.50
42:DH:114:VAL:HG23	42:DH:115:VAL:N	2.27	0.50
59:DI:77:LEU:HD11	59:DI:142:VAL:HG22	1.93	0.50
45:DK:12:LEU:HD12	45:DK:55:VAL:HG11	1.93	0.50
46:DN:70:LYS:HB3	46:DN:87:LEU:HB2	1.94	0.50
1:AA:294:U:H2'	1:AA:295:C:C6	2.43	0.49
1:AA:512:U:H2'	1:AA:513:C:H6	1.75	0.49
1:AA:865:A:H2'	1:AA:866:C:H6	1.77	0.49
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.12	0.49
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.51	0.49
3:AC:175:LEU:HD12	3:AC:175:LEU:N	2.26	0.49
11:AK:123:LYS:HA	11:AK:126:ARG:HD3	1.94	0.49
13:AM:105:THR:O	13:AM:106:ASN:C	2.55	0.49
16:AP:29:ASP:N	16:AP:29:ASP:OD2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:87:ARG:HG2	18:AR:87:ARG:O	2.12	0.49
18:AR:87:ARG:HG2	18:AR:87:ARG:HH11	1.76	0.49
19:AS:9:VAL:C	19:AS:10:PHE:CD1	2.90	0.49
22:AW:7:A:O2'	22:AW:8:U:H5'	2.12	0.49
24:AY:33:LEU:CD2	35:BA:1095:A:H61	2.24	0.49
25:B0:11:ARG:O	25:B0:12:ASN:ND2	2.45	0.49
27:B2:43:GLN:O	27:B2:44:LEU:CG	2.59	0.49
30:B5:40:LYS:CE	30:B5:46:CYS:HB3	2.42	0.49
35:BA:296:C:O2'	35:BA:297:C:H5'	2.11	0.49
35:BA:1037:G:H1	35:BA:1118:C:N4	2.06	0.49
35:BA:1586:A:H3'	35:BA:1587:A:O4'	2.11	0.49
35:BA:1685:C:H2'	35:BA:1686:C:C5'	2.41	0.49
35:BA:2540:C:H2'	35:BA:2541:A:O4'	2.12	0.49
35:BA:2579:C:H4'	39:BE:134:ILE:HD12	1.94	0.49
35:BA:2846:G:H2'	35:BA:2847:U:C6	2.47	0.49
37:BC:47:LEU:HG	37:BC:48:GLY:N	2.27	0.49
40:BF:40:GLN:NE2	40:BF:182:ASN:HB2	2.17	0.49
41:BG:21:ARG:HD2	41:BG:21:ARG:O	2.12	0.49
41:BG:139:LEU:C	41:BG:141:PHE:N	2.70	0.49
43:BI:9:LEU:HD12	43:BI:12:LEU:HB2	1.92	0.49
46:BN:18:ALA:HB1	46:BN:21:LYS:HG3	1.92	0.49
46:BN:47:ALA:HB2	46:BN:112:LEU:CD1	2.41	0.49
49:BQ:52:VAL:HG22	49:BQ:53:ALA:N	2.27	0.49
54:BV:39:LEU:CD1	54:BV:51:VAL:HA	2.42	0.49
1:CA:791:G:C6	1:CA:792:A:N7	2.80	0.49
1:CA:918:A:O2'	1:CA:919:A:H5'	2.12	0.49
1:CA:1083:U:H5	1:CA:1084:G:C6	2.29	0.49
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.77	0.49
1:CA:1255:G:C5'	3:CC:26:LYS:HE3	2.42	0.49
1:CA:1317:C:OP2	14:CN:17:LYS:HE2	2.12	0.49
3:CC:113:ALA:O	3:CC:115:LEU:N	2.46	0.49
15:CO:70:LEU:O	15:CO:70:LEU:HD12	2.12	0.49
17:CQ:18:THR:HG23	17:CQ:69:LYS:HE3	1.94	0.49
22:CV:63:G:H2'	22:CV:64:A:C8	2.47	0.49
24:CY:46:ARG:O	24:CY:50:GLN:HB2	2.12	0.49
24:CY:97:LYS:C	24:CY:99:ASP:N	2.68	0.49
25:D0:71:ASP:C	25:D0:73:GLY:H	2.20	0.49
27:D2:55:ARG:O	27:D2:56:GLN:C	2.54	0.49
27:D2:64:LEU:O	27:D2:64:LEU:HD23	2.12	0.49
30:D5:20:ARG:HA	30:D5:23:HIS:CD2	2.47	0.49
31:D6:15:GLU:OE2	31:D6:41:PRO:HG3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1412:A:O2'	35:DA:1413:G:H5'	2.11	0.49
35:DA:1424:G:H2'	35:DA:1425:G:O4'	2.11	0.49
35:DA:2183:C:H2'	35:DA:2184:G:C8	2.47	0.49
35:DA:2345:G:H5"	35:DA:2347:C:O4'	2.12	0.49
37:DC:42:GLU:HB2	37:DC:44:HIS:CE1	2.47	0.49
38:DD:164:GLN:HG2	38:DD:165:ILE:H	1.77	0.49
39:DE:9:VAL:CG2	39:DE:25:VAL:HB	2.41	0.49
40:DF:39:TRP:CH2	40:DF:106:ARG:HD3	2.47	0.49
42:DH:84:SER:O	42:DH:85:LYS:HB3	2.12	0.49
59:DI:88:ILE:HG13	59:DI:122:GLU:O	2.12	0.49
45:DK:13:PRO:HG2	45:DK:16:LYS:O	2.11	0.49
47:DO:4:PRO:HA	47:DO:21:CYS:O	2.12	0.49
47:DO:13:ASN:HD22	47:DO:97:ARG:HB2	1.75	0.49
48:DP:115:LEU:C	48:DP:115:LEU:CD1	2.85	0.49
54:DV:46:VAL:CG2	54:DV:47:VAL:H	2.04	0.49
54:DV:55:ALA:O	54:DV:56:SER:HB3	2.12	0.49
55:DW:71:VAL:HA	55:DW:107:LEU:HD12	1.94	0.49
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.94	0.49
1:AA:1317:C:OP2	14:AN:17:LYS:HE2	2.12	0.49
1:AA:1429:C:H2'	1:AA:1430:C:C5	2.47	0.49
1:AA:1431:C:O2'	1:AA:1432:G:H5'	2.12	0.49
3:AC:186:PHE:HA	3:AC:198:VAL:O	2.12	0.49
4:AD:128:VAL:CG1	4:AD:129:ASN:N	2.75	0.49
4:AD:208:SER:O	4:AD:209:ARG:C	2.54	0.49
5:AE:57:LYS:HG2	5:AE:61:TYR:HE2	1.76	0.49
7:AG:116:ALA:O	7:AG:117:ALA:C	2.55	0.49
13:AM:84:ILE:HG13	19:AS:66:MET:CE	2.42	0.49
14:AN:12:ARG:HB3	14:AN:14:PRO:HD2	1.94	0.49
22:AV:39:U:H2'	22:AV:40:C:H6	1.77	0.49
24:AY:42:PRO:HG2	24:AY:43:GLU:OE1	2.11	0.49
24:AY:186:VAL:C	24:AY:187:HIS:HD2	2.20	0.49
24:AY:264:THR:HG22	24:AY:265:THR:HG23	1.92	0.49
28:B3:37:LEU:O	28:B3:38:GLU:O	2.29	0.49
35:BA:598:G:C4'	48:BP:15:ARG:HB3	2.42	0.49
35:BA:1384:A:N3	35:BA:1405:U:H1'	2.27	0.49
35:BA:1658:C:H2'	35:BA:1659:U:C6	2.47	0.49
35:BA:1888:G:H3'	35:BA:1888:G:N3	2.27	0.49
35:BA:2839:G:H5'	50:BR:46:GLY:HA2	1.94	0.49
35:BA:2878:U:C2'	35:BA:2879:C:H5'	2.42	0.49
36:BB:40:U:H3'	36:BB:41:U:H5"	1.95	0.49
39:BE:7:VAL:HG22	39:BE:27:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:14:ILE:O	39:BE:21:VAL:HG22	2.11	0.49
39:BE:81:ILE:O	39:BE:82:ARG:CB	2.60	0.49
39:BE:151:TYR:HD2	39:BE:154:LYS:NZ	2.09	0.49
40:BF:28:ILE:HD11	40:BF:115:ALA:HB3	1.94	0.49
42:BH:41:MET:SD	42:BH:41:MET:N	2.85	0.49
42:BH:79:VAL:C	42:BH:81:GLU:H	2.21	0.49
49:BQ:77:LYS:HZ1	49:BQ:84:GLY:N	2.10	0.49
51:BS:16:ASN:ND2	51:BS:92:TYR:CE1	2.80	0.49
57:BY:19:LYS:HB2	57:BY:19:LYS:NZ	2.27	0.49
57:BY:48:ALA:C	57:BY:49:VAL:HG22	2.37	0.49
58:BZ:166:SER:H	58:BZ:167:PRO:CA	2.18	0.49
1:CA:193:C:O2'	1:CA:194:C:H5'	2.12	0.49
1:CA:197:A:N6	1:CA:221:C:C5'	2.75	0.49
1:CA:1084:G:H5'	1:CA:1102:A:OP2	2.12	0.49
1:CA:1517:G:H1'	35:DA:1919:A:O3'	2.12	0.49
3:CC:5:ILE:HD12	3:CC:5:ILE:C	2.37	0.49
3:CC:23:TYR:CD2	3:CC:24:ALA:N	2.80	0.49
3:CC:167:TRP:O	3:CC:168:ALA:HB2	2.12	0.49
8:CH:85:ARG:NE	8:CH:87:SER:O	2.45	0.49
9:CI:103:THR:CG2	9:CI:104:ARG:N	2.75	0.49
9:CI:114:TYR:HE1	10:CJ:60:ARG:H	1.50	0.49
13:CM:23:TYR:HB3	13:CM:67:GLU:HA	1.93	0.49
13:CM:46:LYS:HG3	13:CM:47:ASP:CG	2.36	0.49
17:CQ:15:MET:HE1	17:CQ:43:LEU:HD22	1.93	0.49
22:CV:62:C:H2'	22:CV:63:G:C5'	2.41	0.49
24:CY:55:LEU:O	24:CY:59:VAL:HG23	2.12	0.49
24:CY:287:GLU:C	24:CY:289:LYS:H	2.20	0.49
25:D0:12:ASN:C	25:D0:14:ARG:N	2.70	0.49
29:D4:38:ALA:HA	29:D4:55:PRO:HA	1.94	0.49
30:D5:3:LYS:HE3	30:D5:3:LYS:CA	2.23	0.49
33:D8:61:LEU:HD12	33:D8:62:LEU:CG	2.37	0.49
35:DA:324:A:C2'	35:DA:325:G:H5'	2.42	0.49
35:DA:598:G:C5'	48:DP:15:ARG:HD2	2.21	0.49
35:DA:889:C:O2'	35:DA:890:A:O5'	2.29	0.49
35:DA:1288:U:C2	35:DA:1327:C:O2	2.65	0.49
35:DA:2262:U:H2'	35:DA:2263:C:H5'	1.93	0.49
35:DA:2846:G:H2'	35:DA:2847:U:C6	2.47	0.49
35:DA:2848:G:C8	52:DT:97:ALA:HB2	2.46	0.49
36:DB:30:C:H2'	36:DB:31:C:O4'	2.12	0.49
39:DE:59:VAL:HG11	39:DE:63:LEU:HG	1.94	0.49
40:DF:53:THR:N	40:DF:56:GLU:OE2	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:75:LYS:NZ	41:DG:75:LYS:HB3	2.27	0.49
42:DH:41:MET:SD	42:DH:41:MET:N	2.86	0.49
42:DH:96:ALA:HB2	42:DH:105:LEU:HA	1.93	0.49
59:DI:81:VAL:CG2	59:DI:146:ALA:N	2.57	0.49
46:DN:18:ALA:HB1	46:DN:21:LYS:HG3	1.93	0.49
48:DP:56:SER:O	48:DP:57:THR:O	2.29	0.49
51:DS:26:LEU:HD13	51:DS:87:PHE:HD1	1.76	0.49
52:DT:6:LEU:HD23	52:DT:6:LEU:C	2.37	0.49
52:DT:118:ARG:H	52:DT:118:ARG:HD2	1.77	0.49
53:DU:90:VAL:C	53:DU:92:ARG:H	2.20	0.49
55:DW:1:MET:HE3	55:DW:2:GLU:H	1.78	0.49
58:DZ:167:PRO:O	58:DZ:168:GLU:CB	2.60	0.49
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.77	0.49
2:AB:9:GLU:HG3	2:AB:10:LEU:N	2.27	0.49
2:AB:16:HIS:HD2	2:AB:210:SER:HA	1.77	0.49
4:AD:33:MET:CE	4:AD:37:PRO:HA	2.42	0.49
12:AL:61:THR:C	12:AL:63:GLY:H	2.18	0.49
14:AN:44:LEU:C	14:AN:44:LEU:HD23	2.37	0.49
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.55	0.49
17:AQ:51:TYR:CD2	17:AQ:57:VAL:HG11	2.47	0.49
22:AW:17:C:C5	35:BA:2181:G:H5'	2.41	0.49
35:BA:271(A):A:H3'	35:BA:271(B):C:C6	2.47	0.49
35:BA:1544:A:H2	35:BA:1545:A:C2	2.30	0.49
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.43	0.49
35:BA:2025:C:O2'	35:BA:2026:C:H5'	2.12	0.49
37:BC:42:GLU:HB2	37:BC:44:HIS:CE1	2.47	0.49
38:BD:31:LYS:HG3	38:BD:33:LEU:CD2	2.43	0.49
41:BG:47:LYS:HD2	41:BG:82:LEU:HD12	1.94	0.49
41:BG:114:ILE:O	41:BG:116:ASP:N	2.44	0.49
45:BK:131:ALA:HA	45:BK:136:VAL:CG1	2.43	0.49
48:BP:50:ARG:HD3	48:BP:51:PHE:N	2.26	0.49
48:BP:115:LEU:C	48:BP:115:LEU:CD1	2.84	0.49
49:BQ:137:TYR:HD1	49:BQ:138:ASP:N	2.10	0.49
55:BW:1:MET:HB3	55:BW:64:MET:HE3	1.95	0.49
57:BY:8:LYS:HE2	57:BY:69:ALA:O	2.12	0.49
1:CA:551:U:H2'	1:CA:552:U:H6	1.77	0.49
1:CA:723:U:O2	1:CA:723:U:C2'	2.59	0.49
1:CA:874:G:O2'	1:CA:875:C:H5'	2.12	0.49
1:CA:1186:G:N2	1:CA:1187:G:H1'	2.27	0.49
2:CB:92:TYR:CD2	2:CB:151:GLY:HA3	2.46	0.49
3:CC:76:VAL:HG21	3:CC:103:VAL:CG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:87:LEU:HA	3:CC:90:GLU:HG2	1.93	0.49
3:CC:206:GLU:O	3:CC:208:ILE:N	2.45	0.49
6:CF:22:GLU:OE2	6:CF:22:GLU:HA	2.10	0.49
9:CI:50:LEU:O	9:CI:53:VAL:HG22	2.12	0.49
10:CJ:5:ARG:HG3	10:CJ:71:LEU:HD11	1.94	0.49
12:CL:52:LEU:O	12:CL:54:LYS:HD2	2.12	0.49
17:CQ:51:TYR:CD2	17:CQ:57:VAL:HG11	2.47	0.49
19:CS:11:VAL:CG2	19:CS:16:LEU:HD11	2.42	0.49
24:CY:15:GLY:HA3	24:CY:19:ILE:HG12	1.95	0.49
24:CY:40:ASN:C	24:CY:42:PRO:CD	2.83	0.49
34:D9:7:VAL:HA	34:D9:34:GLN:NE2	2.27	0.49
35:DA:314:A:O2'	35:DA:315:G:H5'	2.12	0.49
35:DA:910:A:H62	49:DQ:12:GLN:HA	1.77	0.49
35:DA:962:G:C2'	35:DA:963:U:H5'	2.42	0.49
35:DA:1278:A:H5"	50:DR:36:THR:HG22	1.94	0.49
35:DA:1791:A:H3'	35:DA:1792:G:H8	1.77	0.49
35:DA:2273:A:O2'	35:DA:2274:A:H5'	2.11	0.49
35:DA:2334:G:H21	51:DS:18:ILE:HG12	1.75	0.49
35:DA:2346:A:C2	35:DA:2383:G:C2	3.00	0.49
35:DA:2630:G:H1'	35:DA:2894:G:C1'	2.35	0.49
38:DD:187:GLY:C	38:DD:189:CYS:H	2.20	0.49
39:DE:14:ILE:O	39:DE:21:VAL:HG22	2.12	0.49
39:DE:182:LEU:C	39:DE:182:LEU:HD12	2.37	0.49
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.93	0.49
40:DF:132:VAL:O	40:DF:133:ASN:C	2.55	0.49
59:DI:9:LEU:O	59:DI:13:GLY:HA3	2.12	0.49
46:DN:23:LEU:CD1	46:DN:98:VAL:HG12	2.42	0.49
48:DP:112:LEU:HD23	48:DP:112:LEU:C	2.37	0.49
51:DS:74:ALA:CB	51:DS:103:GLU:HG3	2.40	0.49
54:DV:35:LEU:N	54:DV:35:LEU:HD22	2.27	0.49
57:DY:96:ILE:HD12	57:DY:99:CYS:HB2	1.94	0.49
58:DZ:120:ILE:O	58:DZ:121:HIS:CB	2.60	0.49
1:AA:108:G:H5'	1:AA:109:A:C5'	2.41	0.49
1:AA:197:A:N6	1:AA:221:C:C5'	2.76	0.49
1:AA:878:G:C1'	8:AH:3:THR:HG21	2.43	0.49
2:AB:142:LEU:HD11	2:AB:146:GLN:NE2	2.26	0.49
4:AD:107:ARG:NH2	4:AD:194:LEU:HD12	2.28	0.49
4:AD:145:GLU:HG2	4:AD:184:LYS:HZ3	1.77	0.49
5:AE:28:PHE:H	5:AE:28:PHE:HD1	1.58	0.49
8:AH:86:ILE:O	8:AH:88:LYS:HG3	2.11	0.49
8:AH:109:ILE:CG1	8:AH:110:ALA:H	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:22:GLY:HA3	9:AI:60:ASP:OD2	2.12	0.49
11:AK:54:ARG:NH1	22:AW:39:U:O2'	2.45	0.49
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.80	0.49
16:AP:28:ARG:NH1	16:AP:29:ASP:OD2	2.45	0.49
20:AT:104:LEU:HD23	20:AT:104:LEU:C	2.38	0.49
24:AY:31:ARG:HG2	45:BK:25:PRO:CG	2.41	0.49
25:B0:46:LYS:HD2	25:B0:78:TYR:CZ	2.47	0.49
27:B2:38:GLN:HE21	27:B2:44:LEU:HD13	1.76	0.49
30:B5:49:CYS:O	30:B5:50:GLY:C	2.54	0.49
33:B8:61:LEU:HD12	33:B8:62:LEU:CG	2.38	0.49
35:BA:139:G:C6	35:BA:140:G:H2'	2.47	0.49
35:BA:154:G:C6	35:BA:154(A):C:N4	2.80	0.49
35:BA:270:A:O2'	35:BA:271:A:H5'	2.12	0.49
35:BA:534:U:O2'	53:BU:49:HIS:HD2	1.94	0.49
35:BA:827:U:H2'	35:BA:2068:U:C2	2.48	0.49
35:BA:862:G:H2'	35:BA:863:A:O4'	2.12	0.49
35:BA:1434:A:O2'	35:BA:1435:G:H5'	2.13	0.49
37:BC:170:ALA:O	37:BC:171:ILE:C	2.55	0.49
38:BD:133:LEU:HG	38:BD:189:CYS:O	2.12	0.49
38:BD:187:GLY:C	38:BD:189:CYS:H	2.21	0.49
41:BG:132:ASN:ND2	41:BG:132:ASN:N	2.60	0.49
45:BK:52:ILE:O	45:BK:52:ILE:HG23	2.12	0.49
54:BV:79:VAL:O	54:BV:80:GLN:HB2	2.13	0.49
57:BY:4:LYS:C	57:BY:4:LYS:CD	2.86	0.49
57:BY:39:VAL:CG1	57:BY:40:GLU:H	2.13	0.49
1:CA:536:C:H2'	1:CA:537:G:C8	2.47	0.49
1:CA:1112:C:N3	3:CC:178:LEU:HD23	2.27	0.49
1:CA:1191:A:OP1	3:CC:3:ASN:ND2	2.45	0.49
4:CD:100:ARG:CZ	4:CD:137:SER:HA	2.43	0.49
7:CG:54:THR:CG2	7:CG:125:MET:HE3	2.43	0.49
16:CP:6:LEU:N	16:CP:6:LEU:CD1	2.75	0.49
18:CR:23:LYS:C	18:CR:25:THR:H	2.20	0.49
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.12	0.49
19:CS:9:VAL:C	19:CS:10:PHE:CD1	2.91	0.49
22:CV:29:G:H1	22:CV:41:C:H42	1.60	0.49
24:CY:139:MET:O	24:CY:139:MET:HG2	2.12	0.49
30:D5:46:CYS:O	30:D5:48:GLU:N	2.46	0.49
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.43	0.49
35:DA:30:G:H2'	35:DA:31:C:C6	2.47	0.49
35:DA:476:G:H4'	35:DA:502:A:N1	2.27	0.49
35:DA:1516:C:H2'	35:DA:1517:G:H8	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1529:G:H2'	35:DA:1529:G:N3	2.26	0.49
35:DA:1998:G:O2'	35:DA:1999:C:H5'	2.12	0.49
35:DA:2590:A:O2'	35:DA:2591:C:H5'	2.12	0.49
35:DA:2788:C:O2'	35:DA:2809:A:N3	2.42	0.49
37:DC:170:ALA:O	37:DC:172:HIS:N	2.46	0.49
38:DD:142:VAL:HG23	38:DD:192:THR:O	2.13	0.49
41:DG:14:GLU:C	41:DG:17:PRO:HD2	2.38	0.49
42:DH:119:GLU:O	42:DH:140:LYS:NZ	2.36	0.49
59:DI:110:ASP:OD2	59:DI:113:ARG:HG2	2.12	0.49
45:DK:58:THR:HG22	45:DK:59:ILE:N	2.27	0.49
49:DQ:52:VAL:O	49:DQ:53:ALA:C	2.54	0.49
50:DR:4:LEU:O	50:DR:6:SER:N	2.45	0.49
52:DT:33:LYS:HZ2	52:DT:74:ARG:HH21	1.59	0.49
57:DY:68:HIS:C	57:DY:70:SER:H	2.20	0.49
58:DZ:146:ILE:HA	58:DZ:174:VAL:HG11	1.93	0.49
1:AA:77:G:C2'	1:AA:78:G:H5'	2.42	0.49
1:AA:628:G:H2'	1:AA:629:G:C8	2.47	0.49
1:AA:632:A:H8	1:AA:633:G:C8	2.30	0.49
1:AA:1331:G:OP2	13:AM:23:TYR:CD2	2.63	0.49
2:AB:36:ARG:H	2:AB:41:ILE:CD1	2.17	0.49
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.43	0.49
5:AE:11:ILE:HD12	5:AE:31:LEU:HD12	1.94	0.49
6:AF:11:ASN:HD22	6:AF:86:ARG:NH2	2.11	0.49
7:AG:50:ILE:HD11	7:AG:61:VAL:HG11	1.95	0.49
7:AG:109:ASN:C	7:AG:111:ARG:H	2.19	0.49
7:AG:143:ARG:O	7:AG:147:ALA:HB2	2.12	0.49
10:AJ:32:ALA:H	10:AJ:78:ASN:CG	2.20	0.49
10:AJ:78:ASN:HD22	10:AJ:81:THR:CG2	2.25	0.49
11:AK:126:ARG:HB3	11:AK:126:ARG:NH1	2.27	0.49
15:AO:70:LEU:HD12	15:AO:70:LEU:O	2.13	0.49
17:AQ:2:PRO:O	17:AQ:3:LYS:C	2.55	0.49
17:AQ:81:ARG:C	17:AQ:83:ASP:N	2.70	0.49
24:AY:59:VAL:HG13	24:AY:62:PHE:HD2	1.78	0.49
24:AY:65:LEU:HD23	24:AY:91:LEU:HD11	1.94	0.49
24:AY:141:THR:O	24:AY:145:GLU:HB2	2.13	0.49
28:B3:31:LEU:C	28:B3:32:GLN:HG2	2.37	0.49
30:B5:54:GLY:O	30:B5:56:LYS:NZ	2.39	0.49
31:B6:36:LEU:HD23	31:B6:36:LEU:N	2.27	0.49
35:BA:71:A:O2'	35:BA:72:U:OP2	2.27	0.49
35:BA:1046:A:C2	44:BJ:8:UNK:HA	2.43	0.49
35:BA:1841:U:H1'	38:BD:244:ARG:HH22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:25:THR:HG21	38:BD:81:ALA:CA	2.43	0.49
39:BE:40:GLU:N	39:BE:40:GLU:OE1	2.44	0.49
42:BH:54:ARG:HD3	42:BH:65:HIS:CD2	2.47	0.49
43:BI:38:LEU:HD13	43:BI:39:ALA:N	2.28	0.49
45:BK:105:LEU:O	45:BK:109:LYS:HG3	2.12	0.49
45:BK:132:ARG:HG3	45:BK:132:ARG:HH11	1.77	0.49
46:BN:126:PRO:O	46:BN:127:ASP:CB	2.59	0.49
48:BP:14:LYS:O	48:BP:15:ARG:CB	2.61	0.49
51:BS:54:LEU:HA	51:BS:57:LYS:O	2.13	0.49
52:BT:81:PRO:C	52:BT:82:LEU:HD12	2.38	0.49
54:BV:18:LEU:HD13	54:BV:19:LYS:H	1.74	0.49
57:BY:17:SER:OG	57:BY:18:GLY:N	2.46	0.49
58:BZ:27:VAL:HG12	58:BZ:87:ASP:CB	2.42	0.49
58:BZ:109:ALA:CB	58:BZ:145:GLU:HG2	2.42	0.49
1:CA:349:A:O2'	1:CA:350:G:H5'	2.12	0.49
1:CA:741:G:H5'	15:CO:39:LEU:CD2	2.43	0.49
1:CA:1109:C:C2'	1:CA:1110:A:H5'	2.42	0.49
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.47	0.49
1:CA:1347:G:C6	9:CI:107:ARG:NH2	2.74	0.49
4:CD:100:ARG:NH1	4:CD:137:SER:HA	2.27	0.49
5:CE:147:ASP:HB3	5:CE:150:ARG:NH2	2.22	0.49
7:CG:27:ILE:HA	7:CG:30:ILE:HG12	1.95	0.49
18:CR:87:ARG:HG2	18:CR:87:ARG:HH11	1.77	0.49
22:CV:2:C:C2'	22:CV:3:C:H5"	2.41	0.49
22:CV:3:C:H6	22:CV:3:C:C5'	2.16	0.49
24:CY:54:ARG:HB2	24:CY:57:ARG:CZ	2.42	0.49
24:CY:189:LEU:HD12	24:CY:204:SER:CB	2.42	0.49
24:CY:307:TRP:C	24:CY:309:SER:H	2.19	0.49
33:D8:46:ARG:HG2	33:D8:46:ARG:NH1	2.27	0.49
33:D8:51:ALA:N	33:D8:53:PRO:HD2	2.27	0.49
35:DA:598:G:C4'	48:DP:15:ARG:HB3	2.42	0.49
35:DA:1411:C:H2'	35:DA:1412:A:H8	1.76	0.49
35:DA:1427:A:H1'	35:DA:1428:C:C5	2.47	0.49
35:DA:1675:C:C2	39:DE:129:HIS:CD2	2.99	0.49
35:DA:2636:U:H4'	39:DE:80:GLU:CD	2.38	0.49
36:DB:70:C:O2'	36:DB:71:C:H5'	2.13	0.49
38:DD:105:ILE:O	38:DD:106:ILE:C	2.56	0.49
39:DE:11:MET:HB2	39:DE:23:VAL:O	2.12	0.49
39:DE:30:PRO:O	39:DE:32:PRO:HD3	2.12	0.49
39:DE:134:ILE:H	39:DE:134:ILE:CD1	2.26	0.49
42:DH:115:VAL:HG12	42:DH:116:GLU:N	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DI:96:ASP:O	59:DI:97:ILE:C	2.54	0.49
44:DJ:27:UNK:O	44:DJ:83:UNK:N	2.46	0.49
46:DN:9:VAL:CG1	46:DN:10:GLU:N	2.75	0.49
48:DP:62:LEU:N	48:DP:62:LEU:HD22	2.25	0.49
1:AA:414:A:H2'	1:AA:415:A:O4'	2.12	0.49
1:AA:519:C:O2'	1:AA:520:A:H5'	2.12	0.49
1:AA:537:G:OP1	12:AL:113:ARG:NH2	2.45	0.49
1:AA:541:G:O2'	1:AA:542:G:H5'	2.13	0.49
1:AA:973:G:H1'	10:AJ:55:LYS:HE2	1.94	0.49
1:AA:1067:A:H1'	1:AA:1068:G:C8	2.47	0.49
1:AA:1112:C:C4	3:AC:178:LEU:HD23	2.48	0.49
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.93	0.49
8:AH:10:LEU:HB3	8:AH:83:ILE:CD1	2.43	0.49
11:AK:21:ILE:HD13	11:AK:84:VAL:HG12	1.93	0.49
13:AM:68:GLY:O	13:AM:72:ALA:N	2.44	0.49
15:AO:64:ARG:NH2	35:BA:715:G:OP1	2.45	0.49
17:AQ:61:GLU:HA	17:AQ:71:PHE:CE1	2.48	0.49
18:AR:74:ARG:HB3	18:AR:81:PHE:CE1	2.47	0.49
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	1.94	0.49
33:B8:13:ARG:HA	48:BP:65:ARG:HD3	1.95	0.49
35:BA:78:A:H2'	35:BA:79:G:H8	1.77	0.49
35:BA:90:U:O2'	35:BA:92:A:H5"	2.12	0.49
35:BA:626:U:C2	48:BP:105:LEU:HB3	2.47	0.49
35:BA:654(C):G:H2'	35:BA:654(D):G:H8	1.77	0.49
35:BA:1427:A:H1'	35:BA:1428:C:C5	2.47	0.49
35:BA:1568:G:C5'	38:BD:61:LEU:HD13	2.34	0.49
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.13	0.49
35:BA:2468:G:N2	35:BA:2481:G:O2'	2.45	0.49
35:BA:2832:U:O4	35:BA:2883:A:H5"	2.12	0.49
37:BC:59:ARG:HG2	37:BC:62:VAL:HG21	1.94	0.49
37:BC:154:ARG:C	37:BC:156:ILE:H	2.20	0.49
38:BD:33:LEU:O	38:BD:35:LYS:N	2.46	0.49
40:BF:30:PRO:HA	40:BF:33:LEU:HD23	1.95	0.49
43:BI:93:THR:N	43:BI:96:ASP:OD2	2.46	0.49
45:BK:73:PRO:C	45:BK:75:SER:N	2.69	0.49
48:BP:134:ALA:O	48:BP:136:GLU:N	2.45	0.49
50:BR:18:LEU:CD1	50:BR:22:ARG:NE	2.75	0.49
51:BS:59:LYS:HZ2	51:BS:68:GLN:HE22	1.61	0.49
52:BT:132:LYS:C	52:BT:134:GLU:H	2.20	0.49
53:BU:102:GLU:HA	53:BU:104:GLN:HE22	1.77	0.49
56:BX:32:PRO:HA	56:BX:77:LYS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:60:PHE:CA	57:BY:62:GLU:OE2	2.52	0.49
1:CA:79:G:H1'	1:CA:80:G:C8	2.44	0.49
1:CA:474:G:H2'	1:CA:475:G:H8	1.77	0.49
1:CA:628:G:H2'	1:CA:629:G:C8	2.46	0.49
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.48	0.49
2:CB:168:THR:HG23	2:CB:192:SER:CB	2.43	0.49
4:CD:122:ARG:HA	4:CD:134:ASP:HB2	1.93	0.49
6:CF:11:ASN:HD22	6:CF:86:ARG:NH2	2.10	0.49
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.80	0.49
13:CM:96:LEU:HB3	13:CM:97:PRO:CD	2.43	0.49
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.95	0.49
19:CS:13:ASP:C	19:CS:15:LEU:H	2.20	0.49
19:CS:43:GLU:OE1	19:CS:43:GLU:C	2.56	0.49
20:CT:49:ALA:HB2	20:CT:99:LEU:HD12	1.95	0.49
20:CT:81:LYS:C	20:CT:83:ARG:H	2.21	0.49
20:CT:104:LEU:HD23	20:CT:105:SER:C	2.37	0.49
22:CW:70:G:H2'	22:CW:71:G:H5'	1.94	0.49
24:CY:245:THR:HA	35:DA:2493:U:OP1	2.11	0.49
27:D2:57:ILE:HG22	27:D2:61:LEU:HD21	1.94	0.49
35:DA:110:G:O2'	35:DA:111:A:H5'	2.13	0.49
35:DA:534:U:O2'	53:DU:49:HIS:CD2	2.65	0.49
35:DA:654(R):C:H2'	35:DA:654(S):G:C8	2.47	0.49
35:DA:986:C:O2'	35:DA:987:G:H5'	2.12	0.49
35:DA:1171:G:C5'	35:DA:1173:G:H5"	2.42	0.49
35:DA:1812:A:H2'	35:DA:1813:G:C8	2.45	0.49
35:DA:2432:A:H2'	35:DA:2433:A:C8	2.48	0.49
35:DA:2533:A:H2'	35:DA:2534:A:C5'	2.35	0.49
35:DA:2878:U:C2'	35:DA:2879:C:H5'	2.43	0.49
36:DB:87:G:N2	36:DB:89:G:H3'	2.27	0.49
40:DF:8:GLN:O	40:DF:9:ILE:C	2.55	0.49
42:DH:120:GLY:HA3	42:DH:140:LYS:NZ	2.27	0.49
59:DI:101:LEU:HD13	59:DI:107:ILE:HG23	1.95	0.49
47:DO:64:ARG:NH1	47:DO:83:ALA:HB3	2.28	0.49
52:DT:55:ASN:H	52:DT:59:THR:HB	1.77	0.49
58:DZ:24:LEU:CD2	58:DZ:86:VAL:HG22	2.38	0.49
1:AA:79:G:H1'	1:AA:80:G:C8	2.44	0.49
1:AA:148:G:H2'	1:AA:149:A:C8	2.47	0.49
1:AA:169:C:H2'	1:AA:170:U:H5'	1.95	0.49
1:AA:506:G:H2'	1:AA:507:C:C6	2.48	0.49
1:AA:791:G:C6	1:AA:792:A:N7	2.79	0.49
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1530:G:OP1	1:AA:1530:G:H4'	2.12	0.49
2:AB:51:LEU:HD22	2:AB:55:PHE:HE2	1.78	0.49
3:AC:183:ASP:HB3	3:AC:202:ILE:HB	1.95	0.49
9:AI:46:ALA:HB2	9:AI:74:ILE:HG23	1.93	0.49
9:AI:81:ILE:O	9:AI:85:LEU:HG	2.12	0.49
10:AJ:4:ILE:HD12	10:AJ:74:ILE:HD11	1.95	0.49
18:AR:48:GLY:O	18:AR:74:ARG:NH2	2.46	0.49
19:AS:11:VAL:CG2	19:AS:16:LEU:HD11	2.42	0.49
22:AV:24:G:O2'	22:AV:25:C:H5'	2.13	0.49
24:AY:88:LYS:C	24:AY:90:GLU:N	2.71	0.49
26:B1:51:VAL:HG13	26:B1:58:ILE:HG22	1.94	0.49
28:B3:37:LEU:C	28:B3:38:GLU:O	2.53	0.49
30:B5:36:CYS:SG	30:B5:49:CYS:CB	3.00	0.49
33:B8:4:MET:HB2	33:B8:61:LEU:HD11	1.92	0.49
35:BA:27:G:O2'	35:BA:28:A:P	2.70	0.49
35:BA:290:G:O2'	35:BA:291:C:H5'	2.12	0.49
35:BA:582:G:H2'	35:BA:583:G:H8	1.76	0.49
35:BA:588:U:H2'	35:BA:589:C:C6	2.47	0.49
35:BA:1259:G:O2'	35:BA:1260:G:H5'	2.13	0.49
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.30	0.49
35:BA:1424:G:H2'	35:BA:1425:G:O4'	2.12	0.49
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.47	0.49
35:BA:2777:G:H4'	35:BA:2778:A:H5'	1.94	0.49
35:BA:2810:A:H2'	39:BE:61:ARG:CZ	2.42	0.49
39:BE:76:ARG:O	39:BE:77:ILE:C	2.55	0.49
40:BF:7:TYR:HD2	40:BF:16:GLY:N	2.05	0.49
41:BG:4:ASP:O	41:BG:5:VAL:HG13	2.13	0.49
41:BG:55:LYS:C	41:BG:57:ALA:H	2.20	0.49
42:BH:60:ARG:O	42:BH:64:LEU:HG	2.12	0.49
42:BH:106:THR:C	42:BH:107:VAL:HG13	2.38	0.49
43:BI:37:VAL:HG12	43:BI:38:LEU:N	2.27	0.49
48:BP:23:PRO:CB	48:BP:33:ARG:HG3	2.36	0.49
48:BP:95:VAL:HG23	48:BP:125:VAL:HG23	1.95	0.49
49:BQ:47:ILE:HD12	49:BQ:70:PRO:HD3	1.95	0.49
52:BT:118:ARG:H	52:BT:118:ARG:HD2	1.77	0.49
53:BU:16:LYS:O	53:BU:20:LEU:HD22	2.12	0.49
58:BZ:150:LEU:H	58:BZ:150:LEU:CD1	2.25	0.49
1:CA:355:C:H2'	1:CA:356:A:C8	2.28	0.49
1:CA:443:C:H2'	1:CA:444:C:C6	2.47	0.49
1:CA:614:A:C2	1:CA:627:G:C2	3.00	0.49
1:CA:779:C:O2'	1:CA:780:A:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1201:A:H1'	1:CA:1202:G:OP2	2.12	0.49
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.48	0.49
3:CC:28:GLN:O	3:CC:29:TYR:C	2.53	0.49
3:CC:164:ARG:HH11	3:CC:164:ARG:HB3	1.78	0.49
4:CD:68:TYR:CZ	4:CD:97:LEU:HD22	2.47	0.49
4:CD:107:ARG:NH2	4:CD:194:LEU:HD12	2.28	0.49
6:CF:30:LEU:HD23	6:CF:30:LEU:N	2.26	0.49
8:CH:82:HIS:HD2	8:CH:138:TRP:NE1	2.11	0.49
12:CL:125:PRO:HB2	12:CL:127:GLU:CD	2.38	0.49
13:CM:65:LYS:HB2	13:CM:65:LYS:NZ	2.27	0.49
15:CO:23:GLY:O	15:CO:24:SER:CB	2.60	0.49
22:CV:37:A:H3'	22:CV:38:A:H8	1.77	0.49
22:CW:57:G:H2'	22:CW:57:G:N3	2.28	0.49
24:CY:33:LEU:HB3	24:CY:36:PRO:HD3	1.95	0.49
24:CY:116:ALA:HB2	24:CY:177:TYR:HA	1.94	0.49
31:D6:29:ASN:O	31:D6:30:THR:C	2.55	0.49
31:D6:48:VAL:O	31:D6:49:HIS:HB2	2.11	0.49
35:DA:90:U:O2'	35:DA:92:A:H5"	2.12	0.49
35:DA:286:C:N4	35:DA:355:G:H1	2.07	0.49
35:DA:469:G:O2'	35:DA:470:A:H5"	2.12	0.49
35:DA:796:C:H2'	35:DA:797:C:H6	1.77	0.49
35:DA:1161:C:H1'	54:DV:8:GLY:O	2.13	0.49
35:DA:1665:A:O2'	35:DA:1666:G:H5'	2.12	0.49
35:DA:2009:G:H5'	55:DW:40:ASN:ND2	2.27	0.49
35:DA:2094:G:P	59:DI:22:LYS:HD2	2.53	0.49
38:DD:31:LYS:HG3	38:DD:33:LEU:CG	2.42	0.49
39:DE:87:GLU:O	39:DE:88:GLY:C	2.56	0.49
40:DF:117:ARG:HG2	40:DF:192:LEU:HB2	1.95	0.49
48:DP:50:ARG:HD3	48:DP:51:PHE:N	2.27	0.49
52:DT:31:SER:OG	52:DT:32:TYR:N	2.45	0.49
53:DU:16:LYS:O	53:DU:20:LEU:HD22	2.12	0.49
57:DY:10:GLY:O	57:DY:27:VAL:HG22	2.12	0.49
57:DY:29:GLU:N	57:DY:29:GLU:CD	2.70	0.49
58:DZ:117:LEU:HD23	58:DZ:117:LEU:N	2.21	0.49
1:AA:262:A:H5"	20:AT:76:ALA:HB2	1.94	0.49
1:AA:349:A:O2'	1:AA:350:G:H5'	2.12	0.49
1:AA:410:G:OP2	4:AD:25:ARG:HG3	2.12	0.49
1:AA:443:C:H2'	1:AA:444:C:C6	2.47	0.49
1:AA:1033:G:H5"	35:DA:2116:G:OP2	2.12	0.49
1:AA:1111:A:N1	3:AC:177:THR:HG23	2.27	0.49
4:AD:4:TYR:CG	4:AD:5:ILE:N	2.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:102:ARG:O	7:AG:106:GLN:HG3	2.13	0.49
13:AM:35:GLU:HG3	13:AM:36:LYS:H	1.75	0.49
20:AT:81:LYS:C	20:AT:83:ARG:H	2.21	0.49
20:AT:92:LEU:C	20:AT:94:ALA:H	2.21	0.49
22:AW:64:A:O2'	22:AW:65:G:H8	1.96	0.49
24:AY:100:GLU:C	24:AY:102:TYR:H	2.21	0.49
27:B2:40:SER:C	27:B2:42:GLY:H	2.19	0.49
27:B2:48:HIS:ND1	35:BA:95:G:O2'	2.44	0.49
33:B8:14:VAL:CG2	33:B8:22:VAL:CG1	2.91	0.49
35:BA:137:C:H2'	35:BA:137:C:O2	2.12	0.49
35:BA:476:G:H4'	35:BA:502:A:N1	2.27	0.49
35:BA:941:A:O3'	48:BP:35:HIS:HB2	2.13	0.49
35:BA:2075:U:H2'	35:BA:2238:G:N2	2.28	0.49
35:BA:2183:C:H2'	35:BA:2184:G:C8	2.48	0.49
35:BA:2575:C:H2'	35:BA:2578:G:O6	2.12	0.49
35:BA:2581:G:H2'	35:BA:2581:G:N3	2.28	0.49
38:BD:237:GLU:OE2	38:BD:237:GLU:O	2.31	0.49
40:BF:7:TYR:CB	40:BF:16:GLY:C	2.86	0.49
40:BF:157:VAL:HB	40:BF:194:MET:HB3	1.95	0.49
42:BH:97:ARG:C	42:BH:125:VAL:HG21	2.38	0.49
42:BH:114:VAL:HG23	42:BH:115:VAL:N	2.27	0.49
50:BR:103:ARG:HB2	50:BR:109:ALA:C	2.38	0.49
54:BV:15:GLU:O	54:BV:16:PRO:C	2.56	0.49
57:BY:88:LYS:HZ3	57:BY:93:GLY:C	2.21	0.49
57:BY:97:ARG:HG3	57:BY:97:ARG:NH1	2.26	0.49
1:CA:499:A:H4'	1:CA:500:G:H5'	1.95	0.49
1:CA:516:U:O2'	1:CA:517:G:H5'	2.12	0.49
1:CA:541:G:O2'	1:CA:542:G:H5'	2.12	0.49
1:CA:1306:A:N6	1:CA:1331:G:H1'	2.27	0.49
2:CB:235:SER:O	2:CB:239:VAL:HG23	2.12	0.49
6:CF:98:LEU:HD13	6:CF:101:ALA:CB	2.42	0.49
10:CJ:32:ALA:H	10:CJ:78:ASN:HD21	1.57	0.49
11:CK:120:ARG:CZ	11:CK:126:ARG:HE	2.26	0.49
18:CR:48:GLY:O	18:CR:74:ARG:NH2	2.45	0.49
22:CW:8:U:H1'	22:CW:48:C:O2	2.13	0.49
26:D1:86:SER:HA	26:D1:89:GLU:CD	2.37	0.49
31:D6:32:ASN:O	31:D6:33:LYS:HG2	2.13	0.49
32:D7:35:ARG:NH1	32:D7:42:LEU:HD11	2.27	0.49
33:D8:14:VAL:CG2	33:D8:22:VAL:CG1	2.90	0.49
35:DA:498:G:O2'	35:DA:499:U:H5'	2.12	0.49
35:DA:633:A:H2'	35:DA:634:C:H5'	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:646:A:H2'	35:DA:647:G:O4'	2.12	0.49
35:DA:2200:C:H5'	35:DA:2201:C:OP2	2.12	0.49
35:DA:2317:C:C2'	35:DA:2318:G:H5'	2.43	0.49
37:DC:59:ARG:HG2	37:DC:62:VAL:HG21	1.94	0.49
37:DC:74:VAL:HG22	37:DC:119:VAL:CB	2.42	0.49
38:DD:31:LYS:HG3	38:DD:33:LEU:CD2	2.42	0.49
38:DD:147:LEU:HD13	38:DD:155:LEU:HD11	1.94	0.49
39:DE:63:LEU:O	39:DE:64:LYS:C	2.56	0.49
40:DF:65:TRP:CZ3	40:DF:73:ALA:O	2.66	0.49
40:DF:65:TRP:CH2	40:DF:75:HIS:HD2	2.30	0.49
41:DG:10:LYS:O	41:DG:14:GLU:HB3	2.12	0.49
42:DH:31:GLY:H	42:DH:79:VAL:HG12	1.77	0.49
59:DI:53:ALA:O	59:DI:57:ARG:HG3	2.12	0.49
49:DQ:60:ARG:HH11	49:DQ:60:ARG:CB	2.26	0.49
52:DT:132:LYS:C	52:DT:134:GLU:H	2.21	0.49
53:DU:28:ARG:NH1	53:DU:38:THR:OG1	2.44	0.49
54:DV:6:LYS:HG2	54:DV:37:VAL:CB	2.41	0.49
54:DV:39:LEU:CD1	54:DV:51:VAL:HA	2.42	0.49
55:DW:110:LYS:HG3	55:DW:111:HIS:H	1.78	0.49
1:AA:166:G:H2'	1:AA:167:G:H8	1.78	0.49
1:AA:591:U:H2'	1:AA:592:G:C8	2.44	0.49
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.28	0.49
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.78	0.49
2:AB:82:ARG:HB3	2:AB:94:ASN:HD21	1.77	0.49
2:AB:98:LEU:O	2:AB:101:MET:HG3	2.12	0.49
3:AC:119:ARG:HE	3:AC:140:ARG:NH2	2.11	0.49
7:AG:15:ASP:CB	7:AG:20:ASP:H	2.26	0.49
8:AH:119:LEU:N	8:AH:119:LEU:HD23	2.28	0.49
17:AQ:34:LYS:O	17:AQ:36:ILE:HG23	2.12	0.49
17:AQ:43:LEU:O	17:AQ:69:LYS:HG3	2.12	0.49
24:AY:99:ASP:OD2	24:AY:103:HIS:ND1	2.46	0.49
25:B0:50:ASN:HB3	25:B0:63:VAL:HG22	1.94	0.49
26:B1:29:GLY:C	26:B1:30:VAL:HG22	2.38	0.49
27:B2:6:VAL:O	27:B2:7:ARG:C	2.56	0.49
35:BA:69:C:H2'	35:BA:69:C:O2	2.12	0.49
35:BA:229:A:H3'	35:BA:230:U:C5'	2.43	0.49
35:BA:654:A:N1	35:BA:654(U):A:O2'	2.46	0.49
35:BA:995:C:C5	53:BU:57:PHE:HE1	2.31	0.49
35:BA:1208:C:O2'	35:BA:1209:G:H5'	2.12	0.49
35:BA:1797:C:O2'	38:BD:259:THR:CG2	2.61	0.49
35:BA:2313:C:H2'	35:BA:2314:C:H6	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2483:C:N3	49:BQ:124:LYS:NZ	2.59	0.49
36:BB:30:C:H2'	36:BB:31:C:O4'	2.13	0.49
37:BC:82:LYS:CE	37:BC:151:GLU:HA	2.34	0.49
38:BD:62:TYR:CD2	38:BD:63:ARG:N	2.79	0.49
39:BE:108:SER:OG	39:BE:163:GLU:HG2	2.13	0.49
40:BF:22:ALA:HA	40:BF:26:ALA:CB	2.36	0.49
40:BF:24:LEU:O	40:BF:26:ALA:N	2.46	0.49
40:BF:33:LEU:HD22	40:BF:112:MET:HE2	1.95	0.49
40:BF:64:ILE:HG12	40:BF:65:TRP:CD1	2.48	0.49
40:BF:140:LEU:CD1	40:BF:170:LEU:HD21	2.42	0.49
43:BI:4:ILE:HG22	43:BI:5:LEU:N	2.26	0.49
46:BN:96:GLU:OE2	46:BN:96:GLU:N	2.29	0.49
48:BP:146:VAL:HG22	48:BP:147:LEU:N	2.28	0.49
58:BZ:80:ARG:O	58:BZ:81:ARG:C	2.56	0.49
1:CA:59:A:N6	1:CA:331:G:H1'	2.26	0.49
1:CA:439:A:H2'	1:CA:441:A:O4'	2.13	0.49
1:CA:696:A:O2'	1:CA:697:U:H5'	2.12	0.49
1:CA:1019:C:H2'	1:CA:1020:U:H6	1.78	0.49
1:CA:1337:G:H5"	1:CA:1338:G:OP1	2.12	0.49
1:CA:1387:G:H2'	1:CA:1387:G:N3	2.27	0.49
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.66	0.49
3:CC:16:ARG:HH22	3:CC:183:ASP:HA	1.78	0.49
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.12	0.49
5:CE:32:VAL:O	5:CE:43:LEU:HD12	2.13	0.49
5:CE:148:VAL:HG21	8:CH:107:LEU:HD13	1.94	0.49
7:CG:17:VAL:HG21	7:CG:44:TYR:CE1	2.47	0.49
8:CH:38:ILE:HD11	8:CH:118:VAL:O	2.13	0.49
10:CJ:90:LEU:HD12	10:CJ:90:LEU:N	2.28	0.49
14:CN:27:CYS:SG	14:CN:29:ARG:HB2	2.52	0.49
16:CP:75:ARG:C	16:CP:77:ALA:N	2.70	0.49
24:CY:250:ARG:HB2	24:CY:261:THR:HG22	1.95	0.49
29:D4:40:ILE:N	29:D4:40:ILE:HD12	2.28	0.49
31:D6:16:CYS:O	31:D6:17:LYS:CB	2.59	0.49
31:D6:19:ARG:HG3	35:DA:2400:G:H4'	1.94	0.49
35:DA:582:G:H2'	35:DA:583:G:C8	2.48	0.49
35:DA:588:U:H2'	35:DA:589:C:C6	2.48	0.49
35:DA:654(C):G:H2'	35:DA:654(D):G:C8	2.47	0.49
35:DA:809:G:O2'	35:DA:810:U:H5'	2.13	0.49
37:DC:67:GLY:HA2	37:DC:162:GLU:O	2.13	0.49
37:DC:154:ARG:C	37:DC:156:ILE:H	2.19	0.49
38:DD:25:THR:HG21	38:DD:81:ALA:CA	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:183:ARG:HB3	38:DD:270:ILE:HG22	1.93	0.49
39:DE:81:ILE:O	39:DE:81:ILE:HG22	2.12	0.49
40:DF:24:LEU:C	40:DF:26:ALA:N	2.67	0.49
40:DF:53:THR:C	40:DF:55:GLY:N	2.66	0.49
59:DI:8:PRO:O	59:DI:13:GLY:HA2	2.13	0.49
59:DI:12:LEU:HD12	59:DI:19:VAL:HG21	1.94	0.49
59:DI:52:ARG:O	59:DI:53:ALA:C	2.56	0.49
45:DK:14:ALA:C	45:DK:45:THR:HG21	2.37	0.49
46:DN:31:ALA:O	46:DN:34:LEU:N	2.46	0.49
48:DP:24:GLY:N	48:DP:33:ARG:NH1	2.61	0.49
49:DQ:25:ASP:OD2	49:DQ:25:ASP:N	2.40	0.49
52:DT:88:ILE:HG22	52:DT:89:VAL:CG2	2.25	0.49
52:DT:100:TYR:O	52:DT:102:ILE:N	2.46	0.49
55:DW:68:ARG:HH11	55:DW:68:ARG:HG3	1.78	0.49
57:DY:96:ILE:CG2	57:DY:97:ARG:N	2.74	0.49
58:DZ:48:PHE:HE2	58:DZ:71:VAL:HG11	1.77	0.49
1:AA:22:G:H2'	1:AA:23:C:H6	1.77	0.49
1:AA:35:G:H2'	1:AA:36:C:C6	2.48	0.49
1:AA:59:A:H1'	1:AA:354:G:N2	2.28	0.49
1:AA:102:G:H2'	1:AA:103:C:H6	1.78	0.49
1:AA:424:G:N7	35:DA:2139:C:H5"	2.26	0.49
1:AA:474:G:H2'	1:AA:475:G:H8	1.76	0.49
1:AA:596:C:O2'	1:AA:597:G:H5'	2.13	0.49
1:AA:598:U:H4'	8:AH:94:TYR:CG	2.48	0.49
1:AA:639:G:H2'	1:AA:640:A:H8	1.76	0.49
1:AA:674:G:H21	11:AK:116:HIS:HB2	1.77	0.49
1:AA:677:U:H3	1:AA:713:G:H22	1.61	0.49
1:AA:939:G:C5'	7:AG:102:ARG:HH22	2.21	0.49
1:AA:959:A:H2'	1:AA:960:U:H4'	1.95	0.49
1:AA:1387:G:H2'	1:AA:1387:G:N3	2.27	0.49
2:AB:102:LEU:HB2	2:AB:176:GLU:HB3	1.94	0.49
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.95	0.49
4:AD:54:TYR:O	4:AD:55:ALA:C	2.56	0.49
4:AD:79:PHE:C	4:AD:79:PHE:CD2	2.91	0.49
8:AH:82:HIS:CD2	8:AH:138:TRP:HE1	2.29	0.49
9:AI:85:LEU:HD12	9:AI:86:VAL:N	2.28	0.49
9:AI:97:LYS:O	9:AI:100:GLY:N	2.44	0.49
10:AJ:21:GLN:HG2	10:AJ:21:GLN:O	2.13	0.49
10:AJ:48:THR:OG1	10:AJ:62:HIS:HB3	2.13	0.49
10:AJ:98:ILE:HD12	10:AJ:98:ILE:N	2.26	0.49
13:AM:82:MET:O	13:AM:83:ASP:C	2.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:10:LYS:HE3	15:AO:14:GLU:OE2	2.13	0.49
16:AP:58:TYR:O	16:AP:61:SER:N	2.45	0.49
17:AQ:52:LYS:HD2	17:AQ:55:ASP:OD2	2.12	0.49
17:AQ:76:LEU:CG	17:AQ:77:VAL:H	2.25	0.49
35:BA:498:G:O2'	35:BA:499:U:H5'	2.11	0.49
35:BA:654(L):G:H3'	35:BA:654(L):G:N3	2.27	0.49
35:BA:807:U:O2'	35:BA:808:G:H5'	2.13	0.49
35:BA:2308:G:N2	41:BG:79:ASN:CG	2.71	0.49
35:BA:2383:G:O2'	35:BA:2384:G:H5'	2.12	0.49
38:BD:185:VAL:HG12	38:BD:189:CYS:SG	2.53	0.49
39:BE:182:LEU:HD12	39:BE:182:LEU:C	2.38	0.49
41:BG:7:LEU:O	41:BG:8:LYS:C	2.56	0.49
46:BN:40:PRO:C	46:BN:42:TRP:H	2.19	0.49
58:BZ:71:VAL:HG22	58:BZ:88:PHE:HD2	1.77	0.49
58:BZ:116:VAL:O	58:BZ:174:VAL:HA	2.13	0.49
1:CA:79:G:O2'	1:CA:80:G:O5'	2.31	0.49
1:CA:157:G:O2'	1:CA:158:G:H5'	2.13	0.49
1:CA:1288:A:H1'	1:CA:1352:C:O2'	2.13	0.49
1:CA:1307:U:O2'	1:CA:1308:U:H5'	2.13	0.49
5:CE:139:LEU:C	5:CE:141:GLN:N	2.70	0.49
9:CI:18:PHE:HB2	9:CI:62:TYR:O	2.13	0.49
9:CI:114:TYR:CE1	10:CJ:60:ARG:N	2.71	0.49
9:CI:121:ARG:HG2	9:CI:121:ARG:NH1	2.28	0.49
10:CJ:32:ALA:H	10:CJ:78:ASN:CG	2.21	0.49
11:CK:111:ASP:OD2	18:CR:84:LYS:HE3	2.13	0.49
11:CK:123:LYS:HA	11:CK:126:ARG:HD3	1.94	0.49
20:CT:74:LYS:C	20:CT:76:ALA:N	2.63	0.49
20:CT:104:LEU:HD23	20:CT:104:LEU:C	2.38	0.49
33:D8:14:VAL:HG22	33:D8:22:VAL:HG13	1.95	0.49
35:DA:271(J):C:C2'	35:DA:271(K):U:H5"	2.43	0.49
35:DA:301:G:C4	35:DA:302:C:C5	3.01	0.49
35:DA:747:U:O2	35:DA:2014:A:H1'	2.12	0.49
35:DA:919:G:H5'	36:DB:81:G:C1'	2.43	0.49
35:DA:1411:C:H2'	35:DA:1412:A:C8	2.48	0.49
35:DA:1766:U:O2'	35:DA:1767:C:H5'	2.13	0.49
35:DA:1912:A:O2'	35:DA:1913:A:H5'	2.11	0.49
35:DA:2354:G:H2'	35:DA:2355:C:H6	1.77	0.49
35:DA:2379:G:H2'	35:DA:2380:C:C6	2.48	0.49
35:DA:2445:G:OP1	40:DF:74:ARG:NH2	2.45	0.49
37:DC:170:ALA:O	37:DC:171:ILE:C	2.55	0.49
45:DK:105:LEU:O	45:DK:109:LYS:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:125:ARG:C	45:DK:127:ILE:N	2.71	0.49
47:DO:43:VAL:HG23	47:DO:56:ASP:O	2.13	0.49
50:DR:2:ARG:CZ	50:DR:5:LYS:NZ	2.76	0.49
52:DT:54:ARG:HG2	52:DT:54:ARG:NH1	2.28	0.49
57:DY:7:VAL:CG2	57:DY:8:LYS:HZ3	2.23	0.49
58:DZ:52:SER:HB3	58:DZ:54:HIS:CD2	2.48	0.49
1:AA:627:G:O2'	1:AA:628:G:H5'	2.13	0.48
1:AA:1189:C:P	10:AJ:51:ARG:HH22	2.35	0.48
1:AA:1477:C:H2'	1:AA:1478:C:C6	2.47	0.48
2:AB:220:ASP:O	2:AB:222:ILE:N	2.44	0.48
3:AC:6:HIS:HB2	14:AN:49:HIS:HD2	1.78	0.48
3:AC:33:LEU:HD11	14:AN:53:LEU:HD23	1.95	0.48
3:AC:57:ILE:HA	3:AC:65:ALA:HB3	1.95	0.48
4:AD:14:ARG:O	4:AD:16:GLY:N	2.46	0.48
9:AI:4:TYR:N	9:AI:4:TYR:CD1	2.81	0.48
12:AL:81:SER:O	12:AL:106:ASP:HB2	2.12	0.48
14:AN:36:PHE:HD1	14:AN:37:PHE:CD2	2.31	0.48
14:AN:41:ARG:HH11	14:AN:41:ARG:HG2	1.78	0.48
16:AP:6:LEU:N	16:AP:6:LEU:CD1	2.76	0.48
17:AQ:11:VAL:O	17:AQ:12:SER:HB2	2.13	0.48
20:AT:104:LEU:HD23	20:AT:105:SER:C	2.38	0.48
22:AW:61:C:C6	22:AW:62:C:H5	2.30	0.48
24:AY:143:PHE:HA	24:AY:146:ARG:HD2	1.95	0.48
24:AY:149:PHE:HD1	24:AY:173:GLY:HA3	1.78	0.48
24:AY:249:VAL:CG2	24:AY:250:ARG:H	2.22	0.48
31:B6:28:ARG:NH2	31:B6:33:LYS:HE3	2.28	0.48
35:BA:286:C:N4	35:BA:355:G:H1	2.07	0.48
35:BA:654(C):G:H2'	35:BA:654(D):G:C8	2.48	0.48
35:BA:654(R):C:H2'	35:BA:654(S):G:C8	2.48	0.48
35:BA:858:U:O2	35:BA:2268:A:H2'	2.12	0.48
35:BA:910:A:C6	35:BA:911:A:C6	3.00	0.48
35:BA:914:C:C2'	35:BA:915:C:H5'	2.37	0.48
35:BA:1053:C:H42	35:BA:1107:G:N2	2.11	0.48
35:BA:1171:G:H3'	35:BA:1173:G:C4'	2.42	0.48
35:BA:1316:U:H2'	35:BA:1317:A:H8	1.77	0.48
35:BA:1666:G:O2'	35:BA:1667:G:H5'	2.13	0.48
35:BA:2138:C:H1'	35:BA:2154:G:H22	1.76	0.48
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.48	0.48
35:BA:2261:C:O2'	35:BA:2262:U:H5'	2.12	0.48
35:BA:2277:G:H2'	35:BA:2278:A:H5'	1.95	0.48
40:BF:65:TRP:CH2	40:BF:75:HIS:HD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:19:VAL:CG2	42:BH:44:VAL:HG13	2.43	0.48
46:BN:43:THR:O	46:BN:46:VAL:HG12	2.13	0.48
52:BT:11:GLU:CD	52:BT:11:GLU:N	2.71	0.48
53:BU:106:PHE:O	53:BU:110:VAL:HG23	2.12	0.48
54:BV:28:GLU:HB2	54:BV:31:ALA:CB	2.43	0.48
55:BW:1:MET:HE3	55:BW:2:GLU:H	1.78	0.48
56:BX:9:LEU:HD12	56:BX:30:VAL:O	2.13	0.48
56:BX:26:TYR:CE2	56:BX:89:ILE:HB	2.48	0.48
58:BZ:8:TYR:O	58:BZ:37:VAL:HA	2.13	0.48
1:CA:376:G:H2'	1:CA:377:G:H8	1.77	0.48
1:CA:624:C:H4'	16:CP:10:GLY:O	2.13	0.48
1:CA:629:G:H2'	1:CA:630:G:C8	2.47	0.48
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.12	0.48
2:CB:9:GLU:HG3	2:CB:10:LEU:N	2.28	0.48
2:CB:16:HIS:HD2	2:CB:210:SER:HA	1.78	0.48
2:CB:41:ILE:HD12	2:CB:41:ILE:N	2.28	0.48
4:CD:52:SER:C	4:CD:54:TYR:N	2.69	0.48
4:CD:120:LEU:HD23	4:CD:125:HIS:HD2	1.78	0.48
8:CH:30:ARG:NH1	8:CH:30:ARG:CB	2.76	0.48
10:CJ:3:LYS:CB	10:CJ:77:PRO:HD3	2.43	0.48
13:CM:7:VAL:O	13:CM:7:VAL:HG12	2.13	0.48
14:CN:21:TYR:OH	14:CN:23:ARG:NH2	2.46	0.48
16:CP:51:VAL:CG1	16:CP:52:ASP:N	2.75	0.48
16:CP:65:GLN:HG2	16:CP:65:GLN:O	2.13	0.48
17:CQ:29:HIS:N	17:CQ:33:GLY:O	2.42	0.48
17:CQ:34:LYS:O	17:CQ:36:ILE:HG23	2.13	0.48
22:CW:43:C:C2'	22:CW:44:G:H5'	2.43	0.48
26:D1:80:LEU:HD13	26:D1:82:LEU:HD21	1.94	0.48
26:D1:88:LYS:HE2	26:D1:88:LYS:C	2.38	0.48
28:D3:52:HIS:CD2	28:D3:52:HIS:H	2.30	0.48
30:D5:49:CYS:O	30:D5:50:GLY:C	2.56	0.48
35:DA:610:G:H2'	35:DA:611:C:C6	2.48	0.48
35:DA:631:A:H2'	35:DA:632:A:O4'	2.12	0.48
35:DA:977:G:O2'	35:DA:978:G:H5'	2.12	0.48
35:DA:1053:C:H42	35:DA:1107:G:N2	2.10	0.48
35:DA:1116:C:H2'	35:DA:1117:G:C5'	2.33	0.48
35:DA:1999:C:H5"	35:DA:2723:C:O2'	2.13	0.48
35:DA:2528:U:H2'	35:DA:2530:A:O5'	2.13	0.48
35:DA:2617:C:H2'	35:DA:2618:G:H5'	1.95	0.48
35:DA:2810:A:H2'	39:DE:61:ARG:CZ	2.42	0.48
38:DD:27:THR:HG21	38:DD:83:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:36:ARG:NH1	39:DE:86:PRO:HD2	2.25	0.48
40:DF:21:ALA:C	40:DF:23:ASP:N	2.69	0.48
40:DF:30:PRO:HA	40:DF:33:LEU:HD23	1.95	0.48
41:DG:51:ARG:NH2	41:DG:52:ILE:H	2.10	0.48
47:DO:1:MET:HB2	47:DO:32:TYR:HB3	1.93	0.48
48:DP:14:LYS:O	48:DP:15:ARG:CB	2.61	0.48
49:DQ:26:TYR:HD1	49:DQ:26:TYR:O	1.96	0.48
49:DQ:79:LEU:HD23	49:DQ:80:GLU:H	1.78	0.48
51:DS:42:ASP:C	51:DS:44:LYS:N	2.69	0.48
52:DT:41:ARG:HB3	52:DT:41:ARG:NH1	2.28	0.48
52:DT:129:ARG:NE	52:DT:131:ALA:HB3	2.26	0.48
53:DU:55:ARG:HA	53:DU:58:ARG:HG3	1.94	0.48
56:DX:70:LEU:HD23	56:DX:71:GLY:N	2.28	0.48
1:AA:9:G:H5”	5:AE:122:GLU:OE2	2.12	0.48
1:AA:42:G:H2’	1:AA:43:C:C6	2.47	0.48
1:AA:271:C:O2’	1:AA:272:C:H5’	2.13	0.48
1:AA:833:U:H2’	1:AA:834:C:C5	2.48	0.48
1:AA:1060:C:O2’	1:AA:1061:G:H5’	2.12	0.48
3:AC:76:VAL:HG21	3:AC:103:VAL:HG11	1.95	0.48
3:AC:127:ARG:HH11	3:AC:127:ARG:HG2	1.77	0.48
3:AC:152:ILE:HG12	3:AC:167:TRP:HD1	1.78	0.48
8:AH:97:VAL:CG1	8:AH:98:LYS:N	2.75	0.48
13:AM:7:VAL:O	13:AM:7:VAL:HG12	2.13	0.48
13:AM:115:LYS:O	13:AM:117:VAL:HG23	2.13	0.48
20:AT:45:GLN:C	20:AT:47:GLY:H	2.21	0.48
28:B3:54:VAL:HG22	28:B3:55:ARG:N	2.28	0.48
30:B5:42:PRO:HB2	30:B5:43:HIS:CD2	2.48	0.48
31:B6:51:GLU:O	31:B6:52:VAL:HB	2.13	0.48
32:B7:46:VAL:HG12	32:B7:48:LYS:NZ	2.28	0.48
35:BA:38:A:H2’	35:BA:39:C:C6	2.47	0.48
35:BA:481:G:H1’	35:BA:506:G:H21	1.78	0.48
35:BA:535:C:O3’	53:BU:53:ARG:NH1	2.46	0.48
35:BA:548:A:H2’	35:BA:549:G:O4’	2.12	0.48
35:BA:549:G:H2’	35:BA:551:G:C5’	2.22	0.48
35:BA:1316:U:O2’	35:BA:1317:A:H5’	2.13	0.48
35:BA:2000:G:O2’	35:BA:2001:A:H5’	2.14	0.48
35:BA:2409:G:H2’	35:BA:2410:G:O4’	2.12	0.48
37:BC:18:LYS:O	37:BC:19:VAL:HB	2.13	0.48
38:BD:111:LEU:HD13	38:BD:112:GLN:N	2.28	0.48
41:BG:29:TRP:C	41:BG:31:VAL:N	2.71	0.48
41:BG:41:GLN:CD	41:BG:60:LEU:HD23	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:25:LYS:HA	42:BH:34:GLU:HA	1.94	0.48
45:BK:23:VAL:HA	45:BK:26:ALA:CB	2.43	0.48
47:BO:2:ILE:HD11	47:BO:82:ASN:HD22	1.77	0.48
48:BP:49:ARG:O	48:BP:49:ARG:HG2	2.07	0.48
49:BQ:109:VAL:HG12	49:BQ:110:THR:N	2.28	0.48
52:BT:26:ASP:C	52:BT:26:ASP:OD2	2.55	0.48
56:BX:44:GLU:C	56:BX:46:ALA:H	2.20	0.48
56:BX:51:VAL:HA	56:BX:82:GLN:O	2.13	0.48
56:BX:88:LYS:CE	56:BX:93:GLU:HG3	2.43	0.48
58:BZ:24:LEU:HD11	58:BZ:86:VAL:HG22	1.94	0.48
1:CA:40:C:H2'	1:CA:41:G:C8	2.46	0.48
1:CA:148:G:H2'	1:CA:149:A:C8	2.47	0.48
1:CA:414:A:H2'	1:CA:415:A:O4'	2.13	0.48
1:CA:537:G:OP1	12:CL:113:ARG:NH2	2.46	0.48
1:CA:542:G:H2'	1:CA:543:C:C6	2.44	0.48
1:CA:630:G:C2'	1:CA:631:G:H5"	2.42	0.48
1:CA:979:C:C2'	1:CA:980:C:H5"	2.42	0.48
1:CA:1288:A:H2'	1:CA:1289:A:H8	1.78	0.48
2:CB:80:ILE:HD11	2:CB:211:ILE:CG2	2.42	0.48
3:CC:32:LEU:HD22	3:CC:59:ARG:HH12	1.77	0.48
3:CC:81:GLY:O	3:CC:85:ARG:HB2	2.13	0.48
4:CD:64:LEU:HD11	4:CD:97:LEU:CD1	2.43	0.48
8:CH:109:ILE:CG1	8:CH:110:ALA:N	2.76	0.48
11:CK:126:ARG:HB3	11:CK:126:ARG:NH1	2.27	0.48
16:CP:5:ARG:HE	16:CP:22:THR:HG23	1.78	0.48
22:CW:57:G:H2'	22:CW:58:A:C5'	2.43	0.48
25:D0:29:GLN:O	25:D0:67:VAL:HG23	2.13	0.48
27:D2:35:LEU:C	27:D2:37:PHE:N	2.69	0.48
30:D5:46:CYS:SG	30:D5:47:PRO:CD	3.01	0.48
34:D9:14:CYS:HA	34:D9:26:ILE:O	2.14	0.48
35:DA:1241:A:O2'	35:DA:1242:A:H5'	2.13	0.48
35:DA:1329:U:H5"	35:DA:1330:C:C5	2.48	0.48
35:DA:2262:U:C2'	35:DA:2263:C:C5'	2.87	0.48
37:DC:59:ARG:N	37:DC:59:ARG:CD	2.76	0.48
40:DF:121:GLY:O	40:DF:123:LEU:N	2.47	0.48
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.70	0.48
46:DN:51:PHE:CZ	46:DN:119:ARG:HD2	2.48	0.48
50:DR:34:ILE:HG22	50:DR:35:THR:N	2.28	0.48
52:DT:129:ARG:NH1	52:DT:131:ALA:HB3	2.27	0.48
53:DU:79:PHE:CZ	53:DU:83:LEU:HD22	2.48	0.48
58:DZ:47:VAL:CG1	58:DZ:57:ILE:HD12	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:16:A:C2'	1:AA:17:U:H5'	2.43	0.48
1:AA:33:A:H2'	1:AA:34:C:H6	1.78	0.48
2:AB:31:TYR:HD1	2:AB:202:PRO:HB3	1.78	0.48
3:AC:16:ARG:HH22	3:AC:183:ASP:HA	1.77	0.48
12:AL:39:VAL:O	12:AL:56:ALA:HA	2.12	0.48
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.95	0.48
16:AP:36:ILE:HG13	16:AP:37:GLY:N	2.28	0.48
16:AP:58:TYR:C	16:AP:58:TYR:CD1	2.90	0.48
24:AY:13:LEU:C	24:AY:14:ARG:HG3	2.38	0.48
24:AY:82:GLU:C	24:AY:84:ARG:H	2.20	0.48
24:AY:118:LEU:HA	24:AY:209:GLU:O	2.12	0.48
24:AY:306:GLU:HG3	24:AY:307:TRP:H	1.78	0.48
24:AY:346:TRP:CE3	24:AY:346:TRP:HA	2.49	0.48
35:BA:612:C:C3'	35:BA:613:G:H5"	2.43	0.48
35:BA:654(E):G:O2'	35:BA:654(F):C:H5'	2.14	0.48
35:BA:1407:C:N3	35:BA:1596:A:C2	2.81	0.48
35:BA:1826:G:H2'	35:BA:1827:C:H6	1.77	0.48
35:BA:2734:A:H3'	35:BA:2735:G:H8	1.78	0.48
36:BB:95:C:H2'	36:BB:96:U:O4'	2.12	0.48
38:BD:24:ILE:HD12	38:BD:84:TYR:HB2	1.94	0.48
41:BG:64:THR:OG1	41:BG:94:LEU:HD11	2.14	0.48
41:BG:106:LEU:HB3	41:BG:107:LEU:HD23	1.95	0.48
41:BG:138:GLN:HG2	41:BG:139:LEU:N	2.27	0.48
43:BI:5:LEU:HA	43:BI:36:ALA:HB1	1.95	0.48
45:BK:125:ARG:C	45:BK:127:ILE:N	2.71	0.48
47:BO:22:ILE:HG12	47:BO:41:ALA:HA	1.95	0.48
48:BP:23:PRO:O	48:BP:29:LYS:O	2.31	0.48
49:BQ:25:ASP:OD1	58:BZ:78:LYS:HD3	2.13	0.48
50:BR:42:LYS:O	50:BR:45:ARG:HD2	2.13	0.48
51:BS:57:LYS:HG2	51:BS:58:LEU:N	2.24	0.48
51:BS:101:LEU:O	51:BS:102:ALA:O	2.31	0.48
53:BU:92:ARG:HH21	53:BU:94:ASN:ND2	2.12	0.48
54:BV:39:LEU:O	54:BV:40:LEU:CB	2.61	0.48
58:BZ:57:ILE:HB	58:BZ:69:THR:OG1	2.13	0.48
58:BZ:92:SER:OG	58:BZ:94:GLU:HG2	2.13	0.48
1:CA:77:G:C2'	1:CA:78:G:H5'	2.43	0.48
1:CA:166:G:H2'	1:CA:167:G:C8	2.47	0.48
1:CA:245:C:C2'	1:CA:246:A:H5'	2.42	0.48
1:CA:401:C:H2'	1:CA:402:G:H8	1.78	0.48
1:CA:737:A:H2'	1:CA:738:C:H6	1.75	0.48
1:CA:1434:A:N7	1:CA:1435:G:C5	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1463:C:H2'	1:CA:1464:G:O4'	2.13	0.48
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.78	0.48
3:CC:87:LEU:C	3:CC:89:GLU:N	2.66	0.48
4:CD:30:LYS:HA	4:CD:35:ARG:CG	2.43	0.48
4:CD:83:SER:HA	4:CD:89:THR:HG23	1.94	0.48
4:CD:98:GLU:C	4:CD:100:ARG:H	2.21	0.48
6:CF:96:PRO:HB3	18:CR:30:ASP:CG	2.38	0.48
7:CG:20:ASP:HB3	7:CG:23:VAL:CG2	2.43	0.48
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.43	0.48
8:CH:69:ARG:HD3	8:CH:75:ARG:O	2.13	0.48
9:CI:4:TYR:N	9:CI:4:TYR:CD1	2.81	0.48
9:CI:78:LYS:HG2	9:CI:78:LYS:O	2.13	0.48
10:CJ:88:LEU:HG	10:CJ:90:LEU:HD11	1.95	0.48
12:CL:119:LYS:O	12:CL:120:TYR:CB	2.60	0.48
17:CQ:9:VAL:HG12	17:CQ:10:VAL:N	2.28	0.48
20:CT:49:ALA:HB2	20:CT:99:LEU:CD1	2.43	0.48
24:CY:46:ARG:CD	45:DK:21:PRO:HB3	2.43	0.48
25:D0:19:LYS:O	25:D0:20:ARG:C	2.56	0.48
31:D6:28:ARG:HH11	31:D6:28:ARG:CB	2.02	0.48
35:DA:154:G:C6	35:DA:154(A):C:N4	2.81	0.48
35:DA:191:A:O2'	35:DA:192:C:H5'	2.14	0.48
35:DA:535:C:O3'	53:DU:53:ARG:NH1	2.46	0.48
35:DA:623:G:H2'	35:DA:624:C:C6	2.49	0.48
35:DA:740:U:H2'	35:DA:741:G:H8	1.77	0.48
35:DA:975:C:H2'	35:DA:975:C:O2	2.13	0.48
35:DA:1351:C:H2'	35:DA:1352:U:C6	2.48	0.48
35:DA:1799:G:H5'	35:DA:1819:A:H61	1.77	0.48
35:DA:2639:A:C2'	35:DA:2640:G:H5'	2.43	0.48
37:DC:18:LYS:O	37:DC:19:VAL:HB	2.13	0.48
39:DE:4:ILE:HG12	39:DE:28:ALA:HB1	1.96	0.48
39:DE:37:ARG:HA	39:DE:42:ASP:OD2	2.13	0.48
39:DE:103:ASP:OD2	39:DE:168:MET:HE2	2.13	0.48
39:DE:134:ILE:O	39:DE:134:ILE:CG1	2.55	0.48
46:DN:23:LEU:HD13	46:DN:98:VAL:HG12	1.95	0.48
48:DP:13:ASN:H	48:DP:13:ASN:ND2	2.11	0.48
52:DT:129:ARG:O	52:DT:129:ARG:HG3	2.13	0.48
55:DW:9:TYR:N	55:DW:9:TYR:HD2	2.12	0.48
58:DZ:39:VAL:HG21	58:DZ:44:PHE:CD2	2.45	0.48
58:DZ:144:LEU:HD12	58:DZ:149:SER:HA	1.93	0.48
1:AA:57:G:O6	1:AA:356:A:C2	2.67	0.48
1:AA:158:G:O2'	1:AA:159:G:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:355:C:H2'	1:AA:356:A:C8	2.28	0.48
1:AA:489:C:H2'	1:AA:490:G:C8	2.45	0.48
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.48	0.48
1:AA:1112:C:N3	3:AC:178:LEU:HD23	2.27	0.48
1:AA:1186:G:N2	1:AA:1187:G:H1'	2.29	0.48
1:AA:1415:G:H2'	1:AA:1416:G:H8	1.78	0.48
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.28	0.48
2:AB:112:VAL:HG11	2:AB:153:ARG:HA	1.95	0.48
2:AB:140:HIS:HA	2:AB:143:GLU:HG3	1.96	0.48
2:AB:217:ARG:O	2:AB:221:LEU:HD23	2.13	0.48
3:AC:9:GLY:HA3	14:AN:49:HIS:HA	1.94	0.48
3:AC:83:ARG:HA	3:AC:86:VAL:HG22	1.95	0.48
3:AC:113:ALA:O	3:AC:115:LEU:N	2.46	0.48
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.95	0.48
5:AE:139:LEU:C	5:AE:141:GLN:N	2.69	0.48
6:AF:98:LEU:HD13	6:AF:101:ALA:CB	2.44	0.48
8:AH:38:ILE:HD11	8:AH:118:VAL:O	2.13	0.48
10:AJ:5:ARG:HG3	10:AJ:71:LEU:HD11	1.94	0.48
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.76	0.48
19:AS:16:LEU:C	19:AS:18:LYS:N	2.71	0.48
24:AY:59:VAL:HG12	24:AY:59:VAL:O	2.14	0.48
26:B1:3:LYS:HB3	26:B1:61:ARG:HH12	1.77	0.48
33:B8:25:MET:O	33:B8:26:LYS:C	2.56	0.48
35:BA:30:G:O2'	35:BA:31:C:H5'	2.13	0.48
35:BA:962:G:C2'	35:BA:963:U:H5'	2.43	0.48
35:BA:1437:C:H6	35:BA:1437:C:C5'	2.27	0.48
35:BA:1658:C:H2'	35:BA:1659:U:H6	1.78	0.48
35:BA:2121:G:C2'	35:BA:2122:U:H5'	2.42	0.48
35:BA:2364:C:O2'	35:BA:2365:G:H5'	2.12	0.48
35:BA:2790:A:O2'	35:BA:2791:C:H5'	2.13	0.48
37:BC:170:ALA:O	37:BC:172:HIS:N	2.47	0.48
38:BD:28:GLU:HB3	38:BD:29:PRO:CD	2.26	0.48
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.96	0.48
39:BE:144:ARG:HB3	39:BE:145:LYS:H	1.40	0.48
40:BF:132:VAL:O	40:BF:133:ASN:C	2.57	0.48
41:BG:30:GLU:HG2	41:BG:30:GLU:O	2.13	0.48
41:BG:61:ALA:HB2	41:BG:67:LYS:HA	1.96	0.48
42:BH:47:GLU:HB2	42:BH:51:ARG:NH2	2.28	0.48
50:BR:93:GLY:O	50:BR:117:VAL:HG21	2.14	0.48
52:BT:41:ARG:HB3	52:BT:41:ARG:CZ	2.43	0.48
52:BT:106:SER:O	52:BT:107:ASP:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:18:LEU:N	54:BV:18:LEU:CD1	2.76	0.48
57:BY:77:PRO:O	57:BY:78:ALA:CB	2.61	0.48
58:BZ:166:SER:N	58:BZ:167:PRO:HA	2.18	0.48
1:CA:42:G:H2'	1:CA:43:C:C6	2.48	0.48
1:CA:88:A:H2	1:CA:89:C:H5	1.62	0.48
1:CA:102:G:H2'	1:CA:103:C:H6	1.78	0.48
1:CA:392:G:H2'	1:CA:393:A:H8	1.78	0.48
1:CA:509:A:H5'	4:CD:54:TYR:HD2	1.77	0.48
1:CA:1067:A:H1'	1:CA:1068:G:C8	2.48	0.48
1:CA:1112:C:C4	3:CC:178:LEU:HD23	2.48	0.48
1:CA:1125:U:H3	10:CJ:5:ARG:NH1	2.12	0.48
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.96	0.48
3:CC:126:ARG:HH11	3:CC:126:ARG:HG2	1.78	0.48
5:CE:20:GLN:O	5:CE:23:GLY:O	2.31	0.48
5:CE:28:PHE:HD1	5:CE:28:PHE:H	1.61	0.48
7:CG:44:TYR:HA	7:CG:47:CYS:SG	2.53	0.48
8:CH:35:ILE:O	8:CH:39:LEU:CD2	2.61	0.48
9:CI:85:LEU:HD12	9:CI:86:VAL:N	2.29	0.48
17:CQ:19:VAL:HG23	17:CQ:44:ALA:HB3	1.96	0.48
24:CY:19:ILE:N	24:CY:20:PRO:HD2	2.28	0.48
24:CY:22:LYS:CD	24:CY:25:ARG:HD2	2.43	0.48
24:CY:109:PHE:HB2	24:CY:110:PRO:CD	2.39	0.48
27:D2:44:LEU:O	27:D2:45:SER:CB	2.62	0.48
35:DA:271(L):U:H4'	35:DA:271(M):G:C5	2.48	0.48
35:DA:991:C:H2'	35:DA:992:C:H6	1.77	0.48
35:DA:1528:A:N3	35:DA:1528:A:H2'	2.28	0.48
35:DA:1642:G:O2'	35:DA:1643:G:H5'	2.13	0.48
35:DA:1794:U:H2'	35:DA:1795:C:H6	1.78	0.48
35:DA:2183:C:H2'	35:DA:2184:G:H8	1.78	0.48
35:DA:2308:G:N2	41:DG:79:ASN:ND2	2.61	0.48
35:DA:2320:A:N3	35:DA:2320:A:H2'	2.28	0.48
35:DA:2672:G:H2'	35:DA:2673:G:H5"	1.95	0.48
35:DA:2734:A:H3'	35:DA:2735:G:H8	1.78	0.48
37:DC:128:GLY:O	37:DC:130:ILE:N	2.45	0.48
40:DF:29:ASN:ND2	40:DF:32:LEU:HB2	2.27	0.48
46:DN:14:VAL:HG12	46:DN:15:LEU:N	2.28	0.48
46:DN:134:ARG:O	46:DN:134:ARG:HG3	2.13	0.48
48:DP:134:ALA:O	48:DP:136:GLU:N	2.45	0.48
50:DR:39:PRO:C	50:DR:41:ALA:N	2.71	0.48
51:DS:22:GLY:O	51:DS:23:ARG:O	2.32	0.48
52:DT:27:THR:HG23	52:DT:28:VAL:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:32:TYR:HD2	52:DT:81:PRO:O	1.96	0.48
53:DU:91:ASP:O	53:DU:92:ARG:O	2.31	0.48
56:DX:32:PRO:HA	56:DX:77:LYS:HB2	1.95	0.48
56:DX:80:ILE:O	56:DX:80:ILE:HG13	2.12	0.48
58:DZ:42:VAL:CG2	58:DZ:46:LYS:HE3	2.39	0.48
1:AA:580:U:H2'	1:AA:581:G:C8	2.49	0.48
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.48	0.48
2:AB:80:ILE:HD11	2:AB:211:ILE:CG2	2.43	0.48
4:AD:100:ARG:NH1	4:AD:137:SER:HA	2.28	0.48
4:AD:170:VAL:HG22	4:AD:171:GLY:H	1.78	0.48
7:AG:50:ILE:O	7:AG:54:THR:HG22	2.13	0.48
7:AG:78:ARG:HH12	7:AG:154:TYR:HB3	1.79	0.48
8:AH:44:PHE:HA	8:AH:79:VAL:HG11	1.96	0.48
9:AI:5:TYR:O	9:AI:84:ALA:HA	2.14	0.48
20:AT:24:LEU:O	20:AT:25:ARG:C	2.55	0.48
22:AW:41:C:C4	22:AW:42:C:N4	2.81	0.48
24:AY:159:GLY:H	24:AY:164:ILE:HA	1.76	0.48
24:AY:352:LYS:C	24:AY:354:GLY:N	2.69	0.48
27:B2:50:ILE:O	27:B2:52:ASP:N	2.46	0.48
27:B2:67:LYS:C	27:B2:69:ARG:N	2.71	0.48
35:BA:154(A):C:O2	35:BA:154(A):C:O4'	2.29	0.48
35:BA:608:A:H2'	35:BA:609:A:C8	2.47	0.48
35:BA:1171:G:C5'	35:BA:1173:G:H5"	2.44	0.48
35:BA:1794:U:H2'	35:BA:1795:C:H6	1.77	0.48
35:BA:2183:C:H2'	35:BA:2184:G:H8	1.78	0.48
35:BA:2639:A:C2'	35:BA:2640:G:H5'	2.44	0.48
36:BB:40:U:H3'	36:BB:41:U:C5'	2.43	0.48
36:BB:95:C:C2	36:BB:96:U:C6	3.01	0.48
37:BC:72:VAL:HG12	37:BC:74:VAL:HG23	1.95	0.48
37:BC:75:LEU:O	37:BC:75:LEU:HD23	2.13	0.48
40:BF:3:GLU:O	40:BF:19:GLU:CB	2.61	0.48
40:BF:8:GLN:O	40:BF:9:ILE:C	2.56	0.48
43:BI:76:THR:HG22	43:BI:141:LYS:HB2	1.95	0.48
48:BP:129:ALA:C	48:BP:130:PHE:HD2	2.22	0.48
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD2	1.78	0.48
50:BR:9:LYS:O	50:BR:10:LEU:CG	2.60	0.48
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.61	0.48
52:BT:129:ARG:HG3	52:BT:129:ARG:O	2.12	0.48
53:BU:90:VAL:C	53:BU:92:ARG:H	2.21	0.48
54:BV:49:THR:O	54:BV:50:PRO:C	2.53	0.48
54:BV:52:VAL:O	54:BV:52:VAL:HG13	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:26:GLY:HA2	55:BW:71:VAL:O	2.13	0.48
58:BZ:125:LEU:HD12	58:BZ:126:VAL:N	2.29	0.48
1:CA:115:G:O2'	1:CA:116:A:OP2	2.27	0.48
1:CA:140:A:H2'	1:CA:141:A:H8	1.78	0.48
1:CA:458:C:H2'	1:CA:460:G:H8	1.79	0.48
1:CA:811:C:H4'	1:CA:900:A:N6	2.28	0.48
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.48	0.48
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.13	0.48
2:CB:58:ILE:HG22	2:CB:222:ILE:HG12	1.95	0.48
2:CB:102:LEU:HB2	2:CB:176:GLU:HB3	1.95	0.48
2:CB:140:HIS:HA	2:CB:143:GLU:HG3	1.95	0.48
2:CB:153:ARG:O	2:CB:154:LEU:C	2.57	0.48
5:CE:100:VAL:HG13	5:CE:118:ILE:CG2	2.44	0.48
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.78	0.48
12:CL:70:ILE:HG12	12:CL:100:ILE:CD1	2.44	0.48
17:CQ:52:LYS:HD2	17:CQ:55:ASP:OD2	2.13	0.48
17:CQ:81:ARG:C	17:CQ:83:ASP:N	2.71	0.48
18:CR:21:LYS:NZ	18:CR:55:ARG:N	2.62	0.48
22:CV:16:U:O5'	22:CV:16:U:H6	1.96	0.48
31:D6:37:ARG:HH11	31:D6:37:ARG:CG	2.26	0.48
35:DA:910:A:C6	35:DA:911:A:C6	3.00	0.48
35:DA:1885:A:H3'	35:DA:1886:C:C6	2.48	0.48
35:DA:2178:C:H5'	37:DC:46:LYS:HB2	1.96	0.48
35:DA:2223:G:O2'	35:DA:2224:G:H5'	2.13	0.48
35:DA:2329:G:H2'	35:DA:2330:G:C8	2.48	0.48
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.48	0.48
40:DF:3:GLU:CB	40:DF:24:LEU:HD23	2.44	0.48
40:DF:64:ILE:HG12	40:DF:65:TRP:NE1	2.29	0.48
42:DH:19:VAL:HG21	42:DH:44:VAL:CG1	2.42	0.48
42:DH:79:VAL:C	42:DH:81:GLU:H	2.20	0.48
45:DK:23:VAL:HA	45:DK:26:ALA:CB	2.43	0.48
45:DK:62:ASP:C	45:DK:64:SER:N	2.69	0.48
48:DP:17:LYS:O	48:DP:19:VAL:N	2.46	0.48
49:DQ:51:ARG:HG2	49:DQ:51:ARG:NH1	2.28	0.48
49:DQ:141:GLN:NE2	58:DZ:71:VAL:O	2.45	0.48
50:DR:42:LYS:O	50:DR:45:ARG:HD2	2.13	0.48
52:DT:27:THR:OG1	52:DT:28:VAL:N	2.47	0.48
53:DU:76:TYR:CE2	53:DU:80:ILE:HG13	2.48	0.48
53:DU:103:PRO:HD2	53:DU:104:GLN:NE2	2.28	0.48
57:DY:28:LYS:CA	57:DY:39:VAL:H	2.25	0.48
58:DZ:59:LEU:O	58:DZ:61:LEU:HD22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:189(B):C:H2'	1:AA:189(C):C:C6	2.49	0.48
1:AA:360:A:H2'	1:AA:361:G:H8	1.78	0.48
1:AA:505:G:C6	1:AA:535:A:C2	3.02	0.48
1:AA:708:C:H2'	1:AA:709:G:H8	1.78	0.48
2:AB:104:ASN:ND2	2:AB:107:THR:HB	2.28	0.48
2:AB:153:ARG:O	2:AB:154:LEU:C	2.56	0.48
7:AG:76:ARG:HD3	7:AG:89:MET:CE	2.43	0.48
7:AG:136:LYS:O	7:AG:138:LYS:N	2.45	0.48
9:AI:91:ASP:C	9:AI:92:TYR:CD1	2.92	0.48
15:AO:33:THR:HG21	15:AO:85:LEU:HD22	1.95	0.48
22:AW:66:U:H2'	22:AW:67:C:C4	2.48	0.48
24:AY:26:LEU:HD22	24:AY:48:VAL:HG21	1.94	0.48
24:AY:283:LEU:O	24:AY:287:GLU:HB2	2.13	0.48
24:AY:345:ILE:O	24:AY:349:LEU:HG	2.12	0.48
25:B0:25:ARG:HD3	25:B0:29:GLN:HE22	1.77	0.48
25:B0:84:LEU:HD12	25:B0:84:LEU:H	1.78	0.48
26:B1:45:ASN:HA	35:BA:2230:G:H1'	1.95	0.48
33:B8:16:ILE:O	33:B8:16:ILE:HG23	2.12	0.48
33:B8:53:PRO:HA	33:B8:56:GLU:CB	2.41	0.48
35:BA:309:G:N3	35:BA:329:G:O2'	2.47	0.48
35:BA:598:G:H5"	48:BP:15:ARG:CD	2.24	0.48
35:BA:691:C:O2'	35:BA:692:C:H5'	2.13	0.48
35:BA:765:G:H2'	35:BA:766:C:C6	2.49	0.48
35:BA:1106:G:H2'	35:BA:1107:G:C8	2.48	0.48
35:BA:1827:C:OP2	38:BD:222:ARG:NH1	2.47	0.48
35:BA:2313:C:H4'	41:BG:91:ARG:HG3	1.95	0.48
36:BB:89:G:H2'	36:BB:90:A:C8	2.49	0.48
37:BC:59:ARG:N	37:BC:59:ARG:CD	2.77	0.48
38:BD:31:LYS:HG3	38:BD:33:LEU:CG	2.43	0.48
39:BE:9:VAL:CG2	39:BE:25:VAL:HB	2.43	0.48
40:BF:29:ASN:ND2	40:BF:32:LEU:HB2	2.27	0.48
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.94	0.48
42:BH:33:LEU:HD11	42:BH:136:ILE:O	2.14	0.48
43:BI:29:TYR:O	43:BI:32:PRO:HD2	2.13	0.48
44:BJ:27:UNK:O	44:BJ:83:UNK:N	2.47	0.48
45:BK:14:ALA:C	45:BK:45:THR:HG21	2.38	0.48
47:BO:104:ARG:HE	52:BT:33:LYS:HE3	1.78	0.48
47:BO:118:ALA:C	47:BO:120:GLU:H	2.20	0.48
49:BQ:114:ALA:O	49:BQ:116:GLU:N	2.44	0.48
49:BQ:141:GLN:O	58:BZ:98:MET:HE3	2.12	0.48
50:BR:53:HIS:O	50:BR:56:LYS:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:28:VAL:HG11	52:BT:46:GLU:CG	2.34	0.48
53:BU:92:ARG:CB	54:BV:11:GLN:NE2	2.77	0.48
54:BV:34:GLU:O	54:BV:36:PRO:CD	2.62	0.48
55:BW:71:VAL:HA	55:BW:107:LEU:HD12	1.95	0.48
57:BY:96:ILE:CG2	57:BY:97:ARG:N	2.76	0.48
58:BZ:26:GLY:O	58:BZ:27:VAL:HB	2.13	0.48
1:CA:148:G:O2'	1:CA:149:A:H5'	2.14	0.48
1:CA:233:C:H2'	1:CA:234:C:H6	1.78	0.48
1:CA:430:A:O2'	1:CA:431:A:H5'	2.14	0.48
1:CA:593:G:O2'	1:CA:594:G:H5'	2.14	0.48
1:CA:925:G:H4'	1:CA:1502:A:N1	2.28	0.48
1:CA:1396:A:H4'	1:CA:1398:A:O4'	2.14	0.48
1:CA:1458:G:OP1	20:CT:35:THR:OG1	2.25	0.48
2:CB:31:TYR:HD1	2:CB:202:PRO:HB3	1.78	0.48
4:CD:64:LEU:HD11	4:CD:97:LEU:HD13	1.96	0.48
4:CD:150:GLU:N	4:CD:150:GLU:OE1	2.46	0.48
14:CN:12:ARG:HB3	14:CN:14:PRO:HD2	1.95	0.48
22:CV:76:A:O3'	24:CY:239:GLY:HA3	2.14	0.48
23:CX:18:A:H2'	23:CX:18:A:N3	2.29	0.48
24:CY:190:VAL:CB	24:CY:315:VAL:HG12	2.41	0.48
24:CY:346:TRP:HA	24:CY:346:TRP:HE3	1.77	0.48
28:D3:44:ARG:O	28:D3:48:GLU:N	2.36	0.48
30:D5:30:LEU:HD23	30:D5:41:PRO:HA	1.94	0.48
33:D8:63:PRO:O	33:D8:64:TYR:O	2.31	0.48
35:DA:1022:G:O2'	35:DA:1023:U:OP2	2.26	0.48
35:DA:2537:U:H2'	35:DA:2538:C:H6	1.76	0.48
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.49	0.48
35:DA:2894:G:H2'	35:DA:2894:G:N3	2.29	0.48
37:DC:51:PRO:O	37:DC:52:ARG:HB2	2.14	0.48
41:DG:105:LYS:HE3	41:DG:143:GLU:OE1	2.14	0.48
42:DH:94:TYR:CD2	42:DH:107:VAL:HB	2.49	0.48
42:DH:120:GLY:HA3	42:DH:140:LYS:HZ1	1.78	0.48
45:DK:125:ARG:HG2	45:DK:125:ARG:NH1	2.29	0.48
46:DN:26:LEU:HG	46:DN:30:ILE:CD1	2.44	0.48
47:DO:87:ILE:HG23	47:DO:91:LEU:HA	1.93	0.48
47:DO:105:GLU:OE1	47:DO:105:GLU:N	2.46	0.48
49:DQ:109:VAL:HG12	49:DQ:110:THR:N	2.26	0.48
50:DR:82:GLU:H	50:DR:85:PRO:CD	2.27	0.48
51:DS:12:PHE:HD1	51:DS:12:PHE:H	1.62	0.48
51:DS:51:ALA:O	51:DS:69:VAL:HG22	2.13	0.48
56:DX:83:VAL:O	56:DX:84:ALA:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:17:SER:OG	57:DY:18:GLY:N	2.46	0.48
58:DZ:3:TYR:N	58:DZ:3:TYR:CD1	2.80	0.48
1:AA:166:G:H2'	1:AA:167:G:C8	2.47	0.48
1:AA:360:A:O2'	1:AA:361:G:H5'	2.14	0.48
1:AA:372:C:C4'	1:AA:373:A:OP1	2.53	0.48
1:AA:696:A:O2'	1:AA:697:U:H5'	2.14	0.48
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.28	0.48
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.49	0.48
2:AB:161:ALA:HA	2:AB:182:ILE:HG23	1.95	0.48
3:AC:206:GLU:O	3:AC:208:ILE:N	2.47	0.48
4:AD:96:LEU:N	4:AD:96:LEU:CD1	2.76	0.48
4:AD:203:VAL:HG12	4:AD:203:VAL:O	2.11	0.48
22:AV:61:C:H2'	22:AV:62:C:C6	2.38	0.48
25:B0:56:ASP:O	25:B0:57:PHE:HB2	2.14	0.48
27:B2:20:GLU:O	27:B2:23:LYS:HB2	2.14	0.48
31:B6:19:ARG:HG3	35:BA:2400:G:H4'	1.95	0.48
31:B6:23:THR:HG21	35:BA:2419:U:C4'	2.41	0.48
31:B6:25:LYS:HE2	31:B6:27:LYS:HZ1	1.79	0.48
35:BA:271(S):G:C3'	35:BA:271(T):C:H5"	2.42	0.48
35:BA:321:G:N3	40:BF:165:ARG:NH1	2.61	0.48
35:BA:341:G:O2'	35:BA:342:G:H5'	2.13	0.48
35:BA:470:A:H2'	35:BA:471:A:O4'	2.14	0.48
35:BA:598:G:C5'	48:BP:15:ARG:HD2	2.24	0.48
35:BA:632:A:H2'	35:BA:633:A:C8	2.47	0.48
35:BA:1412:A:O2'	35:BA:1413:G:H5'	2.13	0.48
35:BA:1417:C:C2'	35:BA:1418:G:H5'	2.44	0.48
35:BA:1685:C:C2'	35:BA:1686:C:H5"	2.43	0.48
35:BA:1719:G:O2'	35:BA:1720:U:H5'	2.13	0.48
35:BA:1777:U:O2'	35:BA:1778:U:H5'	2.14	0.48
35:BA:1999:C:H5"	35:BA:2723:C:O2'	2.14	0.48
35:BA:2572:A:C8	39:BE:144:ARG:HD2	2.48	0.48
35:BA:2892:A:H2'	35:BA:2893:G:H4'	1.96	0.48
38:BD:82:ILE:O	38:BD:82:ILE:HG23	2.13	0.48
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.67	0.48
45:BK:13:PRO:HG2	45:BK:16:LYS:O	2.13	0.48
46:BN:12:ARG:HG2	46:BN:50:ASP:OD1	2.13	0.48
46:BN:31:ALA:O	46:BN:34:LEU:N	2.47	0.48
48:BP:24:GLY:N	48:BP:33:ARG:NH1	2.61	0.48
50:BR:17:ARG:HH11	50:BR:17:ARG:HG2	1.79	0.48
50:BR:96:ARG:HH22	50:BR:118:GLU:H	1.61	0.48
51:BS:14:VAL:HG22	51:BS:91:PRO:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.43	0.48
53:BU:91:ASP:OD2	53:BU:96:ALA:CB	2.61	0.48
54:BV:55:ALA:O	54:BV:56:SER:HB3	2.13	0.48
1:CA:543:C:C2	1:CA:544:G:C8	3.01	0.48
1:CA:624:C:H4'	16:CP:10:GLY:CA	2.43	0.48
1:CA:797:C:O2'	1:CA:798:G:H5'	2.14	0.48
2:CB:14:GLY:HA3	2:CB:16:HIS:CE1	2.48	0.48
3:CC:33:LEU:HD11	14:CN:53:LEU:HD23	1.96	0.48
3:CC:57:ILE:HA	3:CC:65:ALA:HB3	1.95	0.48
6:CF:34:GLY:O	6:CF:67:MET:HB2	2.14	0.48
6:CF:44:GLY:O	6:CF:46:ARG:HG3	2.14	0.48
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.95	0.48
8:CH:109:ILE:CG1	8:CH:110:ALA:H	2.23	0.48
8:CH:112:LEU:HD11	8:CH:131:GLY:C	2.38	0.48
9:CI:4:TYR:HB2	9:CI:19:LEU:CB	2.34	0.48
10:CJ:53:PRO:HG2	10:CJ:54:PHE:H	1.78	0.48
11:CK:70:LYS:HA	11:CK:73:MET:CG	2.44	0.48
12:CL:87:GLY:H	12:CL:99:HIS:H	1.62	0.48
20:CT:44:ALA:HB3	20:CT:91:LEU:HD12	1.96	0.48
22:CV:52:G:C6	22:CV:63:G:C6	3.02	0.48
22:CV:74:C:H2'	22:CV:75:C:C5'	2.44	0.48
22:CW:51:U:H3	22:CW:64:A:H2	1.61	0.48
24:CY:24:THR:HG22	24:CY:27:LYS:HE3	1.96	0.48
30:D5:42:PRO:HB2	30:D5:43:HIS:CD2	2.49	0.48
35:DA:813:U:C5	48:DP:27:HIS:HD2	2.32	0.48
35:DA:1360:A:H5'	35:DA:1361:G:OP2	2.13	0.48
35:DA:1416:G:H1'	35:DA:1417:C:C5	2.49	0.48
35:DA:1685:C:H2'	35:DA:1686:C:C5'	2.42	0.48
35:DA:1719:G:O2'	35:DA:1720:U:H5'	2.13	0.48
35:DA:2732:G:O2'	35:DA:2733:A:H5'	2.13	0.48
35:DA:2870:C:H2'	35:DA:2871:C:O4'	2.13	0.48
37:DC:65:PRO:HG2	37:DC:189:ILE:CA	2.44	0.48
37:DC:74:VAL:HG12	37:DC:76:ALA:N	2.29	0.48
38:DD:158:ALA:HB3	38:DD:161:THR:CG2	2.44	0.48
40:DF:24:LEU:O	40:DF:26:ALA:N	2.47	0.48
42:DH:89:ILE:HG12	42:DH:129:THR:HA	1.95	0.48
42:DH:138:LYS:O	42:DH:141:VAL:N	2.38	0.48
48:DP:17:LYS:HB3	48:DP:19:VAL:HG22	1.95	0.48
50:DR:77:ARG:O	50:DR:79:LEU:N	2.47	0.48
53:DU:17:ILE:O	53:DU:20:LEU:N	2.41	0.48
54:DV:5:VAL:HG22	54:DV:6:LYS:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:33:ARG:O	55:DW:37:ARG:HB2	2.14	0.48
58:DZ:146:ILE:HA	58:DZ:174:VAL:CG1	2.44	0.48
1:AA:407:G:H2'	1:AA:408:A:H8	1.78	0.48
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.28	0.48
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.44	0.48
5:AE:36:ASP:O	5:AE:37:ARG:CB	2.61	0.48
8:AH:44:PHE:HA	8:AH:79:VAL:CG1	2.44	0.48
10:AJ:90:LEU:HD12	10:AJ:90:LEU:N	2.29	0.48
19:AS:4:SER:O	19:AS:5:LEU:CB	2.57	0.48
19:AS:43:GLU:OE1	19:AS:43:GLU:C	2.57	0.48
22:AV:12:U:H4'	35:BA:1908:C:O2	2.12	0.48
24:AY:150:GLN:HB2	24:AY:172:LYS:CB	2.34	0.48
25:B0:48:GLY:HA3	25:B0:80:HIS:HB3	1.95	0.48
27:B2:38:GLN:HB2	27:B2:44:LEU:HB3	1.95	0.48
33:B8:63:PRO:C	33:B8:64:TYR:O	2.57	0.48
35:BA:80:G:C2'	35:BA:81:G:H5'	2.44	0.48
35:BA:271(L):U:H4'	35:BA:271(M):G:C4	2.49	0.48
35:BA:494:G:N2	55:BW:57:ASN:HD21	2.08	0.48
35:BA:958:U:H6	35:BA:958:U:H3'	1.79	0.48
35:BA:1028:A:N6	35:BA:1125:G:H2'	2.28	0.48
35:BA:1560:G:N2	35:BA:1561:G:H1'	2.28	0.48
35:BA:2534:A:H8	35:BA:2534:A:C5'	2.23	0.48
38:BD:147:LEU:HD13	38:BD:155:LEU:HD11	1.94	0.48
40:BF:181:LEU:CD1	40:BF:186:ILE:HD11	2.43	0.48
41:BG:18:GLU:CG	41:BG:175:LEU:HD13	2.38	0.48
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.96	0.48
43:BI:93:THR:O	43:BI:96:ASP:HB2	2.13	0.48
46:BN:42:TRP:O	53:BU:64:ARG:NE	2.39	0.48
51:BS:97:ARG:HH21	51:BS:98:VAL:CG2	2.25	0.48
53:BU:103:PRO:HD2	53:BU:104:GLN:NE2	2.28	0.48
54:BV:39:LEU:CB	54:BV:47:VAL:HG21	2.44	0.48
57:BY:86:ARG:HG2	57:BY:87:LYS:N	2.29	0.48
58:BZ:151:HIS:O	58:BZ:152:ALA:O	2.32	0.48
1:CA:475:G:H2'	1:CA:476:G:C8	2.45	0.48
1:CA:741:G:H2'	1:CA:742:G:O4'	2.14	0.48
1:CA:1057:G:H5"	3:CC:154:SER:OG	2.14	0.48
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.77	0.48
1:CA:1331:G:OP2	13:CM:23:TYR:CD2	2.65	0.48
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.13	0.48
2:CB:28:PHE:O	2:CB:28:PHE:CD1	2.66	0.48
2:CB:88:ALA:HA	2:CB:226:ARG:HH12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:88:ARG:HH12	3:CC:101:LEU:HB3	1.77	0.48
8:CH:23:SER:HA	8:CH:63:LEU:HD22	1.95	0.48
9:CI:79:LEU:HD11	9:CI:83:ARG:NH2	2.28	0.48
11:CK:46:GLY:O	11:CK:48:ILE:O	2.32	0.48
14:CN:29:ARG:HG2	14:CN:30:ALA:H	1.79	0.48
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.77	0.48
24:CY:32:ARG:HG3	24:CY:32:ARG:NH1	2.29	0.48
24:CY:54:ARG:HA	24:CY:57:ARG:CD	2.44	0.48
24:CY:182:PRO:HD3	24:CY:349:LEU:CD2	2.43	0.48
24:CY:283:LEU:O	24:CY:287:GLU:N	2.47	0.48
26:D1:86:SER:O	26:D1:90:ILE:CG1	2.60	0.48
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.76	0.48
35:DA:686:G:H21	35:DA:788:A:H61	1.62	0.48
35:DA:1434:A:O2'	35:DA:1435:G:H5'	2.14	0.48
35:DA:2177:C:H5"	37:DC:211:SER:CB	2.43	0.48
35:DA:2534:A:H2'	35:DA:2535:G:O5'	2.13	0.48
37:DC:178:ALA:HB1	37:DC:190:ARG:CB	2.44	0.48
48:DP:96:THR:O	48:DP:97:PRO:C	2.56	0.48
51:DS:80:LEU:HD12	51:DS:80:LEU:N	2.28	0.48
51:DS:95:HIS:CG	51:DS:96:GLY:N	2.82	0.48
52:DT:108:ARG:HA	52:DT:111:ARG:HH12	1.79	0.48
56:DX:30:VAL:CG2	56:DX:79:ALA:HB3	2.44	0.48
58:DZ:112:ARG:O	58:DZ:113:ALA:C	2.56	0.48
1:AA:313:A:H2'	1:AA:314:C:C6	2.49	0.48
1:AA:445:G:H2'	1:AA:446:G:H8	1.79	0.48
1:AA:692:U:H5	11:AK:26:ASN:OD1	1.97	0.48
1:AA:1188:A:O2'	1:AA:1189:C:H5'	2.13	0.48
4:AD:61:LYS:NZ	4:AD:62:GLN:HE22	2.12	0.48
5:AE:84:PHE:HB3	5:AE:134:ALA:HB2	1.96	0.48
8:AH:30:ARG:NH1	8:AH:30:ARG:CB	2.76	0.48
8:AH:109:ILE:CG1	8:AH:110:ALA:N	2.76	0.48
10:AJ:3:LYS:CB	10:AJ:77:PRO:HD3	2.44	0.48
11:AK:122:LYS:O	11:AK:126:ARG:HG3	2.14	0.48
24:AY:19:ILE:C	24:AY:21:GLN:H	2.21	0.48
24:AY:229:ILE:HG22	24:AY:229:ILE:O	2.12	0.48
25:B0:29:GLN:O	25:B0:67:VAL:HG23	2.13	0.48
29:B4:40:ILE:HD12	29:B4:40:ILE:N	2.29	0.48
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.44	0.48
35:BA:141:A:H8	35:BA:1408:C:HO2'	1.57	0.48
35:BA:271(J):C:C2'	35:BA:271(K):U:H5"	2.44	0.48
35:BA:389:G:H22	48:BP:72:PRO:CD	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:409:C:O2'	35:BA:410:G:H5'	2.14	0.48
35:BA:919:G:H5'	36:BB:81:G:H1'	1.94	0.48
35:BA:1058:G:O3'	45:BK:1:MET:HE1	2.12	0.48
35:BA:2376:A:H1'	51:BS:108:GLY:O	2.14	0.48
35:BA:2445:G:OP1	40:BF:74:ARG:NH2	2.47	0.48
37:BC:87:GLU:CG	37:BC:94:VAL:HG22	2.43	0.48
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.43	0.48
40:BF:11:VAL:HG12	40:BF:12:LEU:N	2.28	0.48
40:BF:155:LEU:HD12	40:BF:174:VAL:O	2.14	0.48
45:BK:62:ASP:C	45:BK:64:SER:N	2.69	0.48
50:BR:24:GLN:OE1	50:BR:44:LEU:HD23	2.13	0.48
53:BU:61:TRP:CD2	53:BU:94:ASN:HA	2.49	0.48
55:BW:110:LYS:HG3	55:BW:111:HIS:H	1.79	0.48
57:BY:25:GLY:HA3	57:BY:39:VAL:HG13	1.95	0.48
58:BZ:132:ASN:OD1	58:BZ:132:ASN:N	2.46	0.48
58:BZ:165:VAL:CG1	58:BZ:166:SER:N	2.55	0.48
1:CA:271:C:O2'	1:CA:272:C:H5'	2.13	0.48
1:CA:791:G:N2	1:CA:1497:G:O3'	2.47	0.48
1:CA:895:G:H2'	1:CA:896:C:H6	1.78	0.48
1:CA:1461:G:H2'	1:CA:1462:G:C8	2.49	0.48
2:CB:98:LEU:O	2:CB:101:MET:HG3	2.13	0.48
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.79	0.48
3:CC:132:ARG:HA	3:CC:135:LYS:HB2	1.96	0.48
4:CD:17:VAL:CG1	4:CD:18:LYS:N	2.77	0.48
4:CD:52:SER:O	4:CD:53:ASP:C	2.55	0.48
8:CH:51:VAL:HG11	8:CH:60:ARG:NH1	2.25	0.48
8:CH:100:ILE:HG23	8:CH:101:PRO:HD2	1.96	0.48
8:CH:109:ILE:HD11	8:CH:120:THR:CG2	2.39	0.48
16:CP:58:TYR:O	16:CP:61:SER:N	2.46	0.48
25:D0:45:PHE:HD2	25:D0:79:VAL:HG23	1.78	0.48
25:D0:56:ASP:O	25:D0:57:PHE:HB2	2.14	0.48
26:D1:87:PRO:HG2	26:D1:88:LYS:N	2.23	0.48
28:D3:54:VAL:HG22	28:D3:55:ARG:N	2.27	0.48
33:D8:32:LEU:O	33:D8:33:ASN:C	2.56	0.48
35:DA:470:A:H2'	35:DA:471:A:O4'	2.14	0.48
35:DA:549:G:C3'	35:DA:551:G:H5"	2.43	0.48
35:DA:1407:C:H2'	35:DA:1407:C:O2	2.12	0.48
35:DA:1712:C:O2'	35:DA:1713:U:H5'	2.14	0.48
35:DA:2133:G:H1'	35:DA:2158:A:H61	1.78	0.48
35:DA:2777:G:H4'	35:DA:2778:A:H5'	1.94	0.48
35:DA:2892:A:H3'	35:DA:2893:G:H4'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:111:LEU:HD13	38:DD:112:GLN:N	2.28	0.48
41:DG:166:ASP:O	41:DG:169:ALA:HB3	2.14	0.48
45:DK:58:THR:HB	45:DK:66:THR:CG2	2.41	0.48
45:DK:101:TRP:NE1	45:DK:140:GLY:HA3	2.29	0.48
45:DK:131:ALA:HA	45:DK:136:VAL:CG1	2.43	0.48
49:DQ:137:TYR:HD2	58:DZ:76:LEU:HD23	1.79	0.48
50:DR:24:GLN:OE1	50:DR:44:LEU:HD23	2.13	0.48
51:DS:52:SER:CB	51:DS:55:ALA:HB3	2.44	0.48
54:DV:28:GLU:HB2	54:DV:31:ALA:CB	2.43	0.48
54:DV:76:LYS:HB2	54:DV:81:TYR:HB3	1.96	0.48
55:DW:79:GLY:O	55:DW:100:THR:HG23	2.13	0.48
57:DY:26:LYS:CG	57:DY:27:VAL:H	2.15	0.48
57:DY:27:VAL:HB	57:DY:29:GLU:OE1	2.13	0.48
58:DZ:72:ARG:NH2	58:DZ:97:GLU:O	2.47	0.48
1:AA:545:C:O2'	1:AA:546:G:H5'	2.13	0.48
1:AA:547:A:H4'	1:AA:548:G:O5'	2.14	0.48
1:AA:757:U:OP1	1:AA:822:C:O2'	2.31	0.48
1:AA:1041:A:H2'	1:AA:1042:G:C8	2.46	0.48
1:AA:1052:U:H2'	1:AA:1055:A:OP1	2.13	0.48
1:AA:1059:C:O3'	14:AN:45:ARG:NH2	2.47	0.48
1:AA:1255:G:C5'	3:AC:26:LYS:HE3	2.44	0.48
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.14	0.48
1:AA:1458:G:H5'	20:AT:32:ALA:HB2	1.95	0.48
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.49	0.48
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.13	0.48
3:AC:126:ARG:HH11	3:AC:126:ARG:HG2	1.79	0.48
4:AD:64:LEU:HD11	4:AD:97:LEU:CD1	2.44	0.48
4:AD:150:GLU:N	4:AD:150:GLU:OE1	2.47	0.48
20:AT:54:LYS:HA	20:AT:57:ARG:NH2	2.29	0.48
24:AY:128:GLU:HA	24:AY:195:PHE:CE2	2.49	0.48
26:B1:7:ILE:HD12	26:B1:62:VAL:HG21	1.95	0.48
31:B6:15:GLU:HG2	31:B6:18:ARG:HE	1.77	0.48
34:B9:8:LYS:O	34:B9:34:GLN:OE1	2.32	0.48
35:BA:286:C:C2'	35:BA:287:C:H5"	2.40	0.48
35:BA:729:G:H5'	35:BA:730:C:H5"	1.96	0.48
35:BA:813:U:C5	48:BP:27:HIS:HD2	2.32	0.48
35:BA:1087:G:C2	35:BA:1103:A:C2	3.02	0.48
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.49	0.48
36:BB:71:C:C2	36:BB:72:G:C8	3.01	0.48
40:BF:18:ARG:CG	40:BF:19:GLU:H	2.26	0.48
41:BG:71:THR:OG1	41:BG:89:GLY:HA3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:66:THR:O	45:BK:66:THR:HG23	2.14	0.48
45:BK:87:GLY:O	45:BK:88:ALA:HB2	2.14	0.48
47:BO:13:ASN:HD21	47:BO:97:ARG:N	2.12	0.48
51:BS:89:ARG:CB	51:BS:92:TYR:HB3	2.43	0.48
53:BU:27:LEU:N	53:BU:27:LEU:CD2	2.73	0.48
54:BV:5:VAL:HG22	54:BV:6:LYS:N	2.29	0.48
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.13	0.48
1:CA:225:C:H2'	1:CA:226:G:H8	1.78	0.48
1:CA:269:C:H2'	1:CA:270:A:H8	1.78	0.48
1:CA:313:A:H2'	1:CA:314:C:C6	2.49	0.48
1:CA:401:C:H2'	1:CA:402:G:C8	2.49	0.48
1:CA:438:G:H4'	4:CD:123:HIS:CE1	2.49	0.48
1:CA:600:C:O2'	1:CA:601:C:H5'	2.14	0.48
1:CA:627:G:O2'	1:CA:628:G:H5'	2.14	0.48
1:CA:692:U:H5	11:CK:26:ASN:OD1	1.97	0.48
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.29	0.48
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.49	0.48
2:CB:79:ASP:HA	2:CB:82:ARG:HG2	1.96	0.48
2:CB:217:ARG:O	2:CB:221:LEU:HD23	2.14	0.48
3:CC:76:VAL:HG21	3:CC:103:VAL:HG11	1.96	0.48
3:CC:164:ARG:CB	3:CC:164:ARG:NH1	2.77	0.48
5:CE:136:MET:C	5:CE:138:ALA:N	2.72	0.48
6:CF:42:GLU:O	6:CF:44:GLY:N	2.47	0.48
8:CH:35:ILE:HG23	8:CH:111:ILE:CD1	2.43	0.48
10:CJ:96:ILE:HG12	10:CJ:96:ILE:O	2.14	0.48
12:CL:23:LYS:O	12:CL:24:VAL:HG23	2.13	0.48
13:CM:82:MET:O	13:CM:83:ASP:C	2.56	0.48
15:CO:32:LEU:O	15:CO:33:THR:C	2.57	0.48
17:CQ:2:PRO:O	17:CQ:3:LYS:C	2.56	0.48
18:CR:35:ARG:C	18:CR:37:VAL:H	2.20	0.48
19:CS:20:LEU:CA	19:CS:23:ASN:HB3	2.42	0.48
24:CY:56:ARG:O	24:CY:60:ASP:HB3	2.14	0.48
27:D2:18:PRO:O	27:D2:21:LEU:HB2	2.13	0.48
27:D2:59:ARG:O	27:D2:60:LEU:C	2.57	0.48
30:D5:42:PRO:HB2	30:D5:43:HIS:HD2	1.79	0.48
33:D8:7:HIS:HB2	33:D8:59:LYS:HD2	1.96	0.48
35:DA:271(C):C:H2'	35:DA:271(D):G:C8	2.49	0.48
35:DA:902:C:O2'	35:DA:903:C:H5'	2.13	0.48
35:DA:1171:G:H3'	35:DA:1173:G:C4'	2.42	0.48
35:DA:1602:U:H3'	35:DA:1603:A:C5'	2.44	0.48
35:DA:1777:U:O2'	35:DA:1778:U:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2075:U:H2'	35:DA:2238:G:N2	2.29	0.48
35:DA:2515:C:O2'	35:DA:2516:G:H5'	2.14	0.48
36:DB:37:C:H2'	36:DB:38:C:H5'	1.95	0.48
37:DC:86:ALA:HB3	37:DC:94:VAL:HG21	1.96	0.48
39:DE:30:PRO:HD3	39:DE:180:ASN:ND2	2.29	0.48
39:DE:69:LYS:NZ	39:DE:90:THR:H	2.11	0.48
39:DE:174:ASP:OD2	39:DE:175:VAL:N	2.45	0.48
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.21	0.48
41:DG:82:LEU:HD22	41:DG:87:PRO:CG	2.24	0.48
42:DH:100:GLY:C	42:DH:102:ALA:N	2.68	0.48
59:DI:2:LYS:CD	59:DI:20:ASP:HB3	2.43	0.48
48:DP:23:PRO:HD2	48:DP:33:ARG:CZ	2.44	0.48
48:DP:49:ARG:O	48:DP:49:ARG:HG2	2.09	0.48
48:DP:65:ARG:O	48:DP:68:GLN:HB3	2.14	0.48
48:DP:129:ALA:C	48:DP:130:PHE:HD2	2.22	0.48
51:DS:34:HIS:ND1	51:DS:54:LEU:HB2	2.28	0.48
52:DT:29:ARG:HG2	52:DT:86:ILE:HG23	1.96	0.48
52:DT:50:ILE:HA	52:DT:99:LEU:HD11	1.94	0.48
54:DV:18:LEU:CD2	54:DV:19:LYS:H	2.25	0.48
57:DY:7:VAL:CB	57:DY:8:LYS:HZ2	2.26	0.48
57:DY:45:VAL:HA	57:DY:62:GLU:HB2	1.95	0.48
58:DZ:30:ASN:HD21	58:DZ:33:LEU:N	2.12	0.48
1:AA:56:U:H4'	59:DI:82:ARG:HH22	1.79	0.47
1:AA:332:G:O2'	1:AA:333:G:H5'	2.13	0.47
1:AA:438:G:H4'	4:AD:123:HIS:CE1	2.49	0.47
1:AA:515:G:O2'	1:AA:516:U:H5'	2.14	0.47
1:AA:1188:A:H2'	1:AA:1189:C:H5'	1.94	0.47
1:AA:1269:A:C2	1:AA:1313:U:O4'	2.67	0.47
1:AA:1445:C:H2'	1:AA:1446:U:C5'	2.33	0.47
3:AC:6:HIS:CB	14:AN:49:HIS:HD2	2.27	0.47
5:AE:51:VAL:O	5:AE:52:PRO:C	2.56	0.47
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.95	0.47
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.14	0.47
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.47	0.47
19:AS:66:MET:HB2	19:AS:74:PHE:CZ	2.49	0.47
22:AV:37:A:H2'	22:AV:38:A:O4'	2.14	0.47
22:AW:68:C:H2'	22:AW:69:G:C5'	2.44	0.47
25:B0:25:ARG:HD3	25:B0:29:GLN:NE2	2.29	0.47
26:B1:47:GLN:HG3	35:BA:2091:U:O2'	2.14	0.47
30:B5:46:CYS:O	30:B5:48:GLU:N	2.46	0.47
34:B9:27:CYS:SG	34:B9:29:ASN:ND2	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:549:G:C3'	35:BA:551:G:H5"	2.43	0.47
35:BA:1550:C:H2'	35:BA:1551:C:H6	1.79	0.47
35:BA:2334:G:H21	51:BS:18:ILE:HG12	1.76	0.47
35:BA:2892:A:H3'	35:BA:2893:G:H4'	1.95	0.47
37:BC:213:TYR:CB	37:BC:219:GLY:H	2.27	0.47
39:BE:37:ARG:HA	39:BE:42:ASP:OD2	2.13	0.47
39:BE:69:LYS:NZ	39:BE:90:THR:H	2.12	0.47
39:BE:103:ASP:OD2	39:BE:168:MET:HE2	2.14	0.47
45:BK:101:TRP:NE1	45:BK:140:GLY:HA3	2.29	0.47
45:BK:123:ALA:O	45:BK:127:ILE:HG12	2.13	0.47
46:BN:56:ASN:ND2	46:BN:126:PRO:HD3	2.29	0.47
50:BR:66:VAL:HG11	50:BR:79:LEU:CD1	2.43	0.47
52:BT:108:ARG:HA	52:BT:111:ARG:HH12	1.78	0.47
53:BU:79:PHE:CZ	53:BU:83:LEU:HD22	2.49	0.47
58:BZ:24:LEU:HD21	58:BZ:86:VAL:CG1	2.43	0.47
1:CA:167:G:O2'	1:CA:168:G:H5'	2.15	0.47
1:CA:1006:C:H2'	1:CA:1007:C:H6	1.77	0.47
1:CA:1287:A:H2	1:CA:1353:G:N3	2.11	0.47
1:CA:1292:U:H5'	9:CI:38:GLN:HE21	1.77	0.47
2:CB:28:PHE:CZ	2:CB:31:TYR:HB2	2.48	0.47
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.96	0.47
6:CF:42:GLU:C	6:CF:44:GLY:N	2.69	0.47
6:CF:96:PRO:HB3	18:CR:30:ASP:OD2	2.13	0.47
9:CI:53:VAL:C	9:CI:55:ALA:H	2.22	0.47
9:CI:83:ARG:HA	9:CI:86:VAL:HG12	1.96	0.47
10:CJ:48:THR:CG2	10:CJ:62:HIS:HB3	2.44	0.47
10:CJ:82:ILE:HG22	10:CJ:82:ILE:O	2.13	0.47
11:CK:63:LEU:O	11:CK:63:LEU:HD23	2.14	0.47
21:CU:6:ARG:NH2	21:CU:15:ARG:HH21	2.12	0.47
22:CW:65:G:O2'	22:CW:66:U:H5'	2.14	0.47
24:CY:324:HIS:ND1	24:CY:324:HIS:N	2.57	0.47
27:D2:14:ARG:NH2	35:DA:78:A:OP1	2.47	0.47
33:D8:13:ARG:HA	48:DP:65:ARG:HD3	1.95	0.47
35:DA:195:A:H5"	35:DA:196:A:OP2	2.13	0.47
35:DA:1054:A:H2'	35:DA:1055:G:H8	1.75	0.47
35:DA:1087:G:C2	35:DA:1103:A:C2	3.02	0.47
35:DA:1292:U:H2'	35:DA:1293:C:H6	1.79	0.47
35:DA:1888:G:H3'	35:DA:1888:G:N3	2.29	0.47
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.14	0.47
35:DA:2099:U:O2	35:DA:2099:U:C2'	2.57	0.47
35:DA:2468:G:P	49:DQ:119:ARG:HH22	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2781:A:C5'	35:DA:2782:G:H5'	2.29	0.47
35:DA:2827:C:H5'	35:DA:2828:C:OP2	2.14	0.47
35:DA:2892:A:H2'	35:DA:2893:G:H4'	1.96	0.47
36:DB:89:G:H2'	36:DB:90:A:C8	2.49	0.47
38:DD:223:GLY:C	38:DD:225:ALA:H	2.21	0.47
45:DK:5:VAL:O	45:DK:5:VAL:HG13	2.14	0.47
45:DK:55:VAL:HG22	45:DK:57:ILE:HD11	1.96	0.47
50:DR:95:THR:C	50:DR:117:VAL:HG23	2.38	0.47
50:DR:103:ARG:HD3	50:DR:108:GLY:C	2.38	0.47
1:AA:88:A:H2	1:AA:89:C:H5	1.62	0.47
1:AA:511:C:H1'	4:AD:43:HIS:HE2	1.79	0.47
1:AA:1057:G:H5"	3:AC:154:SER:OG	2.14	0.47
1:AA:1256:A:H5'	1:AA:1257:U:OP1	2.14	0.47
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.78	0.47
3:AC:23:TYR:CD2	3:AC:24:ALA:N	2.82	0.47
3:AC:106:VAL:HG12	3:AC:108:ASN:C	2.39	0.47
4:AD:98:GLU:C	4:AD:100:ARG:H	2.22	0.47
6:AF:11:ASN:O	6:AF:14:LEU:HG	2.14	0.47
7:AG:18:TYR:CD2	7:AG:59:LEU:HB2	2.48	0.47
8:AH:86:ILE:HG22	8:AH:87:SER:H	1.74	0.47
9:AI:83:ARG:HA	9:AI:86:VAL:HG12	1.96	0.47
19:AS:33:THR:OG1	19:AS:34:TRP:N	2.47	0.47
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.13	0.47
22:AV:23:A:H2'	22:AV:24:G:C8	2.49	0.47
22:AW:9:A:C4'	22:AW:46:G:H5'	2.40	0.47
22:AW:42:C:H2'	22:AW:43:C:C6	2.49	0.47
24:AY:179:LEU:C	24:AY:181:SER:H	2.22	0.47
25:B0:71:ASP:C	25:B0:73:GLY:H	2.22	0.47
30:B5:45:VAL:HG22	30:B5:51:TYR:CD2	2.50	0.47
35:BA:9:U:H5"	46:BN:115:ARG:NH2	2.29	0.47
35:BA:301:G:C4	35:BA:302:C:C5	3.02	0.47
35:BA:729:G:N7	38:BD:208:LYS:HB2	2.29	0.47
35:BA:907:U:OP1	49:BQ:24:GLY:N	2.46	0.47
35:BA:1077:A:H2'	35:BA:1078:U:O4'	2.14	0.47
35:BA:1411:C:H2'	35:BA:1412:A:H8	1.79	0.47
35:BA:1665:A:O2'	35:BA:1666:G:H5'	2.14	0.47
35:BA:2096:U:O2'	35:BA:2097:C:H5'	2.14	0.47
35:BA:2335:A:C8	35:BA:2337:G:C5	3.02	0.47
35:BA:2537:U:H2'	35:BA:2538:C:H6	1.75	0.47
35:BA:2672:G:C2'	35:BA:2673:G:H5"	2.44	0.47
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.29	0.47
38:BD:92:ILE:CG2	38:BD:93:ALA:N	2.78	0.47
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.82	0.47
39:BE:69:LYS:HD3	39:BE:89:ASP:OD1	2.13	0.47
39:BE:101:ARG:HD3	39:BE:169:ASN:HD21	1.79	0.47
43:BI:6:LEU:HA	43:BI:15:VAL:HG13	1.96	0.47
43:BI:71:ILE:HG23	43:BI:72:LEU:N	2.29	0.47
47:BO:77:ILE:HD11	52:BT:72:VAL:HG13	1.96	0.47
48:BP:26:GLY:HA2	48:BP:30:THR:HG21	1.96	0.47
48:BP:70:GLN:O	48:BP:71:VAL:C	2.57	0.47
49:BQ:5:ARG:O	49:BQ:6:ARG:CG	2.62	0.47
52:BT:14:TYR:H	52:BT:14:TYR:HD1	1.61	0.47
52:BT:30:VAL:CG1	52:BT:84:GLN:HG3	2.23	0.47
53:BU:28:ARG:NH1	53:BU:38:THR:OG1	2.46	0.47
53:BU:49:HIS:O	53:BU:52:ARG:HB2	2.14	0.47
58:BZ:109:ALA:HB1	58:BZ:145:GLU:HG2	1.95	0.47
1:CA:262:A:H5"	20:CT:76:ALA:HB2	1.96	0.47
1:CA:445:G:H2'	1:CA:446:G:H8	1.79	0.47
1:CA:560:U:O2'	1:CA:561:U:OP2	2.25	0.47
1:CA:598:U:H4'	8:CH:94:TYR:CG	2.49	0.47
1:CA:688:G:H2'	1:CA:689:C:C6	2.48	0.47
1:CA:959:A:H2'	1:CA:960:U:H4'	1.96	0.47
1:CA:1432:G:O2'	1:CA:1468:A:N6	2.48	0.47
3:CC:89:GLU:HG3	3:CC:93:LYS:HZ1	1.76	0.47
4:CD:125:HIS:O	4:CD:126:ILE:HD13	2.14	0.47
5:CE:15:ARG:HD2	5:CE:26:PHE:CD2	2.49	0.47
6:CF:11:ASN:O	6:CF:14:LEU:HG	2.14	0.47
7:CG:15:ASP:HB3	7:CG:19:GLY:N	2.29	0.47
12:CL:55:VAL:CG1	12:CL:56:ALA:H	2.19	0.47
13:CM:115:LYS:O	13:CM:117:VAL:HG23	2.13	0.47
13:CM:117:VAL:CG1	13:CM:118:ALA:N	2.77	0.47
19:CS:19:VAL:O	19:CS:19:VAL:HG12	2.13	0.47
20:CT:48:LYS:O	20:CT:49:ALA:HB2	2.14	0.47
22:CW:59:U:H2'	22:CW:60:U:H5'	1.96	0.47
24:CY:258:ILE:C	24:CY:258:ILE:CD1	2.82	0.47
26:D1:82:LEU:O	26:D1:83:GLU:CB	2.62	0.47
27:D2:50:ILE:HD12	27:D2:50:ILE:N	2.29	0.47
29:D4:53:THR:O	29:D4:54:LYS:HB2	2.14	0.47
31:D6:28:ARG:NH2	31:D6:33:LYS:HE3	2.30	0.47
31:D6:51:GLU:O	31:D6:52:VAL:CB	2.61	0.47
32:D7:8:ASN:HD22	32:D7:9:ARG:N	2.07	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:39:LYS:O	33:D8:43:GLN:HB2	2.13	0.47
35:DA:154(A):C:O4'	35:DA:154(A):C:O2	2.29	0.47
35:DA:265:A:H1'	35:DA:266:G:O4'	2.14	0.47
35:DA:389:G:H22	48:DP:72:PRO:CD	2.26	0.47
35:DA:1058:G:O3'	45:DK:1:MET:HE1	2.14	0.47
35:DA:1251:C:OP1	53:DU:10:ARG:HG3	2.14	0.47
35:DA:1789:A:OP1	38:DD:222:ARG:HG3	2.15	0.47
36:DB:13:A:O2'	36:DB:14:U:H5"	2.14	0.47
36:DB:74:U:H2'	36:DB:75:G:O4'	2.14	0.47
37:DC:87:GLU:CG	37:DC:94:VAL:HG22	2.44	0.47
47:DO:53:LYS:H	47:DO:53:LYS:HE3	1.73	0.47
51:DS:14:VAL:HG22	51:DS:91:PRO:HD3	1.96	0.47
58:DZ:61:LEU:HD22	58:DZ:61:LEU:N	2.28	0.47
58:DZ:63:ASP:O	58:DZ:65:GLN:N	2.47	0.47
1:AA:39:G:O2'	1:AA:40:C:H5'	2.15	0.47
1:AA:148:G:O2'	1:AA:149:A:H5'	2.14	0.47
1:AA:375:U:H4'	16:AP:17:TYR:HE2	1.79	0.47
1:AA:376:G:O3'	16:AP:5:ARG:NH1	2.47	0.47
1:AA:877:C:OP1	8:AH:88:LYS:HD3	2.14	0.47
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.79	0.47
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	2.15	0.47
2:AB:58:ILE:O	2:AB:62:ALA:HB2	2.14	0.47
8:AH:35:ILE:HG23	8:AH:111:ILE:CD1	2.40	0.47
9:AI:48:GLU:OE2	9:AI:51:ARG:HD2	2.14	0.47
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	2.15	0.47
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.79	0.47
10:AJ:37:PRO:CA	10:AJ:72:VAL:HG22	2.40	0.47
18:AR:21:LYS:NZ	18:AR:55:ARG:N	2.61	0.47
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.45	0.47
22:AV:37:A:H3'	22:AV:38:A:H8	1.79	0.47
24:AY:31:ARG:NH2	45:BK:18:THR:O	2.47	0.47
24:AY:70:GLN:C	24:AY:72:LEU:N	2.66	0.47
24:AY:332:ASP:O	24:AY:336:VAL:HG23	2.13	0.47
31:B6:18:ARG:NH1	31:B6:43:CYS:HB2	2.29	0.47
31:B6:19:ARG:H	31:B6:19:ARG:HD2	1.78	0.47
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.13	0.47
35:BA:256:A:H2'	35:BA:257:A:H8	1.79	0.47
35:BA:719:C:O2'	35:BA:720:C:H5'	2.14	0.47
35:BA:1564:C:O2'	35:BA:1565:C:H5'	2.14	0.47
35:BA:2162:G:H2'	35:BA:2163:C:C6	2.44	0.47
35:BA:2712:U:OP1	35:BA:2714:G:H4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2785:C:H2'	35:BA:2786:U:O4'	2.15	0.47
36:BB:105:A:H2'	36:BB:106:G:O4'	2.14	0.47
37:BC:58:VAL:HG21	37:BC:166:ASP:H	1.80	0.47
38:BD:158:ALA:HB3	38:BD:161:THR:CG2	2.43	0.47
39:BE:27:LEU:HD13	39:BE:181:LEU:HD12	1.96	0.47
39:BE:63:LEU:O	39:BE:64:LYS:C	2.56	0.47
39:BE:87:GLU:O	39:BE:88:GLY:C	2.56	0.47
42:BH:96:ALA:HB2	42:BH:105:LEU:HA	1.94	0.47
45:BK:5:VAL:O	45:BK:5:VAL:HG13	2.14	0.47
47:BO:102:VAL:HG23	47:BO:121:VAL:HA	1.96	0.47
51:BS:35:ILE:HG23	51:BS:69:VAL:HG11	1.96	0.47
51:BS:51:ALA:O	51:BS:69:VAL:HG22	2.14	0.47
52:BT:1:MET:HG3	52:BT:2:ASN:N	2.29	0.47
52:BT:106:SER:O	52:BT:107:ASP:OD1	2.33	0.47
56:BX:39:ILE:O	56:BX:40:LYS:C	2.57	0.47
57:BY:28:LYS:CB	57:BY:38:ILE:H	2.24	0.47
57:BY:49:VAL:CG1	57:BY:53:PRO:HG3	2.42	0.47
58:BZ:7:ALA:HB2	58:BZ:59:LEU:CD2	2.35	0.47
1:CA:179:A:H2'	1:CA:180:U:C6	2.49	0.47
1:CA:632:A:H8	1:CA:633:G:C8	2.32	0.47
1:CA:1060:C:H4'	10:CJ:52:GLY:N	2.29	0.47
1:CA:1229:A:OP2	13:CM:114:ARG:HD3	2.15	0.47
1:CA:1253:G:O2'	1:CA:1254:C:H5'	2.14	0.47
1:CA:1346:A:C4	7:CG:10:ARG:NH1	2.82	0.47
2:CB:161:ALA:HA	2:CB:182:ILE:HG23	1.95	0.47
3:CC:152:ILE:HG12	3:CC:167:TRP:HD1	1.78	0.47
4:CD:28:SER:O	4:CD:30:LYS:HG2	2.14	0.47
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.95	0.47
4:CD:160:GLN:O	4:CD:163:GLU:HB3	2.14	0.47
9:CI:22:GLY:HA3	9:CI:60:ASP:OD2	2.14	0.47
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HD22	1.80	0.47
20:CT:37:SER:HB3	20:CT:84:LEU:CD2	2.44	0.47
21:CU:12:LYS:O	21:CU:16:GLY:N	2.47	0.47
22:CV:43:C:H2'	22:CV:44:G:C8	2.49	0.47
22:CV:66:U:H2'	22:CV:67:C:C6	2.48	0.47
24:CY:180:LEU:C	24:CY:182:PRO:HD2	2.39	0.47
33:D8:3:LYS:HE2	35:DA:242:G:O5'	2.14	0.47
35:DA:66:C:O2'	35:DA:67:U:H5'	2.14	0.47
35:DA:784:A:C5'	38:DD:227:ASN:HD21	2.14	0.47
35:DA:797:C:P	40:DF:62:ARG:HG3	2.55	0.47
35:DA:919:G:H5'	36:DB:81:G:H1'	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1437:C:H6	35:DA:1437:C:C5'	2.28	0.47
35:DA:2203:U:H1'	35:DA:2221:G:H22	1.79	0.47
35:DA:2243:U:H2'	35:DA:2244:U:C6	2.49	0.47
35:DA:2277:G:H2'	35:DA:2278:A:H5'	1.97	0.47
35:DA:2359:C:H2'	35:DA:2360:A:O4'	2.14	0.47
35:DA:2572:A:C8	39:DE:144:ARG:HD2	2.49	0.47
36:DB:40:U:H3'	36:DB:41:U:C5'	2.44	0.47
38:DD:133:LEU:HG	38:DD:189:CYS:O	2.14	0.47
38:DD:218:ARG:HB3	38:DD:219:PRO:HD2	1.96	0.47
59:DI:8:PRO:O	59:DI:13:GLY:CA	2.62	0.47
59:DI:16:GLY:O	59:DI:17:GLN:O	2.33	0.47
59:DI:40:THR:O	59:DI:44:LEU:HB2	2.15	0.47
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD2	1.79	0.47
50:DR:60:LEU:HD23	50:DR:60:LEU:C	2.38	0.47
51:DS:57:LYS:O	51:DS:58:LEU:HB3	2.13	0.47
52:DT:1:MET:CG	52:DT:2:ASN:H	2.27	0.47
52:DT:81:PRO:C	52:DT:82:LEU:HD12	2.39	0.47
52:DT:112:ARG:CB	52:DT:112:ARG:NH1	2.77	0.47
53:DU:62:ILE:HD12	53:DU:76:TYR:CZ	2.49	0.47
57:DY:79:CYS:SG	57:DY:80:GLY:N	2.87	0.47
1:AA:157:G:O2'	1:AA:158:G:H5'	2.14	0.47
1:AA:543:C:C2	1:AA:544:G:C8	3.02	0.47
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.49	0.47
1:AA:889:A:N1	1:AA:907:A:H5"	2.29	0.47
1:AA:954:G:H2'	1:AA:955:U:H6	1.79	0.47
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.49	0.47
1:AA:1502:A:H2	1:AA:1505:G:H1	1.60	0.47
2:AB:88:ALA:HA	2:AB:226:ARG:HH12	1.80	0.47
3:AC:164:ARG:HH11	3:AC:164:ARG:HB3	1.78	0.47
3:AC:167:TRP:CG	3:AC:168:ALA:N	2.82	0.47
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.79	0.47
7:AG:27:ILE:HA	7:AG:30:ILE:HG12	1.96	0.47
8:AH:109:ILE:HG13	8:AH:122:ARG:HH21	1.79	0.47
22:AW:3:C:H6	22:AW:3:C:O5'	1.97	0.47
24:AY:61:THR:O	24:AY:65:LEU:HB2	2.15	0.47
24:AY:112:ALA:C	24:AY:114:LYS:H	2.22	0.47
31:B6:25:LYS:HE2	31:B6:27:LYS:NZ	2.29	0.47
33:B8:53:PRO:O	33:B8:54:GLU:C	2.57	0.47
33:B8:57:ARG:C	33:B8:59:LYS:N	2.71	0.47
35:BA:271(R):G:H2'	35:BA:271(S):G:H8	1.79	0.47
35:BA:650:C:H3'	35:BA:651:G:C5'	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:986:C:O2'	35:BA:987:G:H5'	2.15	0.47
35:BA:1241:A:O2'	35:BA:1242:A:H5'	2.13	0.47
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.15	0.47
35:BA:1912:A:O2'	35:BA:1913:A:C5'	2.62	0.47
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.79	0.47
35:BA:2617:C:H2'	35:BA:2618:G:H5'	1.96	0.47
39:BE:11:MET:C	52:BT:8:LYS:HZ1	2.21	0.47
39:BE:104:VAL:HG11	39:BE:188:VAL:HG21	1.95	0.47
39:BE:172:VAL:HG13	39:BE:182:LEU:HD11	1.96	0.47
41:BG:125:PHE:HB3	41:BG:166:ASP:OD2	2.13	0.47
42:BH:158:HIS:CD2	42:BH:170:ARG:HA	2.47	0.47
47:BO:64:ARG:NH1	47:BO:83:ALA:HB3	2.29	0.47
48:BP:147:LEU:HD12	48:BP:148:LEU:N	2.20	0.47
51:BS:16:ASN:O	51:BS:19:LYS:HB3	2.13	0.47
57:BY:42:VAL:HG11	57:BY:65:ALA:HB3	1.94	0.47
58:BZ:26:GLY:HA2	58:BZ:85:HIS:CD2	2.50	0.47
58:BZ:124:ILE:HD13	58:BZ:163:LEU:HD11	1.96	0.47
1:CA:61:G:O2'	1:CA:62:U:H5'	2.15	0.47
1:CA:413:G:O6	4:CD:35:ARG:HD3	2.13	0.47
1:CA:658:G:H1'	15:CO:22:THR:HB	1.97	0.47
1:CA:674:G:H21	11:CK:116:HIS:HB2	1.79	0.47
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.48	0.47
1:CA:1366:C:O2'	1:CA:1367:C:H5'	2.14	0.47
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.29	0.47
2:CB:222:ILE:HG22	2:CB:226:ARG:HH21	1.78	0.47
3:CC:6:HIS:CB	14:CN:49:HIS:HD2	2.28	0.47
5:CE:75:THR:HA	5:CE:115:VAL:HG13	1.96	0.47
6:CF:62:TRP:HH2	6:CF:64:GLN:HE21	1.62	0.47
7:CG:81:GLY:C	7:CG:83:ALA:H	2.22	0.47
9:CI:50:LEU:C	9:CI:52:ALA:H	2.22	0.47
10:CJ:6:ILE:CB	10:CJ:98:ILE:HG13	2.43	0.47
10:CJ:22:LYS:HZ3	10:CJ:90:LEU:CD1	2.23	0.47
10:CJ:37:PRO:CA	10:CJ:72:VAL:HG22	2.41	0.47
12:CL:75:HIS:HA	12:CL:102:ARG:HH22	1.80	0.47
22:CV:15:G:H2'	22:CV:16:U:C5	2.50	0.47
22:CW:48:C:H2'	22:CW:59:U:H4'	1.96	0.47
22:CW:70:G:C2'	22:CW:71:G:H5"	2.45	0.47
24:CY:74:GLU:C	24:CY:76:MET:H	2.22	0.47
24:CY:190:VAL:O	24:CY:191:ARG:CB	2.62	0.47
31:D6:13:CYS:HB3	31:D6:49:HIS:HB3	1.95	0.47
35:DA:270:A:O2'	35:DA:271:A:H5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1062:G:H2'	35:DA:1063:G:H8	1.79	0.47
35:DA:2162:G:H2'	35:DA:2163:C:C6	2.44	0.47
35:DA:2847:U:OP1	52:DT:98:LYS:HD3	2.14	0.47
36:DB:114:C:O2'	36:DB:115:G:H5'	2.14	0.47
37:DC:43:VAL:CG2	37:DC:178:ALA:HB2	2.42	0.47
37:DC:65:PRO:HG2	37:DC:189:ILE:CB	2.44	0.47
40:DF:3:GLU:CA	40:DF:24:LEU:HG	2.34	0.47
59:DI:5:LEU:HD22	59:DI:9:LEU:HD12	1.97	0.47
59:DI:52:ARG:HB3	59:DI:56:LYS:HE2	1.95	0.47
59:DI:111:PRO:C	59:DI:113:ARG:H	2.22	0.47
44:DJ:22:UNK:CB	44:DJ:119:UNK:HA	2.44	0.47
45:DK:93:ARG:NH1	45:DK:94:GLU:HB2	2.29	0.47
45:DK:100:THR:HG22	45:DK:139:VAL:HB	1.96	0.47
46:DN:65:LYS:O	46:DN:66:LYS:C	2.57	0.47
47:DO:14:THR:O	47:DO:51:ALA:HB3	2.14	0.47
48:DP:123:LEU:HD23	48:DP:123:LEU:N	2.30	0.47
54:DV:34:GLU:O	54:DV:36:PRO:CD	2.62	0.47
55:DW:69:LEU:HA	55:DW:108:GLY:O	2.15	0.47
57:DY:2:ARG:N	57:DY:5:MET:SD	2.88	0.47
1:AA:175:C:H2'	1:AA:176:C:H6	1.80	0.47
1:AA:300:A:H2'	1:AA:301:G:O4'	2.14	0.47
1:AA:473:G:OP1	16:AP:81:ARG:HB2	2.15	0.47
1:AA:889:A:H5'	1:AA:891:U:C1'	2.44	0.47
1:AA:1017:G:H2'	1:AA:1018:C:H6	1.79	0.47
1:AA:1151:A:C4	1:AA:1152:A:N7	2.82	0.47
3:AC:153:VAL:HA	3:AC:197:GLY:O	2.14	0.47
3:AC:164:ARG:NH1	3:AC:164:ARG:CB	2.78	0.47
4:AD:91:SER:O	4:AD:94:LEU:N	2.47	0.47
4:AD:100:ARG:CZ	4:AD:137:SER:HA	2.44	0.47
7:AG:28:ASN:O	7:AG:31:MET:HB3	2.14	0.47
9:AI:91:ASP:C	9:AI:92:TYR:HD1	2.22	0.47
22:AV:39:U:O2'	22:AV:40:C:H5'	2.13	0.47
22:AW:19:G:P	22:AW:60:U:O4	2.73	0.47
27:B2:38:GLN:HB2	27:B2:44:LEU:HB2	1.97	0.47
32:B7:8:ASN:HD22	32:B7:9:ARG:N	2.09	0.47
33:B8:15:LYS:N	48:BP:65:ARG:NH2	2.63	0.47
35:BA:889:C:O2'	35:BA:890:A:O5'	2.29	0.47
35:BA:965:C:H6	35:BA:965:C:H5"	1.79	0.47
35:BA:975(A):G:H1'	35:BA:990:A:C2	2.49	0.47
35:BA:999:U:H2'	35:BA:1000:A:H5'	1.96	0.47
35:BA:1163:G:O2'	35:BA:1164:G:H5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1789:A:OP1	38:BD:222:ARG:HG3	2.15	0.47
35:BA:2051:A:H5'	35:BA:2578:G:O4'	2.15	0.47
35:BA:2143:C:H2'	35:BA:2144:U:O4'	2.15	0.47
35:BA:2894:G:N3	35:BA:2894:G:H2'	2.30	0.47
37:BC:178:ALA:HB1	37:BC:190:ARG:CB	2.45	0.47
40:BF:140:LEU:HD13	40:BF:170:LEU:HD21	1.96	0.47
41:BG:161:THR:HG22	41:BG:162:THR:H	1.76	0.47
46:BN:51:PHE:CZ	46:BN:119:ARG:HD2	2.49	0.47
52:BT:31:SER:OG	52:BT:32:TYR:N	2.48	0.47
52:BT:41:ARG:HB3	52:BT:41:ARG:NH1	2.29	0.47
52:BT:100:TYR:O	52:BT:102:ILE:N	2.48	0.47
53:BU:113:ALA:C	53:BU:115:ALA:H	2.22	0.47
57:BY:26:LYS:O	57:BY:28:LYS:HE3	2.15	0.47
58:BZ:117:LEU:HD23	58:BZ:117:LEU:N	2.23	0.47
1:CA:57:G:O6	1:CA:356:A:C2	2.67	0.47
1:CA:372:C:C4'	1:CA:373:A:OP1	2.54	0.47
1:CA:677:U:H3	1:CA:713:G:H22	1.61	0.47
1:CA:1097:C:H2'	1:CA:1098:C:C6	2.48	0.47
1:CA:1111:A:N1	3:CC:177:THR:HG23	2.29	0.47
1:CA:1188:A:H2'	1:CA:1189:C:H5'	1.95	0.47
1:CA:1452:C:H4'	1:CA:1456:G:N3	2.28	0.47
5:CE:78:HIS:HE1	5:CE:143:ARG:H	1.62	0.47
14:CN:36:PHE:HD1	14:CN:37:PHE:CD2	2.33	0.47
16:CP:20:VAL:HG23	16:CP:34:GLU:C	2.40	0.47
19:CS:16:LEU:C	19:CS:18:LYS:N	2.70	0.47
22:CV:64:A:O2'	22:CV:65:G:H5'	2.14	0.47
24:CY:38:LEU:O	24:CY:40:ASN:ND2	2.47	0.47
24:CY:253:HIS:H	24:CY:258:ILE:HD11	1.79	0.47
25:D0:41:ARG:CB	35:DA:2330:G:H1'	2.44	0.47
25:D0:66:VAL:HG12	25:D0:67:VAL:N	2.29	0.47
26:D1:67:ILE:H	26:D1:68:PRO:HD2	1.78	0.47
31:D6:20:ASN:CG	31:D6:21:TYR:H	2.22	0.47
33:D8:63:PRO:C	33:D8:64:TYR:O	2.56	0.47
35:DA:225:A:C2'	35:DA:226:G:H5'	2.44	0.47
35:DA:320:A:C8	40:DF:136:THR:HG21	2.50	0.47
35:DA:360:G:H2'	35:DA:361:G:H8	1.79	0.47
35:DA:650:C:H3'	35:DA:651:G:C5'	2.40	0.47
35:DA:953:A:C2'	35:DA:954:G:H5'	2.44	0.47
35:DA:1181:C:O2'	35:DA:1182:A:H5'	2.14	0.47
35:DA:1309:G:O2'	35:DA:1310:G:H5'	2.15	0.47
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1778:U:H2'	35:DA:1784:A:N6	2.30	0.47
35:DA:2308:G:N2	41:DG:79:ASN:CB	2.77	0.47
35:DA:2335:A:C8	35:DA:2337:G:C5	3.02	0.47
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.13	0.47
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.14	0.47
37:DC:47:LEU:HG	37:DC:48:GLY:N	2.30	0.47
38:DD:76:PRO:HB2	38:DD:116:GLN:HE21	1.79	0.47
39:DE:26:ILE:HG22	39:DE:27:LEU:N	2.27	0.47
41:DG:155:MET:O	41:DG:155:MET:HG3	2.14	0.47
42:DH:20:ALA:HB1	42:DH:21:PRO:HD2	1.93	0.47
42:DH:106:THR:C	42:DH:107:VAL:HG13	2.40	0.47
46:DN:57:ALA:CB	46:DN:124:ALA:HA	2.37	0.47
47:DO:77:ILE:HD11	52:DT:72:VAL:HG13	1.96	0.47
48:DP:75:ILE:HD12	48:DP:75:ILE:H	1.80	0.47
50:DR:44:LEU:CD1	50:DR:48:VAL:HG23	2.45	0.47
50:DR:81:ASP:OD2	50:DR:81:ASP:N	2.42	0.47
50:DR:93:GLY:O	50:DR:117:VAL:HG21	2.15	0.47
52:DT:16:ARG:HB2	52:DT:79:HIS:CD2	2.50	0.47
52:DT:78:LEU:HD22	52:DT:79:HIS:CE1	2.49	0.47
53:DU:113:ALA:C	53:DU:115:ALA:H	2.22	0.47
58:DZ:27:VAL:HG13	58:DZ:87:ASP:HB3	1.96	0.47
1:AA:40:C:H2'	1:AA:41:G:C8	2.48	0.47
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.14	0.47
1:AA:401:C:H2'	1:AA:402:G:H8	1.79	0.47
1:AA:482:A:H2'	1:AA:482:A:N3	2.30	0.47
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.49	0.47
1:AA:1107:C:C4	1:AA:1108:G:N7	2.83	0.47
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.14	0.47
4:AD:133:VAL:HG13	4:AD:135:LEU:HD22	1.97	0.47
6:AF:55:ASP:CB	6:AF:86:ARG:HH12	2.27	0.47
6:AF:75:LEU:O	6:AF:75:LEU:HD23	2.14	0.47
11:AK:43:SER:HB3	11:AK:68:ALA:HB2	1.96	0.47
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.15	0.47
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.30	0.47
17:AQ:68:ARG:N	17:AQ:70:ARG:NH1	2.62	0.47
20:AT:37:SER:HB3	20:AT:84:LEU:CD2	2.45	0.47
20:AT:100:ILE:HD12	20:AT:100:ILE:N	2.29	0.47
22:AW:29:G:H2'	22:AW:30:G:H8	1.79	0.47
23:AX:19:U:H2'	23:AX:20:U:C6	2.49	0.47
27:B2:53:LEU:O	27:B2:53:LEU:HD22	2.14	0.47
31:B6:20:ASN:O	31:B6:21:TYR:CD1	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:22:VAL:O	33:B8:49:VAL:HG23	2.15	0.47
33:B8:24:ALA:O	33:B8:46:ARG:HA	2.14	0.47
33:B8:31:HIS:CG	33:B8:32:LEU:H	2.33	0.47
35:BA:110:G:O2'	35:BA:111:A:H5'	2.14	0.47
35:BA:826:U:H2'	35:BA:828:U:O4'	2.14	0.47
35:BA:1464:C:O2'	35:BA:1528:A:H8	1.96	0.47
35:BA:1557:C:H2'	35:BA:1558:A:C2	2.49	0.47
35:BA:2203:U:O2	35:BA:2203:U:H2'	2.15	0.47
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.79	0.47
35:BA:2757:A:N1	42:BH:67:LEU:HD13	2.29	0.47
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.13	0.47
35:BA:2878:U:H2'	35:BA:2879:C:H5'	1.96	0.47
36:BB:60:C:C2	36:BB:61:G:C8	3.02	0.47
40:BF:9:ILE:HG12	40:BF:14:PRO:CA	2.43	0.47
40:BF:10:PRO:C	40:BF:128:ALA:HB2	2.39	0.47
41:BG:83:ARG:N	41:BG:83:ARG:CD	2.78	0.47
42:BH:141:VAL:HG13	42:BH:142:GLY:N	2.28	0.47
44:BJ:96:UNK:C	44:BJ:132:UNK:CB	2.92	0.47
45:BK:57:ILE:HG13	45:BK:67:PHE:CB	2.45	0.47
45:BK:98:ARG:CD	45:BK:139:VAL:HG22	2.40	0.47
45:BK:100:THR:HG22	45:BK:139:VAL:HB	1.96	0.47
48:BP:135:LEU:CD1	48:BP:139:LYS:HD2	2.44	0.47
50:BR:95:THR:C	50:BR:117:VAL:HG23	2.39	0.47
51:BS:95:HIS:CG	51:BS:96:GLY:N	2.82	0.47
53:BU:92:ARG:HD3	54:BV:11:GLN:CG	2.43	0.47
56:BX:83:VAL:O	56:BX:84:ALA:C	2.57	0.47
58:BZ:94:GLU:O	58:BZ:96:VAL:N	2.47	0.47
1:CA:299:G:H2'	1:CA:300:A:H8	1.75	0.47
1:CA:360:A:O2'	1:CA:361:G:H5'	2.15	0.47
1:CA:865:A:H2'	1:CA:866:C:C6	2.49	0.47
1:CA:1059:C:O3'	14:CN:45:ARG:NH2	2.48	0.47
1:CA:1107:C:C4	1:CA:1108:G:N7	2.82	0.47
2:CB:138:LEU:O	2:CB:141:GLU:HB3	2.15	0.47
6:CF:94:GLN:O	6:CF:96:PRO:HD3	2.14	0.47
7:CG:15:ASP:CB	7:CG:20:ASP:H	2.27	0.47
7:CG:146:GLU:CD	7:CG:146:GLU:C	2.83	0.47
13:CM:91:ARG:HB3	13:CM:98:VAL:HG22	1.95	0.47
20:CT:49:ALA:O	20:CT:53:LEU:HD12	2.15	0.47
22:CW:76:A:O2'	35:DA:2394:C:N3	2.41	0.47
24:CY:144:ALA:O	24:CY:147:GLN:CB	2.62	0.47
24:CY:279:LEU:C	24:CY:279:LEU:CD2	2.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:41:ILE:O	27:D2:41:ILE:HG13	2.15	0.47
28:D3:36:VAL:O	28:D3:36:VAL:HG23	2.15	0.47
33:D8:52:LYS:O	33:D8:55:ALA:HB3	2.14	0.47
33:D8:53:PRO:HA	33:D8:56:GLU:CB	2.42	0.47
35:DA:384:U:O2'	35:DA:385:C:H5'	2.14	0.47
35:DA:729:G:N7	38:DD:208:LYS:HB2	2.30	0.47
35:DA:803:U:C2'	35:DA:804:A:H5'	2.45	0.47
35:DA:1573:G:C2'	35:DA:1574:C:H5'	2.43	0.47
35:DA:1899:G:O2'	35:DA:1900:A:H5"	2.13	0.47
35:DA:1983:C:O2'	35:DA:1984:G:H5'	2.15	0.47
35:DA:2581:G:N3	35:DA:2581:G:H2'	2.30	0.47
35:DA:2751:G:O2'	35:DA:2752:C:H5'	2.14	0.47
35:DA:2839:G:H5'	50:DR:46:GLY:HA2	1.96	0.47
36:DB:40:U:H1'	36:DB:45:A:H62	1.77	0.47
37:DC:20:TYR:O	37:DC:22:ILE:HG12	2.15	0.47
41:DG:47:LYS:N	41:DG:51:ARG:HG3	2.29	0.47
41:DG:110:ALA:HA	41:DG:140:ILE:O	2.15	0.47
42:DH:47:GLU:HB2	42:DH:51:ARG:NH2	2.28	0.47
42:DH:97:ARG:C	42:DH:125:VAL:HG21	2.39	0.47
42:DH:145:ALA:O	42:DH:146:ALA:C	2.57	0.47
59:DI:14:ASP:O	59:DI:15:VAL:C	2.57	0.47
59:DI:14:ASP:O	59:DI:15:VAL:O	2.33	0.47
59:DI:114:LEU:O	59:DI:115:ALA:C	2.57	0.47
48:DP:95:VAL:HG23	48:DP:125:VAL:HG23	1.95	0.47
52:DT:81:PRO:O	52:DT:82:LEU:HG	2.14	0.47
1:AA:61:G:O2'	1:AA:62:U:H5'	2.15	0.47
1:AA:161:A:H2'	1:AA:162:A:H8	1.80	0.47
1:AA:194:C:C2'	1:AA:195:A:H5"	2.44	0.47
1:AA:313:A:O2'	1:AA:314:C:H5'	2.14	0.47
1:AA:392:G:H2'	1:AA:393:A:C8	2.50	0.47
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.45	0.47
1:AA:865:A:H5'	1:AA:1078:U:C4	2.50	0.47
1:AA:1125:U:H3	10:AJ:5:ARG:NH1	2.13	0.47
1:AA:1294:G:O2'	1:AA:1295:G:H5'	2.14	0.47
1:AA:1441:G:H5"	1:AA:1442:G:O4'	2.15	0.47
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.79	0.47
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.79	0.47
2:AB:70:PHE:CD2	2:AB:163:PHE:HB3	2.50	0.47
2:AB:82:ARG:O	2:AB:86:GLU:HG3	2.15	0.47
2:AB:105:PHE:O	2:AB:106:LYS:C	2.57	0.47
2:AB:204:ASN:HD21	2:AB:207:ALA:CB	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:44:GLY:HA2	6:AF:59:TYR:CE1	2.49	0.47
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.29	0.47
7:AG:83:ALA:HB1	7:AG:85:TYR:CE2	2.50	0.47
8:AH:10:LEU:N	8:AH:10:LEU:CD2	2.77	0.47
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.13	0.47
12:AL:23:LYS:O	12:AL:24:VAL:HG23	2.15	0.47
12:AL:125:PRO:HB2	12:AL:127:GLU:CD	2.39	0.47
15:AO:32:LEU:O	15:AO:33:THR:C	2.57	0.47
15:AO:39:LEU:C	15:AO:39:LEU:HD13	2.39	0.47
16:AP:45:THR:HG23	16:AP:48:TRP:HA	1.96	0.47
17:AQ:22:LEU:HD11	17:AQ:39:SER:HB2	1.96	0.47
17:AQ:57:VAL:CG2	17:AQ:73:VAL:HG13	2.45	0.47
18:AR:86:VAL:O	18:AR:87:ARG:C	2.57	0.47
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.76	0.47
20:AT:49:ALA:HB2	20:AT:99:LEU:HD12	1.95	0.47
21:AU:12:LYS:O	21:AU:16:GLY:N	2.47	0.47
22:AV:47:U:O2'	22:AV:48:C:C5'	2.63	0.47
24:AY:64:SER:O	24:AY:68:ASP:HB2	2.14	0.47
24:AY:177:TYR:O	24:AY:181:SER:HB3	2.15	0.47
24:AY:188:ARG:HB2	24:AY:310:GLN:CG	2.43	0.47
24:AY:191:ARG:HE	24:AY:194:PRO:CD	2.28	0.47
24:AY:241:GLY:O	24:AY:242:VAL:C	2.57	0.47
30:B5:3:LYS:HD3	35:BA:2611:U:O2'	2.14	0.47
30:B5:30:LEU:HD23	30:B5:41:PRO:HA	1.97	0.47
30:B5:42:PRO:HB2	30:B5:43:HIS:HD2	1.79	0.47
35:BA:230:U:O2'	35:BA:231:C:H5'	2.14	0.47
35:BA:239:U:H2'	35:BA:240:G:O4'	2.15	0.47
35:BA:389:G:O6	48:BP:71:VAL:HG23	2.14	0.47
35:BA:390:A:N6	48:BP:71:VAL:CG2	2.78	0.47
35:BA:479:A:H4'	35:BA:480:A:OP1	2.15	0.47
35:BA:494:G:O2'	55:BW:5:ALA:O	2.26	0.47
35:BA:712:G:O2'	35:BA:713:G:H5'	2.14	0.47
35:BA:1184:G:C6	35:BA:1185:C:C4	3.03	0.47
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.18	0.47
35:BA:1979:C:O2'	35:BA:1980:G:H5'	2.15	0.47
35:BA:2133:G:H1'	35:BA:2158:A:H61	1.79	0.47
35:BA:2346:A:C2	35:BA:2383:G:C2	3.02	0.47
35:BA:2503:A:H4'	35:BA:2504:U:OP1	2.15	0.47
35:BA:2620:C:OP1	39:BE:152:LYS:O	2.32	0.47
35:BA:2636:U:H4'	39:BE:80:GLU:CD	2.40	0.47
35:BA:2729:G:H2'	35:BA:2730:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:43:VAL:CG2	37:BC:178:ALA:HB2	2.44	0.47
38:BD:35:LYS:CB	38:BD:36:PRO:HD3	2.45	0.47
39:BE:4:ILE:HG12	39:BE:28:ALA:HB1	1.95	0.47
40:BF:65:TRP:HB3	40:BF:66:PRO:HD3	1.96	0.47
41:BG:98:ARG:HE	41:BG:98:ARG:N	2.12	0.47
41:BG:104:GLU:C	41:BG:106:LEU:H	2.22	0.47
41:BG:161:THR:CG2	41:BG:162:THR:H	2.28	0.47
44:BJ:119:UNK:O	44:BJ:120:UNK:CB	2.61	0.47
45:BK:130:SER:O	45:BK:133:SER:HB2	2.14	0.47
46:BN:31:ALA:O	46:BN:32:THR:C	2.58	0.47
46:BN:34:LEU:HD21	46:BN:120:LEU:HB2	1.96	0.47
47:BO:63:VAL:HB	47:BO:102:VAL:HG12	1.96	0.47
47:BO:93:PRO:HD3	47:BO:114:ILE:CD1	2.43	0.47
47:BO:105:GLU:O	47:BO:109:LYS:HG2	2.13	0.47
50:BR:78:LYS:O	50:BR:82:GLU:HB3	2.15	0.47
52:BT:55:ASN:H	52:BT:59:THR:HB	1.79	0.47
52:BT:107:ASP:CG	52:BT:108:ARG:N	2.72	0.47
55:BW:61:ASN:HD22	55:BW:61:ASN:N	2.10	0.47
57:BY:79:CYS:SG	57:BY:80:GLY:N	2.88	0.47
58:BZ:152:ALA:HB1	58:BZ:167:PRO:O	2.15	0.47
1:CA:59:A:H1'	1:CA:354:G:N2	2.30	0.47
1:CA:356:A:C2	1:CA:357:G:C1'	2.98	0.47
1:CA:591:U:H2'	1:CA:592:G:C8	2.43	0.47
1:CA:764:C:H2'	1:CA:765:G:O4'	2.15	0.47
1:CA:833:U:H2'	1:CA:834:C:C5	2.50	0.47
1:CA:960:U:O2'	1:CA:1223:C:H4'	2.14	0.47
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.30	0.47
1:CA:1065:U:C5'	1:CA:1190:G:N2	2.77	0.47
1:CA:1151:A:C4	1:CA:1152:A:N7	2.82	0.47
1:CA:1188:A:O2'	1:CA:1189:C:H5'	2.15	0.47
1:CA:1216:G:H2'	1:CA:1217:C:C6	2.44	0.47
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.29	0.47
1:CA:1244:C:H2'	1:CA:1245:A:H8	1.75	0.47
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.15	0.47
2:CB:70:PHE:CD2	2:CB:163:PHE:HB3	2.50	0.47
3:CC:183:ASP:HB3	3:CC:202:ILE:HB	1.97	0.47
4:CD:14:ARG:HA	4:CD:39:PRO:CG	2.43	0.47
4:CD:54:TYR:O	4:CD:55:ALA:C	2.57	0.47
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.30	0.47
4:CD:190:ASP:O	4:CD:191:ARG:C	2.57	0.47
5:CE:43:LEU:HB3	5:CE:136:MET:HE2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:51:VAL:O	5:CE:52:PRO:C	2.56	0.47
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.96	0.47
8:CH:14:ARG:NH1	8:CH:14:ARG:HB3	2.30	0.47
8:CH:86:ILE:CG2	8:CH:87:SER:N	2.69	0.47
9:CI:48:GLU:OE2	9:CI:51:ARG:HD2	2.15	0.47
9:CI:91:ASP:C	9:CI:92:TYR:CD1	2.93	0.47
10:CJ:6:ILE:O	10:CJ:6:ILE:HG13	2.15	0.47
10:CJ:21:GLN:HG2	10:CJ:21:GLN:O	2.15	0.47
10:CJ:78:ASN:HD22	10:CJ:81:THR:CG2	2.27	0.47
18:CR:25:THR:O	18:CR:25:THR:HG22	2.15	0.47
20:CT:37:SER:O	20:CT:41:ILE:HG12	2.15	0.47
22:CV:20:U:C3'	22:CV:21:A:C5'	2.84	0.47
22:CV:47:U:O2'	22:CV:48:C:P	2.72	0.47
22:CV:72:C:H5'	22:CV:72:C:C6	2.42	0.47
30:D5:20:ARG:HB3	30:D5:23:HIS:HD2	1.80	0.47
31:D6:18:ARG:NH1	31:D6:43:CYS:HB2	2.29	0.47
33:D8:15:LYS:N	48:DP:65:ARG:NH2	2.63	0.47
35:DA:271(M):G:H5"	59:DI:57:ARG:NH2	2.24	0.47
35:DA:341:G:O2'	35:DA:342:G:H5'	2.15	0.47
35:DA:390:A:N6	48:DP:71:VAL:CG2	2.77	0.47
35:DA:481:G:H1'	35:DA:506:G:H21	1.80	0.47
35:DA:654:A:N1	35:DA:654(U):A:O2'	2.47	0.47
35:DA:654(U):A:H2'	35:DA:654(V):A:C8	2.50	0.47
35:DA:712:G:O2'	35:DA:713:G:H5'	2.15	0.47
35:DA:911:A:H2'	49:DQ:9:TYR:CZ	2.49	0.47
35:DA:979:G:H3'	35:DA:980:A:H5"	1.96	0.47
35:DA:1077:A:H2'	35:DA:1078:U:O4'	2.15	0.47
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.15	0.47
35:DA:1493:C:H4'	35:DA:1494:A:OP1	2.15	0.47
35:DA:1495:A:H2'	35:DA:1496:A:C2	2.50	0.47
35:DA:1564:C:O2'	35:DA:1565:C:H5'	2.14	0.47
35:DA:1958:C:O2'	35:DA:1959:G:H5'	2.14	0.47
35:DA:2206:G:N2	35:DA:2207:G:C5'	2.70	0.47
35:DA:2401:U:H3'	35:DA:2402:C:C5'	2.37	0.47
35:DA:2878:U:H2'	35:DA:2879:C:H5'	1.97	0.47
38:DD:16:MET:HE2	38:DD:211:ARG:HD2	1.95	0.47
39:DE:11:MET:C	52:DT:8:LYS:HZ1	2.22	0.47
41:DG:106:LEU:O	41:DG:110:ALA:HB3	2.14	0.47
42:DH:138:LYS:C	42:DH:140:LYS:N	2.72	0.47
44:DJ:32:UNK:O	44:DJ:33:UNK:O	2.33	0.47
45:DK:66:THR:HG23	45:DK:66:THR:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:95:LYS:HD2	45:DK:95:LYS:H	1.80	0.47
48:DP:57:THR:HG23	48:DP:59:LEU:CB	2.41	0.47
49:DQ:5:ARG:C	49:DQ:6:ARG:HG2	2.40	0.47
49:DQ:77:LYS:HZ1	49:DQ:84:GLY:N	2.13	0.47
50:DR:84:ALA:N	50:DR:85:PRO:CD	2.77	0.47
51:DS:16:ASN:O	51:DS:19:LYS:HB3	2.15	0.47
51:DS:16:ASN:ND2	51:DS:92:TYR:CE1	2.83	0.47
51:DS:80:LEU:C	51:DS:82:ILE:H	2.23	0.47
52:DT:12:SER:O	52:DT:13:ARG:NH1	2.48	0.47
52:DT:78:LEU:C	52:DT:79:HIS:ND1	2.73	0.47
58:DZ:11:GLU:N	58:DZ:11:GLU:CD	2.72	0.47
1:AA:447:G:C6	1:AA:485:G:H1'	2.50	0.47
1:AA:544:G:C6	1:AA:545:C:C4	3.03	0.47
1:AA:593:G:O2'	1:AA:594:G:H5'	2.15	0.47
1:AA:729:A:H2'	1:AA:730:G:H8	1.79	0.47
1:AA:802:A:H2'	1:AA:803:G:O4'	2.14	0.47
1:AA:1366:C:O2'	1:AA:1367:C:H5'	2.14	0.47
4:AD:14:ARG:HD2	4:AD:59:ARG:NH1	2.30	0.47
4:AD:52:SER:C	4:AD:54:TYR:N	2.70	0.47
4:AD:58:LEU:HD23	4:AD:206:PHE:CZ	2.50	0.47
4:AD:83:SER:HA	4:AD:89:THR:HG23	1.95	0.47
4:AD:160:GLN:O	4:AD:163:GLU:HB3	2.14	0.47
4:AD:162:LEU:CD1	4:AD:181:MET:HG2	2.45	0.47
6:AF:26:ILE:O	6:AF:30:LEU:HG	2.15	0.47
6:AF:96:PRO:HB3	18:AR:30:ASP:CG	2.40	0.47
7:AG:15:ASP:O	7:AG:19:GLY:HA2	2.15	0.47
8:AH:98:LYS:H	8:AH:98:LYS:HG3	1.52	0.47
9:AI:40:LEU:C	9:AI:42:ARG:H	2.23	0.47
11:AK:70:LYS:HA	11:AK:73:MET:CG	2.45	0.47
13:AM:9:ILE:HD13	41:BG:146:TYR:CE2	2.50	0.47
17:AQ:45:HIS:O	17:AQ:46:ASP:HB2	2.14	0.47
21:AU:2:GLY:C	21:AU:4:GLY:N	2.73	0.47
24:AY:31:ARG:CB	24:AY:32:ARG:HE	2.28	0.47
24:AY:142:ARG:O	24:AY:145:GLU:HB3	2.14	0.47
24:AY:346:TRP:HA	24:AY:346:TRP:HE3	1.80	0.47
26:B1:52:ARG:O	26:B1:56:GLN:O	2.33	0.47
31:B6:20:ASN:CG	31:B6:21:TYR:N	2.73	0.47
31:B6:40:CYS:SG	31:B6:45:LYS:NZ	2.87	0.47
33:B8:3:LYS:HE2	35:BA:242:G:O5'	2.15	0.47
33:B8:39:LYS:O	33:B8:43:GLN:HB2	2.14	0.47
35:BA:221:A:O2'	35:BA:222:A:OP2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1062:G:H2'	35:BA:1063:G:H8	1.79	0.47
35:BA:1494:A:H3'	35:BA:1494:A:N3	2.30	0.47
35:BA:2012:G:O3'	55:BW:96:ILE:HG13	2.15	0.47
35:BA:2126:A:H1'	35:BA:2127:G:O4'	2.15	0.47
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.50	0.47
35:BA:2401:U:H3'	35:BA:2402:C:C5'	2.37	0.47
35:BA:2847:U:OP1	52:BT:98:LYS:HD3	2.15	0.47
36:BB:7:G:C3'	36:BB:8:U:C5'	2.91	0.47
39:BE:61:ARG:HB3	39:BE:62:PRO:HD3	1.97	0.47
40:BF:110:LEU:O	40:BF:113:ALA:N	2.48	0.47
43:BI:4:ILE:HD11	43:BI:47:LEU:HD11	1.96	0.47
44:BJ:130:UNK:O	44:BJ:132:UNK:N	2.48	0.47
48:BP:85:LEU:HD23	48:BP:88:LEU:HD23	1.96	0.47
49:BQ:43:THR:OG1	49:BQ:46:GLN:CG	2.61	0.47
51:BS:34:HIS:ND1	51:BS:54:LEU:HB2	2.30	0.47
52:BT:28:VAL:HG13	52:BT:46:GLU:CA	2.38	0.47
55:BW:18:ARG:HG2	55:BW:76:VAL:HG13	1.96	0.47
1:CA:152:A:H62	1:CA:169:C:N4	2.13	0.47
1:CA:511:C:H1'	4:CD:43:HIS:HE2	1.80	0.47
1:CA:722:A:H4'	1:CA:723:U:C4	2.50	0.47
1:CA:1123:A:C4'	10:CJ:36:GLY:HA3	2.43	0.47
2:CB:214:ILE:O	2:CB:218:ALA:CB	2.63	0.47
3:CC:6:HIS:HB2	14:CN:49:HIS:CD2	2.50	0.47
3:CC:154:SER:OG	3:CC:197:GLY:N	2.48	0.47
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.79	0.47
7:CG:83:ALA:HB1	7:CG:85:TYR:CE2	2.50	0.47
8:CH:97:VAL:O	8:CH:100:ILE:HG13	2.14	0.47
9:CI:111:ARG:HD2	14:CN:61:TRP:OXT	2.15	0.47
13:CM:10:PRO:HB2	13:CM:18:ALA:HB1	1.96	0.47
15:CO:63:ARG:NH1	15:CO:87:ILE:HD13	2.30	0.47
16:CP:58:TYR:CD1	16:CP:59:TRP:N	2.82	0.47
18:CR:36:ASN:HB3	18:CR:39:VAL:HG23	1.97	0.47
18:CR:44:LEU:HD21	18:CR:50:ILE:HD13	1.97	0.47
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	1.96	0.47
24:CY:22:LYS:HA	24:CY:25:ARG:CG	2.45	0.47
24:CY:33:LEU:HD21	35:DA:1095:A:H61	1.78	0.47
24:CY:189:LEU:C	24:CY:189:LEU:HD13	2.40	0.47
24:CY:320:TYR:C	24:CY:320:TYR:CD1	2.93	0.47
27:D2:3:LEU:HD22	27:D2:7:ARG:HH21	1.78	0.47
35:DA:80:G:C2'	35:DA:81:G:H5'	2.45	0.47
35:DA:84:A:H5"	57:DY:9:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:290:G:C2'	35:DA:291:C:H5'	2.44	0.47
35:DA:556:G:H2'	35:DA:557:U:C6	2.50	0.47
35:DA:797:C:OP2	40:DF:62:ARG:HG3	2.15	0.47
35:DA:958:U:H3'	35:DA:958:U:H6	1.79	0.47
35:DA:2223:G:H2'	35:DA:2224:G:C5'	2.45	0.47
35:DA:2352:A:N6	35:DA:2365:G:O2'	2.48	0.47
37:DC:75:LEU:HD23	37:DC:75:LEU:O	2.14	0.47
38:DD:237:GLU:OE2	38:DD:237:GLU:O	2.32	0.47
39:DE:39:PRO:HA	39:DE:43:GLY:CA	2.45	0.47
39:DE:47:VAL:HG12	39:DE:49:LEU:CD1	2.38	0.47
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.82	0.47
39:DE:101:ARG:HD3	39:DE:169:ASN:HD21	1.79	0.47
40:DF:22:ALA:CA	40:DF:26:ALA:CB	2.91	0.47
40:DF:114:VAL:HG21	40:DF:202:PHE:CZ	2.50	0.47
41:DG:76:SER:O	41:DG:83:ARG:HB3	2.15	0.47
41:DG:122:PRO:HG2	41:DG:123:ASN:OD1	2.15	0.47
45:DK:10:LEU:C	45:DK:10:LEU:HD12	2.39	0.47
48:DP:125:VAL:O	48:DP:125:VAL:HG22	2.15	0.47
50:DR:66:VAL:HG11	50:DR:79:LEU:CD1	2.45	0.47
52:DT:106:SER:O	52:DT:107:ASP:OD1	2.33	0.47
55:DW:92:ARG:HG2	55:DW:92:ARG:NH1	2.30	0.47
58:DZ:128:VAL:CG2	58:DZ:129:SER:N	2.78	0.47
1:AA:630:G:C2'	1:AA:631:G:H5"	2.41	0.47
1:AA:895:G:H2'	1:AA:896:C:H6	1.79	0.47
1:AA:1316:G:N1	1:AA:1319:A:OP2	2.45	0.47
1:AA:1412:C:N4	1:AA:1488:G:H1	2.11	0.47
2:AB:13:ALA:O	2:AB:14:GLY:C	2.56	0.47
4:AD:91:SER:O	4:AD:94:LEU:HB2	2.14	0.47
4:AD:150:GLU:HA	4:AD:153:ARG:CG	2.40	0.47
6:AF:36:ARG:HH11	6:AF:36:ARG:HB3	1.80	0.47
6:AF:44:GLY:O	6:AF:46:ARG:HG3	2.14	0.47
6:AF:62:TRP:HH2	6:AF:64:GLN:HE21	1.62	0.47
7:AG:144:MET:O	7:AG:147:ALA:HB3	2.15	0.47
8:AH:51:VAL:HG11	8:AH:60:ARG:NH1	2.28	0.47
13:AM:56:LEU:HD13	13:AM:56:LEU:O	2.15	0.47
13:AM:117:VAL:CG1	13:AM:118:ALA:N	2.77	0.47
15:AO:63:ARG:NH1	15:AO:87:ILE:HD13	2.29	0.47
19:AS:49:ILE:HD12	19:AS:49:ILE:N	2.30	0.47
22:AV:68:C:C2'	22:AV:69:G:C5'	2.89	0.47
22:AW:48:C:H2'	22:AW:59:U:O2'	2.15	0.47
25:B0:25:ARG:HA	25:B0:29:GLN:HE22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:18:ILE:HG22	26:B1:20:ARG:HG3	1.96	0.47
33:B8:63:PRO:O	33:B8:64:TYR:O	2.33	0.47
35:BA:244:A:C2	35:BA:255:A:C4	3.02	0.47
35:BA:747:U:O2	35:BA:2014:A:H1'	2.15	0.47
35:BA:1651:G:OP1	50:BR:37:THR:HG21	2.15	0.47
35:BA:1939:U:OP1	35:BA:2604:U:O2'	2.31	0.47
35:BA:2262:U:H2'	35:BA:2263:C:H6	1.79	0.47
35:BA:2289:G:H1'	35:BA:2346:A:C2	2.48	0.47
35:BA:2306:C:C5	35:BA:2307:G:H1'	2.49	0.47
35:BA:2553:G:H2'	35:BA:2554:U:C4'	2.45	0.47
36:BB:42:C:C6	41:BG:69:ALA:HB2	2.50	0.47
36:BB:82:G:H2'	36:BB:83:G:H8	1.79	0.47
41:BG:105:LYS:NZ	41:BG:143:GLU:HG3	2.29	0.47
41:BG:128:ARG:O	41:BG:130:ASN:N	2.46	0.47
46:BN:93:THR:HG23	46:BN:94:HIS:N	2.30	0.47
48:BP:16:ARG:HD2	48:BP:16:ARG:C	2.40	0.47
48:BP:27:HIS:ND1	48:BP:28:GLY:N	2.62	0.47
52:BT:78:LEU:HD22	52:BT:79:HIS:CE1	2.50	0.47
58:BZ:54:HIS:HE1	58:BZ:123:ASP:OD2	1.98	0.47
1:CA:269:C:H2'	1:CA:270:A:C8	2.50	0.47
1:CA:285:G:O2'	1:CA:286:G:H5'	2.15	0.47
1:CA:332:G:O2'	1:CA:333:G:H5'	2.15	0.47
1:CA:1054:C:O2'	1:CA:1055:A:C5'	2.60	0.47
1:CA:1256:A:H5'	1:CA:1257:U:OP1	2.15	0.47
1:CA:1269:A:C2	1:CA:1313:U:O4'	2.67	0.47
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.15	0.47
1:CA:1529:G:H4'	1:CA:1530:G:OP2	2.14	0.47
2:CB:193:ASP:OD2	2:CB:193:ASP:O	2.33	0.47
3:CC:156:ARG:O	3:CC:159:GLY:N	2.42	0.47
5:CE:13:ILE:N	5:CE:13:ILE:HD12	2.30	0.47
6:CF:26:ILE:O	6:CF:30:LEU:HG	2.15	0.47
7:CG:32:ARG:HG2	7:CG:32:ARG:NH1	2.25	0.47
7:CG:46:ALA:O	7:CG:49:ILE:N	2.48	0.47
7:CG:75:VAL:HG13	7:CG:145:ALA:HB2	1.97	0.47
8:CH:20:TYR:HE2	8:CH:75:ARG:HB3	1.80	0.47
8:CH:86:ILE:O	8:CH:88:LYS:HG3	2.15	0.47
27:D2:68:ARG:HA	27:D2:72:ALA:CB	2.23	0.47
35:DA:361:G:C2	35:DA:362:U:O2	2.68	0.47
35:DA:449:A:H4'	53:DU:3:ARG:NH1	2.30	0.47
35:DA:635:C:O2'	35:DA:639:U:OP1	2.33	0.47
35:DA:1106:G:H2'	35:DA:1107:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1146:C:O2'	35:DA:1147:C:H5'	2.14	0.47
35:DA:1403:C:H5"	35:DA:1471:A:C1'	2.43	0.47
35:DA:1544:A:H2	35:DA:1545:A:C2	2.32	0.47
35:DA:2203:U:H2'	35:DA:2203:U:O2	2.14	0.47
35:DA:2777:G:C4'	35:DA:2778:A:H5'	2.45	0.47
36:DB:60:C:C2	36:DB:61:G:C8	3.02	0.47
59:DI:138:ILE:HG22	59:DI:139:GLN:N	2.29	0.47
44:DJ:119:UNK:O	44:DJ:120:UNK:CB	2.63	0.47
45:DK:123:ALA:O	45:DK:127:ILE:HG12	2.15	0.47
46:DN:57:ALA:O	46:DN:58:ASP:O	2.33	0.47
48:DP:6:LEU:H	48:DP:6:LEU:CD2	2.27	0.47
48:DP:16:ARG:HD2	48:DP:16:ARG:C	2.40	0.47
48:DP:23:PRO:O	48:DP:29:LYS:O	2.33	0.47
52:DT:36:GLU:HG2	52:DT:36:GLU:O	2.15	0.47
1:AA:135:C:H2'	1:AA:136:C:H5'	1.97	0.47
1:AA:499:A:H4'	1:AA:500:G:H5'	1.96	0.47
1:AA:511:C:HO2'	1:AA:512:U:H6	1.63	0.47
1:AA:650:G:O2'	1:AA:651:C:H5'	2.14	0.47
1:AA:1013:G:N2	1:AA:1016:A:OP2	2.48	0.47
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.50	0.47
2:AB:67:THR:CG2	2:AB:155:LEU:HG	2.45	0.47
2:AB:178:ARG:NH2	8:AH:74:PRO:HG3	2.29	0.47
3:AC:79:ARG:HG2	3:AC:82:GLU:OE1	2.14	0.47
4:AD:165:MET:C	4:AD:167:GLY:N	2.69	0.47
6:AF:34:GLY:O	6:AF:67:MET:HB2	2.13	0.47
8:AH:97:VAL:O	8:AH:100:ILE:HG13	2.14	0.47
10:AJ:78:ASN:HB2	10:AJ:81:THR:CG2	2.44	0.47
14:AN:42:ILE:C	14:AN:44:LEU:H	2.23	0.47
15:AO:36:ILE:HG22	15:AO:37:ASN:ND2	2.29	0.47
20:AT:92:LEU:C	20:AT:94:ALA:N	2.73	0.47
24:AY:22:LYS:O	24:AY:25:ARG:HB2	2.15	0.47
24:AY:137:LEU:C	24:AY:137:LEU:HD13	2.39	0.47
24:AY:222:LEU:HD12	24:AY:226:GLU:HB3	1.97	0.47
26:B1:77:ALA:O	26:B1:80:LEU:HB3	2.15	0.47
27:B2:66:GLU:HG3	27:B2:67:LYS:N	2.30	0.47
31:B6:15:GLU:CG	31:B6:18:ARG:HG3	2.45	0.47
31:B6:32:ASN:O	31:B6:33:LYS:HG2	2.15	0.47
35:BA:320:A:C8	40:BF:136:THR:HG21	2.50	0.47
35:BA:524:U:H4'	35:BA:555:U:H4'	1.97	0.47
35:BA:607:U:OP1	40:BF:102:PRO:HA	2.15	0.47
35:BA:990:A:N6	35:BA:1186:G:H1'	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1173:G:C3'	35:BA:1174:A:C5'	2.88	0.47
35:BA:1417:C:H2'	35:BA:1418:G:O4'	2.15	0.47
35:BA:1642:G:O2'	35:BA:1643:G:H5'	2.15	0.47
35:BA:2009:G:H5'	55:BW:40:ASN:ND2	2.30	0.47
35:BA:2020:A:OP1	53:BU:26:GLY:HA3	2.15	0.47
35:BA:2057:A:H2'	35:BA:2058:A:O4'	2.15	0.47
35:BA:2367:G:H2'	35:BA:2368:C:C6	2.48	0.47
35:BA:2839:G:C5'	50:BR:46:GLY:HA2	2.45	0.47
38:BD:76:PRO:HB2	38:BD:116:GLN:HE21	1.80	0.47
40:BF:83:PHE:O	40:BF:84:VAL:HB	2.14	0.47
40:BF:121:GLY:O	40:BF:123:LEU:N	2.48	0.47
41:BG:128:ARG:C	41:BG:130:ASN:N	2.64	0.47
41:BG:161:THR:HG22	41:BG:163:ALA:H	1.80	0.47
42:BH:106:THR:O	42:BH:107:VAL:HG13	2.15	0.47
46:BN:28:THR:O	46:BN:31:ALA:HB3	2.15	0.47
47:BO:118:ALA:C	47:BO:120:GLU:N	2.73	0.47
48:BP:13:ASN:N	48:BP:13:ASN:ND2	2.63	0.47
49:BQ:5:ARG:C	49:BQ:6:ARG:HG2	2.40	0.47
49:BQ:60:ARG:NH1	49:BQ:60:ARG:CB	2.77	0.47
50:BR:33:ARG:HB3	50:BR:113:LEU:HD11	1.97	0.47
52:BT:27:THR:HA	52:BT:87:ASP:HB2	1.97	0.47
56:BX:66:LEU:HD23	56:BX:66:LEU:C	2.40	0.47
58:BZ:22:GLY:C	58:BZ:23:LYS:HE2	2.40	0.47
58:BZ:56:VAL:HG13	58:BZ:91:LEU:HD12	1.97	0.47
58:BZ:136:PHE:C	58:BZ:136:PHE:CD1	2.93	0.47
1:CA:321:A:N6	1:CA:332:G:H1	2.13	0.47
1:CA:482:A:H2'	1:CA:482:A:N3	2.29	0.47
1:CA:660:G:H2'	1:CA:661:G:O4'	2.15	0.47
1:CA:782:A:H4'	1:CA:1514:C:O2'	2.15	0.47
1:CA:1053:G:N7	1:CA:1199:U:H3'	2.30	0.47
1:CA:1255:G:H3'	1:CA:1279:A:N6	2.29	0.47
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.49	0.47
2:CB:13:ALA:O	2:CB:14:GLY:C	2.57	0.47
2:CB:58:ILE:O	2:CB:62:ALA:HB2	2.14	0.47
3:CC:84:ILE:HD11	3:CC:88:ARG:NH2	2.30	0.47
6:CF:21:LEU:C	6:CF:24:GLU:HG2	2.40	0.47
7:CG:50:ILE:O	7:CG:54:THR:HG22	2.14	0.47
8:CH:86:ILE:HG22	8:CH:87:SER:H	1.74	0.47
9:CI:5:TYR:CD2	9:CI:17:VAL:O	2.68	0.47
9:CI:81:ILE:O	9:CI:85:LEU:HG	2.14	0.47
11:CK:33:THR:HG22	11:CK:39:PRO:CA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:55:VAL:HG13	12:CL:68:ALA:O	2.14	0.47
17:CQ:76:LEU:CG	17:CQ:77:VAL:H	2.26	0.47
19:CS:58:VAL:HG21	19:CS:75:ALA:CB	2.45	0.47
20:CT:92:LEU:C	20:CT:94:ALA:H	2.21	0.47
24:CY:38:LEU:HD12	24:CY:38:LEU:N	2.29	0.47
29:D4:51:TYR:CE2	41:DG:2:PRO:HD3	2.49	0.47
30:D5:3:LYS:HD3	35:DA:2611:U:O2'	2.14	0.47
35:DA:321:G:N3	40:DF:165:ARG:NH1	2.63	0.47
35:DA:784:A:C5'	38:DD:227:ASN:ND2	2.69	0.47
35:DA:2862:G:H2'	35:DA:2863:C:H6	1.80	0.47
38:DD:8:PRO:HB3	38:DD:14:ARG:HB2	1.95	0.47
39:DE:1:MET:O	39:DE:2:LYS:C	2.58	0.47
39:DE:66:HIS:C	39:DE:66:HIS:HD2	2.21	0.47
39:DE:198:VAL:HG12	39:DE:199:ARG:N	2.30	0.47
40:DF:11:VAL:HG12	40:DF:12:LEU:N	2.29	0.47
46:DN:26:LEU:O	46:DN:30:ILE:HG13	2.15	0.47
47:DO:102:VAL:HG23	47:DO:121:VAL:HA	1.97	0.47
48:DP:26:GLY:HA2	48:DP:30:THR:HG21	1.97	0.47
51:DS:48:LEU:HD23	51:DS:82:ILE:HD11	1.96	0.47
51:DS:90:GLY:O	51:DS:92:TYR:CD1	2.68	0.47
54:DV:19:LYS:HG3	54:DV:20:LEU:H	1.75	0.47
56:DX:41:ASN:N	56:DX:41:ASN:HD22	2.12	0.47
57:DY:12:THR:O	57:DY:75:ILE:HG22	2.15	0.47
1:AA:152:A:H62	1:AA:169:C:N4	2.13	0.46
1:AA:245:C:C2'	1:AA:246:A:H5'	2.46	0.46
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	2.29	0.46
1:AA:453:A:H4'	16:AP:72:ARG:HG3	1.98	0.46
1:AA:658:G:OP1	15:AO:31:LEU:HD21	2.15	0.46
1:AA:1076:C:N3	1:AA:1082:G:C2	2.83	0.46
1:AA:1194:U:H5"	5:AE:22:GLY:O	2.15	0.46
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.15	0.46
1:AA:1457:G:O2'	1:AA:1458:G:H5'	2.14	0.46
5:AE:102:ALA:HA	5:AE:120:THR:HG1	1.80	0.46
7:AG:7:ALA:O	7:AG:8:GLU:HG3	2.15	0.46
8:AH:100:ILE:HG23	8:AH:101:PRO:HD2	1.98	0.46
9:AI:53:VAL:C	9:AI:55:ALA:H	2.22	0.46
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.83	0.46
10:AJ:9:ARG:NH2	10:AJ:95:GLU:HG2	2.30	0.46
10:AJ:96:ILE:HG12	10:AJ:96:ILE:O	2.13	0.46
24:AY:64:SER:O	24:AY:91:LEU:HD13	2.15	0.46
24:AY:266:ARG:HG2	35:BA:2602:A:C4	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:43:THR:CG2	35:BA:2336:A:H61	2.28	0.46
28:B3:36:VAL:HG23	28:B3:36:VAL:O	2.15	0.46
28:B3:52:HIS:H	28:B3:52:HIS:CD2	2.32	0.46
30:B5:2:ALA:N	35:BA:747:U:N3	2.63	0.46
31:B6:51:GLU:O	31:B6:52:VAL:CB	2.63	0.46
34:B9:17:ILE:HG13	34:B9:26:ILE:HD11	1.97	0.46
35:BA:361:G:C2	35:BA:362:U:O2	2.68	0.46
35:BA:556:G:H2'	35:BA:557:U:C6	2.49	0.46
35:BA:590:A:OP1	40:BF:95:ARG:NH1	2.47	0.46
35:BA:648:G:O2'	35:BA:649:G:H5'	2.14	0.46
35:BA:658:C:H2'	35:BA:659:C:C6	2.49	0.46
35:BA:783:A:H2'	35:BA:784:A:O5'	2.14	0.46
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.68	0.46
35:BA:1778:U:H2'	35:BA:1784:A:N6	2.30	0.46
35:BA:2063:C:O2	35:BA:2450:A:N1	2.47	0.46
35:BA:2362:G:C2'	35:BA:2363:C:H5'	2.45	0.46
35:BA:2757:A:H2'	35:BA:2758:A:H5'	1.97	0.46
40:BF:18:ARG:C	40:BF:19:GLU:CD	2.82	0.46
41:BG:137:GLU:CA	41:BG:152:LEU:HD11	2.25	0.46
44:BJ:32:UNK:O	44:BJ:33:UNK:O	2.32	0.46
45:BK:55:VAL:HG22	45:BK:57:ILE:HD11	1.97	0.46
48:BP:65:ARG:O	48:BP:68:GLN:HB3	2.15	0.46
53:BU:9:VAL:O	53:BU:12:ARG:HB2	2.15	0.46
53:BU:62:ILE:HD12	53:BU:76:TYR:CZ	2.50	0.46
53:BU:88:ILE:O	53:BU:88:ILE:CG1	2.61	0.46
1:CA:16:A:C2'	1:CA:17:U:H5'	2.45	0.46
1:CA:93:G:O2'	1:CA:96:U:H5'	2.15	0.46
1:CA:584:G:H2'	1:CA:585:G:C8	2.50	0.46
1:CA:794:A:H2'	1:CA:795:C:C6	2.50	0.46
1:CA:954:G:O3'	13:CM:120:LYS:HD3	2.15	0.46
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.50	0.46
3:CC:72:LYS:HG2	3:CC:75:VAL:HG23	1.97	0.46
5:CE:36:ASP:OD1	5:CE:38:GLN:HB2	2.15	0.46
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.97	0.46
11:CK:108:ILE:O	18:CR:87:ARG:N	2.46	0.46
19:CS:13:ASP:C	19:CS:15:LEU:N	2.71	0.46
24:CY:224:PRO:O	24:CY:227:LEU:HD12	2.14	0.46
24:CY:294:GLU:C	24:CY:296:LYS:H	2.22	0.46
31:D6:20:ASN:O	31:D6:21:TYR:CD1	2.68	0.46
32:D7:46:VAL:HG12	32:D7:48:LYS:HZ3	1.80	0.46
35:DA:34:C:C2'	35:DA:35:G:H5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:275:G:C6	35:DA:362:U:H5	2.33	0.46
35:DA:995:C:C5	53:DU:57:PHE:HE1	2.33	0.46
35:DA:1115:G:H2'	35:DA:1116:C:C1'	2.45	0.46
35:DA:1234:U:H2'	35:DA:1235:G:O4'	2.15	0.46
35:DA:1417:C:C2'	35:DA:1418:G:H5'	2.44	0.46
35:DA:1826:G:H2'	35:DA:1827:C:C6	2.50	0.46
35:DA:2289:G:H1'	35:DA:2346:A:C2	2.50	0.46
35:DA:2376:A:H1'	51:DS:108:GLY:O	2.16	0.46
35:DA:2415:G:H2'	35:DA:2416:C:C6	2.50	0.46
35:DA:2654:A:O2'	35:DA:2655:G:H4'	2.15	0.46
38:DD:235:GLY:C	38:DD:237:GLU:N	2.65	0.46
39:DE:61:ARG:CB	39:DE:62:PRO:CD	2.93	0.46
39:DE:147:PRO:HB2	39:DE:149:ARG:HG2	1.97	0.46
41:DG:111:LEU:HA	41:DG:114:ILE:HD11	1.96	0.46
42:DH:16:SER:O	42:DH:26:VAL:HA	2.15	0.46
59:DI:114:LEU:O	59:DI:116:LEU:N	2.48	0.46
47:DO:26:LYS:HB3	47:DO:27:GLY:H	1.51	0.46
48:DP:70:GLN:O	48:DP:71:VAL:C	2.57	0.46
50:DR:95:THR:CA	50:DR:117:VAL:HG23	2.45	0.46
51:DS:58:LEU:HD21	51:DS:68:GLN:HB2	1.97	0.46
52:DT:120:ARG:O	52:DT:124:ASP:OD1	2.33	0.46
55:DW:26:GLY:HA2	55:DW:71:VAL:O	2.14	0.46
57:DY:26:LYS:O	57:DY:28:LYS:HE3	2.15	0.46
1:AA:179:A:H2'	1:AA:180:U:C6	2.50	0.46
1:AA:185:A:N3	20:AT:81:LYS:NZ	2.62	0.46
1:AA:542:G:P	4:AD:10:ARG:HH21	2.38	0.46
1:AA:1427:U:O2'	1:AA:1428:A:H5'	2.15	0.46
2:AB:79:ASP:HA	2:AB:82:ARG:HG2	1.97	0.46
2:AB:80:ILE:HD12	2:AB:208:ILE:HG23	1.98	0.46
3:AC:28:GLN:O	3:AC:30:ARG:N	2.48	0.46
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.22	0.46
4:AD:17:VAL:CG1	4:AD:18:LYS:N	2.78	0.46
4:AD:64:LEU:HD11	4:AD:97:LEU:HD13	1.97	0.46
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	2.15	0.46
9:AI:18:PHE:HB2	9:AI:62:TYR:O	2.14	0.46
11:AK:115:PRO:C	11:AK:117:ASN:N	2.74	0.46
14:AN:48:ALA:CA	14:AN:53:LEU:HD12	2.45	0.46
18:AR:70:ILE:HG23	18:AR:79:LEU:HD13	1.98	0.46
19:AS:13:ASP:C	19:AS:15:LEU:N	2.70	0.46
24:AY:100:GLU:O	24:AY:104:GLN:HG2	2.14	0.46
24:AY:332:ASP:OD2	24:AY:335:ASN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:339:GLY:O	24:AY:340:ASP:C	2.58	0.46
25:B0:45:PHE:HD2	25:B0:79:VAL:HG23	1.80	0.46
31:B6:13:CYS:HB3	31:B6:49:HIS:HB3	1.96	0.46
31:B6:29:ASN:O	31:B6:30:THR:C	2.58	0.46
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.29	0.46
35:BA:271(R):G:H2'	35:BA:271(S):G:C8	2.50	0.46
35:BA:598:G:H2'	35:BA:599:G:O4'	2.15	0.46
35:BA:1192:G:C2'	35:BA:1193:G:H5'	2.45	0.46
35:BA:1495:A:H2'	35:BA:1496:A:C2	2.50	0.46
35:BA:1571:A:H2'	35:BA:1572:A:C8	2.51	0.46
35:BA:2195:C:H2'	35:BA:2196:C:H6	1.79	0.46
35:BA:2632:A:O2'	39:BE:61:ARG:NH2	2.49	0.46
35:BA:2771:C:H2'	35:BA:2772:C:C6	2.50	0.46
35:BA:2808:U:H2'	35:BA:2809:A:H5'	1.98	0.46
39:BE:3:GLY:HA3	39:BE:81:ILE:CG2	2.41	0.46
40:BF:117:ARG:HG2	40:BF:192:LEU:HB2	1.96	0.46
41:BG:39:ILE:HD12	41:BG:39:ILE:O	2.15	0.46
41:BG:72:ARG:HB3	41:BG:85:GLY:O	2.15	0.46
42:BH:30:LYS:HE2	42:BH:79:VAL:HA	1.97	0.46
43:BI:19:VAL:HG22	43:BI:20:ASP:N	2.30	0.46
45:BK:17:ALA:O	45:BK:18:THR:CB	2.62	0.46
47:BO:9:GLU:O	47:BO:83:ALA:HA	2.16	0.46
48:BP:48:PRO:CD	48:BP:49:ARG:H	2.23	0.46
48:BP:89:ALA:O	48:BP:91:PHE:O	2.33	0.46
50:BR:25:ALA:O	50:BR:26:LYS:C	2.59	0.46
51:BS:59:LYS:NZ	51:BS:68:GLN:HE22	2.13	0.46
52:BT:29:ARG:NH1	52:BT:46:GLU:OE1	2.46	0.46
52:BT:36:GLU:HG2	52:BT:36:GLU:O	2.16	0.46
53:BU:91:ASP:O	53:BU:92:ARG:O	2.33	0.46
56:BX:70:LEU:HD23	56:BX:71:GLY:N	2.30	0.46
57:BY:10:GLY:O	57:BY:27:VAL:HG22	2.16	0.46
1:CA:39:G:O2'	1:CA:40:C:H5'	2.15	0.46
1:CA:175:C:H2'	1:CA:176:C:H6	1.79	0.46
1:CA:194:C:C2'	1:CA:195:A:H5"	2.45	0.46
1:CA:650:G:O2'	1:CA:651:C:H5'	2.15	0.46
1:CA:715:A:H2'	1:CA:716:A:C8	2.49	0.46
1:CA:1231:G:O3'	9:CI:126:SER:OG	2.26	0.46
2:CB:75:LYS:C	2:CB:77:ALA:N	2.73	0.46
2:CB:194:PRO:O	2:CB:197:VAL:HG23	2.15	0.46
2:CB:224:GLN:C	2:CB:226:ARG:N	2.73	0.46
6:CF:36:ARG:HB3	6:CF:36:ARG:HH11	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:7:ALA:O	7:CG:8:GLU:HG3	2.15	0.46
7:CG:28:ASN:O	7:CG:31:MET:HB3	2.16	0.46
8:CH:10:LEU:N	8:CH:10:LEU:CD2	2.77	0.46
8:CH:121:ASP:OD1	8:CH:121:ASP:N	2.48	0.46
9:CI:97:LYS:O	9:CI:100:GLY:N	2.46	0.46
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.63	0.46
11:CK:31:THR:O	11:CK:31:THR:HG23	2.16	0.46
11:CK:48:ILE:N	11:CK:48:ILE:HD13	2.30	0.46
13:CM:28:ALA:C	13:CM:30:ALA:H	2.23	0.46
14:CN:41:ARG:HG2	14:CN:41:ARG:HH11	1.80	0.46
22:CV:74:C:C2'	22:CV:75:C:C5'	2.94	0.46
24:CY:188:ARG:O	24:CY:314:TYR:HD1	1.98	0.46
25:D0:78:TYR:N	25:D0:78:TYR:CD1	2.84	0.46
27:D2:16:LEU:O	27:D2:20:GLU:HB3	2.16	0.46
30:D5:2:ALA:N	35:DA:747:U:N3	2.63	0.46
34:D9:8:LYS:O	34:D9:34:GLN:OE1	2.34	0.46
35:DA:39:C:O2'	35:DA:40:C:H5'	2.15	0.46
35:DA:64:A:O2'	35:DA:65:C:H5'	2.15	0.46
35:DA:494:G:H8	35:DA:494:G:C5'	2.25	0.46
35:DA:965:C:H6	35:DA:965:C:H5"	1.80	0.46
35:DA:1107:G:N2	35:DA:1108:U:O4	2.48	0.46
35:DA:1322:A:OP1	55:DW:11:ARG:HG3	2.14	0.46
35:DA:2008:C:H2'	35:DA:2009:G:H8	1.79	0.46
35:DA:2031:A:C6	35:DA:2498:C:H1'	2.50	0.46
35:DA:2302:G:H2'	35:DA:2303:G:H5'	1.98	0.46
35:DA:2481:G:HO2'	35:DA:2482:G:P	2.38	0.46
36:DB:95:C:H2'	36:DB:96:U:O4'	2.15	0.46
38:DD:35:LYS:HE2	38:DD:104:TYR:CD1	2.51	0.46
39:DE:27:LEU:HD13	39:DE:181:LEU:HD12	1.96	0.46
39:DE:44:TYR:O	39:DE:45:THR:HB	2.15	0.46
39:DE:69:LYS:HD3	39:DE:89:ASP:OD1	2.15	0.46
39:DE:116:VAL:HG22	39:DE:122:PHE:HB2	1.98	0.46
45:DK:13:PRO:HA	45:DK:51:ALA:O	2.16	0.46
46:DN:12:ARG:HG2	46:DN:50:ASP:OD1	2.15	0.46
47:DO:9:GLU:O	47:DO:83:ALA:HA	2.15	0.46
49:DQ:52:VAL:HG22	49:DQ:53:ALA:N	2.28	0.46
50:DR:10:LEU:HD22	50:DR:17:ARG:CD	2.45	0.46
50:DR:48:VAL:O	50:DR:49:ASP:C	2.57	0.46
51:DS:35:ILE:HG23	51:DS:69:VAL:HG11	1.97	0.46
51:DS:91:PRO:O	51:DS:93:LYS:N	2.48	0.46
52:DT:27:THR:HA	52:DT:87:ASP:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:92:ARG:NH1	54:DV:11:GLN:N	2.60	0.46
56:DX:27:THR:CB	56:DX:80:ILE:HG22	2.46	0.46
57:DY:77:PRO:O	57:DY:78:ALA:CB	2.63	0.46
58:DZ:35:ARG:NH1	58:DZ:35:ARG:CG	2.76	0.46
58:DZ:118:GLN:C	58:DZ:120:ILE:H	2.23	0.46
1:AA:722:A:H3'	1:AA:722:A:N3	2.30	0.46
1:AA:1065:U:C5'	1:AA:1190:G:N2	2.78	0.46
1:AA:1514:C:O2'	1:AA:1515:C:H5'	2.15	0.46
2:AB:14:GLY:HA3	2:AB:16:HIS:CE1	2.49	0.46
2:AB:204:ASN:ND2	2:AB:207:ALA:CB	2.78	0.46
5:AE:32:VAL:O	5:AE:43:LEU:HD12	2.16	0.46
10:AJ:25:GLU:HG2	10:AJ:28:ARG:HD2	1.97	0.46
12:AL:53:ARG:CB	12:AL:93:LEU:HD11	2.46	0.46
16:AP:20:VAL:HG23	16:AP:34:GLU:C	2.41	0.46
19:AS:20:LEU:HA	19:AS:23:ASN:ND2	2.15	0.46
20:AT:49:ALA:HB2	20:AT:99:LEU:CD1	2.45	0.46
22:AV:25:C:H2'	22:AV:26:A:C8	2.50	0.46
22:AW:12:U:H3	22:AW:23:A:H61	1.63	0.46
24:AY:302:VAL:C	24:AY:303:GLU:HG2	2.40	0.46
24:AY:341:LEU:C	24:AY:343:ASP:N	2.74	0.46
28:B3:44:ARG:O	28:B3:48:GLU:N	2.37	0.46
31:B6:11:LEU:CD2	31:B6:26:ASN:N	2.73	0.46
34:B9:19:ARG:O	34:B9:20:HIS:HB2	2.16	0.46
35:BA:78:A:H2'	35:BA:79:G:C8	2.50	0.46
35:BA:1005:C:H2'	35:BA:1006:C:H6	1.81	0.46
35:BA:1019:U:O2'	35:BA:1021:A:C2	2.57	0.46
35:BA:1411:C:H2'	35:BA:1412:A:C8	2.51	0.46
35:BA:1563:G:O2'	35:BA:1564:C:H5'	2.16	0.46
35:BA:1885:A:H3'	35:BA:1886:C:C6	2.50	0.46
35:BA:2199:A:C5'	35:BA:2200:C:OP2	2.62	0.46
35:BA:2222:G:H5'	38:BD:149:PRO:HG3	1.96	0.46
35:BA:2354:G:H2'	35:BA:2355:C:C6	2.49	0.46
35:BA:2751:G:O2'	35:BA:2752:C:H5'	2.16	0.46
35:BA:2753:A:O2'	35:BA:2754:U:C6	2.67	0.46
36:BB:66:A:HO2'	36:BB:67:G:P	2.38	0.46
39:BE:44:TYR:O	39:BE:45:THR:HB	2.16	0.46
40:BF:34:TRP:HB2	48:BP:10:PRO:O	2.15	0.46
41:BG:120:LEU:HB2	41:BG:180:PHE:CD2	2.50	0.46
41:BG:140:ILE:CG2	41:BG:140:ILE:O	2.63	0.46
52:BT:54:ARG:HG2	52:BT:54:ARG:NH1	2.28	0.46
52:BT:76:PHE:HA	52:BT:77:PRO:HD3	1.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:4:ARG:HD3	58:BZ:58:VAL:HB	1.97	0.46
58:BZ:86:VAL:O	58:BZ:86:VAL:CG2	2.64	0.46
1:CA:161:A:H2'	1:CA:162:A:H8	1.79	0.46
1:CA:596:C:O2'	1:CA:597:G:H5'	2.16	0.46
2:CB:8:LYS:CA	2:CB:217:ARG:HH22	2.28	0.46
4:CD:19:LEU:O	4:CD:26:CYS:SG	2.74	0.46
4:CD:133:VAL:HG13	4:CD:135:LEU:HD22	1.98	0.46
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.60	0.46
7:CG:15:ASP:C	7:CG:17:VAL:H	2.23	0.46
7:CG:18:TYR:CD2	7:CG:59:LEU:HB2	2.50	0.46
9:CI:53:VAL:HG13	9:CI:95:LYS:NZ	2.29	0.46
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.31	0.46
17:CQ:45:HIS:O	17:CQ:46:ASP:HB2	2.15	0.46
22:CV:18:G:H4'	22:CV:60:U:C2	2.50	0.46
22:CW:49:C:O2'	22:CW:50:U:H5'	2.15	0.46
24:CY:145:GLU:C	24:CY:147:GLN:N	2.72	0.46
24:CY:332:ASP:OD1	24:CY:332:ASP:N	2.48	0.46
26:D1:82:LEU:HD22	26:D1:90:ILE:CD1	2.46	0.46
32:D7:34:ARG:NH1	32:D7:39:ARG:HG3	2.30	0.46
33:D8:22:VAL:HB	33:D8:53:PRO:HB3	1.97	0.46
35:DA:9:U:H5"	46:DN:115:ARG:NH2	2.30	0.46
35:DA:17:G:H2'	35:DA:18:C:C6	2.50	0.46
35:DA:862:G:H2'	35:DA:863:A:O4'	2.14	0.46
35:DA:1091:G:O2'	35:DA:1092:C:H5'	2.15	0.46
35:DA:1417:C:H2'	35:DA:1418:G:O4'	2.15	0.46
35:DA:1651:G:OP1	50:DR:37:THR:HG21	2.16	0.46
35:DA:2096:U:O2'	35:DA:2097:C:H5'	2.14	0.46
35:DA:2313:C:H2'	35:DA:2314:C:H6	1.79	0.46
35:DA:2317:C:O2'	35:DA:2318:G:H5'	2.16	0.46
35:DA:2362:G:C2'	35:DA:2363:C:H5'	2.46	0.46
35:DA:2572:A:OP1	39:DE:144:ARG:HB2	2.15	0.46
35:DA:2787:C:H1'	39:DE:61:ARG:HG2	1.96	0.46
35:DA:2789:C:H1'	35:DA:2892:A:H2	1.81	0.46
40:DF:10:PRO:CA	40:DF:128:ALA:HB2	2.45	0.46
40:DF:10:PRO:C	40:DF:128:ALA:HB2	2.39	0.46
41:DG:86:MET:O	41:DG:87:PRO:O	2.34	0.46
41:DG:133:LEU:CD1	41:DG:135:LEU:HD11	2.45	0.46
46:DN:90:MET:HE2	46:DN:90:MET:HA	1.97	0.46
49:DQ:77:LYS:NZ	49:DQ:84:GLY:N	2.63	0.46
54:DV:6:LYS:HE2	54:DV:37:VAL:CG1	2.45	0.46
57:DY:4:LYS:C	57:DY:4:LYS:CD	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:111:VAL:CG2	58:DZ:112:ARG:H	2.25	0.46
58:DZ:135:GLU:O	58:DZ:136:PHE:CB	2.63	0.46
1:AA:287:U:O2'	1:AA:288:A:H5'	2.16	0.46
1:AA:402:G:H5'	1:AA:621:A:H1'	1.97	0.46
1:AA:688:G:H2'	1:AA:689:C:C6	2.49	0.46
1:AA:811:C:H4'	1:AA:900:A:N6	2.30	0.46
1:AA:913:A:O2'	1:AA:914:A:OP2	2.32	0.46
1:AA:1319:A:N7	1:AA:1323:G:C5	2.83	0.46
2:AB:44:LEU:HA	2:AB:47:THR:HG1	1.79	0.46
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.98	0.46
3:AC:129:ALA:HB3	3:AC:132:ARG:CG	2.42	0.46
4:AD:30:LYS:HA	4:AD:35:ARG:CG	2.44	0.46
4:AD:128:VAL:CG1	4:AD:129:ASN:H	2.25	0.46
6:AF:77:ARG:HB3	6:AF:77:ARG:CZ	2.45	0.46
7:AG:46:ALA:O	7:AG:49:ILE:N	2.49	0.46
7:AG:75:VAL:HG13	7:AG:145:ALA:HB2	1.97	0.46
7:AG:108:ALA:O	7:AG:119:ARG:HB3	2.16	0.46
8:AH:112:LEU:HD11	8:AH:131:GLY:C	2.40	0.46
12:AL:105:TYR:C	12:AL:107:ALA:N	2.73	0.46
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.51	0.46
20:AT:9:ASN:OD1	20:AT:10:LEU:N	2.48	0.46
20:AT:26:ASN:HA	20:AT:29:LYS:HG2	1.97	0.46
24:AY:15:GLY:CA	24:AY:19:ILE:HG12	2.39	0.46
35:BA:218:A:C2	35:BA:235:U:H4'	2.51	0.46
35:BA:460:A:H2'	35:BA:461:C:O4'	2.16	0.46
35:BA:610:G:H2'	35:BA:611:C:C6	2.51	0.46
35:BA:680:G:H2'	35:BA:681:G:C8	2.50	0.46
35:BA:813:U:C5	48:BP:27:HIS:CD2	3.04	0.46
35:BA:960:A:C8	35:BA:962:G:C8	3.04	0.46
35:BA:999:U:C2'	35:BA:1000:A:C5'	2.89	0.46
35:BA:1039:G:O2'	35:BA:1040:C:H5'	2.15	0.46
35:BA:1327:C:H2'	35:BA:1328:G:O4'	2.15	0.46
35:BA:1344:G:H4'	35:BA:1384:A:C5	2.51	0.46
35:BA:2092:U:HO2'	35:BA:2093:G:P	2.38	0.46
35:BA:2787:C:H1'	39:BE:61:ARG:HG2	1.97	0.46
35:BA:2789:C:H1'	35:BA:2892:A:H2	1.81	0.46
36:BB:74:U:H2'	36:BB:75:G:O4'	2.14	0.46
39:BE:39:PRO:HA	39:BE:43:GLY:CA	2.46	0.46
42:BH:20:ALA:HB3	42:BH:23:ARG:CB	2.42	0.46
46:BN:62:VAL:HG22	46:BN:66:LYS:CG	2.38	0.46
49:BQ:77:LYS:NZ	49:BQ:84:GLY:N	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:52:SER:CB	51:BS:55:ALA:HB3	2.45	0.46
51:BS:80:LEU:HD12	51:BS:80:LEU:N	2.30	0.46
53:BU:98:LEU:HD21	54:BV:2:PHE:CZ	2.51	0.46
58:BZ:126:VAL:CG1	58:BZ:163:LEU:HA	2.40	0.46
1:CA:625:G:OP1	16:CP:9:PHE:HB3	2.14	0.46
1:CA:939:G:C5'	7:CG:102:ARG:HH22	2.24	0.46
1:CA:959:A:H2'	1:CA:960:U:O4'	2.14	0.46
1:CA:1047:G:H5"	14:CN:4:LYS:HG2	1.98	0.46
1:CA:1328:C:O2'	1:CA:1329:A:H5'	2.16	0.46
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.16	0.46
1:CA:1401:G:H2'	1:CA:1402:C:O4'	2.15	0.46
1:CA:1442:G:H2'	1:CA:1442(A):G:C5'	2.42	0.46
1:CA:1442(A):G:H2'	1:CA:1442(B):A:H2	1.80	0.46
1:CA:1510:U:H2'	1:CA:1511:G:H8	1.76	0.46
3:CC:9:GLY:HA3	14:CN:49:HIS:HA	1.96	0.46
3:CC:103:VAL:O	3:CC:103:VAL:HG12	2.15	0.46
4:CD:150:GLU:CD	4:CD:150:GLU:H	2.24	0.46
6:CF:8:ILE:HG23	6:CF:85:VAL:HG13	1.98	0.46
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.50	0.46
15:CO:25:THR:O	15:CO:27:VAL:N	2.48	0.46
17:CQ:22:LEU:HD11	17:CQ:39:SER:HB2	1.96	0.46
19:CS:49:ILE:HG21	19:CS:71:LEU:HD13	1.97	0.46
20:CT:81:LYS:C	20:CT:83:ARG:N	2.74	0.46
20:CT:100:ILE:HD12	20:CT:100:ILE:N	2.29	0.46
24:CY:22:LYS:HD2	24:CY:25:ARG:HB2	1.98	0.46
24:CY:60:ASP:O	24:CY:64:SER:N	2.48	0.46
24:CY:227:LEU:HB3	24:CY:253:HIS:HA	1.96	0.46
25:D0:11:ARG:O	25:D0:12:ASN:ND2	2.47	0.46
31:D6:18:ARG:HB2	31:D6:19:ARG:H	1.52	0.46
35:DA:52:A:O2'	35:DA:53:A:H5'	2.16	0.46
35:DA:524:U:H4'	35:DA:555:U:H4'	1.98	0.46
35:DA:1407:C:N3	35:DA:1596:A:C2	2.84	0.46
35:DA:1658:C:OP1	39:DE:132:HIS:CE1	2.68	0.46
35:DA:2126:A:H1'	35:DA:2127:G:O4'	2.15	0.46
35:DA:2143:C:H2'	35:DA:2144:U:O4'	2.15	0.46
35:DA:2508:G:O2'	35:DA:2509:G:H5'	2.14	0.46
35:DA:2620:C:OP1	39:DE:152:LYS:O	2.33	0.46
35:DA:2631:G:N3	35:DA:2810:A:H2	2.13	0.46
36:DB:66:A:O2'	36:DB:67:G:O5'	2.33	0.46
36:DB:91:C:OP2	49:DQ:16:ARG:NH1	2.46	0.46
40:DF:64:ILE:C	40:DF:65:TRP:CD1	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:37:VAL:CG2	41:DG:99:MET:HG3	2.46	0.46
59:DI:12:LEU:O	59:DI:12:LEU:HG	2.16	0.46
59:DI:37:VAL:CG1	59:DI:38:LEU:N	2.78	0.46
48:DP:9:ASN:N	48:DP:10:PRO:HD3	2.30	0.46
48:DP:32:THR:OG1	48:DP:33:ARG:N	2.48	0.46
53:DU:41:ALA:O	53:DU:42:ALA:C	2.58	0.46
53:DU:83:LEU:HD11	53:DU:109:LEU:HD22	1.97	0.46
57:DY:25:GLY:HA3	57:DY:39:VAL:HG13	1.97	0.46
57:DY:46:LYS:HB3	57:DY:47:LYS:CD	2.42	0.46
58:DZ:149:SER:HB2	58:DZ:173:ALA:CB	2.46	0.46
1:AA:1328:C:O2'	1:AA:1329:A:H5'	2.16	0.46
2:AB:28:PHE:CZ	2:AB:31:TYR:HB2	2.50	0.46
3:AC:138:VAL:C	3:AC:140:ARG:N	2.73	0.46
4:AD:73:ARG:HD2	4:AD:77:ASN:ND2	2.30	0.46
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.30	0.46
6:AF:21:LEU:C	6:AF:24:GLU:HG2	2.40	0.46
9:AI:53:VAL:HG13	9:AI:95:LYS:NZ	2.29	0.46
20:AT:22:ARG:O	20:AT:23:ARG:C	2.58	0.46
20:AT:38:LYS:HA	20:AT:41:ILE:CD1	2.46	0.46
20:AT:94:ALA:O	20:AT:95:ALA:CB	2.64	0.46
22:AV:1:G:H2'	22:AV:2:C:C6	2.49	0.46
22:AW:30:G:H2'	22:AW:31:A:C8	2.49	0.46
24:AY:13:LEU:O	24:AY:14:ARG:HG3	2.15	0.46
24:AY:17:LEU:O	24:AY:21:GLN:HG2	2.16	0.46
24:AY:22:LYS:HE3	24:AY:26:LEU:HD21	1.97	0.46
24:AY:68:ASP:C	24:AY:71:GLY:H	2.23	0.46
30:B5:3:LYS:HB2	35:BA:747:U:H5	1.79	0.46
31:B6:15:GLU:HG3	31:B6:47:THR:OG1	2.15	0.46
35:BA:17:G:H2'	35:BA:18:C:C6	2.50	0.46
35:BA:49:A:H5"	35:BA:51:G:O4'	2.15	0.46
35:BA:773:U:H5'	38:BD:47:GLY:HA3	1.98	0.46
35:BA:2015:A:H5'	55:BW:92:ARG:HH21	1.81	0.46
35:BA:2677:G:H2'	35:BA:2678:C:C6	2.50	0.46
39:BE:61:ARG:CB	39:BE:62:PRO:CD	2.93	0.46
42:BH:121:ILE:HD11	42:BH:140:LYS:HG2	1.97	0.46
43:BI:28:ASN:HA	43:BI:32:PRO:HG2	1.97	0.46
43:BI:56:LYS:O	43:BI:56:LYS:HG3	2.15	0.46
45:BK:99:ILE:CG2	45:BK:103:GLN:HB2	2.46	0.46
47:BO:71:ARG:HH21	47:BO:77:ILE:HG21	1.81	0.46
48:BP:56:SER:O	48:BP:57:THR:O	2.34	0.46
49:BQ:141:GLN:OXT	58:BZ:99:TYR:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:39:PRO:C	50:BR:41:ALA:H	2.24	0.46
50:BR:82:GLU:H	50:BR:85:PRO:CD	2.29	0.46
51:BS:89:ARG:HB3	51:BS:92:TYR:HB2	1.97	0.46
54:BV:19:LYS:CG	54:BV:20:LEU:N	2.70	0.46
54:BV:91:TYR:H	54:BV:91:TYR:HD1	1.64	0.46
1:CA:407:G:H2'	1:CA:408:A:C8	2.51	0.46
1:CA:626:U:O2'	1:CA:627:G:H5'	2.15	0.46
1:CA:1029:C:O2'	1:CA:1030:C:C5	2.68	0.46
1:CA:1170:A:H2'	1:CA:1171:G:O4'	2.15	0.46
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.79	0.46
2:CB:17:PHE:CD2	2:CB:17:PHE:N	2.83	0.46
3:CC:106:VAL:HG12	3:CC:108:ASN:C	2.41	0.46
4:CD:14:ARG:O	4:CD:16:GLY:N	2.49	0.46
4:CD:33:MET:HA	4:CD:33:MET:HE3	1.98	0.46
5:CE:31:LEU:HD23	5:CE:45:PHE:HB2	1.97	0.46
7:CG:50:ILE:HD11	7:CG:61:VAL:HG11	1.98	0.46
7:CG:118:VAL:O	7:CG:121:ALA:HB3	2.16	0.46
9:CI:91:ASP:C	9:CI:92:TYR:HD1	2.24	0.46
11:CK:43:SER:HB3	11:CK:68:ALA:HB2	1.97	0.46
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.81	0.46
21:CU:2:GLY:C	21:CU:4:GLY:N	2.73	0.46
24:CY:82:GLU:OE1	24:CY:86:ALA:HB2	2.16	0.46
24:CY:205:PHE:CD1	24:CY:205:PHE:N	2.83	0.46
24:CY:253:HIS:HB3	24:CY:258:ILE:HG13	1.96	0.46
35:DA:654(E):G:O2'	35:DA:654(F):C:H5'	2.16	0.46
35:DA:783:A:H2'	35:DA:784:A:O5'	2.16	0.46
35:DA:1000:A:H8	35:DA:1000:A:H5'	1.81	0.46
35:DA:1184:G:C6	35:DA:1185:C:C4	3.03	0.46
35:DA:1331:A:O2'	35:DA:1332:G:H5"	2.15	0.46
35:DA:1494:A:H3'	35:DA:1494:A:N3	2.30	0.46
35:DA:2174:C:O2'	35:DA:2175:C:H5'	2.15	0.46
35:DA:2300:G:O2'	35:DA:2301:C:H5'	2.15	0.46
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.46	0.46
35:DA:2619:C:H5"	39:DE:152:LYS:HA	1.98	0.46
35:DA:2712:U:OP1	35:DA:2714:G:H4'	2.15	0.46
35:DA:2839:G:C5'	50:DR:46:GLY:HA2	2.46	0.46
36:DB:40:U:H3'	36:DB:41:U:H5"	1.96	0.46
36:DB:42:C:O4'	41:DG:69:ALA:HB2	2.16	0.46
39:DE:61:ARG:HB3	39:DE:62:PRO:HD3	1.97	0.46
40:DF:140:LEU:CD1	40:DF:170:LEU:HD21	2.45	0.46
59:DI:57:ARG:C	59:DI:59:ALA:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DI:132:PRO:HG2	59:DI:138:ILE:HG13	1.98	0.46
47:DO:91:LEU:N	47:DO:91:LEU:HD22	2.30	0.46
49:DQ:5:ARG:O	49:DQ:6:ARG:CG	2.62	0.46
49:DQ:5:ARG:O	49:DQ:6:ARG:HD3	2.16	0.46
49:DQ:60:ARG:NH1	49:DQ:60:ARG:CB	2.79	0.46
50:DR:13:HIS:O	50:DR:14:SER:C	2.57	0.46
51:DS:59:LYS:HB2	51:DS:65:VAL:CG2	2.44	0.46
52:DT:57:PHE:O	52:DT:58:ASN:C	2.59	0.46
52:DT:106:SER:O	52:DT:107:ASP:HB3	2.15	0.46
52:DT:107:ASP:CG	52:DT:108:ARG:N	2.74	0.46
58:DZ:15:PRO:O	58:DZ:19:ARG:HB2	2.15	0.46
58:DZ:76:LEU:N	58:DZ:76:LEU:HD22	2.31	0.46
58:DZ:100:VAL:HG11	58:DZ:137:ILE:HG13	1.97	0.46
1:AA:7:G:O2'	5:AE:120:THR:O	2.33	0.46
1:AA:189(B):C:H2'	1:AA:189(C):C:H6	1.80	0.46
1:AA:401:C:H2'	1:AA:402:G:C8	2.50	0.46
1:AA:424:G:P	35:DA:2140:C:OP2	2.74	0.46
1:AA:551:U:H2'	1:AA:552:U:H6	1.78	0.46
1:AA:865:A:H2'	1:AA:866:C:C6	2.50	0.46
1:AA:1160:G:H5'	2:AB:132:LYS:HE3	1.97	0.46
1:AA:1229:A:OP2	13:AM:114:ARG:HD3	2.15	0.46
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.98	0.46
1:AA:1427:U:H2'	1:AA:1428:A:H8	1.76	0.46
3:AC:6:HIS:HB2	14:AN:49:HIS:CD2	2.50	0.46
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.97	0.46
5:AE:93:PRO:HG2	8:AH:105:ARG:NE	2.31	0.46
6:AF:19:LEU:O	6:AF:19:LEU:HD23	2.15	0.46
8:AH:11:THR:O	8:AH:15:ASN:ND2	2.49	0.46
9:AI:4:TYR:CD2	9:AI:88:TYR:CB	2.99	0.46
10:AJ:53:PRO:HG2	10:AJ:54:PHE:H	1.80	0.46
10:AJ:56:HIS:C	10:AJ:58:ASP:N	2.73	0.46
12:AL:6:THR:HG23	12:AL:9:GLN:CD	2.40	0.46
15:AO:25:THR:O	15:AO:27:VAL:N	2.48	0.46
16:AP:8:ARG:HG2	16:AP:9:PHE:N	2.31	0.46
16:AP:80:PHE:N	16:AP:80:PHE:CD1	2.84	0.46
18:AR:36:ASN:HB3	18:AR:39:VAL:HG23	1.97	0.46
18:AR:47:THR:O	18:AR:82:THR:HA	2.16	0.46
19:AS:49:ILE:HG21	19:AS:71:LEU:HD13	1.98	0.46
23:AX:19:U:H4'	23:AX:20:U:OP1	2.15	0.46
25:B0:66:VAL:HG12	25:B0:67:VAL:N	2.30	0.46
26:B1:68:PRO:O	26:B1:71:TYR:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:45:GLY:HA3	35:BA:851:U:HO2'	1.76	0.46
35:BA:412:A:N7	35:BA:2411:A:H2	2.14	0.46
35:BA:828:U:H4'	35:BA:831:G:N1	2.31	0.46
35:BA:918:A:O3'	36:BB:97:G:N2	2.49	0.46
35:BA:1651:G:OP1	50:BR:40:LYS:CE	2.63	0.46
35:BA:2092:U:C5	35:BA:2226:C:OP2	2.69	0.46
35:BA:2273:A:O2'	35:BA:2274:A:H5'	2.15	0.46
35:BA:2673:G:O2'	35:BA:2674:G:H5'	2.16	0.46
36:BB:44:G:C2	36:BB:48:A:C2	3.04	0.46
36:BB:97:G:H2'	36:BB:98:G:C5'	2.45	0.46
38:BD:96:HIS:NE2	38:BD:102:LYS:HE2	2.30	0.46
39:BE:66:HIS:C	39:BE:66:HIS:HD2	2.21	0.46
41:BG:100:TRP:O	41:BG:103:LEU:N	2.48	0.46
42:BH:43:VAL:HG23	42:BH:43:VAL:O	2.15	0.46
46:BN:18:ALA:CB	46:BN:21:LYS:HG3	2.45	0.46
47:BO:45:GLU:O	47:BO:45:GLU:HG3	2.15	0.46
50:BR:13:HIS:O	50:BR:14:SER:C	2.59	0.46
50:BR:60:LEU:HD23	50:BR:60:LEU:O	2.16	0.46
50:BR:95:THR:CA	50:BR:117:VAL:HG23	2.45	0.46
53:BU:31:SER:HB3	53:BU:34:LYS:HB2	1.98	0.46
56:BX:41:ASN:HD22	56:BX:41:ASN:N	2.14	0.46
56:BX:83:VAL:HB	56:BX:87:GLN:HB2	1.97	0.46
58:BZ:45:ASP:OD1	58:BZ:49:ARG:HG2	2.16	0.46
58:BZ:63:ASP:O	58:BZ:65:GLN:N	2.48	0.46
1:CA:447:G:C6	1:CA:485:G:H1'	2.50	0.46
1:CA:453:A:H4'	16:CP:72:ARG:HG3	1.98	0.46
1:CA:515:G:O2'	1:CA:516:U:H5'	2.14	0.46
1:CA:963:G:H2'	1:CA:964:A:C8	2.45	0.46
1:CA:1041:A:H2'	1:CA:1042:G:C8	2.47	0.46
1:CA:1125:U:H2'	1:CA:1126:U:OP2	2.16	0.46
2:CB:31:TYR:O	2:CB:42:ILE:HG13	2.16	0.46
2:CB:100:GLY:O	2:CB:104:ASN:C	2.59	0.46
4:CD:159:ARG:O	4:CD:160:GLN:C	2.58	0.46
14:CN:42:ILE:C	14:CN:44:LEU:H	2.24	0.46
22:CW:59:U:C2'	22:CW:60:U:H5'	2.45	0.46
24:CY:16:TYR:HA	24:CY:55:LEU:HD21	1.97	0.46
24:CY:24:THR:HA	24:CY:27:LYS:HB2	1.98	0.46
26:D1:30:VAL:H	35:DA:2396:G:C4'	2.28	0.46
31:D6:19:ARG:NH2	31:D6:42:TRP:CZ2	2.83	0.46
35:DA:473:G:OP1	35:DA:508:G:N2	2.48	0.46
35:DA:601:C:C5'	40:DF:108:LYS:NZ	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:607:U:OP1	40:DF:102:PRO:HA	2.16	0.46
35:DA:997:G:OP1	53:DU:93:LYS:HB2	2.15	0.46
35:DA:999:U:H2'	35:DA:1000:A:H5'	1.98	0.46
35:DA:2263:C:O2'	35:DA:2264:C:H5'	2.15	0.46
35:DA:2632:A:O2'	39:DE:61:ARG:NH2	2.48	0.46
35:DA:2757:A:N1	42:DH:67:LEU:HD13	2.30	0.46
35:DA:2790:A:O2'	35:DA:2791:C:H5'	2.15	0.46
37:DC:95:GLY:HA3	37:DC:99:ILE:HD11	1.97	0.46
38:DD:72:LYS:HD2	38:DD:97:TYR:CD2	2.51	0.46
38:DD:185:VAL:HG12	38:DD:189:CYS:SG	2.55	0.46
38:DD:254:THR:O	38:DD:254:THR:OG1	2.27	0.46
39:DE:79:ARG:HG2	39:DE:79:ARG:NH1	2.31	0.46
41:DG:72:ARG:NH1	41:DG:86:MET:CA	2.70	0.46
59:DI:33:ARG:C	59:DI:35:LEU:H	2.22	0.46
59:DI:75:LEU:CD1	59:DI:141:LYS:HD2	2.44	0.46
59:DI:97:ILE:O	59:DI:98:ALA:C	2.59	0.46
45:DK:57:ILE:HG13	45:DK:67:PHE:CB	2.44	0.46
48:DP:23:PRO:CB	48:DP:33:ARG:HG3	2.36	0.46
53:DU:66:ASN:OD1	53:DU:76:TYR:HB2	2.15	0.46
54:DV:1:MET:HE1	54:DV:43:GLU:HG2	1.97	0.46
55:DW:18:ARG:HG2	55:DW:76:VAL:HG13	1.98	0.46
1:AA:167:G:O2'	1:AA:168:G:H5'	2.16	0.46
1:AA:722:A:H4'	1:AA:723:U:C4	2.51	0.46
1:AA:959:A:H2'	1:AA:960:U:O4'	2.15	0.46
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.16	0.46
1:AA:1029:C:O2'	1:AA:1030:C:C5	2.68	0.46
2:AB:141:GLU:O	2:AB:145:LEU:HD23	2.16	0.46
3:AC:15:THR:HG22	3:AC:181:ASN:CA	2.46	0.46
3:AC:47:LEU:HD11	3:AC:76:VAL:HG12	1.98	0.46
3:AC:95:THR:C	3:AC:97:LYS:H	2.24	0.46
3:AC:103:VAL:HG12	3:AC:103:VAL:O	2.15	0.46
3:AC:124:ILE:HG21	3:AC:196:LEU:HG	1.97	0.46
4:AD:85:LYS:CD	4:AD:86:LYS:H	2.28	0.46
4:AD:147:ALA:HB2	4:AD:182:LYS:CB	2.46	0.46
6:AF:28:ARG:HH11	6:AF:28:ARG:HG3	1.80	0.46
6:AF:77:ARG:HB3	6:AF:77:ARG:HH11	1.78	0.46
7:AG:54:THR:CG2	7:AG:125:MET:HE3	2.46	0.46
8:AH:14:ARG:NH1	8:AH:14:ARG:HB3	2.31	0.46
10:AJ:44:VAL:CG1	10:AJ:45:ARG:N	2.78	0.46
15:AO:23:GLY:O	15:AO:24:SER:CB	2.61	0.46
24:AY:29:LEU:HD21	24:AY:34:GLU:OE2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:12:ASN:C	25:B0:14:ARG:N	2.74	0.46
27:B2:16:LEU:O	27:B2:17:SER:O	2.34	0.46
28:B3:3:ARG:O	28:B3:4:LEU:O	2.33	0.46
33:B8:32:LEU:H	33:B8:32:LEU:CD1	2.19	0.46
35:BA:271(C):C:H2'	35:BA:271(D):G:C8	2.50	0.46
35:BA:951:C:O2'	35:BA:952:G:H5'	2.15	0.46
35:BA:1175:U:H4'	35:BA:1176:G:C5'	2.44	0.46
35:BA:1766:U:O2'	35:BA:1767:C:H5'	2.16	0.46
35:BA:2103:C:H3'	35:BA:2104:G:C5'	2.37	0.46
35:BA:2345:G:H5"	35:BA:2347:C:O4'	2.16	0.46
35:BA:2777:G:H5"	35:BA:2778:A:C5'	2.46	0.46
38:BD:125:ILE:H	38:BD:125:ILE:CD1	2.24	0.46
38:BD:142:VAL:CG2	38:BD:191:ALA:HB1	2.44	0.46
41:BG:8:LYS:O	41:BG:11:TYR:HB3	2.16	0.46
42:BH:145:ALA:O	42:BH:146:ALA:C	2.56	0.46
43:BI:27:ARG:HH11	43:BI:27:ARG:HG3	1.80	0.46
43:BI:105:HIS:C	43:BI:107:VAL:N	2.74	0.46
43:BI:119:PRO:O	43:BI:120:ILE:O	2.33	0.46
46:BN:57:ALA:CB	46:BN:124:ALA:HA	2.38	0.46
48:BP:10:PRO:CD	48:BP:11:GLY:N	2.79	0.46
50:BR:94:TYR:C	50:BR:117:VAL:HB	2.40	0.46
52:BT:112:ARG:CB	52:BT:112:ARG:NH1	2.79	0.46
55:BW:75:TYR:C	55:BW:75:TYR:CD1	2.94	0.46
57:BY:35:TYR:CE2	57:BY:69:ALA:HB3	2.51	0.46
57:BY:46:LYS:HB3	57:BY:47:LYS:CD	2.44	0.46
57:BY:81:LYS:HD3	57:BY:97:ARG:CB	2.20	0.46
57:BY:89:PHE:O	57:BY:90:LEU:CB	2.60	0.46
58:BZ:145:GLU:CD	58:BZ:146:ILE:H	2.24	0.46
1:CA:643:C:H2'	1:CA:644:G:H8	1.80	0.46
1:CA:1017:G:H2'	1:CA:1018:C:H6	1.78	0.46
1:CA:1068:G:OP2	1:CA:1094:G:H5'	2.15	0.46
1:CA:1225:A:H2'	1:CA:1226:C:C5	2.50	0.46
5:CE:101:ILE:H	5:CE:101:ILE:CD1	2.17	0.46
6:CF:77:ARG:HB3	6:CF:77:ARG:HH11	1.79	0.46
7:CG:78:ARG:HH12	7:CG:154:TYR:HB3	1.80	0.46
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	2.15	0.46
10:CJ:97:GLU:OE2	10:CJ:97:GLU:HA	2.16	0.46
13:CM:56:LEU:O	13:CM:56:LEU:HD13	2.15	0.46
13:CM:82:MET:SD	13:CM:83:ASP:N	2.89	0.46
17:CQ:60:ILE:HG23	17:CQ:60:ILE:O	2.16	0.46
19:CS:49:ILE:HD12	19:CS:49:ILE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:21:GLN:O	24:CY:25:ARG:HG3	2.14	0.46
24:CY:22:LYS:HA	24:CY:25:ARG:CD	2.46	0.46
24:CY:239:GLY:HA2	35:DA:2584:U:O2'	2.16	0.46
24:CY:322:LYS:HG3	24:CY:323:ASP:N	2.31	0.46
24:CY:349:LEU:C	24:CY:351:TRP:N	2.72	0.46
26:D1:68:PRO:C	26:D1:70:VAL:N	2.73	0.46
27:D2:10:LEU:CD2	27:D2:59:ARG:HD2	2.46	0.46
31:D6:25:LYS:HD2	33:D8:34:TRP:HZ2	1.78	0.46
33:D8:14:VAL:CG2	33:D8:22:VAL:HG13	2.46	0.46
35:DA:143:G:O4'	56:DX:37:THR:HG21	2.16	0.46
35:DA:412:A:N7	35:DA:2411:A:H2	2.13	0.46
35:DA:528:A:H2	35:DA:2043:C:O5'	1.99	0.46
35:DA:621:A:H2'	35:DA:622:G:H5'	1.98	0.46
35:DA:769:G:C2'	35:DA:770:G:H5'	2.45	0.46
35:DA:828:U:H4'	35:DA:831:G:N1	2.30	0.46
35:DA:990:A:OP2	35:DA:991:C:OP2	2.34	0.46
35:DA:1550:C:H2'	35:DA:1551:C:H6	1.81	0.46
35:DA:1819:A:H5"	38:DD:161:THR:HG21	1.97	0.46
35:DA:2383:G:O2'	35:DA:2384:G:H5'	2.16	0.46
35:DA:2518:A:H5'	35:DA:2518:A:C8	2.51	0.46
35:DA:2543:G:H8	35:DA:2543:G:H5'	1.81	0.46
35:DA:2684:U:H1'	47:DO:70:LYS:HD2	1.97	0.46
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.45	0.46
39:DE:132:HIS:CG	39:DE:135:HIS:NE2	2.83	0.46
41:DG:11:TYR:OH	41:DG:33:ARG:HG3	2.15	0.46
41:DG:85:GLY:O	41:DG:87:PRO:CD	2.64	0.46
41:DG:110:ALA:O	41:DG:111:LEU:C	2.58	0.46
45:DK:99:ILE:CG2	45:DK:103:GLN:HB2	2.46	0.46
46:DN:26:LEU:CG	46:DN:30:ILE:HD11	2.46	0.46
46:DN:62:VAL:HG22	46:DN:66:LYS:CG	2.40	0.46
46:DN:93:THR:HG23	46:DN:94:HIS:N	2.31	0.46
47:DO:40:VAL:HG12	47:DO:41:ALA:N	2.30	0.46
48:DP:95:VAL:CG2	48:DP:125:VAL:HG23	2.46	0.46
48:DP:147:LEU:HD12	48:DP:148:LEU:N	2.18	0.46
49:DQ:141:GLN:HA	58:DZ:53:ILE:HB	1.98	0.46
53:DU:102:GLU:HA	53:DU:104:GLN:HE22	1.80	0.46
57:DY:55:TYR:HB3	57:DY:56:PRO:HD2	1.97	0.46
58:DZ:98:MET:O	58:DZ:125:LEU:HD12	2.15	0.46
1:AA:38:G:C2	1:AA:397:A:C2	3.03	0.46
1:AA:658:G:H1'	15:AO:22:THR:HB	1.97	0.46
1:AA:660:G:H2'	1:AA:661:G:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1307:U:O2'	1:AA:1308:U:H5'	2.16	0.46
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.16	0.46
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.81	0.46
2:AB:102:LEU:HB3	2:AB:180:LEU:CD1	2.44	0.46
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.34	0.46
7:AG:146:GLU:CD	7:AG:146:GLU:C	2.84	0.46
9:AI:4:TYR:CD2	9:AI:88:TYR:HB3	2.50	0.46
9:AI:99:LEU:HD12	9:AI:101:PHE:HE1	1.80	0.46
10:AJ:97:GLU:HA	10:AJ:97:GLU:OE2	2.16	0.46
17:AQ:17:LYS:HA	17:AQ:46:ASP:O	2.16	0.46
20:AT:63:ILE:HG22	20:AT:77:ALA:HB1	1.98	0.46
24:AY:146:ARG:NH1	24:AY:147:GLN:NE2	2.64	0.46
24:AY:191:ARG:HH21	24:AY:194:PRO:CD	2.29	0.46
24:AY:352:LYS:C	24:AY:354:GLY:H	2.23	0.46
25:B0:49:LYS:H	25:B0:80:HIS:HD1	1.63	0.46
27:B2:29:LYS:O	27:B2:32:LEU:HB3	2.15	0.46
32:B7:8:ASN:ND2	32:B7:10:ARG:N	2.64	0.46
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.51	0.46
35:BA:1506:C:H2'	35:BA:1506:C:O2	2.16	0.46
35:BA:1712:C:O2'	35:BA:1713:U:H5'	2.16	0.46
35:BA:2511:U:O4	35:BA:2575:C:N3	2.49	0.46
35:BA:2836:U:C4	35:BA:2883:A:N6	2.84	0.46
35:BA:2841:C:O2'	35:BA:2842:G:H5'	2.16	0.46
35:BA:2875:C:H4'	52:BT:5:ALA:CB	2.33	0.46
39:BE:93:VAL:HG21	39:BE:180:ASN:CA	2.38	0.46
40:BF:198:ALA:O	40:BF:200:GLU:N	2.49	0.46
41:BG:120:LEU:O	41:BG:121:ASN:C	2.58	0.46
45:BK:58:THR:HB	45:BK:66:THR:CG2	2.41	0.46
46:BN:18:ALA:HB2	46:BN:26:LEU:HD13	1.98	0.46
47:BO:4:PRO:HA	47:BO:21:CYS:O	2.15	0.46
47:BO:71:ARG:HG3	47:BO:71:ARG:HH11	1.81	0.46
48:BP:49:ARG:O	48:BP:50:ARG:HB3	2.14	0.46
50:BR:2:ARG:CZ	50:BR:5:LYS:NZ	2.78	0.46
52:BT:78:LEU:C	52:BT:79:HIS:ND1	2.74	0.46
53:BU:55:ARG:HA	53:BU:58:ARG:CG	2.45	0.46
57:BY:55:TYR:HB3	57:BY:56:PRO:HD2	1.98	0.46
58:BZ:120:ILE:O	58:BZ:171:ILE:O	2.34	0.46
1:CA:35:G:H2'	1:CA:36:C:C6	2.51	0.46
1:CA:477:A:O2'	1:CA:479:C:H5'	2.16	0.46
1:CA:544:G:C6	1:CA:545:C:C4	3.03	0.46
1:CA:558:G:C3'	1:CA:559:A:C5'	2.91	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:580:U:H2'	1:CA:581:G:O4'	2.16	0.46
1:CA:1160:G:H5'	2:CB:132:LYS:HE3	1.98	0.46
1:CA:1523:G:OP1	11:CK:123:LYS:HD3	2.16	0.46
2:CB:82:ARG:O	2:CB:86:GLU:HG3	2.15	0.46
2:CB:102:LEU:C	2:CB:180:LEU:HD11	2.41	0.46
3:CC:102:ASN:C	3:CC:103:VAL:HG23	2.41	0.46
4:CD:100:ARG:NH2	4:CD:137:SER:HA	2.31	0.46
4:CD:147:ALA:HB2	4:CD:182:LYS:CB	2.46	0.46
5:CE:87:SER:OG	5:CE:130:ASN:HB3	2.15	0.46
6:CF:55:ASP:CB	6:CF:86:ARG:HH12	2.28	0.46
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.15	0.46
9:CI:5:TYR:O	9:CI:84:ALA:HA	2.15	0.46
9:CI:114:TYR:CD2	9:CI:114:TYR:N	2.82	0.46
11:CK:116:HIS:O	11:CK:117:ASN:HB2	2.15	0.46
16:CP:8:ARG:HG2	16:CP:9:PHE:N	2.30	0.46
18:CR:29:PHE:CD1	18:CR:39:VAL:HG11	2.51	0.46
24:CY:44:ALA:O	24:CY:48:VAL:HG22	2.15	0.46
24:CY:54:ARG:CG	24:CY:54:ARG:NH1	2.77	0.46
25:D0:49:LYS:O	25:D0:51:VAL:HG23	2.15	0.46
26:D1:68:PRO:HG2	26:D1:69:LYS:H	1.81	0.46
30:D5:58:LEU:C	30:D5:59:GLU:HG3	2.41	0.46
35:DA:30:G:O2'	35:DA:31:C:H5'	2.15	0.46
35:DA:271(R):G:H2'	35:DA:271(S):G:H8	1.80	0.46
35:DA:608:A:H2'	35:DA:609:A:C8	2.50	0.46
35:DA:999:U:C2'	35:DA:1000:A:C5'	2.91	0.46
35:DA:2051:A:H5'	35:DA:2578:G:O4'	2.16	0.46
35:DA:2305:A:C4	41:DG:154:GLY:HA3	2.51	0.46
35:DA:2695:C:H2'	35:DA:2696:U:H6	1.80	0.46
35:DA:2753:A:O2'	35:DA:2754:U:C6	2.66	0.46
36:DB:97:G:C2'	36:DB:98:G:H5'	2.46	0.46
40:DF:7:TYR:CB	40:DF:16:GLY:C	2.88	0.46
40:DF:133:ASN:HA	40:DF:162:LEU:HD23	1.97	0.46
41:DG:76:SER:HB3	41:DG:84:LYS:H	1.76	0.46
41:DG:133:LEU:HD12	41:DG:135:LEU:HD11	1.98	0.46
59:DI:77:LEU:HD11	59:DI:142:VAL:HG13	1.98	0.46
45:DK:62:ASP:O	45:DK:63:ARG:C	2.57	0.46
47:DO:16:ALA:HA	47:DO:46:ALA:HB2	1.98	0.46
48:DP:135:LEU:CD1	48:DP:139:LYS:HD2	2.46	0.46
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.80	0.46
50:DR:8:ARG:H	50:DR:8:ARG:HE	1.64	0.46
52:DT:11:GLU:CD	52:DT:11:GLU:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:61:TRP:CD2	53:DU:94:ASN:HA	2.50	0.46
53:DU:90:VAL:C	53:DU:92:ARG:N	2.74	0.46
57:DY:88:LYS:HD3	57:DY:93:GLY:H	1.81	0.46
58:DZ:11:GLU:OE2	58:DZ:13:GLU:HG2	2.15	0.46
58:DZ:80:ARG:O	58:DZ:81:ARG:C	2.59	0.46
58:DZ:121:HIS:C	58:DZ:123:ASP:H	2.23	0.46
58:DZ:124:ILE:HG12	58:DZ:125:LEU:N	2.31	0.46
1:AA:643:C:H2'	1:AA:644:G:H8	1.80	0.46
1:AA:963:G:H2'	1:AA:964:A:C8	2.44	0.46
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.81	0.46
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.50	0.46
2:AB:17:PHE:N	2:AB:17:PHE:CD2	2.84	0.46
2:AB:92:TYR:HE2	2:AB:151:GLY:CA	2.28	0.46
2:AB:116:GLU:HA	2:AB:119:GLU:CB	2.46	0.46
2:AB:235:SER:C	2:AB:237:ALA:H	2.24	0.46
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.15	0.46
4:AD:18:LYS:HE3	4:AD:31:CYS:CB	2.45	0.46
5:AE:100:VAL:HG13	5:AE:118:ILE:CG2	2.46	0.46
6:AF:36:ARG:HB3	6:AF:36:ARG:NH1	2.31	0.46
9:AI:4:TYR:CE2	9:AI:88:TYR:HB3	2.51	0.46
10:AJ:6:ILE:O	10:AJ:6:ILE:HG13	2.15	0.46
10:AJ:49:VAL:HG22	14:AN:41:ARG:HB2	1.98	0.46
11:AK:41:THR:HG22	11:AK:42:TRP:N	2.31	0.46
13:AM:3:ARG:HD2	29:B4:60:GLU:CD	2.40	0.46
13:AM:108:ARG:N	13:AM:108:ARG:HD2	2.31	0.46
20:AT:57:ARG:NH1	20:AT:57:ARG:HB2	2.31	0.46
25:B0:41:ARG:CB	35:BA:2330:G:H1'	2.45	0.46
32:B7:34:ARG:NH1	32:B7:39:ARG:HG3	2.31	0.46
33:B8:32:LEU:C	33:B8:33:ASN:O	2.56	0.46
35:BA:55:G:H2'	35:BA:56:A:H8	1.80	0.46
35:BA:305:U:H2'	35:BA:306:U:C6	2.51	0.46
35:BA:1000:A:H5'	35:BA:1000:A:H8	1.80	0.46
35:BA:1407:C:C2	35:BA:1596:A:C2	3.03	0.46
35:BA:1932:A:H2'	35:BA:1933:G:O4'	2.16	0.46
35:BA:2881:C:C4	35:BA:2882:A:N7	2.84	0.46
36:BB:7:G:H3'	36:BB:8:U:C5'	2.46	0.46
38:BD:16:MET:HE2	38:BD:211:ARG:HD2	1.97	0.46
38:BD:118:VAL:N	38:BD:129:ASN:OD1	2.41	0.46
39:BE:16:ARG:NH1	39:BE:171:GLU:OE2	2.48	0.46
40:BF:21:ALA:O	40:BF:23:ASP:N	2.44	0.46
42:BH:45:VAL:O	42:BH:46:GLU:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:111:PRO:HG3	46:BN:114:ARG:NH2	2.31	0.46
48:BP:57:THR:O	48:BP:59:LEU:N	2.44	0.46
48:BP:96:THR:O	48:BP:97:PRO:C	2.58	0.46
48:BP:125:VAL:O	48:BP:125:VAL:HG22	2.16	0.46
51:BS:59:LYS:HB2	51:BS:65:VAL:CG2	2.45	0.46
54:BV:4:ILE:O	54:BV:4:ILE:HG22	2.15	0.46
55:BW:68:ARG:HH11	55:BW:68:ARG:HG3	1.81	0.46
55:BW:92:ARG:NH1	55:BW:94:ASP:OD2	2.49	0.46
57:BY:11:ASP:O	57:BY:28:LYS:HE2	2.16	0.46
57:BY:45:VAL:HA	57:BY:62:GLU:HB2	1.97	0.46
58:BZ:39:VAL:HG11	58:BZ:88:PHE:CZ	2.47	0.46
1:CA:788:U:H2'	1:CA:789:U:O4'	2.16	0.46
1:CA:889:A:H5'	1:CA:891:U:C1'	2.46	0.46
1:CA:1187:G:H4'	9:CI:111:ARG:NH1	2.30	0.46
1:CA:1240:U:OP2	7:CG:116:ALA:HB2	2.16	0.46
1:CA:1514:C:H2'	1:CA:1515:C:C6	2.51	0.46
2:CB:105:PHE:O	2:CB:106:LYS:C	2.59	0.46
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.98	0.46
6:CF:24:GLU:HG3	6:CF:25:ILE:H	1.80	0.46
7:CG:57:GLU:N	7:CG:57:GLU:CD	2.74	0.46
8:CH:120:THR:HG23	8:CH:123:GLU:CD	2.40	0.46
9:CI:53:VAL:C	9:CI:55:ALA:N	2.74	0.46
9:CI:118:LYS:HB3	9:CI:118:LYS:HZ2	1.81	0.46
10:CJ:49:VAL:HG22	14:CN:41:ARG:HB2	1.98	0.46
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.79	0.46
15:CO:38:ARG:HG2	15:CO:38:ARG:NH1	2.31	0.46
22:CV:29:G:H1	22:CV:41:C:N4	2.14	0.46
24:CY:10:LEU:O	24:CY:14:ARG:CD	2.64	0.46
25:D0:25:ARG:HD3	25:D0:29:GLN:HE22	1.81	0.46
27:D2:35:LEU:O	27:D2:37:PHE:N	2.49	0.46
32:D7:46:VAL:HG12	32:D7:48:LYS:NZ	2.31	0.46
35:DA:139:G:C6	35:DA:140:G:H2'	2.51	0.46
35:DA:271(R):G:H2'	35:DA:271(S):G:C8	2.51	0.46
35:DA:448:U:C4	35:DA:583:G:H1'	2.51	0.46
35:DA:813:U:C5	48:DP:27:HIS:CD2	3.04	0.46
35:DA:956:G:C4'	49:DQ:83:MET:HE1	2.44	0.46
35:DA:1111:A:C2	35:DA:1112:G:H1'	2.51	0.46
35:DA:1327:C:H2'	35:DA:1328:G:O4'	2.16	0.46
35:DA:1339:G:H21	35:DA:1603:A:H1'	1.81	0.46
35:DA:1344:G:H4'	35:DA:1384:A:C5	2.51	0.46
35:DA:1686:C:C2'	35:DA:1687:G:H5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2115:G:H3'	35:DA:2116:G:C5'	2.46	0.46
35:DA:2306:C:C5	35:DA:2307:G:H1'	2.51	0.46
35:DA:2778:A:H4'	35:DA:2779:U:OP2	2.15	0.46
36:DB:56:G:HO2'	36:DB:57:A:P	2.39	0.46
37:DC:58:VAL:HA	37:DC:59:ARG:CZ	2.46	0.46
38:DD:35:LYS:CB	38:DD:36:PRO:HD3	2.46	0.46
38:DD:92:ILE:CG2	38:DD:93:ALA:N	2.78	0.46
41:DG:14:GLU:O	41:DG:17:PRO:HD2	2.16	0.46
41:DG:72:ARG:HH11	41:DG:86:MET:CA	2.17	0.46
59:DI:34:GLY:C	59:DI:36:ALA:H	2.24	0.46
59:DI:37:VAL:HG12	59:DI:38:LEU:N	2.31	0.46
45:DK:93:ARG:HB3	58:DZ:112:ARG:CD	2.44	0.46
45:DK:130:SER:O	45:DK:133:SER:HB2	2.15	0.46
46:DN:18:ALA:HB2	46:DN:26:LEU:HD13	1.98	0.46
50:DR:81:ASP:O	50:DR:82:GLU:CB	2.62	0.46
50:DR:104:ARG:HH11	50:DR:104:ARG:HB2	1.78	0.46
51:DS:14:VAL:CG1	51:DS:15:ARG:H	2.11	0.46
53:DU:27:LEU:N	53:DU:27:LEU:CD2	2.73	0.46
53:DU:88:ILE:HG21	54:DV:47:VAL:O	2.15	0.46
54:DV:49:THR:O	54:DV:50:PRO:C	2.57	0.46
57:DY:28:LYS:O	57:DY:38:ILE:HB	2.16	0.46
1:AA:26:A:O2'	4:AD:209:ARG:NH1	2.49	0.46
1:AA:181:G:H2'	1:AA:183:G:C6	2.51	0.46
1:AA:269:C:H2'	1:AA:270:A:H8	1.80	0.46
1:AA:430:A:O2'	1:AA:431:A:H5'	2.16	0.46
1:AA:524:G:H2'	1:AA:525:C:C6	2.51	0.46
1:AA:1061:G:H5"	10:AJ:59:SER:OG	2.16	0.46
2:AB:31:TYR:O	2:AB:42:ILE:HG13	2.17	0.46
2:AB:96:ARG:N	2:AB:96:ARG:CD	2.79	0.46
3:AC:132:ARG:HA	3:AC:135:LYS:HB2	1.98	0.46
4:AD:33:MET:HE3	4:AD:33:MET:HA	1.98	0.46
7:AG:15:ASP:HB3	7:AG:19:GLY:N	2.31	0.46
8:AH:6:ILE:HG23	8:AH:10:LEU:HD21	1.98	0.46
9:AI:50:LEU:C	9:AI:52:ALA:H	2.24	0.46
9:AI:79:LEU:HD13	9:AI:79:LEU:O	2.16	0.46
17:AQ:45:HIS:CG	17:AQ:65:ILE:HD13	2.51	0.46
17:AQ:85:VAL:HG12	17:AQ:89:LEU:HG	1.97	0.46
22:AW:46:G:OP1	22:AW:46:G:H3'	2.16	0.46
24:AY:52:ALA:O	24:AY:54:ARG:N	2.49	0.46
24:AY:113:GLU:CD	24:AY:113:GLU:H	2.23	0.46
24:AY:140:TYR:OH	24:AY:187:HIS:HE1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:254:LEU:H	24:AY:254:LEU:HG	1.42	0.46
26:B1:70:VAL:O	26:B1:73:LEU:HB2	2.15	0.46
31:B6:16:CYS:O	31:B6:17:LYS:CB	2.62	0.46
31:B6:19:ARG:NH2	31:B6:42:TRP:CZ2	2.84	0.46
33:B8:31:HIS:CG	33:B8:32:LEU:N	2.81	0.46
35:BA:481:G:O2'	35:BA:482:A:OP2	2.34	0.46
35:BA:769:G:C2'	35:BA:770:G:H5'	2.46	0.46
35:BA:1080:C:O2'	35:BA:1081:U:H5'	2.16	0.46
35:BA:1107:G:N2	35:BA:1108:U:O4	2.49	0.46
35:BA:1111:A:C2	35:BA:1112:G:H1'	2.50	0.46
35:BA:1652:A:H2'	35:BA:1653:G:H5'	1.98	0.46
35:BA:1686:C:C2'	35:BA:1687:G:H5'	2.46	0.46
35:BA:1793:C:H2'	35:BA:1794:U:C6	2.51	0.46
35:BA:2128:C:OP1	37:BC:35:ALA:HB1	2.16	0.46
35:BA:2177:C:H5"	37:BC:211:SER:CB	2.45	0.46
37:BC:18:LYS:O	37:BC:22:ILE:HD11	2.16	0.46
37:BC:65:PRO:HG2	37:BC:189:ILE:CA	2.46	0.46
38:BD:35:LYS:HE2	38:BD:104:TYR:CD1	2.51	0.46
38:BD:109:ASP:HB2	38:BD:197:GLY:HA2	1.98	0.46
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.81	0.46
39:BE:36:ARG:NH1	39:BE:86:PRO:HD2	2.30	0.46
39:BE:87:GLU:O	39:BE:87:GLU:HG3	2.15	0.46
40:BF:135:LYS:O	40:BF:136:THR:C	2.57	0.46
41:BG:28:VAL:O	41:BG:31:VAL:HG12	2.16	0.46
42:BH:16:SER:O	42:BH:26:VAL:HA	2.16	0.46
42:BH:35:VAL:O	42:BH:36:PRO:C	2.59	0.46
45:BK:10:LEU:C	45:BK:10:LEU:HD12	2.41	0.46
48:BP:102:ARG:O	48:BP:103:ALA:CB	2.64	0.46
53:BU:92:ARG:NH1	54:BV:11:GLN:N	2.64	0.46
54:BV:38:LEU:HD12	54:BV:56:SER:N	2.31	0.46
55:BW:92:ARG:HG2	55:BW:92:ARG:NH1	2.31	0.46
1:CA:181:G:H2'	1:CA:183:G:C6	2.50	0.46
1:CA:189(F):U:C4	17:CQ:72:ARG:CZ	2.99	0.46
1:CA:473:G:OP1	16:CP:81:ARG:HB2	2.16	0.46
1:CA:1030:C:C2'	1:CA:1030(A):G:H5'	2.46	0.46
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.98	0.46
1:CA:1060:C:H5'	14:CN:45:ARG:HH22	1.81	0.46
1:CA:1172:C:H2'	1:CA:1173:G:C8	2.49	0.46
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.15	0.46
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.16	0.46
1:CA:1505:G:H5"	1:CA:1506:U:OP1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:4:TYR:CD2	9:CI:88:TYR:CB	2.99	0.46
9:CI:4:TYR:CD2	9:CI:88:TYR:HB3	2.51	0.46
10:CJ:57:LYS:HD2	10:CJ:60:ARG:NH2	2.31	0.46
20:CT:30:LYS:HZ1	20:CT:72:LEU:HD21	1.81	0.46
20:CT:54:LYS:HA	20:CT:57:ARG:NH2	2.31	0.46
22:CV:45:U:O2'	22:CV:46:G:H5'	2.15	0.46
35:DA:38:A:H2'	35:DA:39:C:C6	2.51	0.46
35:DA:116:C:O2'	35:DA:117:G:H5'	2.16	0.46
35:DA:118:A:C8	35:DA:119:A:C8	3.04	0.46
35:DA:271(S):G:C3'	35:DA:271(T):C:H5"	2.44	0.46
35:DA:425:G:O2'	35:DA:426:C:H5'	2.15	0.46
35:DA:445:C:O2'	35:DA:446:G:H5'	2.15	0.46
35:DA:460:A:H2'	35:DA:461:C:O4'	2.16	0.46
35:DA:732:C:H2'	35:DA:733:G:O4'	2.15	0.46
35:DA:952:G:C6	35:DA:953:A:N7	2.84	0.46
35:DA:1015:G:C2'	35:DA:1016:G:H5'	2.46	0.46
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.81	0.46
35:DA:1711:C:O2'	35:DA:1712:C:H5'	2.16	0.46
35:DA:2126:A:C6	35:DA:2163:C:H4'	2.49	0.46
35:DA:2370:G:H2'	35:DA:2371:G:O4'	2.16	0.46
35:DA:2579:C:H4'	39:DE:134:ILE:HD12	1.98	0.46
35:DA:2758:A:C5	42:DH:67:LEU:HD21	2.51	0.46
35:DA:2785:C:H2'	35:DA:2786:U:O4'	2.16	0.46
36:DB:91:C:O2'	36:DB:92:C:H5'	2.16	0.46
37:DC:213:TYR:CB	37:DC:219:GLY:H	2.28	0.46
38:DD:67:PHE:CE1	38:DD:157:ARG:NH1	2.83	0.46
41:DG:60:LEU:HB3	41:DG:68:PRO:HG2	1.98	0.46
46:DN:34:LEU:HD21	46:DN:120:LEU:HB2	1.98	0.46
46:DN:56:ASN:ND2	46:DN:126:PRO:HD3	2.31	0.46
47:DO:104:ARG:HE	52:DT:33:LYS:HE3	1.80	0.46
47:DO:118:ALA:C	47:DO:120:GLU:N	2.73	0.46
50:DR:10:LEU:HD22	50:DR:17:ARG:CG	2.46	0.46
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.45	0.46
53:DU:110:VAL:HG12	53:DU:114:LYS:HD2	1.98	0.46
55:DW:99:ARG:HG2	55:DW:99:ARG:NH1	2.31	0.46
58:DZ:47:VAL:O	58:DZ:51:ALA:HB3	2.16	0.46
58:DZ:151:HIS:HB3	58:DZ:170:THR:CA	2.36	0.46
1:AA:423:G:H5'	35:DA:2139:C:OP2	2.16	0.45
1:AA:754:C:H1'	15:AO:69:TYR:CG	2.51	0.45
1:AA:1015:A:H1'	1:AA:1218:C:O2'	2.16	0.45
1:AA:1030:C:C2'	1:AA:1030(A):G:H5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.47	0.45
1:AA:1425:U:O2'	1:AA:1426:C:H5'	2.15	0.45
2:AB:170:GLU:O	2:AB:173:ALA:HB3	2.15	0.45
2:AB:214:ILE:O	2:AB:218:ALA:CB	2.64	0.45
3:AC:12:LEU:HD12	3:AC:18:TRP:CE2	2.51	0.45
4:AD:13:ARG:NH1	4:AD:36:ARG:HD2	2.31	0.45
10:AJ:31:GLY:HA3	10:AJ:78:ASN:CG	2.41	0.45
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HD22	1.80	0.45
13:AM:89:GLY:C	13:AM:90:LEU:O	2.54	0.45
16:AP:26:ARG:HH11	16:AP:26:ARG:HG2	1.80	0.45
17:AQ:60:ILE:O	17:AQ:60:ILE:HG23	2.15	0.45
18:AR:25:THR:O	18:AR:25:THR:HG22	2.15	0.45
20:AT:82:SER:O	20:AT:86:ARG:HB2	2.16	0.45
24:AY:54:ARG:HG2	24:AY:54:ARG:O	2.15	0.45
24:AY:344:LEU:CD2	24:AY:344:LEU:N	2.66	0.45
26:B1:44:PRO:O	26:B1:46:LEU:N	2.48	0.45
27:B2:9:GLN:HG2	27:B2:56:GLN:HE21	1.78	0.45
30:B5:40:LYS:HZ2	30:B5:46:CYS:HB3	1.81	0.45
31:B6:12:GLU:HG2	31:B6:52:VAL:O	2.15	0.45
35:BA:34:C:C2'	35:BA:35:G:H5'	2.45	0.45
35:BA:848:G:N9	35:BA:933:A:H8	2.14	0.45
35:BA:919:G:H5'	36:BB:81:G:C1'	2.46	0.45
35:BA:1036:G:H2'	35:BA:1037:G:H8	1.80	0.45
35:BA:1162:G:O2'	35:BA:1163:G:H5'	2.17	0.45
35:BA:1493:C:H4'	35:BA:1494:A:OP1	2.15	0.45
35:BA:1678:G:N2	35:BA:1989:G:N2	2.64	0.45
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	2.47	0.45
35:BA:2564:A:C2	35:BA:2647:U:H4'	2.51	0.45
38:BD:70:TRP:CD1	38:BD:70:TRP:C	2.95	0.45
38:BD:85:ASP:OD1	38:BD:92:ILE:HD11	2.16	0.45
39:BE:81:ILE:O	39:BE:81:ILE:CG2	2.63	0.45
39:BE:132:HIS:CG	39:BE:135:HIS:NE2	2.84	0.45
42:BH:98:LEU:N	42:BH:125:VAL:HG21	2.31	0.45
43:BI:78:THR:HG22	43:BI:143:SER:OG	2.15	0.45
45:BK:62:ASP:O	45:BK:63:ARG:C	2.58	0.45
46:BN:58:ASP:HB3	46:BN:95:PRO:HB2	1.98	0.45
46:BN:62:VAL:CG2	46:BN:66:LYS:HG3	2.40	0.45
46:BN:119:ARG:HH11	46:BN:119:ARG:CB	2.29	0.45
52:BT:28:VAL:O	52:BT:29:ARG:HD3	2.16	0.45
52:BT:36:GLU:HB3	52:BT:38:ASN:OD1	2.16	0.45
54:BV:35:LEU:N	54:BV:35:LEU:HD22	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:165:C:H2'	1:CA:166:G:H8	1.82	0.45
1:CA:171:A:H2'	1:CA:172:A:C8	2.51	0.45
1:CA:473:G:H5"	16:CP:81:ARG:CZ	2.46	0.45
1:CA:528:C:O2'	1:CA:529:G:H5'	2.16	0.45
1:CA:1117:G:H5'	1:CA:1117:G:C8	2.41	0.45
1:CA:1303:C:C2'	1:CA:1304:G:H5'	2.46	0.45
1:CA:1346:A:H5"	9:CI:120:ARG:NH1	2.15	0.45
2:CB:67:THR:CG2	2:CB:155:LEU:HG	2.46	0.45
3:CC:12:LEU:HD12	3:CC:18:TRP:CE2	2.51	0.45
3:CC:95:THR:C	3:CC:97:LYS:H	2.24	0.45
3:CC:167:TRP:CG	3:CC:168:ALA:N	2.83	0.45
5:CE:115:VAL:HG12	5:CE:116:THR:H	1.81	0.45
10:CJ:67:THR:O	10:CJ:67:THR:CG2	2.64	0.45
16:CP:45:THR:HG23	16:CP:48:TRP:HA	1.98	0.45
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.46	0.45
18:CR:51:LEU:HD22	18:CR:55:ARG:CG	2.45	0.45
18:CR:86:VAL:O	18:CR:87:ARG:C	2.58	0.45
20:CT:22:ARG:O	20:CT:23:ARG:C	2.58	0.45
20:CT:50:GLU:O	20:CT:53:LEU:N	2.47	0.45
22:CV:30:G:C6	22:CV:31:A:N7	2.84	0.45
24:CY:246:ASP:OD1	35:DA:2492:U:H4'	2.16	0.45
24:CY:269:ILE:HD12	49:DQ:80:GLU:HG3	1.97	0.45
26:D1:88:LYS:HZ3	26:D1:92:LYS:HB2	1.76	0.45
30:D5:36:CYS:SG	30:D5:49:CYS:CB	3.03	0.45
35:DA:654:A:H1'	35:DA:654(A):G:H1'	1.97	0.45
35:DA:829:A:N7	35:DA:2248:C:H5'	2.32	0.45
35:DA:987:G:O2'	35:DA:1000:A:H1'	2.16	0.45
35:DA:1637:A:H4'	35:DA:2711:A:O2'	2.16	0.45
35:DA:2850:A:H2'	35:DA:2851:A:H8	1.80	0.45
38:DD:62:TYR:CD2	38:DD:63:ARG:N	2.81	0.45
38:DD:125:ILE:H	38:DD:125:ILE:CD1	2.28	0.45
39:DE:111:ARG:O	50:DR:2:ARG:HG3	2.17	0.45
41:DG:64:THR:HG23	41:DG:65:GLY:H	1.81	0.45
42:DH:45:VAL:O	42:DH:46:GLU:C	2.59	0.45
42:DH:141:VAL:HG13	42:DH:142:GLY:N	2.30	0.45
46:DN:119:ARG:CG	46:DN:119:ARG:NH1	2.79	0.45
48:DP:27:HIS:ND1	48:DP:28:GLY:N	2.64	0.45
51:DS:35:ILE:C	51:DS:36:TYR:CD1	2.94	0.45
53:DU:17:ILE:HG23	53:DU:39:LEU:HD12	1.96	0.45
54:DV:51:VAL:HG12	54:DV:52:VAL:N	2.30	0.45
57:DY:31:LEU:CB	57:DY:32:PRO:HA	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:174:C:H2'	1:AA:175:C:C6	2.50	0.45
1:AA:178:C:O2'	1:AA:179:A:H5'	2.16	0.45
1:AA:184:G:H5'	1:AA:224:C:H4'	1.98	0.45
1:AA:424:G:OP1	35:DA:2140:C:OP2	2.33	0.45
1:AA:477:A:O2'	1:AA:479:C:H5'	2.16	0.45
1:AA:791:G:C5	1:AA:792:A:N7	2.84	0.45
1:AA:936:C:H2'	1:AA:937:A:O4'	2.16	0.45
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.51	0.45
3:AC:156:ARG:O	3:AC:159:GLY:N	2.41	0.45
4:AD:82:ALA:O	4:AD:85:LYS:HB2	2.16	0.45
4:AD:190:ASP:O	4:AD:191:ARG:C	2.57	0.45
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.98	0.45
5:AE:53:LEU:H	5:AE:53:LEU:CD1	2.23	0.45
8:AH:103:VAL:O	8:AH:105:ARG:N	2.49	0.45
13:AM:28:ALA:C	13:AM:30:ALA:H	2.24	0.45
15:AO:38:ARG:HG2	15:AO:38:ARG:NH1	2.31	0.45
24:AY:61:THR:O	24:AY:65:LEU:HD12	2.16	0.45
24:AY:186:VAL:O	24:AY:187:HIS:HD2	1.99	0.45
26:B1:67:ILE:O	26:B1:68:PRO:C	2.59	0.45
29:B4:53:THR:O	29:B4:54:LYS:HB2	2.16	0.45
31:B6:36:LEU:HA	31:B6:49:HIS:O	2.16	0.45
31:B6:51:GLU:HB3	31:B6:52:VAL:H	1.52	0.45
33:B8:22:VAL:HB	33:B8:53:PRO:HB3	1.98	0.45
35:BA:290:G:C2'	35:BA:291:C:H5'	2.47	0.45
35:BA:1107:G:H2'	35:BA:1108:U:H6	1.81	0.45
35:BA:1637:A:H4'	35:BA:2711:A:O2'	2.16	0.45
35:BA:1793:C:H2'	35:BA:1794:U:H6	1.81	0.45
35:BA:2115:G:H3'	35:BA:2116:G:C5'	2.46	0.45
35:BA:2197:U:O2'	35:BA:2198:A:H5"	2.16	0.45
35:BA:2533:A:H3'	35:BA:2534:A:H5"	1.98	0.45
35:BA:2654:A:O2'	35:BA:2655:G:H4'	2.16	0.45
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.17	0.45
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.51	0.45
38:BD:211:ARG:O	38:BD:213:ARG:N	2.49	0.45
39:BE:1:MET:O	39:BE:2:LYS:C	2.59	0.45
40:BF:10:PRO:CA	40:BF:128:ALA:HB2	2.44	0.45
40:BF:107:LYS:C	40:BF:109:GLY:N	2.71	0.45
41:BG:39:ILE:CD1	41:BG:39:ILE:C	2.89	0.45
48:BP:123:LEU:N	48:BP:123:LEU:HD23	2.31	0.45
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.81	0.45
49:BQ:112:GLU:HG3	49:BQ:113:GLN:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:14:SER:OG	50:BR:15:SER:N	2.48	0.45
52:BT:28:VAL:HG22	52:BT:46:GLU:CA	2.46	0.45
56:BX:27:THR:CB	56:BX:80:ILE:HG22	2.46	0.45
58:BZ:24:LEU:HD21	58:BZ:86:VAL:HG11	1.99	0.45
1:CA:524:G:H2'	1:CA:525:C:C6	2.52	0.45
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.45	0.45
1:CA:547:A:H4'	1:CA:548:G:O5'	2.16	0.45
1:CA:1025:U:HO2'	1:CA:1026:G:H8	1.64	0.45
1:CA:1195:C:H5"	1:CA:1196:U:OP2	2.16	0.45
1:CA:1260:C:H5	1:CA:1274:G:H1	1.63	0.45
1:CA:1319:A:N7	1:CA:1323:G:C5	2.83	0.45
2:CB:73:THR:HG22	2:CB:95:GLN:O	2.16	0.45
2:CB:204:ASN:HD21	2:CB:207:ALA:CB	2.29	0.45
2:CB:235:SER:C	2:CB:237:ALA:H	2.24	0.45
3:CC:118:GLN:O	3:CC:121:ALA:HB3	2.15	0.45
4:CD:79:PHE:CD2	4:CD:79:PHE:C	2.94	0.45
4:CD:162:LEU:CD1	4:CD:181:MET:HG2	2.47	0.45
17:CQ:12:SER:N	17:CQ:53:LEU:HD13	2.31	0.45
20:CT:57:ARG:NH1	20:CT:57:ARG:HB2	2.31	0.45
20:CT:92:LEU:C	20:CT:94:ALA:N	2.74	0.45
20:CT:94:ALA:O	20:CT:95:ALA:CB	2.64	0.45
22:CV:1:G:C4	22:CV:2:C:C5	3.04	0.45
35:DA:205:G:O2'	35:DA:206:U:P	2.73	0.45
35:DA:456:C:C4	56:DX:69:TYR:CE2	3.04	0.45
35:DA:479:A:H4'	35:DA:480:A:OP1	2.15	0.45
35:DA:893:C:H2'	35:DA:894:C:C6	2.51	0.45
35:DA:1175:U:H4'	35:DA:1176:G:C5'	2.44	0.45
35:DA:1797:C:O2'	38:DD:259:THR:CG2	2.65	0.45
35:DA:2103:C:C2'	35:DA:2104:G:H5"	2.47	0.45
35:DA:2481:G:O2'	35:DA:2482:G:OP2	2.34	0.45
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.51	0.45
36:DB:48:A:H2'	36:DB:49:C:C6	2.50	0.45
38:DD:33:LEU:O	38:DD:35:LYS:N	2.49	0.45
40:DF:6:VAL:HG12	40:DF:7:TYR:O	2.16	0.45
40:DF:18:ARG:CG	40:DF:19:GLU:H	2.25	0.45
41:DG:174:GLU:C	41:DG:176:LEU:N	2.74	0.45
42:DH:43:VAL:O	42:DH:43:VAL:HG23	2.16	0.45
59:DI:30:LEU:HB3	59:DI:36:ALA:HB3	1.96	0.45
46:DN:26:LEU:CD1	46:DN:30:ILE:HD11	2.47	0.45
46:DN:58:ASP:HB3	46:DN:95:PRO:HB2	1.98	0.45
47:DO:23:ARG:NH1	47:DO:23:ARG:HG2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:33:ARG:C	48:DP:34:GLY:O	2.57	0.45
50:DR:14:SER:OG	50:DR:15:SER:N	2.50	0.45
50:DR:18:LEU:HD11	50:DR:22:ARG:CZ	2.46	0.45
52:DT:33:LYS:HZ2	52:DT:74:ARG:NH2	2.14	0.45
54:DV:21:ARG:HB3	54:DV:91:TYR:HD2	1.81	0.45
57:DY:11:ASP:O	57:DY:28:LYS:HE2	2.16	0.45
57:DY:20:TYR:O	57:DY:21:LYS:C	2.58	0.45
57:DY:56:PRO:C	57:DY:57:GLN:HG3	2.41	0.45
58:DZ:149:SER:HB2	58:DZ:173:ALA:CA	2.44	0.45
1:AA:165:C:H2'	1:AA:166:G:H8	1.81	0.45
1:AA:473:G:H5"	16:AP:81:ARG:CZ	2.46	0.45
1:AA:564:C:C4	17:AQ:31:LEU:HD11	2.51	0.45
1:AA:709:G:H2'	1:AA:710:G:H8	1.82	0.45
1:AA:790:A:N1	1:AA:1497:G:H5"	2.31	0.45
1:AA:1123:A:C4'	10:AJ:36:GLY:HA3	2.44	0.45
1:AA:1170:A:H2'	1:AA:1171:G:O4'	2.16	0.45
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.34	0.45
1:AA:1494:G:H5'	1:AA:1494:G:C8	2.47	0.45
2:AB:100:GLY:O	2:AB:104:ASN:C	2.59	0.45
4:AD:179:GLU:C	4:AD:181:MET:H	2.24	0.45
5:AE:87:SER:OG	5:AE:130:ASN:HB3	2.16	0.45
5:AE:115:VAL:HG12	5:AE:116:THR:H	1.81	0.45
5:AE:148:VAL:HG21	8:AH:107:LEU:HD13	1.99	0.45
8:AH:4:ASP:OD2	8:AH:85:ARG:NH1	2.44	0.45
13:AM:96:LEU:HB3	13:AM:97:PRO:CD	2.47	0.45
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.81	0.45
23:AX:17:A:H2	23:AX:18:A:H8	1.63	0.45
24:AY:65:LEU:HD23	24:AY:91:LEU:CD1	2.45	0.45
24:AY:205:PHE:CE1	24:AY:307:TRP:CE3	3.04	0.45
24:AY:252:VAL:HG13	24:AY:259:THR:HG22	1.99	0.45
33:B8:32:LEU:O	33:B8:33:ASN:C	2.59	0.45
33:B8:39:LYS:HE3	35:BA:2365:G:O6	2.16	0.45
35:BA:275:G:C6	35:BA:362:U:H5	2.33	0.45
35:BA:640:C:O2'	35:BA:641:C:H5'	2.16	0.45
35:BA:783:A:H4'	35:BA:1779:U:O2	2.17	0.45
35:BA:1579:A:H2'	35:BA:1580:A:O4'	2.17	0.45
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.33	0.45
35:BA:1711:C:O2'	35:BA:1712:C:H5'	2.16	0.45
35:BA:1887:C:C3'	35:BA:1888:G:H5"	2.47	0.45
35:BA:2126:A:C6	35:BA:2163:C:H4'	2.50	0.45
35:BA:2192:G:H2'	35:BA:2192:G:N3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2291:U:H5”	35:BA:2380:C:O2’	2.16	0.45
35:BA:2313:C:O4’	41:BG:40:ASN:ND2	2.49	0.45
35:BA:2329:G:H2’	35:BA:2330:G:C8	2.51	0.45
35:BA:2528:U:H2’	35:BA:2530:A:O5’	2.17	0.45
35:BA:2554:U:H2’	35:BA:2555:U:C6	2.51	0.45
35:BA:2684:U:H1’	47:BO:70:LYS:HD2	1.98	0.45
35:BA:2758:A:C5	42:BH:67:LEU:HD21	2.51	0.45
37:BC:74:VAL:HG12	37:BC:76:ALA:N	2.31	0.45
39:BE:3:GLY:C	39:BE:4:ILE:HG22	2.41	0.45
41:BG:16:ARG:NH1	41:BG:31:VAL:HG11	2.27	0.45
41:BG:116:ASP:HB3	41:BG:117:PHE:H	1.53	0.45
43:BI:75:LEU:HD23	43:BI:76:THR:O	2.17	0.45
45:BK:13:PRO:HA	45:BK:51:ALA:O	2.15	0.45
48:BP:9:ASN:N	48:BP:10:PRO:HD3	2.31	0.45
48:BP:95:VAL:CG2	48:BP:125:VAL:HG23	2.46	0.45
51:BS:41:ASP:C	51:BS:42:ASP:O	2.56	0.45
51:BS:74:ALA:O	51:BS:77:ALA:HB3	2.17	0.45
51:BS:93:LYS:O	51:BS:93:LYS:CG	2.64	0.45
52:BT:106:SER:O	52:BT:107:ASP:HB3	2.16	0.45
58:BZ:30:ASN:O	58:BZ:32:HIS:N	2.50	0.45
1:CA:169:C:H2’	1:CA:170:U:H5’	1.97	0.45
1:CA:270:A:H2’	1:CA:271:C:C6	2.52	0.45
1:CA:375:U:H4’	16:CP:17:TYR:HE2	1.81	0.45
1:CA:389:A:H2’	1:CA:390:C:H5’	1.97	0.45
1:CA:708:C:H2’	1:CA:709:G:H8	1.80	0.45
1:CA:1324:A:H4’	1:CA:1362:C:O3’	2.16	0.45
2:CB:187:LEU:CD2	2:CB:201:ILE:HG22	2.46	0.45
4:CD:61:LYS:NZ	4:CD:62:GLN:HE22	2.13	0.45
4:CD:165:MET:O	4:CD:167:GLY:N	2.50	0.45
6:CF:77:ARG:HB3	6:CF:77:ARG:CZ	2.46	0.45
10:CJ:48:THR:OG1	10:CJ:62:HIS:HB3	2.15	0.45
11:CK:125:PHE:N	11:CK:125:PHE:HD1	2.14	0.45
11:CK:126:ARG:NH1	11:CK:126:ARG:CB	2.79	0.45
19:CS:58:VAL:HG21	19:CS:75:ALA:HB2	1.98	0.45
22:CV:62:C:C2’	22:CV:63:G:H5”	2.47	0.45
24:CY:37:SER:O	24:CY:39:TRP:HE3	2.00	0.45
24:CY:62:PHE:O	24:CY:66:GLU:HB2	2.16	0.45
27:D2:10:LEU:CD1	27:D2:14:ARG:HH21	2.19	0.45
29:D4:52:SER:HB3	41:DG:143:GLU:CD	2.42	0.45
30:D5:20:ARG:NH1	55:DW:15:ARG:NH2	2.62	0.45
35:DA:37:C:H2’	35:DA:38:A:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:582:G:H2'	35:DA:583:G:H8	1.81	0.45
35:DA:587:C:C4	48:DP:33:ARG:HG2	2.51	0.45
35:DA:1911:U:H2'	35:DA:1918:A:N1	2.31	0.45
35:DA:2473:U:O2	35:DA:2473:U:C2'	2.62	0.45
35:DA:2873:A:H2	50:DR:6:SER:HB3	1.76	0.45
36:DB:104:U:O4'	58:DZ:73:GLN:NE2	2.49	0.45
37:DC:44:HIS:HA	37:DC:175:VAL:N	2.20	0.45
38:DD:122:ASP:O	38:DD:123:ALA:C	2.59	0.45
41:DG:14:GLU:O	41:DG:17:PRO:HG2	2.17	0.45
41:DG:36:LYS:HG3	41:DG:38:VAL:HG23	1.98	0.45
41:DG:109:VAL:CG1	41:DG:142:PRO:HG3	2.46	0.45
41:DG:171:ALA:O	41:DG:174:GLU:HB3	2.16	0.45
59:DI:32:PRO:C	59:DI:34:GLY:H	2.23	0.45
45:DK:87:GLY:O	45:DK:88:ALA:HB2	2.16	0.45
46:DN:31:ALA:O	46:DN:32:THR:C	2.60	0.45
46:DN:128:HIS:CE1	46:DN:134:ARG:HD3	2.52	0.45
47:DO:93:PRO:HD3	47:DO:114:ILE:CD1	2.44	0.45
49:DQ:47:ILE:HD12	49:DQ:70:PRO:HD3	1.98	0.45
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.64	0.45
53:DU:57:PHE:O	53:DU:59:ARG:N	2.48	0.45
54:DV:38:LEU:HD23	54:DV:39:LEU:H	1.79	0.45
56:DX:83:VAL:HB	56:DX:87:GLN:HB2	1.98	0.45
58:DZ:27:VAL:O	58:DZ:87:ASP:HA	2.16	0.45
58:DZ:101:PRO:O	58:DZ:102:LEU:HD12	2.16	0.45
1:AA:647:C:H2'	1:AA:648:A:H8	1.81	0.45
1:AA:975:A:H4'	1:AA:976:G:C5'	2.38	0.45
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.64	0.45
1:AA:1406:U:C2'	1:AA:1407:C:H5'	2.47	0.45
2:AB:8:LYS:CA	2:AB:217:ARG:HH22	2.29	0.45
2:AB:19:HIS:CG	2:AB:20:GLU:H	2.35	0.45
2:AB:218:ALA:O	2:AB:222:ILE:HG13	2.17	0.45
2:AB:220:ASP:C	2:AB:222:ILE:N	2.71	0.45
3:AC:154:SER:OG	3:AC:197:GLY:N	2.49	0.45
4:AD:150:GLU:CD	4:AD:150:GLU:H	2.24	0.45
6:AF:94:GLN:O	6:AF:96:PRO:HD3	2.16	0.45
9:AI:111:ARG:HD2	14:AN:61:TRP:OXT	2.16	0.45
9:AI:114:TYR:HE1	10:AJ:60:ARG:N	2.13	0.45
17:AQ:81:ARG:O	17:AQ:83:ASP:N	2.49	0.45
20:AT:81:LYS:C	20:AT:83:ARG:N	2.74	0.45
24:AY:52:ALA:C	24:AY:54:ARG:N	2.75	0.45
24:AY:56:ARG:O	24:AY:60:ASP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:29:GLY:C	26:B1:31:GLY:N	2.71	0.45
35:BA:580:C:H2'	35:BA:581:C:C6	2.52	0.45
35:BA:775:G:C4	35:BA:794:G:C8	3.05	0.45
35:BA:999:U:O2'	35:BA:1000:A:H5"	2.15	0.45
35:BA:1068:G:H21	35:BA:1096:A:H5'	1.81	0.45
36:BB:112:U:H2'	36:BB:113:G:H8	1.81	0.45
38:BD:3:VAL:HG12	38:BD:4:LYS:N	2.32	0.45
38:BD:7:LYS:O	38:BD:9:TYR:CD1	2.69	0.45
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.46	0.45
40:BF:9:ILE:HA	40:BF:13:SER:O	2.17	0.45
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.98	0.45
41:BG:12:TYR:O	41:BG:13:GLU:C	2.59	0.45
41:BG:128:ARG:HA	41:BG:128:ARG:HD3	1.83	0.45
41:BG:170:ARG:O	41:BG:171:ALA:C	2.60	0.45
43:BI:109:ILE:N	43:BI:109:ILE:CD1	2.77	0.45
46:BN:35:ARG:O	46:BN:36:GLY:C	2.59	0.45
48:BP:39:LYS:O	48:BP:40:SER:CB	2.64	0.45
48:BP:62:LEU:HD22	48:BP:62:LEU:O	2.16	0.45
49:BQ:140:ALA:HB3	58:BZ:53:ILE:CD1	2.47	0.45
50:BR:101:ALA:O	50:BR:102:GLU:HB2	2.16	0.45
51:BS:99:LYS:O	51:BS:101:LEU:HD13	2.16	0.45
53:BU:88:ILE:HB	53:BU:90:VAL:CG2	2.42	0.45
57:BY:28:LYS:CA	57:BY:39:VAL:H	2.27	0.45
57:BY:88:LYS:NZ	57:BY:93:GLY:C	2.74	0.45
58:BZ:61:LEU:HB3	58:BZ:62:PRO:CD	2.47	0.45
58:BZ:99:TYR:CZ	58:BZ:125:LEU:HB2	2.51	0.45
58:BZ:124:ILE:CG1	58:BZ:125:LEU:N	2.80	0.45
1:CA:260:G:H2'	1:CA:261:U:C6	2.52	0.45
1:CA:530:G:C5	23:CX:24:A:C2	3.04	0.45
1:CA:1105:A:O2'	1:CA:1106:G:H5'	2.16	0.45
1:CA:1363(A):A:C4'	1:CA:1364:U:H5"	2.34	0.45
2:CB:17:PHE:N	2:CB:17:PHE:HD2	2.15	0.45
3:CC:15:THR:HG22	3:CC:181:ASN:CA	2.46	0.45
4:CD:123:HIS:C	4:CD:125:HIS:H	2.25	0.45
4:CD:179:GLU:C	4:CD:181:MET:H	2.25	0.45
5:CE:126:ARG:HG3	5:CE:126:ARG:NH1	2.25	0.45
6:CF:75:LEU:HD23	6:CF:75:LEU:O	2.16	0.45
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.96	0.45
10:CJ:25:GLU:HG2	10:CJ:28:ARG:HD2	1.97	0.45
10:CJ:44:VAL:CG1	10:CJ:45:ARG:N	2.78	0.45
11:CK:69:ALA:O	11:CK:73:MET:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:84:LEU:HB2	12:CL:105:TYR:CE1	2.52	0.45
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.52	0.45
22:CV:62:C:C2'	22:CV:63:G:C5'	2.94	0.45
24:CY:15:GLY:O	24:CY:16:TYR:C	2.60	0.45
24:CY:182:PRO:HA	24:CY:352:LYS:HZ1	1.80	0.45
28:D3:37:LEU:O	28:D3:38:GLU:O	2.35	0.45
30:D5:32:PRO:HA	30:D5:38:ALA:O	2.16	0.45
33:D8:61:LEU:H	33:D8:61:LEU:CD2	2.12	0.45
35:DA:221:A:O2'	35:DA:222:A:OP2	2.31	0.45
35:DA:271(L):U:H4'	35:DA:271(M):G:C4	2.51	0.45
35:DA:306:U:O2'	35:DA:307:G:H5'	2.16	0.45
35:DA:327:G:H2'	35:DA:328:U:C6	2.52	0.45
35:DA:523:C:C2'	35:DA:524:U:H5'	2.47	0.45
35:DA:598:G:H2'	35:DA:599:G:O4'	2.16	0.45
35:DA:829:A:N7	35:DA:2247:A:O2'	2.48	0.45
35:DA:844:C:O2'	35:DA:845:G:H5'	2.16	0.45
35:DA:955:C:H5'	35:DA:956:G:OP2	2.15	0.45
35:DA:1290:C:H2'	35:DA:1291:C:C6	2.52	0.45
35:DA:1409:C:H2'	35:DA:1410:G:H8	1.79	0.45
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.51	0.45
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.51	0.45
35:DA:2171:A:O2'	35:DA:2172:U:OP2	2.27	0.45
39:DE:87:GLU:O	39:DE:87:GLU:HG3	2.16	0.45
39:DE:116:VAL:CG2	39:DE:122:PHE:CG	2.99	0.45
39:DE:188:VAL:O	39:DE:188:VAL:HG13	2.16	0.45
41:DG:52:ILE:HG22	41:DG:53:LEU:H	1.80	0.45
42:DH:71:LEU:O	42:DH:71:LEU:HD23	2.16	0.45
45:DK:105:LEU:O	45:DK:108:ALA:HB3	2.16	0.45
46:DN:18:ALA:CB	46:DN:21:LYS:HG3	2.46	0.45
48:DP:27:HIS:N	48:DP:30:THR:OG1	2.49	0.45
48:DP:51:PHE:O	48:DP:52:GLU:O	2.34	0.45
51:DS:20:ARG:HG2	51:DS:20:ARG:NH1	2.31	0.45
53:DU:49:HIS:O	53:DU:52:ARG:HB2	2.16	0.45
55:DW:68:ARG:HG3	55:DW:68:ARG:NH1	2.31	0.45
57:DY:37:VAL:O	57:DY:38:ILE:HG12	2.16	0.45
58:DZ:64:GLY:O	58:DZ:65:GLN:C	2.60	0.45
58:DZ:165:VAL:O	58:DZ:166:SER:C	2.59	0.45
1:AA:134:A:H61	16:AP:25:ARG:NH1	2.15	0.45
1:AA:270:A:H2'	1:AA:271:C:C6	2.51	0.45
1:AA:475:G:O2'	1:AA:476:G:H5'	2.16	0.45
1:AA:1346:A:C4	7:AG:10:ARG:NH1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:100:ARG:NH2	4:AD:137:SER:HA	2.31	0.45
4:AD:109:GLY:O	4:AD:110:PHE:C	2.59	0.45
6:AF:8:ILE:HD12	6:AF:26:ILE:HD13	1.98	0.45
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.17	0.45
9:AI:20:ARG:HG3	9:AI:20:ARG:NH1	2.29	0.45
16:AP:75:ARG:O	16:AP:78:GLY:N	2.41	0.45
24:AY:32:ARG:O	24:AY:34:GLU:N	2.49	0.45
24:AY:267:SER:O	24:AY:268:GLN:C	2.58	0.45
25:B0:69:PHE:CD2	25:B0:79:VAL:HG22	2.52	0.45
30:B5:7:PRO:HA	35:BA:2615:U:N1	2.32	0.45
30:B5:32:PRO:HA	30:B5:38:ALA:O	2.17	0.45
31:B6:24:GLU:HA	31:B6:24:GLU:OE1	2.15	0.45
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.16	0.45
35:BA:581:C:O2'	35:BA:582:G:H5'	2.16	0.45
35:BA:1146:C:O2'	35:BA:1147:C:H5'	2.16	0.45
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.80	0.45
35:BA:2050:C:H1'	39:BE:156:MET:HE1	1.99	0.45
35:BA:2103:C:C2'	35:BA:2104:G:H5"	2.45	0.45
35:BA:2174:C:O2'	35:BA:2175:C:H5'	2.16	0.45
35:BA:2850:A:H2'	35:BA:2851:A:H8	1.82	0.45
36:BB:92:C:OP1	49:BQ:19:GLY:HA3	2.16	0.45
38:BD:122:ASP:O	38:BD:123:ALA:C	2.59	0.45
40:BF:185:ASP:OD1	40:BF:188:ARG:CZ	2.65	0.45
41:BG:107:LEU:O	41:BG:112:PRO:HG2	2.17	0.45
43:BI:116:LEU:HD12	43:BI:117:GLU:H	1.80	0.45
46:BN:134:ARG:O	46:BN:134:ARG:HG3	2.16	0.45
47:BO:10:VAL:CG2	47:BO:16:ALA:O	2.60	0.45
48:BP:112:LEU:CD2	48:BP:112:LEU:C	2.89	0.45
54:BV:38:LEU:HD23	54:BV:39:LEU:H	1.79	0.45
57:BY:32:PRO:C	57:BY:35:TYR:H	2.24	0.45
58:BZ:107:THR:O	58:BZ:108:PRO:O	2.34	0.45
1:CA:158:G:O2'	1:CA:159:G:H5'	2.15	0.45
1:CA:374:A:C6	1:CA:375:U:C4	3.05	0.45
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.81	0.45
1:CA:1416:G:H2'	1:CA:1417:G:O4'	2.16	0.45
1:CA:1507:A:C2	1:CA:1508:G:C4	3.04	0.45
2:CB:19:HIS:CG	2:CB:20:GLU:H	2.34	0.45
5:CE:72:GLN:O	5:CE:73:ASN:HB3	2.16	0.45
7:CG:150:ALA:C	7:CG:152:ALA:H	2.24	0.45
8:CH:33:GLU:C	8:CH:35:ILE:N	2.75	0.45
12:CL:61:THR:C	12:CL:63:GLY:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:32:LEU:O	15:CO:35:ARG:N	2.50	0.45
16:CP:17:TYR:CD1	16:CP:17:TYR:N	2.84	0.45
18:CR:74:ARG:HB3	18:CR:81:PHE:CZ	2.51	0.45
19:CS:12:ASP:HB3	19:CS:14:HIS:CE1	2.51	0.45
24:CY:92:GLU:O	24:CY:96:LYS:HG3	2.17	0.45
24:CY:140:TYR:OH	24:CY:183:GLU:HB3	2.16	0.45
24:CY:332:ASP:HB2	24:CY:335:ASN:HB3	1.97	0.45
29:D4:36:VAL:HB	29:D4:37:PRO:HD2	1.98	0.45
31:D6:19:ARG:O	31:D6:20:ASN:O	2.35	0.45
33:D8:25:MET:CB	48:DP:62:LEU:HD21	2.45	0.45
34:D9:11:CYS:HB3	34:D9:12:ASP:H	1.63	0.45
34:D9:19:ARG:O	34:D9:19:ARG:HG3	2.17	0.45
35:DA:389:G:O6	48:DP:71:VAL:HG23	2.16	0.45
35:DA:654:A:H1'	35:DA:654(A):G:C1'	2.46	0.45
35:DA:2875:C:H4'	52:DT:5:ALA:CB	2.37	0.45
37:DC:154:ARG:C	37:DC:156:ILE:N	2.73	0.45
38:DD:126:GLN:O	38:DD:193:VAL:HG11	2.17	0.45
38:DD:142:VAL:CG2	38:DD:191:ALA:HB1	2.43	0.45
39:DE:104:VAL:HG11	39:DE:188:VAL:CG2	2.47	0.45
40:DF:9:ILE:HA	40:DF:13:SER:O	2.17	0.45
41:DG:11:TYR:CZ	41:DG:16:ARG:HD3	2.51	0.45
59:DI:33:ARG:O	59:DI:35:LEU:N	2.50	0.45
48:DP:85:LEU:CD2	48:DP:88:LEU:HD23	2.46	0.45
48:DP:136:GLU:O	48:DP:137:LYS:C	2.59	0.45
49:DQ:112:GLU:HG3	49:DQ:113:GLN:HG3	1.98	0.45
58:DZ:22:GLY:C	58:DZ:23:LYS:HD2	2.42	0.45
58:DZ:44:PHE:O	58:DZ:45:ASP:C	2.59	0.45
1:AA:132:C:O2'	1:AA:133:U:H5'	2.16	0.45
1:AA:328:C:O2	1:AA:328:C:C2'	2.64	0.45
1:AA:737:A:H2'	1:AA:738:C:H6	1.81	0.45
1:AA:1117:G:O3'	9:AI:104:ARG:NH1	2.49	0.45
1:AA:1260:C:H5	1:AA:1274:G:H1	1.62	0.45
4:AD:11:LEU:C	4:AD:13:ARG:N	2.71	0.45
4:AD:32:ALA:C	4:AD:34:GLU:N	2.75	0.45
5:AE:36:ASP:OD1	5:AE:38:GLN:HB2	2.16	0.45
5:AE:80:ILE:HG22	8:AH:104:ARG:NH2	2.32	0.45
6:AF:24:GLU:HG3	6:AF:25:ILE:H	1.80	0.45
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.97	0.45
8:AH:40:ALA:HB2	8:AH:45:ILE:HG13	1.98	0.45
8:AH:114:THR:C	8:AH:116:LYS:H	2.25	0.45
9:AI:53:VAL:C	9:AI:55:ALA:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.79	0.45
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.32	0.45
13:AM:44:ARG:CB	13:AM:46:LYS:HG2	2.47	0.45
22:AW:62:C:O2'	22:AW:63:G:H5'	2.16	0.45
24:AY:54:ARG:HG2	24:AY:101:LEU:CD2	2.46	0.45
24:AY:112:ALA:HA	24:AY:177:TYR:HD2	1.82	0.45
24:AY:264:THR:HG22	24:AY:265:THR:N	2.31	0.45
35:BA:247:G:H4'	35:BA:386:G:C6	2.52	0.45
35:BA:272:G:O6	35:BA:421:U:H2'	2.17	0.45
35:BA:321:G:N2	40:BF:165:ARG:HH12	2.15	0.45
35:BA:466:A:N3	35:BA:683:C:H1'	2.31	0.45
35:BA:732:C:H2'	35:BA:733:G:O4'	2.17	0.45
35:BA:784:A:C5'	38:BD:227:ASN:HD21	2.16	0.45
35:BA:956:G:N2	35:BA:959:A:H3'	2.32	0.45
35:BA:1655:A:H3'	35:BA:1656:C:C6	2.52	0.45
35:BA:1839:G:H8	35:BA:1839:G:H5'	1.82	0.45
35:BA:2087:G:C2'	35:BA:2088:G:H5'	2.47	0.45
35:BA:2171:A:O2'	35:BA:2172:U:OP2	2.25	0.45
35:BA:2223:G:O2'	35:BA:2224:G:H5'	2.15	0.45
35:BA:2283:C:H2'	35:BA:2284:C:C5'	2.36	0.45
35:BA:2300:G:O2'	35:BA:2301:C:H5'	2.17	0.45
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.51	0.45
36:BB:70:C:O2'	36:BB:71:C:H5'	2.17	0.45
43:BI:102:SER:O	43:BI:106:GLY:HA2	2.17	0.45
44:BJ:70:UNK:O	44:BJ:72:UNK:N	2.50	0.45
48:BP:51:PHE:O	48:BP:52:GLU:O	2.35	0.45
48:BP:92:GLU:C	48:BP:92:GLU:OE1	2.60	0.45
49:BQ:43:THR:HG1	49:BQ:46:GLN:HG3	1.79	0.45
49:BQ:141:GLN:HE22	58:BZ:72:ARG:CA	2.26	0.45
50:BR:44:LEU:CD1	50:BR:48:VAL:HG23	2.46	0.45
50:BR:84:ALA:N	50:BR:85:PRO:CD	2.78	0.45
51:BS:48:LEU:HD23	51:BS:82:ILE:HD11	1.98	0.45
51:BS:97:ARG:C	51:BS:97:ARG:NE	2.75	0.45
52:BT:3:ARG:O	52:BT:5:ALA:N	2.50	0.45
54:BV:21:ARG:HB3	54:BV:91:TYR:HD2	1.80	0.45
54:BV:77:ALA:O	54:BV:79:VAL:HG23	2.16	0.45
57:BY:81:LYS:HZ3	57:BY:97:ARG:HG3	1.82	0.45
58:BZ:80:ARG:NH1	58:BZ:82:ARG:HH21	2.15	0.45
1:CA:106:C:O2'	1:CA:107:G:H5'	2.17	0.45
1:CA:584:G:H2'	1:CA:585:G:H8	1.82	0.45
1:CA:757:U:OP1	1:CA:822:C:O2'	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:913:A:O2'	1:CA:914:A:OP2	2.34	0.45
1:CA:1013:G:N2	1:CA:1016:A:OP2	2.50	0.45
1:CA:1162:C:O2'	1:CA:1163:C:H5'	2.17	0.45
1:CA:1404:C:O4'	1:CA:1499:A:C2	2.69	0.45
2:CB:79:ASP:C	2:CB:81:VAL:H	2.24	0.45
2:CB:114:ARG:CZ	2:CB:118:LEU:HD21	2.47	0.45
5:CE:71:LEU:HD21	5:CE:115:VAL:HG22	1.99	0.45
8:CH:44:PHE:HA	8:CH:79:VAL:CG1	2.46	0.45
8:CH:109:ILE:HG13	8:CH:122:ARG:HH21	1.78	0.45
9:CI:93:ARG:C	9:CI:95:LYS:N	2.75	0.45
11:CK:86:GLY:O	11:CK:91:ARG:NH1	2.49	0.45
13:CM:96:LEU:O	13:CM:110:ARG:NE	2.45	0.45
20:CT:9:ASN:OD1	20:CT:10:LEU:N	2.49	0.45
20:CT:25:ARG:HH11	20:CT:25:ARG:HG3	1.82	0.45
20:CT:57:ARG:NH1	20:CT:102:GLY:CA	2.80	0.45
24:CY:52:ALA:C	24:CY:55:LEU:H	2.24	0.45
25:D0:25:ARG:HD3	25:D0:29:GLN:NE2	2.32	0.45
26:D1:68:PRO:O	26:D1:70:VAL:N	2.50	0.45
32:D7:8:ASN:HD21	32:D7:10:ARG:HB3	1.81	0.45
33:D8:34:TRP:CD2	33:D8:35:GLN:N	2.85	0.45
35:DA:13:A:H61	35:DA:525:U:H3'	1.81	0.45
35:DA:196:A:OP2	48:DP:51:PHE:HE2	2.00	0.45
35:DA:1068:G:H21	35:DA:1096:A:H5'	1.81	0.45
35:DA:1281:G:H5'	35:DA:1282:U:OP2	2.16	0.45
35:DA:1624:G:O2'	35:DA:1625:C:H5'	2.15	0.45
35:DA:2234:G:O2'	35:DA:2235:G:H5'	2.17	0.45
35:DA:2533:A:H3'	35:DA:2534:A:H5"	1.98	0.45
36:DB:44:G:C2	36:DB:48:A:C2	3.05	0.45
36:DB:82:G:H2'	36:DB:83:G:H8	1.81	0.45
38:DD:7:LYS:O	38:DD:9:TYR:CD1	2.69	0.45
39:DE:60:ASN:O	39:DE:61:ARG:C	2.59	0.45
39:DE:89:ASP:O	39:DE:90:THR:O	2.35	0.45
39:DE:150:VAL:O	39:DE:151:TYR:C	2.60	0.45
40:DF:104:LYS:O	40:DF:108:LYS:HG3	2.16	0.45
41:DG:108:ASN:C	41:DG:109:VAL:HG23	2.42	0.45
45:DK:17:ALA:O	45:DK:18:THR:CB	2.63	0.45
47:DO:22:ILE:HG12	47:DO:41:ALA:HA	1.98	0.45
47:DO:107:ARG:CZ	52:DT:35:LYS:HD2	2.47	0.45
48:DP:13:ASN:N	48:DP:13:ASN:ND2	2.65	0.45
48:DP:48:PRO:O	48:DP:49:ARG:O	2.34	0.45
49:DQ:48:GLU:C	49:DQ:50:ALA:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:33:LYS:C	51:DS:34:HIS:CD2	2.95	0.45
51:DS:105:ALA:HB1	51:DS:107:GLU:OE1	2.17	0.45
56:DX:43:VAL:O	56:DX:47:PHE:HD1	2.00	0.45
57:DY:10:GLY:C	57:DY:27:VAL:HG13	2.42	0.45
57:DY:98:VAL:O	57:DY:99:CYS:SG	2.71	0.45
1:AA:389:A:H2'	1:AA:390:C:H5'	1.98	0.45
1:AA:584:G:H2'	1:AA:585:G:C8	2.52	0.45
1:AA:596:C:H2'	1:AA:597:G:C8	2.52	0.45
1:AA:788:U:H2'	1:AA:789:U:O4'	2.16	0.45
1:AA:1429:C:H4'	35:BA:1703:G:O2'	2.17	0.45
2:AB:31:TYR:CD1	2:AB:202:PRO:HB3	2.52	0.45
2:AB:75:LYS:C	2:AB:77:ALA:H	2.25	0.45
2:AB:82:ARG:HA	2:AB:92:TYR:HE1	1.79	0.45
2:AB:91:PRO:CG	2:AB:155:LEU:HB2	2.45	0.45
3:AC:28:GLN:HA	3:AC:31:HIS:HD2	1.82	0.45
7:AG:17:VAL:HG21	7:AG:44:TYR:CE1	2.52	0.45
8:AH:20:TYR:HE2	8:AH:75:ARG:HB3	1.81	0.45
11:AK:126:ARG:NH1	11:AK:126:ARG:CB	2.79	0.45
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.46	0.45
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.82	0.45
20:AT:73:HIS:O	20:AT:74:LYS:CB	2.64	0.45
21:AU:6:ARG:NH2	21:AU:15:ARG:HH21	2.13	0.45
33:B8:60:LEU:O	33:B8:63:PRO:HG2	2.16	0.45
35:BA:910:A:H62	49:BQ:12:GLN:HA	1.81	0.45
35:BA:1234:U:H2'	35:BA:1235:G:O4'	2.17	0.45
35:BA:1376:C:O2'	35:BA:1377:G:H5'	2.16	0.45
35:BA:2200:C:H5'	35:BA:2201:C:OP2	2.16	0.45
35:BA:2302:G:H2'	35:BA:2303:G:H5'	1.97	0.45
35:BA:2359:C:H2'	35:BA:2360:A:O4'	2.16	0.45
35:BA:2536:G:C6	35:BA:2537:U:C4	3.04	0.45
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.52	0.45
36:BB:48:A:H2'	36:BB:49:C:C6	2.52	0.45
36:BB:50:G:C2	36:BB:51:G:H1'	2.51	0.45
36:BB:114:C:O2'	36:BB:115:G:H5'	2.16	0.45
37:BC:20:TYR:O	37:BC:22:ILE:HG12	2.17	0.45
39:BE:4:ILE:HG21	39:BE:96:PHE:HE2	1.81	0.45
40:BF:32:LEU:HB3	40:BF:112:MET:HE1	1.99	0.45
40:BF:129:PHE:HE1	40:BF:142:TRP:CH2	2.35	0.45
41:BG:9:ARG:C	41:BG:11:TYR:N	2.74	0.45
42:BH:138:LYS:C	42:BH:140:LYS:N	2.72	0.45
42:BH:148:ILE:HA	42:BH:151:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:27:ARG:O	43:BI:32:PRO:CG	2.65	0.45
46:BN:43:THR:HB	46:BN:46:VAL:CG1	2.47	0.45
48:BP:27:HIS:N	48:BP:30:THR:OG1	2.50	0.45
48:BP:58:THR:O	48:BP:58:THR:HG23	2.16	0.45
51:BS:22:GLY:O	51:BS:23:ARG:O	2.34	0.45
51:BS:58:LEU:HD21	51:BS:68:GLN:HB2	1.98	0.45
52:BT:1:MET:CG	52:BT:2:ASN:H	2.29	0.45
54:BV:47:VAL:CG1	54:BV:49:THR:O	2.60	0.45
54:BV:99:ILE:N	54:BV:99:ILE:CD1	2.78	0.45
56:BX:11:PRO:HA	56:BX:28:PHE:CB	2.31	0.45
57:BY:81:LYS:O	57:BY:82:PRO:O	2.34	0.45
1:CA:26:A:O2'	4:CD:209:ARG:NH1	2.47	0.45
1:CA:495:A:H4'	1:CA:496:A:O5'	2.17	0.45
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.52	0.45
1:CA:1303:C:H2'	1:CA:1304:G:H5'	1.99	0.45
2:CB:91:PRO:CG	2:CB:155:LEU:HB2	2.44	0.45
2:CB:96:ARG:N	2:CB:96:ARG:CD	2.79	0.45
2:CB:219:VAL:O	2:CB:222:ILE:HB	2.16	0.45
3:CC:126:ARG:O	3:CC:127:ARG:HB2	2.17	0.45
4:CD:91:SER:O	4:CD:94:LEU:N	2.50	0.45
6:CF:2:ARG:HB2	6:CF:4:TYR:CZ	2.52	0.45
7:CG:15:ASP:O	7:CG:19:GLY:HA2	2.17	0.45
8:CH:6:ILE:HG23	8:CH:10:LEU:HD21	1.99	0.45
9:CI:20:ARG:O	9:CI:60:ASP:N	2.50	0.45
9:CI:99:LEU:HD12	9:CI:101:PHE:HE1	1.82	0.45
17:CQ:17:LYS:HA	17:CQ:46:ASP:O	2.17	0.45
31:D6:40:CYS:SG	31:D6:45:LYS:NZ	2.87	0.45
35:DA:15:G:O2'	35:DA:16:G:H5'	2.16	0.45
35:DA:330:A:O2'	35:DA:331:A:C8	2.67	0.45
35:DA:703:U:C2'	35:DA:704:G:H5'	2.47	0.45
35:DA:784:A:N7	38:DD:229:VAL:HG21	2.31	0.45
35:DA:1884:A:C3'	35:DA:1885:A:H5"	2.47	0.45
35:DA:2092:U:C5	35:DA:2226:C:OP2	2.70	0.45
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.16	0.45
35:DA:2840:C:H2'	35:DA:2841:C:C6	2.52	0.45
36:DB:50:G:C2	36:DB:51:G:H1'	2.51	0.45
39:DE:98:PRO:HD3	39:DE:175:VAL:HG12	1.98	0.45
42:DH:66:GLY:HA2	42:DH:69:ARG:CB	2.47	0.45
42:DH:121:ILE:HD11	42:DH:140:LYS:HG2	1.99	0.45
59:DI:79:ILE:HG22	59:DI:80:PRO:HD2	1.98	0.45
45:DK:20:ALA:N	45:DK:21:PRO:CD	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:28:THR:O	46:DN:31:ALA:HB3	2.17	0.45
46:DN:43:THR:HB	46:DN:46:VAL:CG1	2.47	0.45
46:DN:119:ARG:HH11	46:DN:119:ARG:CB	2.30	0.45
47:DO:104:ARG:HH21	52:DT:33:LYS:CE	2.30	0.45
50:DR:17:ARG:HH11	50:DR:17:ARG:HG2	1.82	0.45
50:DR:37:THR:OG1	50:DR:39:PRO:HD2	2.16	0.45
50:DR:53:HIS:O	50:DR:56:LYS:HB3	2.16	0.45
51:DS:59:LYS:NZ	51:DS:68:GLN:HE22	2.15	0.45
51:DS:89:ARG:HB3	51:DS:92:TYR:HB2	1.96	0.45
1:AA:724:G:C2	1:AA:725:G:C8	3.04	0.45
1:AA:775:G:HO2'	1:AA:776:G:H5'	1.82	0.45
1:AA:913:A:H1'	1:AA:914:A:O4'	2.17	0.45
1:AA:939:G:H2'	1:AA:940:C:C6	2.52	0.45
1:AA:954:G:O3'	13:AM:120:LYS:HD3	2.17	0.45
1:AA:1181:G:C6	1:AA:1182:G:C2	3.05	0.45
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.32	0.45
1:AA:1328:C:H5"	13:AM:28:ALA:HB1	1.98	0.45
2:AB:181:PHE:HE1	8:AH:71:GLY:H	1.65	0.45
2:AB:194:PRO:O	2:AB:195:ASP:C	2.59	0.45
4:AD:120:LEU:O	4:AD:125:HIS:HB2	2.17	0.45
5:AE:31:LEU:HD23	5:AE:45:PHE:HB2	1.97	0.45
7:AG:81:GLY:C	7:AG:83:ALA:H	2.22	0.45
10:AJ:64:GLU:HG2	14:AN:59:ALA:HB2	1.99	0.45
11:AK:32:ILE:HD12	11:AK:72:ALA:HB2	1.98	0.45
11:AK:46:GLY:O	11:AK:48:ILE:O	2.34	0.45
15:AO:64:ARG:HD3	15:AO:68:ARG:NH2	2.31	0.45
22:AV:59:U:H2'	22:AV:60:U:O4'	2.16	0.45
24:AY:38:LEU:N	24:AY:38:LEU:HD13	2.32	0.45
24:AY:116:ALA:C	24:AY:117:ILE:HG13	2.42	0.45
24:AY:140:TYR:CE1	24:AY:183:GLU:HG3	2.50	0.45
24:AY:256:THR:HB	24:AY:258:ILE:HG23	1.99	0.45
24:AY:341:LEU:C	24:AY:343:ASP:H	2.24	0.45
24:AY:349:LEU:O	24:AY:350:GLU:C	2.60	0.45
34:B9:7:VAL:HA	34:B9:34:GLN:NE2	2.32	0.45
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.81	0.45
35:BA:1335:U:O2'	35:BA:1336:A:H5'	2.17	0.45
35:BA:1403:C:H5"	35:BA:1471:A:C1'	2.43	0.45
35:BA:1477:A:H5'	35:BA:1478:G:OP2	2.17	0.45
35:BA:1681:G:H8	35:BA:1681:G:OP2	1.99	0.45
35:BA:1853:A:H2'	35:BA:1854:A:C8	2.52	0.45
35:BA:2287:A:O2'	35:BA:2288:A:H3'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2379:G:H2'	35:BA:2380:C:C6	2.52	0.45
35:BA:2518:A:C8	35:BA:2518:A:H5'	2.51	0.45
35:BA:2534:A:H2'	35:BA:2535:G:O5'	2.17	0.45
35:BA:2758:A:C3'	35:BA:2759:G:C5'	2.95	0.45
35:BA:2862:G:O2'	35:BA:2863:C:H5'	2.16	0.45
38:BD:105:ILE:O	38:BD:106:ILE:C	2.57	0.45
38:BD:211:ARG:C	38:BD:213:ARG:N	2.74	0.45
40:BF:26:ALA:O	40:BF:27:GLU:CG	2.61	0.45
40:BF:148:LEU:HD21	40:BF:191:ARG:NH1	2.32	0.45
40:BF:187:VAL:HG13	48:BP:5:ASP:O	2.16	0.45
41:BG:91:ARG:HD2	41:BG:91:ARG:C	2.42	0.45
46:BN:56:ASN:HA	46:BN:124:ALA:O	2.17	0.45
46:BN:65:LYS:HB2	46:BN:69:GLN:HG3	1.98	0.45
48:BP:57:THR:HG23	48:BP:59:LEU:CB	2.42	0.45
51:BS:35:ILE:C	51:BS:36:TYR:CD1	2.95	0.45
52:BT:82:LEU:O	52:BT:83:ILE:C	2.60	0.45
57:BY:30:VAL:CG1	57:BY:31:LEU:N	2.80	0.45
58:BZ:128:VAL:HG23	58:BZ:132:ASN:HD22	1.81	0.45
1:CA:50:A:N6	1:CA:361:G:H4'	2.32	0.45
1:CA:262:A:H2'	1:CA:263:A:C8	2.52	0.45
1:CA:386:C:C2'	1:CA:387:U:H5'	2.47	0.45
1:CA:477:A:H2'	1:CA:479:C:H6	1.82	0.45
1:CA:656:C:O2'	1:CA:657:G:H5'	2.16	0.45
1:CA:735:C:HO2'	1:CA:736:C:H5'	1.80	0.45
1:CA:1052:U:H2'	1:CA:1055:A:OP1	2.16	0.45
1:CA:1061:G:H5"	10:CJ:59:SER:OG	2.16	0.45
1:CA:1264:C:O2	1:CA:1272:G:C2	2.70	0.45
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.35	0.45
2:CB:194:PRO:O	2:CB:195:ASP:C	2.59	0.45
3:CC:64:VAL:HG12	3:CC:66:VAL:HG22	1.98	0.45
4:CD:36:ARG:HB3	4:CD:38:TYR:CZ	2.52	0.45
4:CD:85:LYS:CD	4:CD:86:LYS:H	2.25	0.45
4:CD:109:GLY:O	4:CD:110:PHE:C	2.59	0.45
13:CM:30:ALA:C	13:CM:32:GLU:H	2.24	0.45
18:CR:59:SER:O	18:CR:60:ALA:C	2.58	0.45
19:CS:6:LYS:CD	19:CS:7:LYS:HE3	2.47	0.45
19:CS:66:MET:HB2	19:CS:74:PHE:CZ	2.51	0.45
24:CY:54:ARG:HA	24:CY:57:ARG:HG3	1.98	0.45
24:CY:65:LEU:HA	24:CY:68:ASP:HB3	1.96	0.45
24:CY:270:LYS:O	24:CY:274:LEU:HD13	2.16	0.45
24:CY:315:VAL:O	24:CY:315:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:43:THR:CG2	35:DA:2336:A:H61	2.29	0.45
30:D5:42:PRO:O	30:D5:43:HIS:HB2	2.17	0.45
33:D8:53:PRO:C	33:D8:55:ALA:H	2.24	0.45
35:DA:142:A:H5'	35:DA:142(A):C:OP2	2.17	0.45
35:DA:244:A:C2	35:DA:255:A:C4	3.05	0.45
35:DA:309:G:N3	35:DA:329:G:O2'	2.50	0.45
35:DA:480:A:H2	35:DA:499:U:O2	2.00	0.45
35:DA:803:U:O2'	35:DA:804:A:H5'	2.17	0.45
35:DA:819:A:OP2	35:DA:1187:G:N2	2.40	0.45
35:DA:959:A:O2'	35:DA:960:A:H5'	2.16	0.45
35:DA:1100:C:H2'	35:DA:1101:U:C5'	2.47	0.45
35:DA:1652:A:H2'	35:DA:1653:G:H5'	1.99	0.45
35:DA:1681:G:H8	35:DA:1681:G:OP2	2.00	0.45
35:DA:1979:C:O2'	35:DA:1980:G:H5'	2.17	0.45
35:DA:2115:G:C3'	35:DA:2116:G:H5'	2.47	0.45
35:DA:2128:C:OP1	37:DC:35:ALA:HB1	2.16	0.45
35:DA:2476:A:C2	35:DA:2477:C:C5	3.05	0.45
35:DA:2623:G:H4'	35:DA:2825:C:O2	2.16	0.45
35:DA:2748:A:O2'	42:DH:63:SER:HA	2.16	0.45
36:DB:7:G:C3'	36:DB:8:U:C5'	2.92	0.45
36:DB:50:G:OP2	51:DS:62:LYS:HB3	2.17	0.45
39:DE:51:PHE:H	39:DE:74:PRO:HB2	1.82	0.45
39:DE:131:ALA:HB1	39:DE:133:LYS:CG	2.44	0.45
40:DF:83:PHE:O	40:DF:84:VAL:CB	2.63	0.45
42:DH:20:ALA:HB3	42:DH:23:ARG:CB	2.45	0.45
42:DH:125:VAL:O	42:DH:125:VAL:CG1	2.61	0.45
42:DH:158:HIS:CD2	42:DH:170:ARG:HA	2.50	0.45
45:DK:55:VAL:CG2	45:DK:67:PHE:HB2	2.47	0.45
47:DO:71:ARG:HH11	47:DO:71:ARG:HG3	1.82	0.45
48:DP:75:ILE:HD12	48:DP:75:ILE:N	2.32	0.45
49:DQ:26:TYR:C	49:DQ:26:TYR:CD1	2.94	0.45
51:DS:62:LYS:O	51:DS:63:THR:C	2.60	0.45
52:DT:23:ARG:HA	52:DT:52:ILE:CD1	2.46	0.45
55:DW:92:ARG:NH1	55:DW:94:ASP:OD2	2.50	0.45
58:DZ:166:SER:HB2	58:DZ:167:PRO:O	2.17	0.45
1:AA:181:G:N2	1:AA:183:G:N2	2.62	0.45
1:AA:262:A:H2'	1:AA:263:A:C8	2.52	0.45
1:AA:269:C:H2'	1:AA:270:A:C8	2.52	0.45
1:AA:374:A:C6	1:AA:375:U:C4	3.04	0.45
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.97	0.45
2:AB:102:LEU:C	2:AB:180:LEU:HD11	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:104:VAL:C	4:AD:106:TYR:N	2.75	0.45
7:AG:20:ASP:HB3	7:AG:23:VAL:CG2	2.47	0.45
9:AI:43:ALA:CA	9:AI:74:ILE:HD13	2.47	0.45
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.97	0.45
10:AJ:29:ARG:HG2	10:AJ:29:ARG:O	2.16	0.45
12:AL:70:ILE:HG12	12:AL:100:ILE:CD1	2.46	0.45
14:AN:37:PHE:H	14:AN:37:PHE:HD2	1.63	0.45
16:AP:21:VAL:O	16:AP:33:ILE:HB	2.17	0.45
17:AQ:59:ILE:HG22	17:AQ:60:ILE:N	2.32	0.45
24:AY:42:PRO:O	24:AY:45:ALA:CB	2.65	0.45
24:AY:127:THR:CG2	24:AY:162:ALA:HB3	2.47	0.45
25:B0:72:ARG:O	25:B0:75:LEU:HB2	2.16	0.45
26:B1:52:ARG:O	26:B1:53:VAL:HB	2.17	0.45
29:B4:57:ILE:HG22	29:B4:59:VAL:CG2	2.47	0.45
30:B5:58:LEU:C	30:B5:59:GLU:HG3	2.42	0.45
31:B6:19:ARG:O	31:B6:20:ASN:O	2.34	0.45
31:B6:52:VAL:CG1	31:B6:53:LYS:N	2.79	0.45
33:B8:34:TRP:CD2	33:B8:35:GLN:N	2.85	0.45
35:BA:360:G:H2'	35:BA:361:G:H8	1.82	0.45
35:BA:952:G:C6	35:BA:953:A:N7	2.85	0.45
35:BA:975:C:O2	35:BA:975:C:H2'	2.16	0.45
35:BA:1056:G:H4'	35:BA:1086:A:C8	2.52	0.45
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.52	0.45
35:BA:1203:G:C5'	48:BP:7:ARG:HD3	2.47	0.45
35:BA:1281:G:H5'	35:BA:1282:U:OP2	2.17	0.45
35:BA:1911:U:H2'	35:BA:1918:A:N1	2.32	0.45
35:BA:2115:G:C3'	35:BA:2116:G:H5'	2.47	0.45
35:BA:2403:C:O2	35:BA:2403:C:H2'	2.17	0.45
36:BB:64:C:H2'	36:BB:65:C:C6	2.52	0.45
37:BC:83:ILE:HG23	37:BC:87:GLU:OE2	2.17	0.45
38:BD:186:HIS:HB3	38:BD:189:CYS:SG	2.57	0.45
38:BD:242:ARG:HG2	38:BD:242:ARG:HH11	1.81	0.45
38:BD:248:SER:O	38:BD:249:PRO:C	2.60	0.45
41:BG:70:VAL:HG12	41:BG:71:THR:H	1.82	0.45
41:BG:114:ILE:C	41:BG:116:ASP:H	2.25	0.45
47:BO:53:LYS:HG2	47:BO:56:ASP:OD1	2.17	0.45
49:BQ:5:ARG:O	49:BQ:6:ARG:HD3	2.17	0.45
50:BR:54:LEU:HD23	50:BR:66:VAL:HG23	1.98	0.45
51:BS:20:ARG:HG2	51:BS:20:ARG:NH1	2.31	0.45
52:BT:48:ILE:HD12	52:BT:48:ILE:N	2.31	0.45
55:BW:17:VAL:O	55:BW:18:ARG:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:27:VAL:O	58:BZ:27:VAL:HG13	2.16	0.45
58:BZ:72:ARG:O	58:BZ:73:GLN:HB3	2.17	0.45
58:BZ:102:LEU:CD1	58:BZ:124:ILE:HG22	2.47	0.45
58:BZ:140:ASP:O	58:BZ:141:VAL:O	2.35	0.45
1:CA:46:G:O2'	1:CA:365:U:H1'	2.17	0.45
1:CA:174:C:H2'	1:CA:175:C:C6	2.51	0.45
1:CA:184:G:H5'	1:CA:224:C:H4'	1.98	0.45
1:CA:626:U:H5"	16:CP:38:TYR:CD2	2.52	0.45
1:CA:922:G:C2	1:CA:1396:A:C2	3.05	0.45
1:CA:936:C:H2'	1:CA:937:A:H8	1.81	0.45
1:CA:936:C:H2'	1:CA:937:A:O4'	2.16	0.45
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.17	0.45
1:CA:1181:G:C6	1:CA:1182:G:C2	3.05	0.45
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.17	0.45
1:CA:1498:U:H4'	1:CA:1519:A:C2	2.52	0.45
2:CB:36:ARG:HB2	2:CB:41:ILE:HD11	1.99	0.45
3:CC:105:GLU:CG	3:CC:106:VAL:H	2.20	0.45
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	1.99	0.45
4:CD:194:LEU:N	4:CD:194:LEU:CD2	2.79	0.45
5:CE:105:VAL:C	5:CE:107:ARG:N	2.73	0.45
9:CI:5:TYR:CG	9:CI:6:GLY:N	2.85	0.45
9:CI:46:ALA:HB2	9:CI:74:ILE:CG2	2.47	0.45
9:CI:83:ARG:C	9:CI:86:VAL:HG12	2.42	0.45
16:CP:80:PHE:N	16:CP:80:PHE:CD1	2.84	0.45
17:CQ:68:ARG:O	17:CQ:69:LYS:HB2	2.16	0.45
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.47	0.45
22:CW:26:A:H2'	22:CW:27:G:O4'	2.17	0.45
24:CY:286:LEU:O	24:CY:286:LEU:CD2	2.65	0.45
28:D3:13:ILE:N	28:D3:13:ILE:CD1	2.79	0.45
28:D3:31:LEU:C	28:D3:32:GLN:HG2	2.42	0.45
30:D5:3:LYS:HD2	35:DA:747:U:OP1	2.16	0.45
30:D5:58:LEU:C	30:D5:59:GLU:CG	2.90	0.45
33:D8:32:LEU:H	33:D8:32:LEU:CD1	2.20	0.45
35:DA:218:A:C2	35:DA:235:U:H4'	2.52	0.45
35:DA:304:G:H2'	35:DA:305:U:C6	2.52	0.45
35:DA:773:U:H5'	38:DD:47:GLY:HA3	1.97	0.45
35:DA:848:G:N9	35:DA:933:A:H8	2.14	0.45
35:DA:918:A:O3'	36:DB:97:G:N2	2.50	0.45
35:DA:1211:U:H4'	35:DA:1212:G:OP2	2.17	0.45
35:DA:1588:C:H2'	35:DA:1589:C:H6	1.82	0.45
35:DA:1668:A:H61	35:DA:1676:A:H61	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1902:C:O2'	38:DD:244:ARG:HD3	2.16	0.45
35:DA:2103:C:H3'	35:DA:2104:G:C5'	2.38	0.45
35:DA:2308:G:N2	41:DG:79:ASN:CG	2.74	0.45
35:DA:2552:U:C2	35:DA:2554:U:H5'	2.52	0.45
36:DB:60:C:H2'	36:DB:61:G:C8	2.44	0.45
39:DE:16:ARG:NH1	39:DE:171:GLU:OE2	2.48	0.45
39:DE:38:THR:HG23	39:DE:41:LYS:HD2	1.99	0.45
39:DE:97:LYS:O	39:DE:98:PRO:C	2.60	0.45
40:DF:194:MET:HE2	40:DF:199:TRP:HD1	1.81	0.45
41:DG:139:LEU:CD2	41:DG:139:LEU:N	2.78	0.45
42:DH:24:VAL:O	42:DH:25:LYS:C	2.60	0.45
48:DP:92:GLU:C	48:DP:92:GLU:OE1	2.60	0.45
48:DP:108:LYS:C	48:DP:109:GLY:O	2.59	0.45
48:DP:131:SER:O	48:DP:132:LYS:C	2.59	0.45
50:DR:33:ARG:HB3	50:DR:113:LEU:HD11	1.98	0.45
51:DS:97:ARG:CZ	51:DS:98:VAL:HA	2.38	0.45
52:DT:64:ARG:HD2	52:DT:73:GLU:OE2	2.16	0.45
52:DT:131:ALA:C	52:DT:133:GLU:H	2.25	0.45
54:DV:15:GLU:O	54:DV:16:PRO:C	2.59	0.45
54:DV:38:LEU:HD12	54:DV:56:SER:N	2.31	0.45
58:DZ:14:LYS:O	58:DZ:17:ALA:N	2.50	0.45
1:AA:356:A:C2	1:AA:357:G:C1'	2.97	0.45
1:AA:1504:G:P	1:AA:1504:G:H3'	2.57	0.45
4:AD:125:HIS:O	4:AD:126:ILE:HD13	2.17	0.45
4:AD:133:VAL:HG13	4:AD:135:LEU:CD2	2.47	0.45
5:AE:107:ARG:C	5:AE:109:ILE:H	2.24	0.45
7:AG:50:ILE:HG22	7:AG:51:GLN:N	2.31	0.45
9:AI:9:ARG:HA	9:AI:13:ALA:O	2.17	0.45
9:AI:43:ALA:HA	9:AI:74:ILE:HG21	1.99	0.45
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.80	0.45
11:AK:96:ARG:HA	11:AK:99:GLN:CG	2.47	0.45
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	1.99	0.45
20:AT:82:SER:O	20:AT:86:ARG:HD2	2.16	0.45
24:AY:32:ARG:HH22	45:BK:28:GLY:C	2.25	0.45
24:AY:33:LEU:HD13	35:BA:1095:A:H61	1.82	0.45
24:AY:189:LEU:HB3	24:AY:204:SER:HB2	1.99	0.45
26:B1:5:CYS:SG	26:B1:8:SER:OG	2.67	0.45
29:B4:36:VAL:HG22	29:B4:52:SER:O	2.17	0.45
30:B5:3:LYS:HD2	35:BA:747:U:OP1	2.17	0.45
31:B6:37:ARG:HH11	31:B6:37:ARG:CG	2.30	0.45
35:BA:263:C:H2'	35:BA:264:C:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:517:C:O2'	55:BW:18:ARG:NH2	2.50	0.45
35:BA:547:A:H2'	35:BA:548:A:C8	2.52	0.45
35:BA:844:C:O2'	35:BA:845:G:H5'	2.17	0.45
35:BA:990:A:OP2	35:BA:991:C:OP2	2.34	0.45
35:BA:995:C:C6	53:BU:57:PHE:HE1	2.35	0.45
35:BA:1080:C:H2'	35:BA:1081:U:C6	2.46	0.45
35:BA:1983:C:O2'	35:BA:1984:G:H5'	2.17	0.45
35:BA:2481:G:O2'	35:BA:2482:G:OP2	2.35	0.45
37:BC:65:PRO:HG2	37:BC:189:ILE:CB	2.46	0.45
38:BD:223:GLY:C	38:BD:225:ALA:H	2.25	0.45
39:BE:98:PRO:HD3	39:BE:175:VAL:CG1	2.47	0.45
41:BG:135:LEU:HD11	41:BG:157:ILE:HD11	1.99	0.45
42:BH:84:SER:O	42:BH:85:LYS:HB3	2.16	0.45
43:BI:125:GLU:CD	43:BI:125:GLU:H	2.25	0.45
44:BJ:72:UNK:O	44:BJ:73:UNK:CB	2.66	0.45
51:BS:91:PRO:O	51:BS:93:LYS:N	2.50	0.45
56:BX:73:ARG:HB3	56:BX:74:PRO:HD2	1.99	0.45
58:BZ:131:ARG:HH11	58:BZ:131:ARG:HG2	1.82	0.45
58:BZ:146:ILE:HG13	58:BZ:147:GLY:N	2.26	0.45
1:CA:189(B):C:H2'	1:CA:189(C):C:C6	2.52	0.45
1:CA:647:C:H2'	1:CA:648:A:H8	1.81	0.45
1:CA:1128:C:O2'	1:CA:1130:A:C8	2.66	0.45
1:CA:1255:G:H5'	3:CC:26:LYS:HE3	1.99	0.45
2:CB:92:TYR:HE2	2:CB:151:GLY:CA	2.29	0.45
2:CB:95:GLN:HA	2:CB:95:GLN:OE1	2.17	0.45
2:CB:100:GLY:O	2:CB:105:PHE:N	2.49	0.45
2:CB:170:GLU:O	2:CB:173:ALA:HB3	2.17	0.45
4:CD:133:VAL:HG13	4:CD:135:LEU:CD2	2.47	0.45
5:CE:70:PRO:HG2	5:CE:142:LEU:O	2.16	0.45
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.82	0.45
7:CG:16:LEU:HD13	9:CI:42:ARG:HA	1.97	0.45
8:CH:9:MET:O	8:CH:10:LEU:C	2.60	0.45
11:CK:70:LYS:HA	11:CK:73:MET:HG2	1.99	0.45
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.65	0.45
17:CQ:64:PRO:HA	17:CQ:70:ARG:HG3	1.97	0.45
22:CW:53:G:N2	22:CW:62:C:H42	2.15	0.45
35:DA:436:C:H2'	35:DA:437:G:H8	1.82	0.45
35:DA:626:U:N3	48:DP:105:LEU:HB3	2.32	0.45
35:DA:836:G:C5	35:DA:837:C:C4	3.05	0.45
35:DA:1107:G:H2'	35:DA:1108:U:H6	1.81	0.45
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2023:G:H4'	35:DA:2617:C:O3'	2.16	0.45
35:DA:2063:C:O2	35:DA:2450:A:N1	2.50	0.45
35:DA:2206:G:H3'	35:DA:2207:G:C5'	2.47	0.45
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.52	0.45
35:DA:2403:C:H2'	35:DA:2403:C:O2	2.16	0.45
35:DA:2468:G:N2	35:DA:2481:G:O2'	2.49	0.45
35:DA:2741:A:H2'	35:DA:2742:C:O4'	2.17	0.45
35:DA:2771:C:H2'	35:DA:2772:C:C6	2.52	0.45
35:DA:2777:G:H5"	35:DA:2778:A:C5'	2.47	0.45
35:DA:2832:U:O4	35:DA:2883:A:H5"	2.17	0.45
35:DA:2836:U:C4	35:DA:2883:A:N6	2.85	0.45
35:DA:2840:C:O2'	35:DA:2841:C:H5'	2.17	0.45
36:DB:64:C:H2'	36:DB:65:C:C6	2.51	0.45
40:DF:64:ILE:HG12	40:DF:65:TRP:CD1	2.52	0.45
44:DJ:65:UNK:C	44:DJ:67:UNK:N	2.73	0.45
47:DO:53:LYS:HG2	47:DO:56:ASP:OD1	2.17	0.45
47:DO:63:VAL:HB	47:DO:102:VAL:HG12	1.98	0.45
52:DT:80:SER:O	52:DT:82:LEU:HD12	2.17	0.45
56:DX:54:VAL:HG22	56:DX:81:VAL:HG12	1.99	0.45
57:DY:27:VAL:CB	57:DY:29:GLU:OE1	2.65	0.45
1:AA:380:G:N2	1:AA:383:A:OP2	2.49	0.44
1:AA:407:G:H2'	1:AA:408:A:C8	2.53	0.44
1:AA:502:G:C6	1:AA:503:C:C4	3.05	0.44
1:AA:558:G:C3'	1:AA:559:A:C5'	2.90	0.44
1:AA:829:G:O2'	1:AA:830:G:H5'	2.17	0.44
1:AA:979:C:C2'	1:AA:980:C:H5"	2.47	0.44
1:AA:1047:G:H5"	14:AN:4:LYS:HG2	1.98	0.44
2:AB:100:GLY:O	2:AB:105:PHE:N	2.50	0.44
3:AC:24:ALA:HB1	3:AC:29:TYR:HA	1.99	0.44
4:AD:194:LEU:N	4:AD:194:LEU:CD2	2.80	0.44
6:AF:33:TYR:HD1	6:AF:75:LEU:CB	2.27	0.44
8:AH:39:LEU:O	8:AH:44:PHE:N	2.50	0.44
9:AI:5:TYR:CD2	9:AI:17:VAL:O	2.70	0.44
10:AJ:50:ILE:H	10:AJ:50:ILE:CD1	1.98	0.44
10:AJ:96:ILE:N	10:AJ:96:ILE:CD1	2.80	0.44
12:AL:87:GLY:H	12:AL:99:HIS:H	1.65	0.44
14:AN:29:ARG:HG2	14:AN:30:ALA:H	1.82	0.44
17:AQ:64:PRO:HA	17:AQ:70:ARG:HG3	1.99	0.44
19:AS:6:LYS:CD	19:AS:7:LYS:HE3	2.47	0.44
20:AT:53:LEU:O	20:AT:54:LYS:C	2.60	0.44
24:AY:86:ALA:C	24:AY:89:PRO:HD2	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:182:PRO:HA	24:AY:352:LYS:NZ	2.32	0.44
26:B1:19:GLN:HB3	26:B1:35:THR:CG2	2.44	0.44
26:B1:71:TYR:N	26:B1:71:TYR:CD1	2.85	0.44
30:B5:20:ARG:HB3	30:B5:23:HIS:HD2	1.82	0.44
31:B6:40:CYS:SG	31:B6:45:LYS:HD2	2.57	0.44
31:B6:48:VAL:O	31:B6:49:HIS:HB2	2.17	0.44
33:B8:14:VAL:HG22	33:B8:22:VAL:HG13	1.98	0.44
35:BA:116:C:O2'	35:BA:117:G:H5'	2.17	0.44
35:BA:373:U:H2'	35:BA:374:A:C8	2.51	0.44
35:BA:436:C:H2'	35:BA:437:G:H8	1.83	0.44
35:BA:919:G:H4'	36:BB:81:G:H4'	1.98	0.44
35:BA:1020:A:N6	35:BA:1141:U:O2'	2.50	0.44
35:BA:1088:A:N6	45:BK:133:SER:OG	2.50	0.44
35:BA:1091:G:O2'	35:BA:1092:C:H5'	2.17	0.44
35:BA:1291:C:H2'	35:BA:1292:U:C6	2.52	0.44
35:BA:1439:A:H2'	35:BA:1440:G:O4'	2.17	0.44
35:BA:1858:G:HO2'	35:BA:1859:A:H8	1.64	0.44
35:BA:1941:C:H5'	35:BA:1941:C:H6	1.81	0.44
35:BA:2113:U:H2'	35:BA:2114:A:C8	2.52	0.44
35:BA:2203:U:H1'	35:BA:2221:G:H22	1.82	0.44
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.53	0.44
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.16	0.44
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.42	0.44
40:BF:50:SER:HB2	40:BF:94:PRO:HD3	1.98	0.44
40:BF:121:GLY:C	40:BF:123:LEU:H	2.25	0.44
42:BH:44:VAL:CG1	42:BH:45:VAL:N	2.71	0.44
46:BN:57:ALA:O	46:BN:58:ASP:O	2.35	0.44
48:BP:23:PRO:HD2	48:BP:33:ARG:NE	2.31	0.44
48:BP:108:LYS:C	48:BP:109:GLY:O	2.59	0.44
50:BR:11:ASN:CG	50:BR:12:ARG:N	2.67	0.44
56:BX:29:TRP:CZ2	56:BX:76:ARG:NH2	2.85	0.44
58:BZ:101:PRO:HA	58:BZ:123:ASP:HB3	1.98	0.44
1:CA:392:G:H2'	1:CA:393:A:C8	2.51	0.44
1:CA:815:A:O2'	1:CA:1527:C:H1'	2.17	0.44
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.16	0.44
1:CA:1157:A:C2	1:CA:1181:G:N3	2.84	0.44
1:CA:1328:C:H5"	13:CM:28:ALA:HB1	1.99	0.44
2:CB:31:TYR:CD1	2:CB:202:PRO:HB3	2.52	0.44
3:CC:138:VAL:C	3:CC:140:ARG:H	2.24	0.44
7:CG:5:ARG:C	7:CG:7:ALA:H	2.24	0.44
14:CN:37:PHE:HD2	14:CN:37:PHE:H	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:26:ARG:HH11	16:CP:26:ARG:HG2	1.82	0.44
24:CY:177:TYR:HE1	24:CY:211:ILE:HA	1.82	0.44
25:D0:51:VAL:CA	25:D0:62:LEU:HD12	2.48	0.44
25:D0:72:ARG:O	25:D0:75:LEU:HB2	2.17	0.44
26:D1:33:LYS:HD3	35:DA:2432:A:N9	2.32	0.44
26:D1:67:ILE:N	26:D1:68:PRO:CD	2.77	0.44
26:D1:80:LEU:HD13	26:D1:82:LEU:CD2	2.47	0.44
26:D1:80:LEU:HD13	26:D1:82:LEU:CG	2.47	0.44
27:D2:32:LEU:HD23	27:D2:32:LEU:C	2.43	0.44
29:D4:51:TYR:CZ	41:DG:2:PRO:HB3	2.52	0.44
30:D5:45:VAL:HG13	30:D5:50:GLY:O	2.17	0.44
33:D8:46:ARG:HG2	33:D8:46:ARG:HH11	1.82	0.44
35:DA:239:U:H2'	35:DA:240:G:O4'	2.16	0.44
35:DA:370:G:H8	35:DA:370:G:O5'	2.00	0.44
35:DA:648:G:O2'	35:DA:649:G:H5'	2.17	0.44
35:DA:907:U:OP1	49:DQ:24:GLY:N	2.50	0.44
35:DA:1493:C:C4	35:DA:2206:G:O2'	2.70	0.44
35:DA:1506:C:O2	35:DA:1506:C:H2'	2.16	0.44
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.52	0.44
35:DA:2354:G:H2'	35:DA:2355:C:C6	2.51	0.44
35:DA:2841:C:O2'	35:DA:2842:G:H5'	2.17	0.44
36:DB:42:C:H4'	41:DG:67:LYS:O	2.17	0.44
36:DB:43:C:H5'	36:DB:44:G:OP2	2.17	0.44
38:DD:16:MET:HE1	38:DD:208:LYS:HE2	1.99	0.44
39:DE:81:ILE:O	39:DE:81:ILE:CG2	2.65	0.44
40:DF:160:ASN:ND2	40:DF:162:LEU:HB2	2.30	0.44
41:DG:26:GLN:N	41:DG:26:GLN:OE1	2.51	0.44
41:DG:137:GLU:HG2	41:DG:152:LEU:CD2	2.47	0.44
59:DI:86:THR:CG2	59:DI:122:GLU:HG3	2.41	0.44
46:DN:73:THR:HG22	46:DN:74:ARG:N	2.32	0.44
46:DN:111:PRO:HG3	46:DN:114:ARG:HH22	1.81	0.44
47:DO:105:GLU:O	47:DO:109:LYS:HG2	2.17	0.44
48:DP:62:LEU:N	48:DP:62:LEU:CD1	2.69	0.44
48:DP:89:ALA:O	48:DP:91:PHE:O	2.35	0.44
51:DS:57:LYS:HG2	51:DS:58:LEU:N	2.26	0.44
52:DT:12:SER:O	52:DT:13:ARG:CZ	2.65	0.44
52:DT:29:ARG:NH1	52:DT:46:GLU:OE1	2.46	0.44
53:DU:92:ARG:O	53:DU:93:LYS:C	2.59	0.44
58:DZ:109:ALA:O	58:DZ:111:VAL:N	2.49	0.44
1:AA:93:G:O2'	1:AA:96:U:H5'	2.16	0.44
1:AA:299:G:H2'	1:AA:300:A:H8	1.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:556:C:H2'	1:AA:557:G:H5'	1.99	0.44
1:AA:557:G:H2'	1:AA:558:G:C8	2.52	0.44
1:AA:656:C:O2'	1:AA:657:G:H5'	2.17	0.44
1:AA:715:A:H2'	1:AA:716:A:C8	2.53	0.44
1:AA:936:C:H2'	1:AA:937:A:H8	1.82	0.44
1:AA:1157:A:C2	1:AA:1181:G:N3	2.85	0.44
2:AB:17:PHE:N	2:AB:17:PHE:HD2	2.15	0.44
2:AB:138:LEU:O	2:AB:141:GLU:HB3	2.17	0.44
5:AE:70:PRO:HG2	5:AE:142:LEU:O	2.17	0.44
5:AE:146:ALA:C	5:AE:148:VAL:N	2.74	0.44
8:AH:84:ARG:NH1	8:AH:84:ARG:HG2	2.31	0.44
12:AL:61:THR:C	12:AL:63:GLY:N	2.75	0.44
12:AL:90:VAL:O	12:AL:90:VAL:CG1	2.65	0.44
15:AO:82:ILE:HD11	15:AO:87:ILE:O	2.17	0.44
16:AP:53:VAL:CG1	16:AP:79:VAL:HG22	2.44	0.44
16:AP:58:TYR:CD1	16:AP:59:TRP:N	2.84	0.44
20:AT:36:LEU:CD1	20:AT:55:ILE:HG23	2.48	0.44
20:AT:73:HIS:O	20:AT:74:LYS:HB2	2.17	0.44
22:AW:41:C:N4	22:AW:42:C:N4	2.66	0.44
24:AY:47:LYS:HD2	35:BA:1067:A:OP1	2.17	0.44
26:B1:45:ASN:HD22	26:B1:45:ASN:C	2.24	0.44
27:B2:45:SER:O	27:B2:46:GLN:NE2	2.50	0.44
31:B6:11:LEU:HD23	31:B6:25:LYS:N	2.32	0.44
35:BA:272(J):C:N4	35:BA:363(A):A:N6	2.65	0.44
35:BA:534:U:H2'	35:BA:535:C:C6	2.53	0.44
35:BA:576:U:H2'	35:BA:577:G:C8	2.52	0.44
35:BA:654(U):A:H2'	35:BA:654(V):A:C8	2.52	0.44
35:BA:839:U:H1'	35:BA:1191:G:H1'	1.99	0.44
35:BA:926:A:H5'	35:BA:926:A:C8	2.52	0.44
35:BA:1024:G:H21	35:BA:1144:G:C4'	2.30	0.44
35:BA:1210:A:H5"	35:BA:1211:U:C3'	2.40	0.44
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.53	0.44
35:BA:1675:C:C2	39:BE:129:HIS:CD2	3.04	0.44
35:BA:1799:G:H2'	38:BD:181:GLU:OE1	2.18	0.44
35:BA:1884:A:C3'	35:BA:1885:A:H5"	2.47	0.44
35:BA:2555:U:C2'	35:BA:2556:C:H5'	2.46	0.44
35:BA:2572:A:OP1	39:BE:144:ARG:HB2	2.18	0.44
35:BA:2631:G:N3	35:BA:2810:A:H2	2.15	0.44
35:BA:2778:A:H4'	35:BA:2779:U:OP2	2.17	0.44
35:BA:2862:G:H2'	35:BA:2863:C:H6	1.81	0.44
36:BB:85:G:O2'	36:BB:86:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:60:ASN:O	39:BE:61:ARG:C	2.60	0.44
41:BG:148:MET:HA	41:BG:148:MET:HE3	1.98	0.44
45:BK:95:LYS:HD2	45:BK:95:LYS:H	1.82	0.44
48:BP:17:LYS:O	48:BP:19:VAL:N	2.46	0.44
50:BR:8:ARG:HE	50:BR:8:ARG:H	1.64	0.44
50:BR:18:LEU:HD11	50:BR:22:ARG:CZ	2.47	0.44
51:BS:62:LYS:O	51:BS:63:THR:C	2.59	0.44
51:BS:66:ALA:HA	51:BS:69:VAL:HG12	1.98	0.44
51:BS:80:LEU:C	51:BS:82:ILE:H	2.25	0.44
52:BT:29:ARG:HG2	52:BT:86:ILE:HG23	1.98	0.44
53:BU:49:HIS:C	53:BU:52:ARG:HB2	2.43	0.44
53:BU:90:VAL:C	53:BU:92:ARG:N	2.76	0.44
57:BY:25:GLY:HA3	57:BY:39:VAL:CG1	2.47	0.44
57:BY:27:VAL:CG1	57:BY:29:GLU:OE1	2.64	0.44
57:BY:27:VAL:HB	57:BY:29:GLU:OE1	2.16	0.44
57:BY:56:PRO:C	57:BY:57:GLN:HG3	2.41	0.44
1:CA:135:C:H2'	1:CA:136:C:H5'	1.99	0.44
1:CA:300:A:H2'	1:CA:301:G:O4'	2.17	0.44
1:CA:313:A:O2'	1:CA:314:C:H5'	2.17	0.44
1:CA:762:C:O2'	1:CA:763:G:H5'	2.17	0.44
1:CA:1014:A:H2'	1:CA:1015:A:C8	2.52	0.44
1:CA:1133:G:H22	1:CA:1143:G:H1'	1.82	0.44
1:CA:1298:C:H2'	7:CG:114:ARG:HH12	1.83	0.44
1:CA:1326:C:H2'	1:CA:1327:C:H6	1.78	0.44
1:CA:1358:U:OP1	14:CN:35:ARG:HG3	2.18	0.44
5:CE:8:GLU:HA	5:CE:34:VAL:HA	2.00	0.44
5:CE:18:ARG:NE	5:CE:27:ARG:HH21	2.15	0.44
9:CI:2:GLU:HG2	9:CI:2:GLU:O	2.17	0.44
10:CJ:29:ARG:HG2	10:CJ:29:ARG:O	2.17	0.44
11:CK:122:LYS:O	11:CK:126:ARG:HG3	2.17	0.44
16:CP:20:VAL:HG22	16:CP:21:VAL:H	1.82	0.44
20:CT:63:ILE:HG22	20:CT:77:ALA:HB1	1.99	0.44
22:CW:18:G:H4'	22:CW:60:U:H3	1.81	0.44
24:CY:16:TYR:HD1	24:CY:55:LEU:CD2	2.30	0.44
24:CY:59:VAL:CA	24:CY:62:PHE:HB3	2.44	0.44
24:CY:307:TRP:O	24:CY:309:SER:N	2.50	0.44
27:D2:4:SER:O	27:D2:8:LYS:HG3	2.18	0.44
28:D3:13:ILE:N	28:D3:13:ILE:HD12	2.31	0.44
35:DA:347:A:H2'	35:DA:348:G:C8	2.51	0.44
35:DA:638:G:C5	35:DA:651:G:C2	3.05	0.44
35:DA:709:U:O2'	35:DA:710:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:786:C:O2'	35:DA:787:U:H5'	2.16	0.44
35:DA:828:U:O2	35:DA:828:U:C3'	2.66	0.44
35:DA:914:C:C2'	35:DA:915:C:H5'	2.33	0.44
35:DA:1769:G:O2'	35:DA:1958:C:OP1	2.32	0.44
35:DA:1902:C:C5'	38:DD:246:PRO:HD3	2.47	0.44
35:DA:2369:A:O2'	35:DA:2370:G:H5'	2.17	0.44
35:DA:2677:G:H2'	35:DA:2678:C:C6	2.53	0.44
38:DD:242:ARG:HG2	38:DD:242:ARG:HH11	1.82	0.44
41:DG:85:GLY:O	41:DG:87:PRO:HD2	2.17	0.44
41:DG:132:ASN:OD1	41:DG:158:ALA:HB2	2.17	0.44
42:DH:30:LYS:HE2	42:DH:79:VAL:HA	1.97	0.44
42:DH:83:TYR:HA	42:DH:135:GLY:N	2.15	0.44
42:DH:85:LYS:HG2	42:DH:85:LYS:O	2.16	0.44
59:DI:26:ALA:HA	59:DI:30:LEU:HB2	1.99	0.44
44:DJ:110:UNK:O	44:DJ:111:UNK:CB	2.65	0.44
47:DO:72:PRO:C	47:DO:74:GLY:N	2.75	0.44
48:DP:58:THR:O	48:DP:58:THR:HG23	2.16	0.44
48:DP:102:ARG:O	48:DP:103:ALA:CB	2.64	0.44
52:DT:36:GLU:HB3	52:DT:38:ASN:OD1	2.17	0.44
54:DV:17:GLY:HA2	54:DV:96:ILE:O	2.18	0.44
54:DV:28:GLU:HB3	54:DV:29:PRO:CD	2.40	0.44
57:DY:27:VAL:CG1	57:DY:29:GLU:OE1	2.64	0.44
57:DY:51:VAL:O	57:DY:51:VAL:HG12	2.17	0.44
58:DZ:108:PRO:O	58:DZ:109:ALA:O	2.34	0.44
1:AA:25:C:C5	1:AA:558:G:N2	2.85	0.44
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.18	0.44
1:AA:541:G:HO2'	1:AA:542:G:H5'	1.82	0.44
1:AA:710:G:O2'	1:AA:711:G:H5'	2.16	0.44
1:AA:925:G:H4'	1:AA:1502:A:C2	2.53	0.44
1:AA:1195:C:H5"	1:AA:1196:U:OP2	2.17	0.44
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.52	0.44
1:AA:1523:G:OP1	11:AK:123:LYS:HD3	2.17	0.44
2:AB:75:LYS:CA	2:AB:78:GLN:HG3	2.36	0.44
8:AH:69:ARG:HD3	8:AH:75:ARG:O	2.15	0.44
9:AI:79:LEU:HD11	9:AI:83:ARG:NH2	2.32	0.44
10:AJ:38:ILE:N	10:AJ:71:LEU:O	2.50	0.44
11:AK:120:ARG:HH22	11:AK:126:ARG:NH2	2.15	0.44
12:AL:69:TYR:HB2	12:AL:96:VAL:HG11	1.98	0.44
15:AO:36:ILE:HG22	15:AO:37:ASN:N	2.31	0.44
24:AY:196:ASP:OD1	24:AY:197:ALA:N	2.50	0.44
24:AY:231:VAL:HG11	24:AY:268:GLN:CG	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:269:ILE:HD12	49:BQ:80:GLU:HG3	1.99	0.44
32:B7:8:ASN:HD21	32:B7:10:ARG:HB3	1.83	0.44
35:BA:95:G:N2	35:BA:96:G:H1'	2.32	0.44
35:BA:107:C:C2	35:BA:108:U:C5	3.06	0.44
35:BA:654(S):G:H2'	35:BA:654(T):C:C6	2.52	0.44
35:BA:783:A:H8	35:BA:784:A:H4'	1.81	0.44
35:BA:1018:C:O2'	35:BA:1019:U:H5'	2.17	0.44
35:BA:1210:A:C5'	35:BA:1211:U:H3'	2.40	0.44
35:BA:1669:A:H5"	35:BA:2550:G:OP1	2.18	0.44
35:BA:2092:U:O2	35:BA:2092:U:O4'	2.33	0.44
35:BA:2235:G:H2'	35:BA:2236:C:C6	2.52	0.44
35:BA:2289:G:C1'	35:BA:2346:A:H2	2.30	0.44
35:BA:2508:G:O2'	35:BA:2509:G:H5'	2.17	0.44
38:BD:44:ASN:OD1	38:BD:44:ASN:C	2.59	0.44
39:BE:47:VAL:HG12	39:BE:49:LEU:CD1	2.44	0.44
40:BF:117:ARG:HA	40:BF:117:ARG:HD3	1.58	0.44
41:BG:39:ILE:CG1	41:BG:92:VAL:HG12	2.46	0.44
45:BK:62:ASP:O	45:BK:64:SER:N	2.51	0.44
45:BK:77:LEU:CD1	45:BK:107:ILE:HG23	2.47	0.44
45:BK:125:ARG:HG2	45:BK:125:ARG:NH1	2.31	0.44
47:BO:88:ASN:HD21	47:BO:90:GLN:HB2	1.81	0.44
51:BS:26:LEU:HD13	51:BS:87:PHE:HD1	1.82	0.44
51:BS:90:GLY:O	51:BS:92:TYR:N	2.51	0.44
52:BT:108:ARG:HH11	52:BT:108:ARG:CB	2.29	0.44
53:BU:31:SER:O	53:BU:33:ARG:N	2.50	0.44
54:BV:62:LEU:HD21	54:BV:95:LEU:CB	2.40	0.44
56:BX:23:GLU:C	56:BX:25:LYS:H	2.25	0.44
57:BY:31:LEU:CB	57:BY:32:PRO:CA	2.95	0.44
1:CA:428:G:HO2'	1:CA:429:U:P	2.41	0.44
1:CA:453:A:O2'	1:CA:454:C:H6	2.01	0.44
1:CA:475:G:O2'	1:CA:476:G:H5'	2.18	0.44
1:CA:589:C:O2'	1:CA:590:C:H5'	2.17	0.44
1:CA:723:U:H5"	1:CA:724:G:OP2	2.17	0.44
1:CA:791:G:C5	1:CA:792:A:N7	2.86	0.44
1:CA:925:G:C6	1:CA:927:G:N7	2.86	0.44
1:CA:1248:A:C6	1:CA:1249:C:C4	3.05	0.44
1:CA:1294:G:O2'	1:CA:1295:G:H5'	2.17	0.44
2:CB:75:LYS:C	2:CB:77:ALA:H	2.24	0.44
3:CC:134:ILE:HG23	3:CC:151:VAL:HB	1.99	0.44
5:CE:107:ARG:C	5:CE:109:ILE:H	2.25	0.44
9:CI:118:LYS:O	9:CI:119:ALA:CB	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:55:LYS:O	10:CJ:56:HIS:CG	2.70	0.44
10:CJ:62:HIS:H	10:CJ:62:HIS:HD2	1.63	0.44
10:CJ:70:ARG:HE	10:CJ:70:ARG:CA	2.28	0.44
13:CM:73:GLU:O	13:CM:76:ALA:HB3	2.17	0.44
16:CP:5:ARG:HE	16:CP:22:THR:CG2	2.30	0.44
19:CS:6:LYS:CD	19:CS:6:LYS:N	2.76	0.44
22:CV:11:C:O5'	22:CV:11:C:H6	2.00	0.44
24:CY:190:VAL:CG1	24:CY:201:ARG:HE	2.31	0.44
27:D2:46:GLN:HA	27:D2:46:GLN:OE1	2.17	0.44
28:D3:57:GLU:HG2	28:D3:58:VAL:N	2.33	0.44
31:D6:12:GLU:HG2	31:D6:52:VAL:O	2.17	0.44
35:DA:211:A:O2'	35:DA:212:G:H5'	2.17	0.44
35:DA:271(P):C:O2'	35:DA:271(Q):G:H5'	2.16	0.44
35:DA:547:A:H2'	35:DA:548:A:C8	2.52	0.44
35:DA:658:C:H2'	35:DA:659:C:C6	2.52	0.44
35:DA:840:C:H2'	35:DA:841:A:C8	2.53	0.44
35:DA:888:C:O2'	35:DA:889:C:H5'	2.18	0.44
35:DA:1567:A:C8	38:DD:84:TYR:CE2	3.06	0.44
37:DC:78:ALA:O	37:DC:79:LYS:C	2.61	0.44
37:DC:83:ILE:HG23	37:DC:87:GLU:OE2	2.17	0.44
37:DC:109:ASP:O	37:DC:110:PHE:C	2.61	0.44
37:DC:192:PHE:HA	37:DC:196:LEU:CB	2.47	0.44
38:DD:95:LEU:HD12	38:DD:103:ARG:O	2.17	0.44
38:DD:96:HIS:NE2	38:DD:102:LYS:HE2	2.33	0.44
38:DD:211:ARG:O	38:DD:213:ARG:N	2.50	0.44
39:DE:57:LYS:HB3	39:DE:57:LYS:HZ2	1.76	0.44
42:DH:19:VAL:CG2	42:DH:44:VAL:HG13	2.44	0.44
42:DH:85:LYS:HE2	42:DH:145:ALA:CB	2.47	0.44
59:DI:66:GLU:HA	59:DI:69:LYS:NZ	2.32	0.44
59:DI:125:GLU:HB3	59:DI:143:SER:OG	2.18	0.44
48:DP:7:ARG:NH1	48:DP:7:ARG:CG	2.80	0.44
48:DP:10:PRO:CD	48:DP:11:GLY:N	2.79	0.44
48:DP:62:LEU:HD22	48:DP:62:LEU:O	2.17	0.44
49:DQ:141:GLN:N	58:DZ:99:TYR:CD2	2.86	0.44
51:DS:41:ASP:C	51:DS:42:ASP:O	2.58	0.44
52:DT:108:ARG:HH11	52:DT:108:ARG:CB	2.30	0.44
53:DU:64:ARG:HG2	53:DU:64:ARG:HH21	1.82	0.44
57:DY:32:PRO:C	57:DY:35:TYR:H	2.25	0.44
57:DY:42:VAL:CG2	57:DY:67:LEU:HD13	2.46	0.44
58:DZ:10:ARG:HG3	58:DZ:18:LEU:HD21	1.99	0.44
1:AA:69:G:H2'	1:AA:70:G:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:311:C:O2'	1:AA:312:C:H5'	2.17	0.44
1:AA:677:U:H2'	1:AA:678:U:C6	2.53	0.44
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.32	0.44
1:AA:1125:U:H2'	1:AA:1126:U:OP2	2.18	0.44
2:AB:219:VAL:O	2:AB:222:ILE:HB	2.17	0.44
2:AB:222:ILE:HG22	2:AB:226:ARG:HH21	1.81	0.44
2:AB:224:GLN:C	2:AB:226:ARG:N	2.72	0.44
5:AE:18:ARG:NE	5:AE:27:ARG:HH21	2.16	0.44
6:AF:46:ARG:HH22	18:AR:37:VAL:HG21	1.83	0.44
10:AJ:48:THR:HG23	10:AJ:62:HIS:CG	2.51	0.44
10:AJ:51:ARG:HG3	10:AJ:60:ARG:HA	1.99	0.44
18:AR:29:PHE:CD1	18:AR:39:VAL:HG11	2.52	0.44
22:AW:70:G:H2'	22:AW:70:G:N3	2.33	0.44
24:AY:64:SER:OG	24:AY:87:LEU:HD21	2.17	0.44
26:B1:74:VAL:O	26:B1:77:ALA:HB3	2.17	0.44
27:B2:57:ILE:O	27:B2:60:LEU:HB2	2.16	0.44
28:B3:57:GLU:HG2	28:B3:58:VAL:N	2.33	0.44
35:BA:196:A:OP2	48:BP:51:PHE:HE2	1.99	0.44
35:BA:523:C:C2'	35:BA:524:U:H5'	2.46	0.44
35:BA:1184:G:C5	35:BA:1185:C:C5	3.06	0.44
35:BA:1401:G:H2'	35:BA:1402:C:C6	2.53	0.44
35:BA:1567:A:C8	38:BD:84:TYR:CE2	3.05	0.44
35:BA:1636:C:H2'	35:BA:1637:A:C8	2.53	0.44
35:BA:1657:C:H2'	35:BA:1658:C:H6	1.81	0.44
35:BA:2599:G:N7	38:BD:237:GLU:HG3	2.32	0.44
35:BA:2745:C:H4'	42:BH:142:GLY:O	2.17	0.44
38:BD:27:THR:HG21	38:BD:83:GLU:HG2	1.97	0.44
38:BD:43:ARG:HB2	38:BD:49:ILE:HA	1.98	0.44
38:BD:72:LYS:HD2	38:BD:97:TYR:CD2	2.52	0.44
38:BD:126:GLN:O	38:BD:193:VAL:HG11	2.17	0.44
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.17	0.44
40:BF:20:LEU:O	40:BF:21:ALA:HB2	2.17	0.44
40:BF:160:ASN:HD22	40:BF:161:GLU:N	2.15	0.44
41:BG:145:THR:OG1	41:BG:148:MET:HB3	2.16	0.44
43:BI:65:ALA:CB	43:BI:132:PRO:HB2	2.47	0.44
45:BK:67:PHE:CD1	45:BK:67:PHE:N	2.85	0.44
48:BP:83:VAL:O	48:BP:83:VAL:HG13	2.17	0.44
52:BT:16:ARG:HB2	52:BT:79:HIS:CD2	2.52	0.44
54:BV:28:GLU:CB	54:BV:29:PRO:HD2	2.40	0.44
54:BV:78:LYS:C	54:BV:79:VAL:CG2	2.90	0.44
57:BY:2:ARG:N	57:BY:5:MET:SD	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:81:LYS:HA	57:BY:82:PRO:HD3	1.85	0.44
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.17	0.44
1:CA:511:C:HO2'	1:CA:512:U:H6	1.61	0.44
1:CA:709:G:H2'	1:CA:710:G:H8	1.83	0.44
1:CA:1514:C:H2'	1:CA:1515:C:H6	1.82	0.44
2:CB:82:ARG:HH11	2:CB:83:MET:CE	2.30	0.44
2:CB:91:PRO:HG3	2:CB:155:LEU:HD23	1.99	0.44
4:CD:205:GLU:O	4:CD:207:TYR:N	2.51	0.44
5:CE:146:ALA:C	5:CE:148:VAL:N	2.74	0.44
6:CF:2:ARG:HD2	6:CF:4:TYR:OH	2.18	0.44
7:CG:43:PHE:O	7:CG:46:ALA:HB3	2.18	0.44
9:CI:9:ARG:HA	9:CI:13:ALA:O	2.18	0.44
12:CL:25:PRO:C	12:CL:27:LEU:N	2.72	0.44
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.99	0.44
15:CO:33:THR:HG21	15:CO:85:LEU:HD22	1.97	0.44
20:CT:32:ALA:O	20:CT:36:LEU:HB2	2.17	0.44
22:CV:53:G:H2'	22:CV:54:U:H6	1.83	0.44
22:CV:59:U:H2'	22:CV:60:U:H5'	2.00	0.44
22:CW:70:G:C2'	22:CW:71:G:C5'	2.96	0.44
24:CY:65:LEU:HD21	24:CY:94:ALA:CB	2.45	0.44
25:D0:53:MET:HE1	25:D0:57:PHE:HD1	1.82	0.44
31:D6:27:LYS:HD2	35:DA:2285:C:OP2	2.17	0.44
33:D8:57:ARG:C	33:D8:59:LYS:N	2.72	0.44
35:DA:271(A):A:H3'	35:DA:271(B):C:H6	1.83	0.44
35:DA:534:U:H2'	35:DA:535:C:C6	2.53	0.44
35:DA:674:G:C1'	40:DF:74:ARG:HD2	2.38	0.44
35:DA:783:A:H8	35:DA:784:A:H4'	1.83	0.44
35:DA:1020:A:N6	35:DA:1141:U:O2'	2.51	0.44
35:DA:1071:G:C1'	35:DA:1089:G:C8	3.00	0.44
35:DA:1088:A:N6	45:DK:133:SER:OG	2.51	0.44
35:DA:1407:C:C2	35:DA:1596:A:C2	3.05	0.44
35:DA:1793:C:H2'	35:DA:1794:U:C6	2.52	0.44
35:DA:1841:U:C2'	38:DD:244:ARG:HH22	2.31	0.44
35:DA:2367:G:H2'	35:DA:2368:C:C6	2.50	0.44
35:DA:2704:C:H2'	35:DA:2705:A:C8	2.52	0.44
35:DA:2862:G:O2'	35:DA:2863:C:H5'	2.18	0.44
37:DC:74:VAL:HA	37:DC:119:VAL:O	2.18	0.44
38:DD:70:TRP:CD1	38:DD:70:TRP:C	2.95	0.44
38:DD:133:LEU:HD23	38:DD:136:ILE:HD12	1.99	0.44
40:DF:125:LEU:HD11	40:DF:199:TRP:CG	2.53	0.44
41:DG:82:LEU:HD13	41:DG:87:PRO:CB	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:82:LEU:HD23	41:DG:82:LEU:HA	1.81	0.44
41:DG:144:ILE:HD12	41:DG:145:THR:H	1.83	0.44
45:DK:55:VAL:HG22	45:DK:57:ILE:CD1	2.48	0.44
46:DN:56:ASN:HA	46:DN:124:ALA:O	2.17	0.44
47:DO:16:ALA:HA	47:DO:46:ALA:CB	2.46	0.44
55:DW:27:LYS:O	55:DW:28:SER:C	2.60	0.44
57:DY:9:LYS:HG3	57:DY:10:GLY:H	1.81	0.44
1:AA:625:G:C4	1:AA:626:U:C5	3.06	0.44
1:AA:745:C:H1'	1:AA:836:G:O2'	2.17	0.44
1:AA:859:A:H2'	1:AA:860:A:O4'	2.17	0.44
1:AA:890:G:N2	1:AA:906:G:H2'	2.33	0.44
1:AA:986:A:H2'	1:AA:987:G:C8	2.51	0.44
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.83	0.44
1:AA:1162:C:O2'	1:AA:1163:C:H5'	2.16	0.44
1:AA:1231:G:H5"	9:AI:128:ARG:HD3	1.99	0.44
1:AA:1248:A:C6	1:AA:1249:C:C4	3.05	0.44
1:AA:1440:C:C2	1:AA:1462:G:N2	2.85	0.44
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.81	0.44
3:AC:138:VAL:HG13	3:AC:149:ALA:HB3	2.00	0.44
3:AC:150:LYS:HA	3:AC:169:ALA:HB2	1.98	0.44
5:AE:13:ILE:N	5:AE:13:ILE:HD12	2.33	0.44
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.47	0.44
5:AE:105:VAL:C	5:AE:107:ARG:N	2.75	0.44
8:AH:103:VAL:C	8:AH:105:ARG:H	2.26	0.44
9:AI:104:ARG:HA	9:AI:104:ARG:HD2	1.83	0.44
10:AJ:6:ILE:CG2	10:AJ:98:ILE:HG13	2.48	0.44
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.43	0.44
10:AJ:83:GLU:C	10:AJ:85:LEU:H	2.26	0.44
12:AL:84:LEU:HB2	12:AL:105:TYR:CE1	2.53	0.44
17:AQ:29:HIS:N	17:AQ:33:GLY:O	2.42	0.44
17:AQ:60:ILE:O	17:AQ:61:GLU:C	2.61	0.44
17:AQ:76:LEU:CG	17:AQ:77:VAL:N	2.81	0.44
19:AS:6:LYS:CG	19:AS:7:LYS:HE3	2.48	0.44
20:AT:32:ALA:O	20:AT:36:LEU:HB2	2.17	0.44
22:AW:39:U:C2'	22:AW:40:C:H5"	2.42	0.44
24:AY:123:GLY:H	24:AY:206:ALA:HA	1.82	0.44
24:AY:312:ARG:NH2	24:AY:325:ARG:NH2	2.64	0.44
27:B2:40:SER:C	27:B2:42:GLY:N	2.76	0.44
28:B3:19:GLN:HE22	28:B3:52:HIS:CE1	2.29	0.44
31:B6:19:ARG:HD2	31:B6:19:ARG:N	2.33	0.44
33:B8:7:HIS:HB2	33:B8:59:LYS:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:59:U:O2'	35:BA:73:A:H2'	2.17	0.44
35:BA:598:G:H4'	48:BP:15:ARG:HB3	2.00	0.44
35:BA:709:U:O2'	35:BA:710:G:H5'	2.16	0.44
35:BA:964:C:O2'	35:BA:2273:A:N3	2.42	0.44
35:BA:1100:C:H2'	35:BA:1101:U:C5'	2.47	0.44
35:BA:1251:C:OP1	53:BU:10:ARG:HG3	2.17	0.44
35:BA:1407:C:O2	35:BA:1407:C:H2'	2.18	0.44
35:BA:1573:G:C2'	35:BA:1574:C:H5'	2.46	0.44
35:BA:1888:G:N3	35:BA:1888:G:H5'	2.32	0.44
35:BA:1948:G:O2'	35:BA:1949:G:H5'	2.17	0.44
35:BA:2516:G:C5	35:BA:2517:C:C4	3.06	0.44
35:BA:2627:G:O2'	35:BA:2781:A:N1	2.49	0.44
37:BC:58:VAL:HA	37:BC:59:ARG:CZ	2.48	0.44
38:BD:61:LEU:O	38:BD:63:ARG:NH1	2.51	0.44
38:BD:95:LEU:HD12	38:BD:103:ARG:O	2.17	0.44
39:BE:53:PRO:O	39:BE:54:GLN:C	2.60	0.44
39:BE:79:ARG:HG2	39:BE:79:ARG:NH1	2.32	0.44
39:BE:98:PRO:HD3	39:BE:175:VAL:HG12	1.99	0.44
40:BF:104:LYS:O	40:BF:108:LYS:HG3	2.18	0.44
41:BG:13:GLU:HG3	41:BG:14:GLU:H	1.82	0.44
41:BG:17:PRO:O	41:BG:18:GLU:C	2.61	0.44
50:BR:54:LEU:HG	50:BR:62:ALA:HB1	1.99	0.44
51:BS:97:ARG:CZ	51:BS:98:VAL:HA	2.39	0.44
53:BU:92:ARG:O	53:BU:93:LYS:C	2.61	0.44
1:CA:25:C:C5	1:CA:558:G:N2	2.86	0.44
1:CA:410:G:OP2	4:CD:25:ARG:HG3	2.17	0.44
1:CA:457:C:H2'	1:CA:458:C:C6	2.53	0.44
1:CA:1051:C:H2'	1:CA:1052:U:C6	2.53	0.44
1:CA:1239:A:H62	1:CA:1299:A:H62	1.66	0.44
1:CA:1330:U:H5'	1:CA:1331:G:OP2	2.17	0.44
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.86	0.44
3:CC:124:ILE:HG21	3:CC:196:LEU:HG	1.99	0.44
4:CD:32:ALA:C	4:CD:34:GLU:N	2.74	0.44
4:CD:189:PRO:O	4:CD:190:ASP:C	2.60	0.44
6:CF:36:ARG:HB3	6:CF:36:ARG:NH1	2.32	0.44
8:CH:114:THR:C	8:CH:116:LYS:H	2.25	0.44
8:CH:120:THR:H	8:CH:123:GLU:HB2	1.82	0.44
9:CI:70:LYS:C	9:CI:72:GLY:N	2.75	0.44
10:CJ:99:LYS:O	10:CJ:100:THR:HG23	2.16	0.44
14:CN:19:ARG:O	14:CN:20:ALA:C	2.60	0.44
14:CN:50:LYS:C	14:CN:52:GLN:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:39:LEU:HD12	15:CO:56:LEU:HB2	1.99	0.44
19:CS:6:LYS:HD2	19:CS:7:LYS:N	2.31	0.44
26:D1:82:LEU:O	26:D1:83:GLU:HG3	2.17	0.44
28:D3:19:GLN:HE22	28:D3:52:HIS:CE1	2.32	0.44
31:D6:19:ARG:H	31:D6:19:ARG:HD2	1.82	0.44
35:DA:271(A):A:N1	35:DA:272(D):G:O2'	2.41	0.44
35:DA:558:G:OP2	46:DN:111:PRO:HD2	2.18	0.44
35:DA:639:U:H2'	35:DA:640:C:C6	2.52	0.44
35:DA:970:C:H2'	35:DA:971:C:C6	2.52	0.44
35:DA:1061:U:P	45:DK:9:LYS:NZ	2.91	0.44
35:DA:1080:C:O2'	35:DA:1081:U:H5'	2.17	0.44
35:DA:1386:C:H2'	35:DA:1387:C:C6	2.52	0.44
35:DA:2173:A:H3'	35:DA:2174:C:C6	2.53	0.44
35:DA:2692:C:O2'	35:DA:2693:A:H5'	2.17	0.44
37:DC:72:VAL:HG21	37:DC:161:ILE:HA	1.99	0.44
38:DD:7:LYS:O	38:DD:9:TYR:HD1	2.01	0.44
39:DE:1:MET:HE2	39:DE:1:MET:N	2.31	0.44
40:DF:65:TRP:HB3	40:DF:66:PRO:HD3	2.00	0.44
40:DF:88:VAL:CG1	40:DF:91:GLY:HA3	2.46	0.44
44:DJ:70:UNK:O	44:DJ:72:UNK:N	2.51	0.44
45:DK:62:ASP:O	45:DK:64:SER:N	2.50	0.44
46:DN:65:LYS:HB2	46:DN:69:GLN:HG3	1.98	0.44
46:DN:119:ARG:NH1	46:DN:119:ARG:HG3	2.30	0.44
50:DR:94:TYR:C	50:DR:117:VAL:HB	2.41	0.44
52:DT:32:TYR:CB	52:DT:81:PRO:HB3	2.48	0.44
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG1	2.43	0.44
58:DZ:166:SER:CB	58:DZ:167:PRO:C	2.85	0.44
1:AA:119:A:H4'	1:AA:120:A:O5'	2.18	0.44
1:AA:1500:A:O2'	1:AA:1501:C:H5'	2.17	0.44
2:AB:30:ARG:HH21	2:AB:194:PRO:CB	2.30	0.44
2:AB:97:TRP:CH2	2:AB:176:GLU:OE2	2.71	0.44
2:AB:194:PRO:O	2:AB:197:VAL:HG23	2.17	0.44
3:AC:138:VAL:C	3:AC:140:ARG:H	2.24	0.44
4:AD:25:ARG:HH12	4:AD:30:LYS:HB2	1.83	0.44
5:AE:71:LEU:HD21	5:AE:115:VAL:HG22	2.00	0.44
12:AL:83:VAL:CG2	12:AL:84:LEU:N	2.81	0.44
20:AT:40:ALA:C	20:AT:42:GLN:N	2.74	0.44
23:AX:24:A:C8	24:AY:202:HIS:HA	2.53	0.44
25:B0:36:ILE:HD12	25:B0:36:ILE:O	2.18	0.44
35:BA:601:C:O2	35:BA:605:C:H4'	2.17	0.44
35:BA:614:U:O2	35:BA:614:U:O4'	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:797:C:P	40:BF:62:ARG:HG3	2.58	0.44
35:BA:893:C:H2'	35:BA:894:C:C6	2.52	0.44
35:BA:981:A:H2	35:BA:2027:G:N3	2.15	0.44
35:BA:1339:G:H21	35:BA:1603:A:H1'	1.83	0.44
35:BA:2206:G:H3'	35:BA:2207:G:C5'	2.48	0.44
35:BA:2296:U:O2	35:BA:2333:A:N3	2.51	0.44
35:BA:2344:U:H4'	35:BA:2345:G:OP1	2.18	0.44
35:BA:2408:U:H2'	35:BA:2409:G:C8	2.53	0.44
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.18	0.44
35:BA:2791:C:H4'	35:BA:2792:G:O5'	2.17	0.44
39:BE:26:ILE:HG22	39:BE:27:LEU:N	2.31	0.44
41:BG:73:ALA:H	41:BG:87:PRO:HB2	1.83	0.44
41:BG:111:LEU:HD21	41:BG:120:LEU:HD21	2.00	0.44
43:BI:142:VAL:CG1	43:BI:143:SER:H	2.27	0.44
48:BP:136:GLU:O	48:BP:137:LYS:C	2.60	0.44
50:BR:29:LEU:O	50:BR:30:THR:C	2.60	0.44
52:BT:12:SER:O	52:BT:13:ARG:NH1	2.51	0.44
53:BU:66:ASN:OD1	53:BU:76:TYR:HB2	2.18	0.44
54:BV:2:PHE:O	54:BV:3:ALA:CB	2.66	0.44
56:BX:12:VAL:HG12	56:BX:27:THR:C	2.40	0.44
1:CA:119:A:H4'	1:CA:120:A:O5'	2.18	0.44
1:CA:154:C:H42	1:CA:167:G:H1	1.66	0.44
1:CA:372:C:N4	1:CA:387:U:H2'	2.33	0.44
1:CA:430:A:C2'	1:CA:431:A:H5'	2.47	0.44
1:CA:706:A:C5	1:CA:707:C:H5	2.36	0.44
1:CA:829:G:O2'	1:CA:830:G:H5'	2.18	0.44
1:CA:986:A:H2'	1:CA:987:G:C8	2.53	0.44
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.53	0.44
1:CA:1501:C:OP1	1:CA:1508:G:H4'	2.18	0.44
2:CB:141:GLU:O	2:CB:145:LEU:HD23	2.18	0.44
3:CC:28:GLN:O	3:CC:30:ARG:N	2.50	0.44
3:CC:47:LEU:HD11	3:CC:76:VAL:HG12	1.99	0.44
3:CC:153:VAL:HA	3:CC:197:GLY:O	2.17	0.44
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.99	0.44
9:CI:112:LYS:HA	9:CI:119:ALA:HA	2.00	0.44
11:CK:33:THR:HB	11:CK:38:ASN:C	2.43	0.44
12:CL:90:VAL:O	12:CL:90:VAL:CG1	2.65	0.44
16:CP:36:ILE:HG13	16:CP:37:GLY:N	2.32	0.44
17:CQ:59:ILE:HG22	17:CQ:60:ILE:N	2.32	0.44
17:CQ:68:ARG:N	17:CQ:70:ARG:NH1	2.64	0.44
25:D0:84:LEU:N	25:D0:84:LEU:CD1	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:50:VAL:O	28:D3:52:HIS:N	2.51	0.44
30:D5:40:LYS:HE3	30:D5:46:CYS:CB	2.47	0.44
33:D8:24:ALA:O	33:D8:46:ARG:HA	2.17	0.44
35:DA:271(P):C:H5'	59:DI:46:ALA:CB	2.48	0.44
35:DA:1142(A):A:O2'	35:DA:1143:A:H3'	2.17	0.44
35:DA:1638:C:H4'	35:DA:2710:C:O2	2.18	0.44
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.83	0.44
35:DA:1932:A:H2'	35:DA:1933:G:O4'	2.18	0.44
35:DA:2564:A:C2	35:DA:2647:U:H4'	2.53	0.44
35:DA:2861:G:O2'	35:DA:2862:G:H5'	2.17	0.44
36:DB:1:U:O2	36:DB:1:U:H2'	2.17	0.44
36:DB:104:U:O2'	58:DZ:72:ARG:HG3	2.18	0.44
37:DC:18:LYS:O	37:DC:22:ILE:HD11	2.18	0.44
37:DC:72:VAL:CG1	37:DC:74:VAL:HG23	2.46	0.44
38:DD:43:ARG:HB2	38:DD:49:ILE:HA	1.99	0.44
38:DD:94:LEU:HD13	38:DD:94:LEU:O	2.17	0.44
39:DE:66:HIS:HD2	39:DE:66:HIS:O	2.01	0.44
40:DF:7:TYR:HB3	40:DF:16:GLY:C	2.43	0.44
40:DF:107:LYS:C	40:DF:109:GLY:N	2.74	0.44
40:DF:129:PHE:HE1	40:DF:142:TRP:CH2	2.36	0.44
59:DI:60:GLU:O	59:DI:63:ALA:HB3	2.17	0.44
59:DI:109:ILE:HD13	59:DI:109:ILE:N	2.30	0.44
44:DJ:73:UNK:C	44:DJ:75:UNK:N	2.79	0.44
45:DK:129:GLY:C	45:DK:131:ALA:N	2.76	0.44
47:DO:104:ARG:CZ	52:DT:33:LYS:HD2	2.48	0.44
50:DR:18:LEU:O	50:DR:19:ALA:C	2.61	0.44
51:DS:87:PHE:CG	51:DS:88:ASP:N	2.86	0.44
53:DU:25:TRP:CG	53:DU:26:GLY:N	2.85	0.44
54:DV:91:TYR:H	54:DV:91:TYR:HD1	1.65	0.44
55:DW:47:VAL:O	55:DW:50:VAL:HG13	2.17	0.44
58:DZ:47:VAL:O	58:DZ:51:ALA:CB	2.65	0.44
1:AA:59:A:H61	1:AA:331:G:H1'	1.82	0.44
1:AA:985:C:H2'	1:AA:986:A:H8	1.82	0.44
1:AA:1105:A:O2'	1:AA:1106:G:H5'	2.18	0.44
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.17	0.44
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.33	0.44
1:AA:1324:A:H4'	1:AA:1362:C:O3'	2.18	0.44
2:AB:77:ALA:HB2	2:AB:211:ILE:CD1	2.34	0.44
2:AB:103:THR:CG2	2:AB:179:LYS:HD3	2.48	0.44
4:AD:73:ARG:HB2	4:AD:73:ARG:NH1	2.30	0.44
4:AD:159:ARG:O	4:AD:160:GLN:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:20:GLN:O	5:AE:21:ALA:C	2.61	0.44
5:AE:20:GLN:O	5:AE:23:GLY:O	2.35	0.44
5:AE:47:LYS:HD2	5:AE:47:LYS:H	1.83	0.44
7:AG:75:VAL:HG13	7:AG:145:ALA:CA	2.48	0.44
8:AH:97:VAL:HG13	8:AH:98:LYS:HG3	2.00	0.44
10:AJ:55:LYS:O	10:AJ:56:HIS:CG	2.71	0.44
12:AL:25:PRO:HD2	12:AL:98:TYR:OH	2.17	0.44
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	2.17	0.44
17:AQ:19:VAL:HG23	17:AQ:44:ALA:HB3	2.00	0.44
22:AV:72:C:C6	22:AV:72:C:C3'	3.00	0.44
22:AW:71:G:H2'	22:AW:72:C:O4'	2.17	0.44
23:AX:18:A:H5'	23:AX:19:U:OP1	2.17	0.44
29:B4:36:VAL:HB	29:B4:37:PRO:HD2	1.99	0.44
29:B4:63:SER:HB3	41:BG:107:LEU:O	2.18	0.44
30:B5:3:LYS:CG	30:B5:4:HIS:H	2.13	0.44
30:B5:46:CYS:SG	30:B5:47:PRO:CD	3.06	0.44
35:BA:327:G:H2'	35:BA:328:U:C6	2.53	0.44
35:BA:674:G:C1'	40:BF:74:ARG:HD2	2.35	0.44
35:BA:691:C:O4'	38:BD:43:ARG:NH2	2.50	0.44
35:BA:740:U:H2'	35:BA:741:G:H8	1.81	0.44
35:BA:1006:C:O2	46:BN:106:MET:HG2	2.17	0.44
35:BA:2178:C:H5'	37:BC:46:LYS:HB2	1.99	0.44
35:BA:2759:G:C2'	35:BA:2760:C:H5'	2.48	0.44
38:BD:43:ARG:O	38:BD:44:ASN:O	2.36	0.44
38:BD:244:ARG:HG2	38:BD:244:ARG:NH1	2.32	0.44
39:BE:82:ARG:HB3	39:BE:83:ASP:H	1.42	0.44
43:BI:12:LEU:HD22	43:BI:19:VAL:HG21	2.00	0.44
44:BJ:74:UNK:O	44:BJ:76:UNK:N	2.51	0.44
48:BP:33:ARG:C	48:BP:34:GLY:O	2.60	0.44
48:BP:131:SER:O	48:BP:132:LYS:C	2.60	0.44
50:BR:10:LEU:HD22	50:BR:17:ARG:CG	2.47	0.44
51:BS:57:LYS:CG	51:BS:58:LEU:H	2.19	0.44
54:BV:1:MET:HE1	54:BV:43:GLU:HG2	1.99	0.44
54:BV:40:LEU:HD22	54:BV:46:VAL:HA	2.00	0.44
57:BY:51:VAL:HG12	57:BY:51:VAL:O	2.18	0.44
1:CA:319:G:O2'	1:CA:320:C:H5'	2.17	0.44
1:CA:860:A:H2'	1:CA:861:G:O4'	2.18	0.44
1:CA:957:U:H4'	19:CS:79:THR:HB	1.99	0.44
1:CA:1117:G:O3'	9:CI:104:ARG:NH1	2.51	0.44
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.17	0.44
2:CB:116:GLU:HA	2:CB:119:GLU:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:73:ARG:HD2	4:CD:77:ASN:ND2	2.29	0.44
4:CD:92:VAL:O	4:CD:96:LEU:HD13	2.17	0.44
5:CE:20:GLN:O	5:CE:21:ALA:C	2.61	0.44
7:CG:50:ILE:HG22	7:CG:51:GLN:N	2.32	0.44
7:CG:101:LEU:O	7:CG:104:LEU:HB2	2.17	0.44
12:CL:86:ARG:HB3	12:CL:101:VAL:CG2	2.48	0.44
17:CQ:57:VAL:CG2	17:CQ:73:VAL:HG13	2.47	0.44
17:CQ:85:VAL:HG12	17:CQ:89:LEU:HG	1.99	0.44
18:CR:79:LEU:HA	18:CR:80:PRO:HD3	1.77	0.44
20:CT:24:LEU:O	20:CT:25:ARG:C	2.59	0.44
24:CY:316:LEU:HD21	24:CY:333:PRO:HB2	1.98	0.44
25:D0:48:GLY:C	25:D0:80:HIS:HB3	2.41	0.44
26:D1:30:VAL:HG12	35:DA:2396:G:H1'	1.98	0.44
31:D6:11:LEU:HD21	31:D6:26:ASN:HB2	2.00	0.44
31:D6:36:LEU:HA	31:D6:49:HIS:O	2.18	0.44
32:D7:12:ARG:HD3	32:D7:46:VAL:HG21	1.99	0.44
32:D7:45:ALA:O	32:D7:46:VAL:CG2	2.66	0.44
33:D8:25:MET:O	33:D8:26:LYS:C	2.59	0.44
33:D8:53:PRO:O	33:D8:54:GLU:C	2.60	0.44
35:DA:152:G:H2'	35:DA:153:C:C6	2.53	0.44
35:DA:305:U:H2'	35:DA:306:U:C6	2.52	0.44
35:DA:579:G:H2'	35:DA:580:C:C6	2.53	0.44
35:DA:844:C:C2'	35:DA:845:G:H5'	2.48	0.44
35:DA:999:U:O2'	35:DA:1000:A:H5"	2.18	0.44
35:DA:1665:A:C2'	35:DA:1666:G:H5'	2.48	0.44
35:DA:1799:G:H2'	38:DD:181:GLU:OE1	2.17	0.44
35:DA:1912:A:O2'	35:DA:1913:A:C5'	2.65	0.44
35:DA:2259:G:O2'	35:DA:2260:C:H5'	2.18	0.44
35:DA:2277:G:C2'	35:DA:2278:A:H5'	2.48	0.44
37:DC:40:THR:O	37:DC:42:GLU:HG3	2.17	0.44
40:DF:121:GLY:C	40:DF:123:LEU:H	2.25	0.44
40:DF:140:LEU:HD13	40:DF:170:LEU:HD21	1.99	0.44
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.99	0.44
40:DF:184:TYR:CE1	48:DP:7:ARG:NH2	2.86	0.44
45:DK:100:THR:OG1	45:DK:102:GLU:HG2	2.17	0.44
48:DP:49:ARG:O	48:DP:50:ARG:HB3	2.18	0.44
49:DQ:1:MET:O	49:DQ:2:LEU:HB3	2.17	0.44
49:DQ:14:ARG:HG2	49:DQ:41:TRP:HH2	1.83	0.44
49:DQ:39:PRO:O	49:DQ:40:ALA:HB2	2.18	0.44
49:DQ:42:ILE:CG2	49:DQ:47:ILE:HG13	2.48	0.44
50:DR:12:ARG:NE	50:DR:16:HIS:CE1	2.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:39:LEU:CB	54:DV:47:VAL:HG21	2.45	0.44
58:DZ:40:ASP:OD1	58:DZ:41:LEU:N	2.51	0.44
1:AA:16:A:N1	1:AA:919:A:H2	2.16	0.44
1:AA:154:C:H42	1:AA:167:G:H1	1.64	0.44
1:AA:402:G:O2'	1:AA:403:C:H5'	2.18	0.44
1:AA:426:G:H2'	1:AA:427:U:C6	2.52	0.44
1:AA:457:C:H2'	1:AA:458:C:C6	2.53	0.44
1:AA:784:C:H4'	35:BA:1837:C:OP1	2.18	0.44
1:AA:963:G:H21	10:AJ:55:LYS:NZ	2.14	0.44
1:AA:983:A:HO2'	1:AA:1049:U:HO2'	1.63	0.44
1:AA:1006:C:H2'	1:AA:1007:C:H6	1.76	0.44
1:AA:1228:C:P	13:AM:115:LYS:HE3	2.58	0.44
1:AA:1367:C:OP1	9:AI:115:GLY:N	2.44	0.44
1:AA:1476:G:H2'	1:AA:1477:C:H6	1.82	0.44
2:AB:44:LEU:HD12	2:AB:44:LEU:N	2.32	0.44
2:AB:75:LYS:C	2:AB:77:ALA:N	2.74	0.44
2:AB:220:ASP:CA	2:AB:223:ILE:HG12	2.42	0.44
4:AD:123:HIS:C	4:AD:125:HIS:H	2.24	0.44
11:AK:108:ILE:O	18:AR:87:ARG:N	2.48	0.44
12:AL:126:LYS:C	12:AL:128:ALA:N	2.76	0.44
13:AM:82:MET:SD	13:AM:83:ASP:N	2.91	0.44
24:AY:10:LEU:HB2	24:AY:102:TYR:CD1	2.52	0.44
24:AY:127:THR:HG22	24:AY:162:ALA:HB3	2.00	0.44
25:B0:27:GLU:HB3	35:BA:856:C:C1'	2.44	0.44
26:B1:49:VAL:HB	26:B1:60:PHE:HB2	1.99	0.44
32:B7:9:ARG:HH11	32:B7:9:ARG:HG3	1.82	0.44
33:B8:2:PRO:O	33:B8:3:LYS:HB3	2.17	0.44
35:BA:6:A:O2'	35:BA:7:G:H5'	2.18	0.44
35:BA:15:G:O2'	35:BA:16:G:H5'	2.17	0.44
35:BA:27:G:H22	35:BA:512:G:C2'	2.22	0.44
35:BA:27:G:C2'	35:BA:28:A:OP2	2.66	0.44
35:BA:39:C:O2'	35:BA:40:C:H5'	2.17	0.44
35:BA:979:G:H3'	35:BA:980:A:H5"	1.99	0.44
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.53	0.44
35:BA:2422:A:H4'	35:BA:2423:U:OP1	2.18	0.44
35:BA:2443:C:H2'	35:BA:2444:G:H8	1.83	0.44
35:BA:2777:G:H5"	35:BA:2778:A:H5'	1.99	0.44
38:BD:133:LEU:HD21	38:BD:191:ALA:HB2	2.00	0.44
38:BD:155:LEU:O	38:BD:156:ALA:C	2.61	0.44
39:BE:1:MET:N	39:BE:1:MET:HE2	2.32	0.44
39:BE:30:PRO:HD3	39:BE:180:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:89:ASP:O	39:BE:90:THR:O	2.36	0.44
41:BG:29:TRP:O	41:BG:31:VAL:N	2.51	0.44
41:BG:167:GLU:O	41:BG:171:ALA:N	2.41	0.44
42:BH:146:ALA:CA	42:BH:149:ARG:HB3	2.48	0.44
42:BH:160:LYS:HB2	42:BH:161:GLY:H	1.54	0.44
43:BI:15:VAL:CG1	43:BI:16:GLY:N	2.81	0.44
46:BN:35:ARG:O	46:BN:42:TRP:HZ3	1.98	0.44
46:BN:69:GLN:O	46:BN:71:ILE:HG13	2.17	0.44
48:BP:75:ILE:H	48:BP:75:ILE:HD12	1.82	0.44
48:BP:87:ASP:C	48:BP:89:ALA:N	2.76	0.44
49:BQ:27:VAL:HG12	58:BZ:81:ARG:NH2	2.33	0.44
49:BQ:47:ILE:CD1	49:BQ:70:PRO:HD3	2.47	0.44
49:BQ:141:GLN:NE2	58:BZ:53:ILE:HG21	2.33	0.44
52:BT:57:PHE:O	52:BT:58:ASN:C	2.61	0.44
58:BZ:27:VAL:HG13	58:BZ:29:TYR:CD2	2.53	0.44
58:BZ:137:ILE:CG2	58:BZ:138:GLU:N	2.81	0.44
1:CA:152:A:H62	1:CA:169:C:H42	1.66	0.44
1:CA:181:G:H21	1:CA:183:G:N2	2.16	0.44
1:CA:216:G:H2'	1:CA:217:C:O4'	2.18	0.44
1:CA:648:A:H2'	1:CA:649:G:H8	1.82	0.44
1:CA:802:A:H2'	1:CA:803:G:C5'	2.48	0.44
1:CA:1076:C:N3	1:CA:1082:G:C2	2.86	0.44
1:CA:1091:U:H2'	1:CA:1093:A:OP2	2.18	0.44
2:CB:87:ARG:HH12	2:CB:223:ILE:HD13	1.78	0.44
2:CB:111:ARG:HG2	2:CB:111:ARG:NH1	2.33	0.44
5:CE:15:ARG:HG2	5:CE:26:PHE:HD2	1.83	0.44
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.17	0.44
8:CH:11:THR:O	8:CH:15:ASN:ND2	2.51	0.44
9:CI:40:LEU:C	9:CI:42:ARG:H	2.25	0.44
9:CI:114:TYR:HE1	10:CJ:60:ARG:N	2.14	0.44
10:CJ:16:LEU:C	10:CJ:18:ALA:N	2.73	0.44
10:CJ:47:PHE:CD1	10:CJ:47:PHE:O	2.70	0.44
10:CJ:51:ARG:HG3	10:CJ:60:ARG:HA	1.99	0.44
19:CS:5:LEU:H	19:CS:6:LYS:HZ1	1.65	0.44
20:CT:53:LEU:O	20:CT:54:LYS:C	2.60	0.44
22:CV:65:G:O2'	22:CV:66:U:H5'	2.17	0.44
22:CW:3:C:O5'	22:CW:3:C:H6	2.00	0.44
24:CY:336:VAL:C	24:CY:338:ASP:N	2.76	0.44
25:D0:73:GLY:C	25:D0:75:LEU:H	2.25	0.44
26:D1:80:LEU:HD13	26:D1:82:LEU:HG	1.98	0.44
27:D2:50:ILE:HD12	27:D2:50:ILE:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:4:HIS:C	35:DA:2056:G:H22	2.26	0.44
31:D6:24:GLU:HA	31:D6:24:GLU:OE1	2.17	0.44
31:D6:30:THR:O	31:D6:32:ASN:N	2.50	0.44
33:D8:60:LEU:O	33:D8:63:PRO:HG2	2.17	0.44
35:DA:94:C:H5'	35:DA:94(A):G:OP2	2.17	0.44
35:DA:598:G:H4'	48:DP:15:ARG:HB3	2.00	0.44
35:DA:630:G:N2	35:DA:633:A:OP2	2.47	0.44
35:DA:1056:G:H4'	35:DA:1086:A:C8	2.52	0.44
35:DA:1080:C:H2'	35:DA:1081:U:C6	2.47	0.44
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.82	0.44
35:DA:1373:A:O2'	35:DA:1374:G:H5'	2.18	0.44
35:DA:1655:A:H3'	35:DA:1656:C:C6	2.52	0.44
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.17	0.44
35:DA:1963:U:O2	35:DA:1963:U:C2'	2.63	0.44
35:DA:2197:U:O2'	35:DA:2198:A:H5"	2.17	0.44
35:DA:2887:U:H2'	35:DA:2888:C:C6	2.52	0.44
38:DD:44:ASN:OD1	38:DD:44:ASN:C	2.60	0.44
38:DD:131:LEU:HD12	38:DD:131:LEU:C	2.43	0.44
38:DD:148:GLU:HB3	38:DD:149:PRO:HD2	1.98	0.44
40:DF:7:TYR:HD2	40:DF:16:GLY:N	2.08	0.44
40:DF:8:GLN:HB2	40:DF:126:VAL:HA	1.99	0.44
41:DG:131:TYR:HB3	41:DG:159:VAL:HG22	1.99	0.44
47:DO:45:GLU:O	47:DO:45:GLU:HG3	2.18	0.44
50:DR:49:ASP:O	50:DR:52:ILE:HB	2.17	0.44
52:DT:67:SER:O	52:DT:68:TYR:HB2	2.17	0.44
53:DU:98:LEU:HD21	54:DV:2:PHE:CZ	2.52	0.44
54:DV:4:ILE:HB	54:DV:39:LEU:O	2.17	0.44
57:DY:89:PHE:O	57:DY:90:LEU:CB	2.63	0.44
1:AA:66:G:H21	1:AA:172:A:H2	1.64	0.44
1:AA:532:A:C2	1:AA:1207:G:H1'	2.52	0.44
1:AA:539:A:H2'	1:AA:540:G:C8	2.53	0.44
1:AA:860:A:H2'	1:AA:861:G:O4'	2.18	0.44
1:AA:940:C:H2'	1:AA:941:G:C8	2.53	0.44
1:AA:977:A:C2'	1:AA:978:A:H5'	2.48	0.44
1:AA:1068:G:OP2	1:AA:1094:G:H5'	2.17	0.44
1:AA:1316:G:H2'	1:AA:1317:C:H5"	2.00	0.44
1:AA:1500:A:OP2	1:AA:1505:G:OP1	2.36	0.44
2:AB:73:THR:HG22	2:AB:95:GLN:O	2.18	0.44
2:AB:114:ARG:CZ	2:AB:118:LEU:HD21	2.48	0.44
3:AC:165:THR:HG22	3:AC:165:THR:O	2.16	0.44
8:AH:121:ASP:OD1	8:AH:121:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:99:LYS:O	10:AJ:100:THR:HG23	2.18	0.44
12:AL:117:ARG:NH2	12:AL:124:LYS:HA	2.33	0.44
17:AQ:12:SER:N	17:AQ:53:LEU:HD13	2.32	0.44
17:AQ:70:ARG:O	17:AQ:71:PHE:CG	2.71	0.44
19:AS:13:ASP:O	19:AS:15:LEU:N	2.51	0.44
19:AS:52:TYR:HA	19:AS:56:GLN:O	2.18	0.44
22:AW:54:U:H2'	22:AW:55:U:H5'	2.00	0.44
24:AY:33:LEU:HG	45:BK:29:GLN:NE2	2.32	0.44
24:AY:33:LEU:HD13	35:BA:1095:A:N6	2.33	0.44
24:AY:355:ARG:H	24:AY:355:ARG:HD2	1.83	0.44
25:B0:78:TYR:N	25:B0:78:TYR:CD1	2.86	0.44
26:B1:73:LEU:HD22	26:B1:94:LEU:HD23	1.98	0.44
27:B2:2:LYS:HA	27:B2:2:LYS:NZ	2.33	0.44
27:B2:64:LEU:HD23	27:B2:64:LEU:C	2.42	0.44
30:B5:48:GLU:C	30:B5:50:GLY:N	2.64	0.44
34:B9:11:CYS:HB3	34:B9:12:ASP:H	1.62	0.44
35:BA:37:C:H2'	35:BA:38:A:H8	1.81	0.44
35:BA:1309:G:O2'	35:BA:1310:G:H5'	2.17	0.44
35:BA:1568:G:H4'	38:BD:59:LYS:HB3	1.99	0.44
35:BA:1827:C:C2'	35:BA:1828:G:C5'	2.92	0.44
35:BA:1902:C:O2'	38:BD:244:ARG:HD3	2.17	0.44
35:BA:1926:U:H2'	35:BA:1928:A:OP2	2.17	0.44
35:BA:2070:G:C2	35:BA:2442:C:C2	3.05	0.44
35:BA:2192:G:C2	35:BA:2193:G:C8	3.06	0.44
35:BA:2243:U:O2	35:BA:2434:A:C2	2.71	0.44
35:BA:2459:A:C5	35:BA:2460:U:C5	3.06	0.44
35:BA:2507:C:C2	35:BA:2508:G:C8	3.06	0.44
36:BB:29:A:H2'	36:BB:30:C:C6	2.53	0.44
36:BB:88:C:H2'	36:BB:89:G:O4'	2.18	0.44
37:BC:86:ALA:HB3	37:BC:94:VAL:HG21	1.99	0.44
37:BC:192:PHE:HA	37:BC:196:LEU:CB	2.48	0.44
38:BD:142:VAL:CG2	38:BD:143:HIS:N	2.81	0.44
39:BE:17:ASP:C	39:BE:17:ASP:OD2	2.60	0.44
40:BF:108:LYS:O	40:BF:112:MET:HB2	2.18	0.44
40:BF:129:PHE:CE1	40:BF:142:TRP:CH2	3.06	0.44
41:BG:115:ARG:H	41:BG:115:ARG:CD	2.22	0.44
41:BG:120:LEU:HB2	41:BG:180:PHE:HD2	1.82	0.44
42:BH:92:ILE:O	42:BH:94:TYR:N	2.49	0.44
44:BJ:71:UNK:O	44:BJ:72:UNK:O	2.36	0.44
44:BJ:110:UNK:O	44:BJ:111:UNK:CB	2.65	0.44
45:BK:7:VAL:O	45:BK:8:VAL:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:20:ALA:N	45:BK:21:PRO:CD	2.81	0.44
45:BK:55:VAL:CG2	45:BK:67:PHE:HB2	2.48	0.44
46:BN:90:MET:HA	46:BN:93:THR:HG22	1.99	0.44
49:BQ:11:LYS:HE2	49:BQ:88:GLY:O	2.18	0.44
49:BQ:60:ARG:HA	58:BZ:178:GLU:O	2.18	0.44
52:BT:23:ARG:HA	52:BT:52:ILE:CD1	2.46	0.44
55:BW:69:LEU:HA	55:BW:108:GLY:O	2.17	0.44
55:BW:99:ARG:NH1	55:BW:99:ARG:HG2	2.32	0.44
1:CA:35:G:N2	12:CL:118:SER:OG	2.37	0.44
1:CA:185:A:N3	20:CT:81:LYS:NZ	2.63	0.44
1:CA:429:U:H1'	1:CA:430:A:H5"	1.98	0.44
1:CA:515:G:C2	1:CA:537:G:C2	3.06	0.44
1:CA:729:A:H2'	1:CA:730:G:H8	1.82	0.44
1:CA:754:C:H1'	15:CO:69:TYR:CG	2.53	0.44
1:CA:940:C:H2'	1:CA:941:G:C8	2.52	0.44
1:CA:1001:A:N3	1:CA:1001(A):G:N7	2.66	0.44
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.30	0.44
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.83	0.44
1:CA:1104:G:O5'	2:CB:111:ARG:HD2	2.17	0.44
1:CA:1126:U:P	1:CA:1126:U:H6	2.41	0.44
2:CB:177:ALA:O	2:CB:180:LEU:N	2.50	0.44
4:CD:91:SER:O	4:CD:94:LEU:HB2	2.18	0.44
4:CD:170:VAL:HG22	4:CD:171:GLY:H	1.82	0.44
5:CE:126:ARG:NH1	5:CE:126:ARG:CG	2.80	0.44
8:CH:40:ALA:HB2	8:CH:45:ILE:HG13	2.00	0.44
10:CJ:9:ARG:NH2	10:CJ:95:GLU:HG2	2.33	0.44
10:CJ:38:ILE:N	10:CJ:71:LEU:O	2.50	0.44
11:CK:126:ARG:HB3	11:CK:126:ARG:CZ	2.48	0.44
12:CL:119:LYS:HB2	12:CL:120:TYR:HD1	1.83	0.44
13:CM:44:ARG:CB	13:CM:46:LYS:HG2	2.47	0.44
13:CM:111:LYS:O	13:CM:112:GLY:C	2.60	0.44
16:CP:53:VAL:CG1	16:CP:79:VAL:HG22	2.43	0.44
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.82	0.44
20:CT:82:SER:O	20:CT:86:ARG:HB2	2.17	0.44
25:D0:32:ARG:N	25:D0:35:ASN:ND2	2.54	0.44
26:D1:12:PRO:HB3	26:D1:43:TYR:CD2	2.51	0.44
35:DA:422:A:C6	35:DA:423:A:C6	3.06	0.44
35:DA:557:U:O2	46:DN:45:ASN:HB2	2.17	0.44
35:DA:742:G:O2'	35:DA:743:G:H5'	2.18	0.44
35:DA:975(A):G:H1'	35:DA:990:A:C2	2.53	0.44
35:DA:1401:G:H2'	35:DA:1402:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1560:G:N2	35:DA:1561:G:H1'	2.32	0.44
35:DA:1858:G:HO2'	35:DA:1859:A:H8	1.63	0.44
35:DA:2511:U:O4	35:DA:2575:C:N3	2.51	0.44
35:DA:2791:C:H4'	35:DA:2792:G:O5'	2.16	0.44
41:DG:138:GLN:OE1	41:DG:153:ARG:N	2.51	0.44
59:DI:14:ASP:HB2	59:DI:17:GLN:OE1	2.18	0.44
44:DJ:70:UNK:C	44:DJ:72:UNK:N	2.81	0.44
45:DK:7:VAL:O	45:DK:8:VAL:HG13	2.18	0.44
46:DN:35:ARG:O	46:DN:36:GLY:C	2.59	0.44
47:DO:34:THR:O	47:DO:35:VAL:C	2.61	0.44
48:DP:83:VAL:O	48:DP:83:VAL:HG13	2.17	0.44
50:DR:103:ARG:HB2	50:DR:109:ALA:C	2.43	0.44
52:DT:28:VAL:CG2	52:DT:47:GLY:N	2.71	0.44
56:DX:36:LYS:HA	56:DX:39:ILE:CG1	2.48	0.44
58:DZ:52:SER:OG	58:DZ:53:ILE:N	2.51	0.44
58:DZ:87:ASP:OD2	58:DZ:87:ASP:N	2.51	0.44
1:AA:277:C:H2'	1:AA:278:G:H8	1.83	0.43
1:AA:295:C:H2'	1:AA:296:U:H6	1.82	0.43
1:AA:560:U:H4'	1:AA:561:U:C5'	2.46	0.43
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.52	0.43
2:AB:91:PRO:HG3	2:AB:155:LEU:HD23	2.00	0.43
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.18	0.43
7:AG:5:ARG:C	7:AG:7:ALA:H	2.26	0.43
8:AH:33:GLU:C	8:AH:35:ILE:N	2.76	0.43
9:AI:4:TYR:N	9:AI:4:TYR:HD1	2.16	0.43
9:AI:20:ARG:O	9:AI:60:ASP:N	2.51	0.43
9:AI:59:PHE:O	9:AI:61:ALA:N	2.51	0.43
11:AK:70:LYS:HA	11:AK:73:MET:HG2	2.00	0.43
12:AL:42:THR:O	12:AL:42:THR:HG23	2.18	0.43
16:AP:17:TYR:N	16:AP:17:TYR:CD1	2.86	0.43
19:AS:29:ARG:C	19:AS:29:ARG:CD	2.87	0.43
22:AW:8:U:OP2	22:AW:12:U:H5	2.01	0.43
22:AW:63:G:H5'	37:BC:52:ARG:O	2.18	0.43
24:AY:82:GLU:C	24:AY:84:ARG:N	2.76	0.43
24:AY:193:SER:OG	24:AY:202:HIS:HB2	2.18	0.43
25:B0:41:ARG:HD3	25:B0:44:ARG:CD	2.48	0.43
27:B2:28:LYS:HB3	27:B2:57:ILE:HD13	2.00	0.43
27:B2:35:LEU:HD11	27:B2:49:LYS:HB3	1.99	0.43
35:BA:195:A:H5"	35:BA:196:A:OP2	2.18	0.43
35:BA:528:A:H2	35:BA:2043:C:O5'	2.01	0.43
35:BA:654:A:H1'	35:BA:654(A):G:H1'	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:703:U:C2'	35:BA:704:G:H5'	2.48	0.43
35:BA:1286:A:H2'	35:BA:1288:U:OP2	2.18	0.43
35:BA:1437:C:H2'	35:BA:1438:U:H6	1.82	0.43
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.71	0.43
35:BA:2011:U:H2'	35:BA:2012:G:H5'	2.00	0.43
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.53	0.43
35:BA:2617:C:H2'	35:BA:2618:G:C5'	2.48	0.43
35:BA:2695:C:H2'	35:BA:2696:U:H6	1.82	0.43
35:BA:2808:U:H2'	35:BA:2809:A:C5'	2.48	0.43
38:BD:72:LYS:HE2	38:BD:101:GLU:OE1	2.18	0.43
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	2.00	0.43
39:BE:111:ARG:HA	50:BR:2:ARG:CD	2.47	0.43
41:BG:72:ARG:NH1	41:BG:86:MET:HA	2.32	0.43
41:BG:78:SER:O	41:BG:79:ASN:C	2.60	0.43
42:BH:58:GLU:O	42:BH:59:ARG:C	2.61	0.43
42:BH:85:LYS:HE2	42:BH:145:ALA:CB	2.48	0.43
44:BJ:70:UNK:C	44:BJ:72:UNK:N	2.81	0.43
48:BP:101:VAL:C	48:BP:103:ALA:H	2.26	0.43
50:BR:104:ARG:HH11	50:BR:104:ARG:HB2	1.77	0.43
52:BT:54:ARG:HA	52:BT:59:THR:HB	2.00	0.43
52:BT:100:TYR:CD2	52:BT:103:ARG:NH2	2.77	0.43
52:BT:131:ALA:C	52:BT:133:GLU:H	2.26	0.43
56:BX:54:VAL:HG22	56:BX:81:VAL:HG12	2.00	0.43
58:BZ:74:VAL:HG22	58:BZ:86:VAL:HG12	2.00	0.43
58:BZ:97:GLU:HB3	58:BZ:125:LEU:CD1	2.39	0.43
1:CA:7:G:O2'	5:CE:120:THR:O	2.36	0.43
1:CA:189(F):U:C2	17:CQ:72:ARG:NH1	2.86	0.43
1:CA:373:A:C4	1:CA:482:A:N7	2.86	0.43
1:CA:472:A:C2'	1:CA:473:G:H5'	2.47	0.43
1:CA:724:G:C2	1:CA:725:G:C8	3.06	0.43
1:CA:1076:C:O2'	1:CA:1077:G:H5'	2.17	0.43
1:CA:1223:C:H3'	1:CA:1224:G:H5"	2.00	0.43
1:CA:1291:G:OP1	7:CG:37:ASN:ND2	2.51	0.43
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.18	0.43
2:CB:30:ARG:HH21	2:CB:194:PRO:CB	2.31	0.43
2:CB:103:THR:CG2	2:CB:179:LYS:HD3	2.48	0.43
8:CH:33:GLU:O	8:CH:35:ILE:N	2.51	0.43
8:CH:36:LEU:HA	8:CH:39:LEU:HD23	1.99	0.43
9:CI:23:ASN:N	9:CI:23:ASN:ND2	2.66	0.43
10:CJ:64:GLU:HG2	14:CN:59:ALA:HB2	1.99	0.43
17:CQ:45:HIS:CG	17:CQ:65:ILE:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:174:GLU:OE2	24:CY:175:ASN:HB2	2.18	0.43
29:D4:36:VAL:HG22	29:D4:52:SER:O	2.18	0.43
29:D4:51:TYR:C	29:D4:52:SER:HG	2.24	0.43
30:D5:3:LYS:HB2	35:DA:747:U:H5	1.80	0.43
35:DA:27:G:O2'	35:DA:28:A:P	2.76	0.43
35:DA:312:G:H5'	35:DA:331:A:O2'	2.18	0.43
35:DA:784:A:C6	38:DD:229:VAL:HG21	2.53	0.43
35:DA:960:A:C8	35:DA:962:G:C8	3.06	0.43
35:DA:1563:G:O2'	35:DA:1564:C:H5'	2.18	0.43
35:DA:2020:A:OP1	53:DU:26:GLY:HA3	2.17	0.43
35:DA:2136:C:H2'	35:DA:2137:C:C6	2.53	0.43
38:DD:111:LEU:HA	38:DD:115:GLN:OE1	2.18	0.43
38:DD:223:GLY:C	38:DD:225:ALA:N	2.76	0.43
39:DE:111:ARG:HA	50:DR:2:ARG:CD	2.47	0.43
39:DE:151:TYR:HD2	39:DE:154:LYS:HZ3	1.66	0.43
44:DJ:72:UNK:O	44:DJ:73:UNK:CB	2.66	0.43
48:DP:11:GLY:O	48:DP:12:ALA:C	2.61	0.43
49:DQ:137:TYR:CD1	49:DQ:138:ASP:N	2.86	0.43
50:DR:25:ALA:O	50:DR:26:LYS:C	2.60	0.43
51:DS:34:HIS:HB3	51:DS:53:SER:HB3	2.00	0.43
51:DS:66:ALA:C	51:DS:69:VAL:HG12	2.38	0.43
52:DT:14:TYR:HD1	52:DT:14:TYR:H	1.64	0.43
53:DU:92:ARG:NH2	54:DV:11:GLN:O	2.51	0.43
54:DV:35:LEU:HB2	54:DV:57:VAL:HG13	2.00	0.43
54:DV:78:LYS:C	54:DV:79:VAL:CG2	2.91	0.43
58:DZ:61:LEU:O	58:DZ:62:PRO:C	2.61	0.43
58:DZ:145:GLU:O	58:DZ:146:ILE:C	2.60	0.43
1:AA:39:G:C5	1:AA:498:U:O4	2.72	0.43
1:AA:152:A:H62	1:AA:169:C:H42	1.66	0.43
1:AA:181:G:H21	1:AA:183:G:N2	2.16	0.43
1:AA:233:C:H2'	1:AA:234:C:H6	1.82	0.43
1:AA:599:C:H4'	8:AH:130:GLY:C	2.43	0.43
1:AA:648:A:H2'	1:AA:649:G:H8	1.83	0.43
1:AA:862:C:H2'	1:AA:863:U:C5'	2.47	0.43
1:AA:1007:C:H2'	1:AA:1008:C:H6	1.82	0.43
1:AA:1187:G:H4'	9:AI:111:ARG:NH1	2.33	0.43
2:AB:14:GLY:HA3	2:AB:16:HIS:HE1	1.82	0.43
2:AB:36:ARG:HB2	2:AB:41:ILE:HD11	1.99	0.43
2:AB:79:ASP:C	2:AB:81:VAL:H	2.25	0.43
2:AB:185:ILE:HD11	2:AB:199:TYR:CD1	2.50	0.43
2:AB:187:LEU:CD2	2:AB:201:ILE:HG22	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:28:GLN:C	3:AC:30:ARG:N	2.75	0.43
7:AG:15:ASP:C	7:AG:17:VAL:H	2.25	0.43
8:AH:29:SER:O	8:AH:32:LYS:N	2.51	0.43
8:AH:56:LYS:HA	8:AH:57:PRO:HD2	1.75	0.43
8:AH:125:ARG:HG3	8:AH:125:ARG:HH11	1.82	0.43
13:AM:15:VAL:CG1	13:AM:45:VAL:HG22	2.45	0.43
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.99	0.43
17:AQ:68:ARG:H	17:AQ:70:ARG:HH12	1.63	0.43
22:AW:47:U:O2'	22:AW:48:C:H5'	2.18	0.43
24:AY:11:GLU:O	24:AY:12:GLY:C	2.62	0.43
24:AY:23:GLU:HG3	24:AY:24:THR:N	2.32	0.43
24:AY:68:ASP:OD2	24:AY:91:LEU:HD21	2.19	0.43
24:AY:136:LEU:HD11	24:AY:187:HIS:HB2	2.01	0.43
24:AY:284:TYR:O	24:AY:288:ARG:N	2.51	0.43
26:B1:86:SER:O	26:B1:90:ILE:CG1	2.66	0.43
35:BA:26:G:C6	35:BA:27:G:N1	2.85	0.43
35:BA:324:A:H2'	35:BA:325:G:C5'	2.49	0.43
35:BA:455:C:N3	35:BA:472:A:H2'	2.32	0.43
35:BA:829:A:N7	35:BA:2248:C:H5'	2.33	0.43
35:BA:924:C:H2'	35:BA:925:C:H6	1.83	0.43
35:BA:1351:C:H2'	35:BA:1352:U:C6	2.53	0.43
35:BA:1374:G:H2'	35:BA:1375:C:O4'	2.18	0.43
35:BA:1374:G:C2	35:BA:1375:C:C2	3.06	0.43
35:BA:1991:U:C2'	35:BA:1992:G:H5"	2.48	0.43
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.53	0.43
38:BD:25:THR:HG21	38:BD:82:ILE:N	2.31	0.43
39:BE:72:VAL:O	39:BE:73:GLU:C	2.61	0.43
39:BE:116:VAL:HG22	39:BE:122:PHE:HB2	2.01	0.43
39:BE:131:ALA:C	39:BE:133:LYS:N	2.63	0.43
40:BF:1:MET:O	40:BF:2:LYS:O	2.36	0.43
40:BF:5:ALA:N	40:BF:18:ARG:O	2.51	0.43
40:BF:139:PHE:CG	40:BF:167:ALA:HB2	2.53	0.43
45:BK:105:LEU:HD21	45:BK:120:LEU:HD13	2.00	0.43
46:BN:108:PRO:O	46:BN:113:GLY:HA3	2.18	0.43
47:BO:23:ARG:NH1	47:BO:23:ARG:HG2	2.33	0.43
48:BP:59:LEU:CA	48:BP:61:ARG:NE	2.70	0.43
52:BT:112:ARG:HB3	52:BT:112:ARG:NH1	2.33	0.43
53:BU:29:SER:C	53:BU:30:LYS:HD3	2.43	0.43
1:CA:545:C:O2'	1:CA:546:G:H5'	2.18	0.43
1:CA:976:G:N2	1:CA:1363:C:OP2	2.46	0.43
1:CA:1476:G:H2'	1:CA:1477:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:39:ILE:HG22	2:CB:40:HIS:H	1.82	0.43
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.83	0.43
3:CC:138:VAL:C	3:CC:140:ARG:N	2.74	0.43
6:CF:46:ARG:HH22	18:CR:37:VAL:HG21	1.83	0.43
7:CG:46:ALA:C	7:CG:48:LYS:N	2.75	0.43
8:CH:103:VAL:O	8:CH:105:ARG:N	2.51	0.43
8:CH:125:ARG:HH11	8:CH:125:ARG:HG3	1.82	0.43
10:CJ:83:GLU:C	10:CJ:85:LEU:N	2.76	0.43
10:CJ:83:GLU:C	10:CJ:85:LEU:H	2.25	0.43
12:CL:5:PRO:HA	12:CL:9:GLN:OE1	2.18	0.43
22:CW:39:U:C2'	22:CW:40:C:C5'	2.95	0.43
22:CW:55:U:C4	22:CW:57:G:H5'	2.53	0.43
24:CY:253:HIS:HB3	24:CY:258:ILE:CG1	2.48	0.43
24:CY:339:GLY:C	24:CY:341:LEU:H	2.26	0.43
25:D0:69:PHE:CD2	25:D0:79:VAL:HG22	2.53	0.43
27:D2:30:ARG:O	27:D2:31:GLU:C	2.59	0.43
30:D5:40:LYS:HE3	30:D5:46:CYS:CA	2.45	0.43
31:D6:37:ARG:CG	31:D6:37:ARG:NH1	2.80	0.43
33:D8:30:ARG:HA	33:D8:30:ARG:HD3	1.63	0.43
34:D9:30:PRO:HB2	35:DA:2527:C:C5'	2.46	0.43
35:DA:654(Q):C:H2'	35:DA:654(R):C:H6	1.82	0.43
35:DA:1145:C:H2'	35:DA:1146:C:C6	2.52	0.43
35:DA:1423:G:H2'	35:DA:1424:G:H8	1.83	0.43
35:DA:1770:G:O2'	35:DA:1771:C:H5'	2.18	0.43
35:DA:2617:C:H2'	35:DA:2618:G:C5'	2.48	0.43
35:DA:2673:G:O2'	35:DA:2674:G:H5'	2.18	0.43
38:DD:142:VAL:CG2	38:DD:143:HIS:N	2.81	0.43
38:DD:223:GLY:O	38:DD:225:ALA:N	2.51	0.43
39:DE:3:GLY:HA3	39:DE:81:ILE:CG2	2.40	0.43
39:DE:3:GLY:CA	39:DE:81:ILE:HG21	2.43	0.43
39:DE:119:ARG:HD3	39:DE:120:TRP:CE2	2.54	0.43
40:DF:164:ARG:HG2	40:DF:164:ARG:NH1	2.33	0.43
41:DG:103:LEU:O	41:DG:107:LEU:HD23	2.17	0.43
41:DG:155:MET:HE3	41:DG:157:ILE:CG2	2.48	0.43
41:DG:178:PHE:HA	41:DG:179:PRO:HD3	1.84	0.43
42:DH:98:LEU:N	42:DH:125:VAL:HG21	2.32	0.43
47:DO:47:ILE:HG23	47:DO:48:PRO:CD	2.48	0.43
48:DP:46:LYS:HG2	48:DP:52:GLU:CD	2.43	0.43
50:DR:34:ILE:CG2	50:DR:35:THR:N	2.81	0.43
51:DS:35:ILE:C	51:DS:36:TYR:HD1	2.26	0.43
51:DS:91:PRO:O	51:DS:92:TYR:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:28:VAL:HG22	52:DT:46:GLU:CA	2.48	0.43
54:DV:40:LEU:HD22	54:DV:46:VAL:HA	2.00	0.43
56:DX:88:LYS:HE3	56:DX:93:GLU:CG	2.45	0.43
57:DY:38:ILE:HG22	57:DY:39:VAL:N	2.33	0.43
1:AA:55:A:C2	59:DI:89:TYR:CG	3.06	0.43
1:AA:190:U:H2'	1:AA:191:G:C8	2.48	0.43
1:AA:384:G:O2'	1:AA:385:C:H5'	2.19	0.43
1:AA:437:U:O2'	1:AA:438:G:H5'	2.18	0.43
1:AA:580:U:H2'	1:AA:581:G:O4'	2.18	0.43
1:AA:924:C:O2'	1:AA:1502:A:N6	2.51	0.43
1:AA:1191:A:H5"	3:AC:4:LYS:NZ	2.32	0.43
1:AA:1350:A:OP2	9:AI:118:LYS:HD3	2.18	0.43
2:AB:161:ALA:HA	2:AB:182:ILE:CG2	2.48	0.43
5:AE:12:LEU:HD13	5:AE:12:LEU:C	2.43	0.43
6:AF:19:LEU:CD2	6:AF:23:LYS:HD2	2.49	0.43
7:AG:57:GLU:N	7:AG:57:GLU:CD	2.76	0.43
8:AH:35:ILE:O	8:AH:39:LEU:HD23	2.18	0.43
8:AH:111:ILE:HG22	8:AH:112:LEU:N	2.33	0.43
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	2.18	0.43
10:AJ:70:ARG:HE	10:AJ:70:ARG:CA	2.28	0.43
15:AO:32:LEU:O	15:AO:35:ARG:N	2.51	0.43
19:AS:6:LYS:HD2	19:AS:7:LYS:N	2.32	0.43
22:AV:36:A:C2	23:AX:20:U:C2	3.06	0.43
24:AY:31:ARG:HA	45:BK:25:PRO:HG3	2.00	0.43
24:AY:113:GLU:HA	24:AY:175:ASN:CA	2.48	0.43
24:AY:174:GLU:HG2	24:AY:175:ASN:HD22	1.84	0.43
25:B0:32:ARG:N	25:B0:35:ASN:ND2	2.53	0.43
25:B0:49:LYS:N	25:B0:80:HIS:CB	2.74	0.43
26:B1:56:GLN:NE2	26:B1:56:GLN:CA	2.74	0.43
27:B2:10:LEU:O	27:B2:11:GLU:C	2.61	0.43
30:B5:45:VAL:HG13	30:B5:50:GLY:O	2.18	0.43
35:BA:580:C:H2'	35:BA:581:C:H6	1.83	0.43
35:BA:803:U:C2'	35:BA:804:A:H5'	2.48	0.43
35:BA:888:C:O2'	35:BA:889:C:H5'	2.18	0.43
35:BA:958:U:H3'	35:BA:958:U:C6	2.53	0.43
35:BA:1665:A:C2'	35:BA:1666:G:H5'	2.48	0.43
35:BA:2863:C:H2'	35:BA:2864:G:H8	1.82	0.43
36:BB:95:C:C2	36:BB:96:U:C5	3.06	0.43
38:BD:133:LEU:HD23	38:BD:136:ILE:HD12	2.01	0.43
40:BF:83:PHE:O	40:BF:84:VAL:CB	2.67	0.43
41:BG:63:ILE:HD13	41:BG:141:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BJ:73:UNK:C	44:BJ:75:UNK:N	2.79	0.43
46:BN:18:ALA:HB1	46:BN:21:LYS:HB2	2.01	0.43
47:BO:97:ARG:HG3	47:BO:97:ARG:HH11	1.83	0.43
48:BP:7:ARG:HH11	48:BP:7:ARG:CG	2.27	0.43
51:BS:26:LEU:HG	51:BS:39:ILE:HD11	2.00	0.43
51:BS:34:HIS:HB3	51:BS:53:SER:HB3	2.00	0.43
51:BS:87:PHE:CG	51:BS:88:ASP:N	2.86	0.43
52:BT:27:THR:OG1	52:BT:28:VAL:N	2.50	0.43
55:BW:27:LYS:O	55:BW:28:SER:C	2.61	0.43
58:BZ:28:MET:HE2	58:BZ:37:VAL:CG1	2.49	0.43
58:BZ:44:PHE:CD1	58:BZ:44:PHE:C	2.96	0.43
1:CA:431:A:O2'	1:CA:432:A:H5'	2.18	0.43
1:CA:658:G:OP1	15:CO:31:LEU:HD21	2.18	0.43
1:CA:1007:C:H2'	1:CA:1008:C:H6	1.83	0.43
3:CC:22:TRP:CZ2	14:CN:54:PRO:HG2	2.53	0.43
3:CC:113:ALA:O	3:CC:114:PRO:C	2.62	0.43
5:CE:19:MET:SD	5:CE:24:ARG:HB3	2.59	0.43
5:CE:103:GLY:C	5:CE:105:VAL:H	2.26	0.43
7:CG:75:VAL:HG13	7:CG:145:ALA:CA	2.48	0.43
7:CG:81:GLY:C	7:CG:83:ALA:N	2.76	0.43
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	2.19	0.43
10:CJ:29:ARG:CZ	10:CJ:29:ARG:HB3	2.49	0.43
11:CK:111:ASP:OD2	11:CK:111:ASP:C	2.60	0.43
12:CL:88:GLY:H	12:CL:98:TYR:HA	1.83	0.43
13:CM:84:ILE:HG13	19:CS:66:MET:HE2	2.01	0.43
16:CP:12:LYS:O	16:CP:13:HIS:HB2	2.17	0.43
17:CQ:87:LYS:O	17:CQ:91:ARG:HB2	2.18	0.43
18:CR:40:LEU:C	18:CR:42:ARG:N	2.75	0.43
22:CW:17:C:H5	35:DA:2181:G:H5'	1.83	0.43
22:CW:19:G:N2	22:CW:56:C:N3	2.65	0.43
24:CY:31:ARG:HH11	24:CY:31:ARG:HG2	1.83	0.43
24:CY:46:ARG:HD3	45:DK:21:PRO:HB3	2.00	0.43
24:CY:148:GLY:O	24:CY:149:PHE:HD1	2.01	0.43
26:D1:3:LYS:CG	26:D1:4:VAL:H	2.10	0.43
26:D1:79:GLY:O	26:D1:80:LEU:HB2	2.19	0.43
26:D1:80:LEU:CD2	26:D1:81:LYS:N	2.78	0.43
31:D6:15:GLU:HG3	31:D6:47:THR:OG1	2.18	0.43
35:DA:271(L):U:H5"	35:DA:271(M):G:OP1	2.18	0.43
35:DA:765:G:H2'	35:DA:766:C:C6	2.53	0.43
35:DA:839:U:H1'	35:DA:1191:G:H1'	2.00	0.43
35:DA:1101:U:H2'	35:DA:1102:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1437:C:H2'	35:DA:1438:U:H6	1.82	0.43
35:DA:1639:U:H4'	35:DA:2699:C:H4'	1.99	0.43
35:DA:1793:C:H2'	35:DA:1794:U:H6	1.82	0.43
35:DA:2243:U:O2	35:DA:2434:A:C2	2.71	0.43
35:DA:2443:C:H2'	35:DA:2444:G:H8	1.83	0.43
35:DA:2649:U:H2'	35:DA:2650:U:C6	2.53	0.43
38:DD:155:LEU:O	38:DD:156:ALA:C	2.62	0.43
38:DD:231:HIS:ND1	38:DD:232:PRO:CD	2.81	0.43
38:DD:244:ARG:HE	38:DD:245:PRO:HB3	1.83	0.43
40:DF:9:ILE:HG12	40:DF:15:SER:N	2.33	0.43
40:DF:33:LEU:HD22	40:DF:112:MET:HE2	2.01	0.43
40:DF:155:LEU:HD12	40:DF:174:VAL:O	2.18	0.43
42:DH:96:ALA:HB1	42:DH:105:LEU:HA	2.00	0.43
42:DH:107:VAL:HG23	42:DH:107:VAL:O	2.18	0.43
44:DJ:74:UNK:O	44:DJ:76:UNK:N	2.51	0.43
44:DJ:130:UNK:O	44:DJ:132:UNK:N	2.52	0.43
47:DO:13:ASN:HD21	47:DO:97:ARG:N	2.17	0.43
51:DS:97:ARG:NE	51:DS:97:ARG:C	2.76	0.43
52:DT:77:PRO:O	52:DT:78:LEU:HB3	2.19	0.43
53:DU:59:ARG:O	53:DU:60:LEU:C	2.61	0.43
53:DU:92:ARG:CZ	54:DV:11:GLN:O	2.66	0.43
57:DY:30:VAL:C	57:DY:31:LEU:HD22	2.43	0.43
58:DZ:104:PHE:HB3	58:DZ:141:VAL:CG1	2.48	0.43
58:DZ:149:SER:OG	58:DZ:150:LEU:N	2.51	0.43
58:DZ:166:SER:HB2	58:DZ:167:PRO:CA	2.49	0.43
1:AA:113:G:H2'	1:AA:114:U:C6	2.54	0.43
1:AA:376:G:OP1	16:AP:6:LEU:HD13	2.18	0.43
1:AA:386:C:C2'	1:AA:387:U:H5'	2.48	0.43
1:AA:518:C:H3'	24:AY:188:ARG:HH12	1.84	0.43
1:AA:926:G:C6	1:AA:1505:G:C5	3.07	0.43
1:AA:1152:A:H3'	10:AJ:13:HIS:ND1	2.32	0.43
1:AA:1255:G:H3'	1:AA:1279:A:N6	2.31	0.43
1:AA:1264:C:O2	1:AA:1272:G:C2	2.72	0.43
1:AA:1426:C:H1'	1:AA:1475:G:N2	2.32	0.43
2:AB:15:VAL:HG23	2:AB:209:ARG:HB3	2.01	0.43
2:AB:82:ARG:HH11	2:AB:83:MET:CE	2.31	0.43
2:AB:236:TYR:HA	2:AB:239:VAL:CG2	2.48	0.43
4:AD:8:VAL:HA	4:AD:11:LEU:HD21	2.00	0.43
4:AD:14:ARG:C	4:AD:16:GLY:N	2.77	0.43
4:AD:60:GLU:OE1	4:AD:198:VAL:HA	2.19	0.43
7:AG:81:GLY:C	7:AG:83:ALA:N	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:85:ARG:NE	8:AH:87:SER:O	2.51	0.43
9:AI:80:GLY:O	9:AI:84:ALA:N	2.52	0.43
11:AK:21:ILE:HG21	11:AK:94:ALA:CB	2.48	0.43
13:AM:87:TYR:HE1	19:AS:81:ARG:NH2	2.15	0.43
16:AP:47:ASP:C	16:AP:49:LEU:N	2.76	0.43
17:AQ:68:ARG:O	17:AQ:69:LYS:HB2	2.19	0.43
17:AQ:87:LYS:O	17:AQ:91:ARG:HB2	2.18	0.43
19:AS:12:ASP:HB3	19:AS:14:HIS:CE1	2.53	0.43
20:AT:49:ALA:O	20:AT:53:LEU:HD12	2.18	0.43
23:AX:17:A:H2	23:AX:18:A:C8	2.36	0.43
24:AY:65:LEU:HD11	24:AY:95:ALA:CA	2.44	0.43
28:B3:3:ARG:HA	28:B3:37:LEU:O	2.19	0.43
28:B3:13:ILE:N	28:B3:13:ILE:CD1	2.80	0.43
31:B6:28:ARG:C	31:B6:32:ASN:HB3	2.44	0.43
34:B9:20:HIS:C	34:B9:22:ARG:N	2.75	0.43
35:BA:36:G:N3	35:BA:450:G:O2'	2.51	0.43
35:BA:389:G:H22	48:BP:72:PRO:HD3	1.84	0.43
35:BA:661:C:O3'	48:BP:18:ARG:HD2	2.19	0.43
35:BA:717:G:H2'	35:BA:718:A:O4'	2.18	0.43
35:BA:828:U:O2	35:BA:828:U:C3'	2.66	0.43
35:BA:839:U:O2'	35:BA:1191:G:N3	2.45	0.43
35:BA:1991:U:H2'	35:BA:1992:G:C5'	2.48	0.43
35:BA:2310:A:C2	41:BG:77:ILE:HD12	2.53	0.43
35:BA:2758:A:C4	42:BH:67:LEU:HD21	2.54	0.43
36:BB:13:A:O2'	36:BB:14:U:H5"	2.19	0.43
36:BB:43:C:H5'	36:BB:44:G:OP2	2.18	0.43
37:BC:78:ALA:O	37:BC:79:LYS:C	2.61	0.43
37:BC:109:ASP:O	37:BC:110:PHE:C	2.61	0.43
37:BC:154:ARG:C	37:BC:156:ILE:N	2.74	0.43
38:BD:7:LYS:O	38:BD:9:TYR:HD1	2.02	0.43
38:BD:231:HIS:CD2	38:BD:249:PRO:HG3	2.53	0.43
38:BD:244:ARG:HE	38:BD:245:PRO:HB3	1.84	0.43
40:BF:7:TYR:HB2	40:BF:16:GLY:C	2.43	0.43
41:BG:61:ALA:O	41:BG:63:ILE:N	2.50	0.43
42:BH:71:LEU:O	42:BH:71:LEU:HD23	2.19	0.43
42:BH:107:VAL:O	42:BH:107:VAL:HG23	2.17	0.43
46:BN:25:ARG:CG	46:BN:25:ARG:NH1	2.82	0.43
47:BO:91:LEU:N	47:BO:91:LEU:HD22	2.33	0.43
47:BO:104:ARG:NH1	47:BO:104:ARG:CB	2.81	0.43
50:BR:54:LEU:HD23	50:BR:66:VAL:CG2	2.48	0.43
55:BW:79:GLY:O	55:BW:100:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:56:VAL:HG12	58:BZ:57:ILE:N	2.33	0.43
1:CA:426:G:H2'	1:CA:427:U:C6	2.53	0.43
1:CA:889:A:N1	1:CA:907:A:H5"	2.33	0.43
1:CA:954:G:H2'	1:CA:955:U:H6	1.80	0.43
1:CA:1037:C:H2'	1:CA:1038:C:N1	2.33	0.43
1:CA:1056:U:O2'	1:CA:1057:G:H5'	2.18	0.43
1:CA:1394:A:N6	1:CA:1501:C:H5'	2.34	0.43
1:CA:1452:C:OP1	1:CA:1456:G:N7	2.51	0.43
1:CA:1515:C:H2'	1:CA:1516:G:H8	1.83	0.43
2:CB:112:VAL:HG11	2:CB:153:ARG:HA	1.99	0.43
2:CB:114:ARG:NH2	2:CB:118:LEU:HD21	2.34	0.43
3:CC:6:HIS:O	3:CC:7:PRO:C	2.61	0.43
5:CE:105:VAL:HG12	5:CE:106:PRO:N	2.32	0.43
5:CE:105:VAL:N	5:CE:106:PRO:HD2	2.32	0.43
6:CF:33:TYR:HD1	6:CF:75:LEU:CB	2.30	0.43
8:CH:29:SER:O	8:CH:32:LYS:N	2.52	0.43
8:CH:84:ARG:NH1	8:CH:84:ARG:HG2	2.32	0.43
8:CH:97:VAL:CG1	8:CH:98:LYS:H	2.31	0.43
9:CI:4:TYR:CE2	9:CI:88:TYR:HB3	2.52	0.43
13:CM:84:ILE:HG13	19:CS:66:MET:HE1	1.99	0.43
15:CO:64:ARG:HD3	15:CO:68:ARG:NH2	2.33	0.43
17:CQ:81:ARG:O	17:CQ:83:ASP:N	2.50	0.43
24:CY:38:LEU:O	24:CY:39:TRP:C	2.60	0.43
24:CY:46:ARG:HG3	45:DK:21:PRO:CG	2.48	0.43
31:D6:25:LYS:HE2	31:D6:27:LYS:HZ1	1.83	0.43
35:DA:95:G:N2	35:DA:96:G:H1'	2.34	0.43
35:DA:813:U:H2'	35:DA:814:C:C6	2.53	0.43
35:DA:825:C:C2'	35:DA:826:U:O5'	2.67	0.43
35:DA:885:C:H6	35:DA:885:C:H3'	1.83	0.43
35:DA:900:A:H3'	35:DA:901:A:H8	1.83	0.43
35:DA:919:G:H5'	36:DB:81:G:O4'	2.19	0.43
35:DA:1052:C:H2'	35:DA:1053:C:C6	2.54	0.43
35:DA:1142(A):A:C5	35:DA:1144:G:C5	3.06	0.43
35:DA:1155:A:O3'	53:DU:55:ARG:NH1	2.52	0.43
35:DA:1300:U:O2	35:DA:1300:U:O4'	2.36	0.43
35:DA:1313:U:O2	35:DA:1313:U:C2'	2.66	0.43
35:DA:1398:C:O2'	35:DA:1399:C:H5'	2.18	0.43
35:DA:1783:A:C2	35:DA:2587:A:C4	3.06	0.43
35:DA:2011:U:H2'	35:DA:2012:G:H5'	2.00	0.43
35:DA:2282:G:OP1	35:DA:2283:C:H1'	2.17	0.43
35:DA:2400:G:N2	35:DA:2417:C:C2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2507:C:C2	35:DA:2508:G:C8	3.06	0.43
35:DA:2555:U:C2'	35:DA:2556:C:H5'	2.48	0.43
35:DA:2588:G:O2'	35:DA:2589:A:H5'	2.19	0.43
38:DD:244:ARG:NE	38:DD:245:PRO:HB3	2.33	0.43
39:DE:3:GLY:O	39:DE:4:ILE:HB	2.17	0.43
39:DE:178:GLU:HG3	39:DE:179:GLU:N	2.33	0.43
40:DF:66:PRO:O	40:DF:67:GLN:CB	2.55	0.43
40:DF:132:VAL:CG1	40:DF:133:ASN:H	2.19	0.43
40:DF:185:ASP:OD1	40:DF:188:ARG:CZ	2.66	0.43
40:DF:185:ASP:OD1	40:DF:188:ARG:NH1	2.51	0.43
41:DG:83:ARG:CZ	41:DG:84:LYS:HZ3	2.31	0.43
42:DH:160:LYS:HB2	42:DH:161:GLY:H	1.53	0.43
49:DQ:114:ALA:C	49:DQ:116:GLU:N	2.76	0.43
50:DR:83:ILE:HD13	50:DR:86:ARG:HH12	1.84	0.43
51:DS:58:LEU:HG	51:DS:65:VAL:HG13	2.00	0.43
51:DS:89:ARG:CB	51:DS:92:TYR:HB3	2.43	0.43
57:DY:42:VAL:HG11	57:DY:65:ALA:HB3	1.95	0.43
58:DZ:144:LEU:CD1	58:DZ:149:SER:HA	2.49	0.43
1:AA:325:A:OP2	20:AT:70:SER:HB3	2.18	0.43
1:AA:980:C:H3'	1:AA:981:U:C6	2.54	0.43
1:AA:1076:C:O2'	1:AA:1077:G:H5'	2.18	0.43
1:AA:1142:G:H2'	1:AA:1143:G:C5'	2.49	0.43
1:AA:1152:A:H5'	10:AJ:70:ARG:HH12	1.82	0.43
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.17	0.43
2:AB:92:TYR:HD2	2:AB:92:TYR:H	1.67	0.43
4:AD:2:GLY:O	4:AD:3:ARG:C	2.62	0.43
4:AD:165:MET:O	4:AD:167:GLY:N	2.51	0.43
5:AE:105:VAL:HG12	5:AE:106:PRO:N	2.33	0.43
7:AG:18:TYR:CE2	7:AG:59:LEU:HB2	2.54	0.43
7:AG:43:PHE:O	7:AG:46:ALA:HB3	2.18	0.43
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.82	0.43
17:AQ:84:LEU:O	17:AQ:87:LYS:HB2	2.18	0.43
18:AR:59:SER:O	18:AR:60:ALA:C	2.60	0.43
24:AY:102:TYR:C	24:AY:105:THR:HG22	2.43	0.43
26:B1:18:ILE:HG21	26:B1:20:ARG:CZ	2.49	0.43
26:B1:81:LYS:CG	35:BA:271(H):G:H4'	2.45	0.43
30:B5:58:LEU:C	30:B5:59:GLU:CG	2.92	0.43
35:BA:425:G:O2'	35:BA:426:C:H5'	2.18	0.43
35:BA:449:A:H4'	53:BU:3:ARG:NH1	2.34	0.43
35:BA:480:A:H2	35:BA:499:U:O2	2.01	0.43
35:BA:784:A:C5'	38:BD:227:ASN:ND2	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:947:G:N3	35:BA:984:A:H2	2.17	0.43
35:BA:1022:G:C6	35:BA:1140:C:C4	3.07	0.43
35:BA:1045:A:C2	35:BA:1047:G:N2	2.87	0.43
35:BA:1248:G:N2	40:BF:88:VAL:CG2	2.82	0.43
35:BA:1417:C:O2'	35:BA:1418:G:H5'	2.19	0.43
35:BA:2282:G:OP1	35:BA:2283:C:H1'	2.17	0.43
35:BA:2352:A:N6	35:BA:2365:G:O2'	2.51	0.43
35:BA:2660:A:H2'	35:BA:2661:G:O4'	2.18	0.43
35:BA:2822:G:H8	35:BA:2822:G:O5'	2.01	0.43
38:BD:122:ASP:O	38:BD:123:ALA:O	2.36	0.43
39:BE:111:ARG:O	50:BR:2:ARG:HG3	2.18	0.43
39:BE:134:ILE:H	39:BE:134:ILE:CD1	2.31	0.43
42:BH:85:LYS:O	42:BH:85:LYS:HG2	2.18	0.43
43:BI:9:LEU:O	43:BI:10:GLU:C	2.61	0.43
46:BN:128:HIS:HA	46:BN:129:PRO:HD2	1.86	0.43
48:BP:6:LEU:H	48:BP:6:LEU:CD2	2.29	0.43
49:BQ:130:LYS:HD2	49:BQ:130:LYS:HA	1.62	0.43
51:BS:35:ILE:C	51:BS:36:TYR:HD1	2.25	0.43
52:BT:32:TYR:CB	52:BT:81:PRO:HB3	2.48	0.43
53:BU:65:ILE:HG12	53:BU:96:ALA:CB	2.48	0.43
1:CA:59:A:H61	1:CA:331:G:H1'	1.83	0.43
1:CA:141:A:H2	1:CA:222:U:H3	1.65	0.43
1:CA:181:G:N2	1:CA:183:G:N2	2.62	0.43
1:CA:287:U:O2'	1:CA:288:A:H5'	2.18	0.43
1:CA:560:U:H4'	1:CA:561:U:C5'	2.47	0.43
1:CA:722:A:H3'	1:CA:722:A:N3	2.33	0.43
1:CA:745:C:H1'	1:CA:836:G:O2'	2.19	0.43
1:CA:1142:G:O2'	1:CA:1143:G:H5'	2.19	0.43
2:CB:14:GLY:HA3	2:CB:16:HIS:HE1	1.81	0.43
4:CD:13:ARG:NH1	4:CD:36:ARG:HD2	2.33	0.43
4:CD:30:LYS:HB2	4:CD:35:ARG:HD2	1.98	0.43
5:CE:47:LYS:HD2	5:CE:47:LYS:H	1.84	0.43
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.32	0.43
8:CH:44:PHE:HA	8:CH:79:VAL:HG11	1.99	0.43
9:CI:20:ARG:HG3	9:CI:20:ARG:NH1	2.29	0.43
9:CI:53:VAL:HG23	9:CI:55:ALA:CB	2.48	0.43
10:CJ:31:GLY:HA3	10:CJ:78:ASN:CG	2.43	0.43
13:CM:3:ARG:CA	13:CM:9:ILE:HG13	2.47	0.43
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.26	0.43
20:CT:104:LEU:HD23	20:CT:106:ALA:N	2.34	0.43
24:CY:254:LEU:O	24:CY:255:PRO:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:284:TYR:O	24:CY:284:TYR:CG	2.71	0.43
24:CY:302:VAL:O	24:CY:303:GLU:HG2	2.18	0.43
25:D0:42:GLY:HA2	35:DA:2330:G:H21	1.84	0.43
26:D1:30:VAL:H	35:DA:2396:G:H4'	1.84	0.43
27:D2:35:LEU:HD11	27:D2:49:LYS:HB3	2.00	0.43
27:D2:35:LEU:HD12	27:D2:53:LEU:HD12	2.01	0.43
34:D9:2:LYS:HB3	34:D9:3:VAL:H	1.61	0.43
34:D9:17:ILE:HG13	34:D9:26:ILE:HD11	2.00	0.43
35:DA:69:C:C2'	35:DA:70:G:H5'	2.49	0.43
35:DA:775:G:C4	35:DA:794:G:C8	3.07	0.43
35:DA:1036:G:H2'	35:DA:1037:G:H8	1.81	0.43
35:DA:1368:G:O2'	35:DA:1369:G:H5'	2.18	0.43
35:DA:1374:G:H2'	35:DA:1375:C:O4'	2.17	0.43
35:DA:1459:G:N3	35:DA:1459:G:C2'	2.82	0.43
35:DA:1678:G:N2	35:DA:1989:G:N2	2.65	0.43
35:DA:1941:C:H5'	35:DA:1941:C:H6	1.82	0.43
35:DA:2113:U:H2'	35:DA:2114:A:C8	2.52	0.43
35:DA:2404:C:O2'	35:DA:2405:G:H5'	2.18	0.43
38:DD:172:TYR:HD1	38:DD:185:VAL:C	2.26	0.43
39:DE:21:VAL:O	39:DE:23:VAL:HG13	2.19	0.43
41:DG:75:LYS:HB3	41:DG:76:SER:H	1.69	0.43
41:DG:102:PHE:CD1	41:DG:103:LEU:N	2.87	0.43
41:DG:103:LEU:O	41:DG:104:GLU:C	2.61	0.43
41:DG:104:GLU:O	41:DG:105:LYS:C	2.60	0.43
45:DK:93:ARG:HE	58:DZ:112:ARG:CD	2.10	0.43
46:DN:26:LEU:HG	46:DN:30:ILE:HD11	1.99	0.43
48:DP:112:LEU:CD2	48:DP:112:LEU:C	2.91	0.43
49:DQ:63:LYS:HD2	58:DZ:175:VAL:HG21	2.00	0.43
50:DR:54:LEU:HD23	50:DR:66:VAL:HG23	2.00	0.43
52:DT:100:TYR:CD2	52:DT:103:ARG:NH2	2.74	0.43
57:DY:28:LYS:CB	57:DY:38:ILE:H	2.24	0.43
57:DY:30:VAL:CG1	57:DY:31:LEU:N	2.82	0.43
57:DY:45:VAL:HA	57:DY:62:GLU:CB	2.48	0.43
57:DY:55:TYR:HB3	57:DY:56:PRO:CD	2.49	0.43
57:DY:97:ARG:NH1	57:DY:98:VAL:HG23	2.34	0.43
58:DZ:10:ARG:HB2	58:DZ:37:VAL:C	2.43	0.43
1:AA:160:A:H1'	1:AA:344:A:C5	2.54	0.43
1:AA:171:A:H2'	1:AA:172:A:C8	2.52	0.43
1:AA:416:G:OP2	35:DA:2153:G:H4'	2.18	0.43
1:AA:619:U:N3	4:AD:135:LEU:HD11	2.33	0.43
1:AA:626:U:O2'	1:AA:627:G:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:770:C:O2'	1:AA:771:G:H5'	2.19	0.43
1:AA:957:U:H4'	19:AS:79:THR:HB	2.01	0.43
1:AA:1298:C:H2'	7:AG:114:ARG:HH12	1.82	0.43
1:AA:1476:G:H2'	1:AA:1477:C:C6	2.53	0.43
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.82	0.43
4:AD:205:GLU:O	4:AD:207:TYR:N	2.52	0.43
6:AF:22:GLU:C	6:AF:24:GLU:N	2.74	0.43
6:AF:100:ASN:N	6:AF:100:ASN:ND2	2.67	0.43
7:AG:87:VAL:HA	7:AG:88:PRO:HD3	1.88	0.43
10:AJ:24:VAL:C	10:AJ:26:ALA:H	2.26	0.43
11:AK:120:ARG:HH22	11:AK:126:ARG:HH21	1.66	0.43
16:AP:8:ARG:CG	16:AP:9:PHE:N	2.82	0.43
18:AR:51:LEU:HD22	18:AR:55:ARG:CG	2.45	0.43
19:AS:25:LYS:O	19:AS:26:GLY:C	2.61	0.43
20:AT:45:GLN:HB2	20:AT:91:LEU:CD1	2.42	0.43
22:AW:9:A:H5'	22:AW:46:G:O4'	2.19	0.43
22:AW:66:U:H2'	22:AW:67:C:C5	2.54	0.43
24:AY:41:ASP:O	24:AY:42:PRO:C	2.60	0.43
24:AY:112:ALA:HB1	24:AY:178:GLY:HA3	2.00	0.43
24:AY:192:PRO:CA	24:AY:200:ARG:O	2.67	0.43
31:B6:33:LYS:O	31:B6:34:LEU:CB	2.65	0.43
35:BA:118:A:C8	35:BA:119:A:C8	3.07	0.43
35:BA:191:A:H2'	35:BA:192:C:C6	2.54	0.43
35:BA:310:A:H1'	35:BA:311:A:H2'	2.00	0.43
35:BA:977:G:O2'	35:BA:978:G:H5'	2.19	0.43
35:BA:1061:U:P	45:BK:9:LYS:NZ	2.92	0.43
35:BA:1155:A:O3'	53:BU:55:ARG:NH1	2.52	0.43
35:BA:1288:U:N1	35:BA:1327:C:O2	2.52	0.43
35:BA:1532:C:O2	35:BA:1532:C:O4'	2.37	0.43
35:BA:1832:C:H2'	35:BA:1833:U:O5'	2.18	0.43
35:BA:2127:G:H5'	37:BC:36:LYS:HE2	2.01	0.43
35:BA:2201:C:H2'	35:BA:2202:C:H6	1.84	0.43
35:BA:2400:G:N2	35:BA:2417:C:C2	2.86	0.43
35:BA:2468:G:H8	35:BA:2476:A:H62	1.66	0.43
35:BA:2811:G:C2'	35:BA:2812:G:H5'	2.49	0.43
37:BC:86:ALA:HB2	37:BC:152:ILE:CB	2.49	0.43
41:BG:38:VAL:HG12	41:BG:93:THR:CA	2.38	0.43
41:BG:60:LEU:C	41:BG:60:LEU:HD13	2.44	0.43
41:BG:133:LEU:HD12	41:BG:135:LEU:CD1	2.49	0.43
43:BI:1:MET:N	43:BI:21:VAL:O	2.51	0.43
44:BJ:65:UNK:C	44:BJ:67:UNK:N	2.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:100:THR:OG1	45:BK:102:GLU:HG2	2.19	0.43
46:BN:119:ARG:HH11	46:BN:119:ARG:HB3	1.84	0.43
48:BP:60:MET:O	48:BP:61:ARG:O	2.36	0.43
49:BQ:134:ARG:NH1	58:BZ:122:ARG:HD2	2.34	0.43
49:BQ:137:TYR:CD1	49:BQ:138:ASP:N	2.86	0.43
50:BR:48:VAL:O	50:BR:49:ASP:C	2.60	0.43
50:BR:49:ASP:O	50:BR:52:ILE:HB	2.18	0.43
52:BT:12:SER:O	52:BT:13:ARG:CZ	2.67	0.43
52:BT:129:ARG:NE	52:BT:131:ALA:HB3	2.31	0.43
53:BU:17:ILE:HG23	53:BU:39:LEU:HD12	2.00	0.43
57:BY:68:HIS:HB3	57:BY:71:LYS:HG2	2.00	0.43
58:BZ:23:LYS:HE2	58:BZ:23:LYS:HA	2.01	0.43
58:BZ:56:VAL:CG1	58:BZ:91:LEU:HD12	2.48	0.43
1:CA:564:C:C4	17:CQ:31:LEU:HD11	2.54	0.43
1:CA:659:U:H2'	1:CA:660:G:C8	2.53	0.43
1:CA:1142:G:H2'	1:CA:1143:G:C5'	2.49	0.43
1:CA:1152:A:H5'	10:CJ:70:ARG:HH12	1.82	0.43
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.33	0.43
1:CA:1316:G:N1	1:CA:1319:A:OP2	2.47	0.43
1:CA:1444:C:H2'	1:CA:1445:C:H6	1.83	0.43
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.34	0.43
4:CD:3:ARG:HD3	4:CD:5:ILE:HG13	2.00	0.43
4:CD:82:ALA:O	4:CD:85:LYS:HB2	2.19	0.43
5:CE:34:VAL:O	5:CE:41:VAL:HA	2.18	0.43
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	2.32	0.43
8:CH:111:ILE:HG22	8:CH:112:LEU:N	2.33	0.43
8:CH:128:GLY:O	8:CH:129:VAL:HG13	2.19	0.43
10:CJ:78:ASN:HB2	10:CJ:81:THR:CG2	2.45	0.43
11:CK:114:VAL:O	11:CK:114:VAL:HG22	2.19	0.43
12:CL:69:TYR:HB2	12:CL:96:VAL:HG11	2.00	0.43
13:CM:30:ALA:C	13:CM:32:GLU:N	2.77	0.43
16:CP:21:VAL:O	16:CP:33:ILE:HB	2.18	0.43
23:CX:24:A:O3'	24:CY:200:ARG:NH1	2.51	0.43
24:CY:32:ARG:C	45:DK:29:GLN:HE22	2.26	0.43
24:CY:57:ARG:CA	24:CY:60:ASP:HB3	2.37	0.43
24:CY:269:ILE:HD12	49:DQ:80:GLU:CG	2.49	0.43
34:D9:15:LYS:HZ1	35:DA:2753:A:C1'	2.31	0.43
35:DA:142:A:N6	35:DA:1596:A:H5'	2.33	0.43
35:DA:214:G:H1'	35:DA:216:A:O2'	2.19	0.43
35:DA:310:A:H1'	35:DA:311:A:H2'	2.01	0.43
35:DA:654(S):G:H2'	35:DA:654(T):C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:672:C:O2'	35:DA:673:C:H5'	2.18	0.43
35:DA:1335:U:O2'	35:DA:1336:A:H5'	2.19	0.43
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.66	0.43
35:DA:2222:G:O2'	35:DA:2223:G:H5'	2.17	0.43
35:DA:2536:G:C6	35:DA:2537:U:C4	3.06	0.43
35:DA:2745:C:H4'	42:DH:142:GLY:O	2.19	0.43
36:DB:95:C:C2	36:DB:96:U:C6	3.06	0.43
36:DB:106:G:C2	36:DB:107:G:C8	3.07	0.43
36:DB:112:U:H2'	36:DB:113:G:H8	1.82	0.43
39:DE:98:PRO:HD3	39:DE:175:VAL:CG1	2.47	0.43
40:DF:178:PRO:HG2	40:DF:179:GLU:CD	2.44	0.43
42:DH:19:VAL:HG21	42:DH:44:VAL:CA	2.46	0.43
45:DK:91:PRO:O	58:DZ:112:ARG:NE	2.51	0.43
45:DK:94:GLU:HB3	58:DZ:112:ARG:HH12	1.83	0.43
45:DK:132:ARG:HG3	45:DK:132:ARG:NH1	2.34	0.43
46:DN:35:ARG:O	46:DN:42:TRP:HZ3	1.99	0.43
48:DP:57:THR:C	48:DP:59:LEU:N	2.68	0.43
48:DP:125:VAL:O	48:DP:125:VAL:HG13	2.19	0.43
53:DU:107:ALA:O	53:DU:108:GLU:C	2.60	0.43
55:DW:40:ASN:C	55:DW:41:LYS:HG2	2.43	0.43
57:DY:60:PHE:CA	57:DY:62:GLU:OE2	2.54	0.43
1:AA:141:A:H2	1:AA:222:U:H3	1.65	0.43
1:AA:155:C:H2'	1:AA:156:G:H8	1.84	0.43
1:AA:189(F):U:C4	17:AQ:72:ARG:CZ	3.01	0.43
1:AA:372:C:N4	1:AA:387:U:H2'	2.33	0.43
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	2.19	0.43
1:AA:1179:A:H2'	1:AA:1180:A:O4'	2.19	0.43
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.53	0.43
2:AB:96:ARG:HD3	2:AB:148:TYR:CE1	2.47	0.43
2:AB:174:VAL:HG13	2:AB:184:VAL:HG21	2.00	0.43
3:AC:88:ARG:HH12	3:AC:101:LEU:HB3	1.79	0.43
3:AC:92:ALA:N	3:AC:99:VAL:HG11	2.34	0.43
3:AC:150:LYS:HA	3:AC:169:ALA:CB	2.49	0.43
4:AD:30:LYS:HB2	4:AD:35:ARG:HD2	2.01	0.43
5:AE:8:GLU:HA	5:AE:34:VAL:HA	1.99	0.43
5:AE:112:LEU:N	5:AE:112:LEU:HD23	2.33	0.43
5:AE:126:ARG:HG3	5:AE:126:ARG:NH1	2.24	0.43
6:AF:8:ILE:HD12	6:AF:26:ILE:CD1	2.49	0.43
6:AF:8:ILE:HG23	6:AF:85:VAL:HG13	2.01	0.43
7:AG:144:MET:CE	22:AW:31:A:H1'	2.49	0.43
7:AG:150:ALA:C	7:AG:152:ALA:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:4:TYR:HB2	9:AI:19:LEU:HD12	2.00	0.43
10:AJ:47:PHE:O	10:AJ:47:PHE:CD1	2.72	0.43
11:AK:18:ARG:HB3	11:AK:33:THR:O	2.19	0.43
11:AK:114:VAL:O	11:AK:114:VAL:HG22	2.18	0.43
11:AK:126:ARG:HB3	11:AK:126:ARG:CZ	2.49	0.43
13:AM:90:LEU:O	13:AM:91:ARG:HB2	2.19	0.43
14:AN:50:LYS:C	14:AN:52:GLN:H	2.26	0.43
16:AP:72:ARG:HH21	16:AP:73:LEU:CD2	2.32	0.43
18:AR:74:ARG:HB3	18:AR:81:PHE:CZ	2.53	0.43
22:AV:75:C:OP1	35:BA:2602:A:OP1	2.37	0.43
24:AY:23:GLU:OE2	24:AY:52:ALA:HB1	2.19	0.43
25:B0:41:ARG:HB3	35:BA:2330:G:H1'	2.00	0.43
27:B2:33:MET:HE3	27:B2:37:PHE:CE1	2.54	0.43
31:B6:19:ARG:CD	31:B6:19:ARG:N	2.81	0.43
33:B8:25:MET:CB	48:BP:62:LEU:HD21	2.46	0.43
35:BA:784:A:N7	38:BD:229:VAL:HG21	2.33	0.43
35:BA:1105:U:O2'	35:BA:1106:G:H5'	2.19	0.43
35:BA:1624:G:O2'	35:BA:1625:C:H5'	2.18	0.43
35:BA:1819:A:H5"	38:BD:161:THR:HG21	1.99	0.43
35:BA:1902:C:H1'	38:BD:244:ARG:HD3	2.01	0.43
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.34	0.43
35:BA:2748:A:O2'	42:BH:63:SER:HA	2.18	0.43
35:BA:2887:U:H2'	35:BA:2888:C:C6	2.54	0.43
38:BD:148:GLU:HB3	38:BD:149:PRO:HD2	1.99	0.43
39:BE:38:THR:HG23	39:BE:41:LYS:HD2	2.01	0.43
40:BF:9:ILE:HG12	40:BF:15:SER:N	2.32	0.43
40:BF:170:LEU:HD12	40:BF:170:LEU:HA	1.81	0.43
41:BG:19:LEU:HD11	41:BG:172:LEU:HA	1.99	0.43
41:BG:82:LEU:CD2	41:BG:87:PRO:HD3	2.47	0.43
42:BH:58:GLU:O	42:BH:61:HIS:N	2.52	0.43
42:BH:76:VAL:C	42:BH:78:GLY:N	2.76	0.43
43:BI:4:ILE:HG23	43:BI:5:LEU:N	2.33	0.43
43:BI:125:GLU:HA	43:BI:142:VAL:O	2.18	0.43
44:BJ:26:UNK:HA	44:BJ:84:UNK:CA	2.48	0.43
45:BK:125:ARG:O	45:BK:127:ILE:N	2.52	0.43
46:BN:26:LEU:CG	46:BN:30:ILE:HD11	2.49	0.43
46:BN:57:ALA:C	46:BN:58:ASP:O	2.60	0.43
47:BO:102:VAL:HG22	47:BO:120:GLU:O	2.18	0.43
50:BR:34:ILE:CG2	50:BR:35:THR:N	2.81	0.43
51:BS:54:LEU:C	51:BS:56:LEU:N	2.76	0.43
52:BT:16:ARG:NE	52:BT:18:ASP:OD1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:67:SER:O	52:BT:68:TYR:HB2	2.19	0.43
53:BU:57:PHE:O	53:BU:59:ARG:N	2.51	0.43
57:BY:38:ILE:HG22	57:BY:39:VAL:N	2.32	0.43
1:CA:66:G:H21	1:CA:172:A:H2	1.66	0.43
1:CA:69:G:H2'	1:CA:70:G:C8	2.53	0.43
1:CA:134:A:H61	16:CP:25:ARG:NH1	2.17	0.43
1:CA:437:U:O2'	1:CA:438:G:H5'	2.18	0.43
1:CA:757:U:O2'	1:CA:879:C:H1'	2.19	0.43
1:CA:1338:G:H2'	1:CA:1339:A:C8	2.54	0.43
1:CA:1358:U:H2'	1:CA:1359:C:O4'	2.19	0.43
3:CC:28:GLN:C	3:CC:30:ARG:N	2.76	0.43
3:CC:111:LEU:HD21	3:CC:145:GLY:O	2.18	0.43
4:CD:104:VAL:C	4:CD:106:TYR:N	2.77	0.43
4:CD:171:GLY:C	4:CD:173:TRP:H	2.27	0.43
6:CF:19:LEU:O	6:CF:19:LEU:HD23	2.19	0.43
7:CG:148:ASN:N	7:CG:148:ASN:ND2	2.66	0.43
8:CH:56:LYS:HA	8:CH:57:PRO:HD2	1.74	0.43
9:CI:5:TYR:CD1	9:CI:6:GLY:N	2.87	0.43
18:CR:86:VAL:O	18:CR:87:ARG:HD3	2.19	0.43
20:CT:98:PRO:HB2	20:CT:106:ALA:HB1	2.01	0.43
25:D0:20:ARG:NH1	35:DA:2271:G:H4'	2.33	0.43
26:D1:71:TYR:CE1	59:DI:27:ARG:HD2	2.52	0.43
28:D3:37:LEU:C	28:D3:38:GLU:O	2.59	0.43
30:D5:54:GLY:O	30:D5:56:LYS:NZ	2.40	0.43
31:D6:10:LEU:C	31:D6:11:LEU:HD22	2.44	0.43
31:D6:20:ASN:HD22	31:D6:21:TYR:H	1.60	0.43
33:D8:7:HIS:CG	33:D8:59:LYS:HD2	2.53	0.43
33:D8:39:LYS:HE3	35:DA:2365:G:O6	2.19	0.43
35:DA:419:C:H2'	35:DA:420:C:O4'	2.19	0.43
35:DA:680:G:H2'	35:DA:681:G:C8	2.53	0.43
35:DA:1010:A:H1'	35:DA:1153:C:H1'	2.01	0.43
35:DA:1034:G:H2'	35:DA:1035:U:H6	1.83	0.43
35:DA:1192:G:C2'	35:DA:1193:G:H5'	2.48	0.43
35:DA:1385:G:H1'	35:DA:1386:C:C6	2.53	0.43
35:DA:1578:U:H2'	35:DA:1579:A:C5'	2.47	0.43
35:DA:1578:U:O2'	35:DA:1579:A:H5"	2.18	0.43
35:DA:1579:A:H2'	35:DA:1580:A:O4'	2.18	0.43
35:DA:2048:G:C6	35:DA:2049:G:C5	3.06	0.43
35:DA:2192:G:H2'	35:DA:2192:G:N3	2.33	0.43
35:DA:2305:A:C2	35:DA:2306:C:H1'	2.54	0.43
35:DA:2607:G:H2'	35:DA:2608:G:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.54	0.43
35:DA:2820:A:O2'	35:DA:2821:A:OP1	2.33	0.43
38:DD:43:ARG:O	38:DD:44:ASN:O	2.37	0.43
39:DE:53:PRO:O	39:DE:54:GLN:C	2.62	0.43
39:DE:82:ARG:HB3	39:DE:83:ASP:H	1.42	0.43
39:DE:176:ILE:HG22	39:DE:179:GLU:H	1.84	0.43
40:DF:40:GLN:OE1	40:DF:184:TYR:CB	2.67	0.43
42:DH:26:VAL:O	42:DH:32:GLU:HA	2.18	0.43
44:DJ:26:UNK:HA	44:DJ:84:UNK:CA	2.48	0.43
44:DJ:71:UNK:O	44:DJ:72:UNK:O	2.37	0.43
45:DK:105:LEU:HD21	45:DK:120:LEU:HD13	2.01	0.43
46:DN:69:GLN:O	46:DN:71:ILE:HG13	2.17	0.43
47:DO:61:VAL:O	47:DO:61:VAL:HG13	2.17	0.43
48:DP:16:ARG:C	48:DP:16:ARG:HE	2.27	0.43
52:DT:13:ARG:HH12	52:DT:15:VAL:CG1	2.31	0.43
54:DV:2:PHE:O	54:DV:3:ALA:CB	2.66	0.43
54:DV:4:ILE:O	54:DV:4:ILE:HG22	2.18	0.43
58:DZ:114:GLY:O	58:DZ:177:PRO:HB3	2.19	0.43
1:AA:123:C:H5"	1:AA:311:C:O2'	2.19	0.43
1:AA:515:G:C2	1:AA:537:G:C2	3.07	0.43
1:AA:557:G:H2'	1:AA:558:G:O4'	2.19	0.43
1:AA:1083:U:C5	1:AA:1084:G:C6	3.06	0.43
1:AA:1313:U:O2'	1:AA:1314:C:H5'	2.19	0.43
1:AA:1329:A:OP1	13:AM:29:ARG:HB2	2.18	0.43
2:AB:144:ARG:O	2:AB:147:LYS:N	2.49	0.43
3:AC:18:TRP:C	3:AC:20:SER:H	2.26	0.43
3:AC:126:ARG:O	3:AC:127:ARG:HB2	2.19	0.43
4:AD:73:ARG:O	4:AD:77:ASN:ND2	2.51	0.43
6:AF:96:PRO:HB3	18:AR:30:ASP:OD2	2.18	0.43
7:AG:46:ALA:C	7:AG:48:LYS:N	2.76	0.43
7:AG:101:LEU:O	7:AG:104:LEU:HB2	2.17	0.43
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.86	0.43
9:AI:46:ALA:HB2	9:AI:74:ILE:CG2	2.49	0.43
11:AK:80:VAL:O	11:AK:106:LYS:HB2	2.19	0.43
12:AL:54:LYS:HB3	12:AL:70:ILE:HD12	2.01	0.43
13:AM:3:ARG:CA	13:AM:9:ILE:HG13	2.47	0.43
18:AR:51:LEU:HD23	18:AR:52:PRO:HD2	2.00	0.43
24:AY:180:LEU:O	24:AY:210:VAL:HG21	2.18	0.43
27:B2:2:LYS:O	27:B2:5:GLU:HB2	2.19	0.43
28:B3:49:LYS:NZ	35:BA:850:C:O3'	2.52	0.43
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:52:LYS:O	33:B8:55:ALA:HB3	2.17	0.43
35:BA:142:A:N6	35:BA:1596:A:H5'	2.34	0.43
35:BA:301:G:C6	35:BA:317:G:C6	3.06	0.43
35:BA:383:U:H2'	35:BA:385:C:H5	1.84	0.43
35:BA:839:U:O2'	35:BA:1191:G:H1'	2.18	0.43
35:BA:885:C:H6	35:BA:885:C:H3'	1.84	0.43
35:BA:953:A:C2'	35:BA:954:G:H5'	2.48	0.43
35:BA:958:U:C6	35:BA:958:U:C3'	3.02	0.43
35:BA:987:G:O2'	35:BA:1000:A:H1'	2.18	0.43
35:BA:1407:C:N4	35:BA:1595:G:H1	2.16	0.43
35:BA:1817:G:C6	35:BA:1818:U:C4	3.06	0.43
35:BA:1827:C:H2'	35:BA:1828:G:O4'	2.18	0.43
35:BA:1879:C:C3'	35:BA:1880:C:H5"	2.47	0.43
35:BA:2048:G:C6	35:BA:2049:G:C5	3.07	0.43
35:BA:2193:G:C4	35:BA:2194:G:C8	3.06	0.43
38:BD:33:LEU:O	38:BD:36:PRO:CD	2.67	0.43
38:BD:94:LEU:HD13	38:BD:94:LEU:O	2.18	0.43
38:BD:244:ARG:NE	38:BD:245:PRO:HB3	2.33	0.43
38:BD:261:LYS:HB2	38:BD:261:LYS:HZ2	1.83	0.43
40:BF:18:ARG:CG	40:BF:19:GLU:N	2.82	0.43
40:BF:88:VAL:CG1	40:BF:91:GLY:HA3	2.49	0.43
41:BG:38:VAL:CG1	41:BG:93:THR:HA	2.36	0.43
41:BG:123:ASN:O	41:BG:126:ASP:OD2	2.36	0.43
45:BK:12:LEU:C	45:BK:52:ILE:HD12	2.44	0.43
45:BK:86:LYS:NZ	45:BK:86:LYS:HB3	2.34	0.43
46:BN:26:LEU:HG	46:BN:30:ILE:CD1	2.49	0.43
47:BO:47:ILE:HG23	47:BO:48:PRO:CD	2.48	0.43
48:BP:85:LEU:CD2	48:BP:88:LEU:HD23	2.49	0.43
49:BQ:52:VAL:O	49:BQ:53:ALA:C	2.59	0.43
50:BR:30:THR:HG22	50:BR:31:HIS:N	2.34	0.43
51:BS:20:ARG:NE	51:BS:20:ARG:CA	2.81	0.43
52:BT:29:ARG:HD2	52:BT:29:ARG:HA	1.83	0.43
52:BT:129:ARG:NH1	52:BT:131:ALA:HB3	2.32	0.43
53:BU:25:TRP:CG	53:BU:26:GLY:N	2.84	0.43
55:BW:61:ASN:C	55:BW:62:HIS:ND1	2.77	0.43
57:BY:27:VAL:HA	57:BY:28:LYS:CE	2.49	0.43
58:BZ:82:ARG:CG	58:BZ:83:PRO:HD2	2.48	0.43
58:BZ:119:GLU:H	58:BZ:119:GLU:HG3	1.41	0.43
1:CA:47:C:H4'	1:CA:48:C:O5'	2.19	0.43
1:CA:321:A:C2	1:CA:333:G:C2	3.07	0.43
1:CA:994:A:N3	1:CA:994:A:H2'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1458:G:O2'	1:CA:1459:C:H5'	2.19	0.43
2:CB:208:ILE:O	2:CB:209:ARG:C	2.62	0.43
3:CC:188:LEU:HD12	3:CC:195:VAL:HG13	2.00	0.43
4:CD:153:ARG:C	4:CD:155:LEU:H	2.27	0.43
4:CD:177:ASP:OD1	4:CD:177:ASP:O	2.37	0.43
6:CF:8:ILE:HD12	6:CF:26:ILE:HD13	1.99	0.43
7:CG:87:VAL:HA	7:CG:88:PRO:HD3	1.87	0.43
7:CG:145:ALA:C	7:CG:147:ALA:N	2.72	0.43
9:CI:20:ARG:HH11	9:CI:20:ARG:CG	2.25	0.43
10:CJ:96:ILE:N	10:CJ:96:ILE:CD1	2.81	0.43
12:CL:54:LYS:HB3	12:CL:70:ILE:HD12	2.01	0.43
15:CO:82:ILE:HD11	15:CO:87:ILE:O	2.19	0.43
17:CQ:60:ILE:O	17:CQ:61:GLU:C	2.61	0.43
17:CQ:66:SER:O	17:CQ:67:LYS:C	2.61	0.43
19:CS:13:ASP:O	19:CS:15:LEU:N	2.52	0.43
20:CT:73:HIS:O	20:CT:74:LYS:CB	2.66	0.43
24:CY:186:VAL:HB	24:CY:309:SER:O	2.18	0.43
24:CY:249:VAL:CG2	24:CY:250:ARG:N	2.82	0.43
24:CY:315:VAL:HG21	24:CY:320:TYR:CD2	2.51	0.43
25:D0:41:ARG:HB3	35:DA:2330:G:H1'	1.99	0.43
26:D1:62:VAL:CG1	26:D1:63:ALA:N	2.80	0.43
28:D3:3:ARG:HA	28:D3:37:LEU:O	2.18	0.43
30:D5:2:ALA:HB2	35:DA:2014:A:O2'	2.17	0.43
31:D6:11:LEU:HD23	31:D6:25:LYS:N	2.34	0.43
32:D7:29:LYS:HE3	35:DA:210:C:OP2	2.19	0.43
33:D8:16:ILE:O	33:D8:16:ILE:HG23	2.19	0.43
35:DA:65:C:O2'	35:DA:66:C:H5'	2.19	0.43
35:DA:204:A:H8	35:DA:204:A:OP1	2.01	0.43
35:DA:436:C:H2'	35:DA:437:G:C8	2.53	0.43
35:DA:812:C:H5"	35:DA:1250:G:O2'	2.19	0.43
35:DA:1022:G:C6	35:DA:1140:C:C4	3.07	0.43
35:DA:1695:G:N2	35:DA:1696:G:C8	2.87	0.43
35:DA:2118:U:C5	35:DA:2148:G:O2'	2.64	0.43
35:DA:2344:U:H4'	35:DA:2345:G:OP1	2.18	0.43
35:DA:2683:C:H2'	35:DA:2684:U:C6	2.53	0.43
35:DA:2732:G:C3'	35:DA:2733:A:C5'	2.97	0.43
36:DB:29:A:H2'	36:DB:30:C:C6	2.52	0.43
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.52	0.43
38:DD:109:ASP:HB2	38:DD:197:GLY:HA2	2.00	0.43
38:DD:111:LEU:HD13	38:DD:115:GLN:OE1	2.19	0.43
38:DD:166:GLN:CA	38:DD:166:GLN:NE2	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:24:THR:HB	39:DE:186:GLY:O	2.19	0.43
39:DE:34:VAL:O	39:DE:34:VAL:HG23	2.18	0.43
39:DE:72:VAL:O	39:DE:73:GLU:C	2.62	0.43
40:DF:1:MET:O	40:DF:2:LYS:O	2.36	0.43
40:DF:10:PRO:CG	40:DF:13:SER:HB2	2.39	0.43
41:DG:6:ALA:O	41:DG:7:LEU:C	2.62	0.43
41:DG:144:ILE:HD12	41:DG:145:THR:N	2.34	0.43
42:DH:35:VAL:O	42:DH:36:PRO:C	2.60	0.43
42:DH:137:ASP:O	42:DH:138:LYS:HB2	2.19	0.43
42:DH:148:ILE:HA	42:DH:151:ILE:HG12	2.01	0.43
47:DO:102:VAL:HG22	47:DO:120:GLU:O	2.19	0.43
51:DS:71:ARG:O	51:DS:74:ALA:HB3	2.19	0.43
52:DT:33:LYS:O	52:DT:41:ARG:HB2	2.19	0.43
54:DV:77:ALA:O	54:DV:79:VAL:HG23	2.18	0.43
55:DW:34:ASN:HD22	55:DW:34:ASN:HA	1.65	0.43
56:DX:50:LYS:O	56:DX:83:VAL:HA	2.19	0.43
1:AA:46:G:O2'	1:AA:365:U:H1'	2.18	0.43
1:AA:302:G:N3	1:AA:556:C:H4'	2.34	0.43
1:AA:390:C:O5'	1:AA:390:C:H6	2.02	0.43
1:AA:405:U:C3'	1:AA:406:G:H5'	2.41	0.43
1:AA:460:G:C6	1:AA:470:C:H5"	2.54	0.43
1:AA:552:U:O2	12:AL:31:PRO:HB3	2.19	0.43
1:AA:644:G:H5'	8:AH:92:ARG:NH2	2.34	0.43
1:AA:690:G:H2'	1:AA:691:G:C8	2.53	0.43
1:AA:723:U:H5"	1:AA:724:G:OP2	2.19	0.43
1:AA:725:G:H2'	1:AA:726:C:H6	1.84	0.43
1:AA:1001:A:N3	1:AA:1001(A):G:N7	2.67	0.43
1:AA:1037:C:H2'	1:AA:1038:C:N1	2.34	0.43
1:AA:1054:C:H42	24:AY:201:ARG:HD2	1.84	0.43
1:AA:1095:U:C5'	1:AA:1109:C:O2	2.66	0.43
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.83	0.43
1:AA:1135:U:H4'	1:AA:1136:U:H5	1.84	0.43
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.53	0.43
1:AA:1316:G:C3'	1:AA:1317:C:H5"	2.49	0.43
3:AC:126:ARG:HB3	3:AC:128:PHE:CE1	2.54	0.43
4:AD:30:LYS:O	4:AD:32:ALA:N	2.52	0.43
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.19	0.43
6:AF:4:TYR:HD1	6:AF:92:LYS:HA	1.84	0.43
8:AH:10:LEU:O	8:AH:13:ILE:HB	2.19	0.43
9:AI:83:ARG:C	9:AI:86:VAL:HG12	2.43	0.43
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CG1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:57:LYS:HD2	10:AJ:60:ARG:NH2	2.34	0.43
10:AJ:99:LYS:HD3	10:AJ:99:LYS:HA	1.87	0.43
13:AM:25:ILE:HD12	13:AM:25:ILE:N	2.33	0.43
14:AN:19:ARG:O	14:AN:21:TYR:HD1	2.02	0.43
18:AR:56:THR:O	18:AR:58:LEU:HD12	2.19	0.43
20:AT:8:ARG:HG3	20:AT:8:ARG:NH1	2.32	0.43
22:AV:31:A:H2'	22:AV:32:U:H6	1.83	0.43
24:AY:92:GLU:C	24:AY:96:LYS:HE3	2.44	0.43
24:AY:135:MET:CE	24:AY:191:ARG:HH12	2.31	0.43
24:AY:189:LEU:C	24:AY:189:LEU:CD1	2.92	0.43
24:AY:336:VAL:O	24:AY:338:ASP:N	2.51	0.43
25:B0:51:VAL:CA	25:B0:62:LEU:HD12	2.49	0.43
26:B1:35:THR:HG21	35:BA:2080:G:P	2.59	0.43
32:B7:12:ARG:HG3	35:BA:686:G:O6	2.19	0.43
33:B8:53:PRO:C	33:B8:55:ALA:H	2.25	0.43
35:BA:978:G:C2'	35:BA:979:G:H5'	2.49	0.43
35:BA:1052:C:H2'	35:BA:1053:C:C6	2.54	0.43
35:BA:1578:U:H2'	35:BA:1579:A:C5'	2.48	0.43
35:BA:1638:C:H4'	35:BA:2710:C:O2	2.18	0.43
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.46	0.43
35:BA:2756:U:H1'	35:BA:2757:A:H5"	2.01	0.43
35:BA:2823:A:OP1	39:BE:113:PHE:HB2	2.19	0.43
35:BA:2861:G:O2'	35:BA:2862:G:H5'	2.19	0.43
39:BE:66:HIS:HD2	39:BE:66:HIS:O	2.02	0.43
41:BG:117:PHE:HD1	41:BG:118:ARG:N	2.15	0.43
42:BH:24:VAL:O	42:BH:25:LYS:C	2.61	0.43
46:BN:26:LEU:CD1	46:BN:30:ILE:HD11	2.49	0.43
46:BN:119:ARG:CG	46:BN:119:ARG:NH1	2.82	0.43
47:BO:71:ARG:HG3	47:BO:71:ARG:NH1	2.34	0.43
48:BP:75:ILE:HD12	48:BP:75:ILE:N	2.34	0.43
51:BS:105:ALA:HB1	51:BS:107:GLU:OE1	2.18	0.43
52:BT:53:ARG:HG2	52:BT:53:ARG:NH1	2.34	0.43
53:BU:83:LEU:HD11	53:BU:109:LEU:HD22	2.00	0.43
57:BY:37:VAL:O	57:BY:38:ILE:HG12	2.19	0.43
57:BY:54:LYS:O	57:BY:55:TYR:HB2	2.18	0.43
57:BY:55:TYR:HB3	57:BY:56:PRO:CD	2.49	0.43
58:BZ:24:LEU:HD11	58:BZ:86:VAL:H	1.84	0.43
1:CA:160:A:H1'	1:CA:344:A:C5	2.54	0.43
1:CA:189(B):C:H2'	1:CA:189(C):C:H6	1.84	0.43
1:CA:309:G:H1'	1:CA:608:A:C2	2.54	0.43
1:CA:376:G:OP1	16:CP:6:LEU:HD13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:380:G:N2	1:CA:383:A:OP2	2.51	0.43
1:CA:859:A:H2'	1:CA:860:A:O4'	2.18	0.43
2:CB:15:VAL:HG23	2:CB:209:ARG:HB3	2.00	0.43
3:CC:138:VAL:HG13	3:CC:149:ALA:HB3	2.01	0.43
4:CD:2:GLY:O	4:CD:3:ARG:C	2.61	0.43
4:CD:144:ASP:O	4:CD:184:LYS:HA	2.19	0.43
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.48	0.43
9:CI:4:TYR:N	9:CI:4:TYR:HD1	2.16	0.43
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.81	0.43
11:CK:33:THR:OG1	11:CK:37:GLY:HA2	2.19	0.43
14:CN:48:ALA:CA	14:CN:53:LEU:HD12	2.49	0.43
19:CS:25:LYS:O	19:CS:26:GLY:C	2.62	0.43
20:CT:36:LEU:CD1	20:CT:55:ILE:HG23	2.49	0.43
22:CW:58:A:O2'	22:CW:60:U:OP2	2.36	0.43
27:D2:7:ARG:HH22	35:DA:102:G:P	2.41	0.43
29:D4:57:ILE:HG22	29:D4:59:VAL:CG2	2.49	0.43
31:D6:11:LEU:N	31:D6:11:LEU:CD2	2.81	0.43
35:DA:654(I):C:C2'	35:DA:654(J):A:OP2	2.66	0.43
35:DA:709:U:H3	35:DA:722:A:H61	1.67	0.43
35:DA:919:G:H4'	36:DB:81:G:C4'	2.48	0.43
35:DA:1045:A:C2	35:DA:1047:G:N2	2.87	0.43
35:DA:1173:G:C3'	35:DA:1174:A:C5'	2.88	0.43
35:DA:1360:A:C5	35:DA:1372:U:N3	2.87	0.43
35:DA:2162:G:H2'	35:DA:2163:C:O4'	2.19	0.43
35:DA:2310:A:C4	41:DG:75:LYS:HE2	2.53	0.43
35:DA:2732:G:C2'	35:DA:2733:A:H5'	2.49	0.43
35:DA:2758:A:C3'	35:DA:2759:G:C5'	2.97	0.43
38:DD:3:VAL:HG12	38:DD:4:LYS:N	2.34	0.43
38:DD:11:PRO:C	38:DD:13:ARG:N	2.76	0.43
39:DE:65:GLY:HA2	39:DE:70:ALA:HB1	2.00	0.43
40:DF:84:VAL:C	40:DF:86:GLY:N	2.75	0.43
41:DG:19:LEU:C	41:DG:21:ARG:N	2.70	0.43
42:DH:92:ILE:O	42:DH:94:TYR:N	2.52	0.43
45:DK:105:LEU:HD23	45:DK:105:LEU:C	2.44	0.43
46:DN:27:ALA:CB	46:DN:106:MET:HE1	2.48	0.43
48:DP:122:PRO:O	48:DP:123:LEU:HB3	2.19	0.43
49:DQ:51:ARG:O	49:DQ:55:VAL:HG13	2.19	0.43
50:DR:60:LEU:HD23	50:DR:60:LEU:O	2.19	0.43
51:DS:67:ARG:O	51:DS:71:ARG:HG3	2.18	0.43
52:DT:28:VAL:O	52:DT:29:ARG:HD3	2.19	0.43
52:DT:62:THR:HG22	52:DT:75:ILE:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:76:PHE:HA	52:DT:77:PRO:HD3	1.72	0.43
52:DT:112:ARG:HB3	52:DT:112:ARG:NH1	2.33	0.43
55:DW:75:TYR:C	55:DW:75:TYR:CD1	2.97	0.43
57:DY:81:LYS:HA	57:DY:82:PRO:HD3	1.85	0.43
58:DZ:20:ARG:HH11	58:DZ:20:ARG:HG3	1.82	0.43
58:DZ:132:ASN:O	58:DZ:134:PRO:HD3	2.19	0.43
1:AA:145:G:H2'	1:AA:146:G:O4'	2.19	0.43
1:AA:321:A:C2	1:AA:333:G:C2	3.07	0.43
1:AA:370:C:N4	1:AA:391:G:N1	2.54	0.43
1:AA:914:A:O2'	1:AA:915:A:H5'	2.19	0.43
1:AA:963:G:N2	10:AJ:55:LYS:NZ	2.67	0.43
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.33	0.43
1:AA:1091:U:H2'	1:AA:1093:A:OP2	2.19	0.43
2:AB:204:ASN:HD21	2:AB:207:ALA:N	2.17	0.43
3:AC:175:LEU:HD21	3:AC:201:TYR:HE2	1.80	0.43
3:AC:186:PHE:CZ	3:AC:188:LEU:HD22	2.54	0.43
4:AD:36:ARG:HB3	4:AD:38:TYR:CZ	2.54	0.43
4:AD:124:GLY:C	4:AD:126:ILE:H	2.27	0.43
7:AG:148:ASN:N	7:AG:148:ASN:ND2	2.67	0.43
7:AG:152:ALA:O	7:AG:155:ARG:NH1	2.52	0.43
9:AI:2:GLU:HG2	9:AI:2:GLU:O	2.19	0.43
9:AI:121:ARG:HG2	9:AI:121:ARG:NH1	2.28	0.43
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.36	0.43
10:AJ:62:HIS:H	10:AJ:62:HIS:HD2	1.66	0.43
11:AK:44:SER:H	11:AK:47:VAL:CG2	2.32	0.43
12:AL:45:PRO:HB3	12:AL:53:ARG:NH1	2.34	0.43
13:AM:73:GLU:O	13:AM:76:ALA:HB3	2.19	0.43
15:AO:82:ILE:CG2	15:AO:83:GLU:N	2.81	0.43
18:AR:20:ALA:O	18:AR:21:LYS:C	2.62	0.43
24:AY:200:ARG:HH11	24:AY:202:HIS:CE1	2.36	0.43
26:B1:71:TYR:N	26:B1:71:TYR:HD1	2.17	0.43
26:B1:88:LYS:HE3	26:B1:92:LYS:HB2	1.99	0.43
27:B2:7:ARG:O	27:B2:8:LYS:C	2.61	0.43
33:B8:46:ARG:HG2	33:B8:46:ARG:HH11	1.84	0.43
35:BA:52:A:O2'	35:BA:53:A:H5'	2.19	0.43
35:BA:84:A:C5'	57:BY:9:LYS:HE3	2.49	0.43
35:BA:214:G:H1'	35:BA:216:A:O2'	2.19	0.43
35:BA:448:U:C4	35:BA:583:G:H1'	2.54	0.43
35:BA:1097:U:O2'	35:BA:1098:A:H5'	2.19	0.43
35:BA:1590:U:H2'	35:BA:1591:G:C5'	2.10	0.43
35:BA:1591:G:O2'	35:BA:1592:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1773:A:H2'	35:BA:1774:C:O4'	2.19	0.43
35:BA:1865:G:H5'	35:BA:1866:C:P	2.59	0.43
35:BA:1899:G:O2'	35:BA:1900:A:H5"	2.18	0.43
35:BA:2136:C:H41	35:BA:2156:G:H21	1.66	0.43
35:BA:2468:G:P	49:BQ:119:ARG:HH22	2.41	0.43
36:BB:95:C:C4	36:BB:96:U:C5	3.07	0.43
37:BC:72:VAL:CG1	37:BC:74:VAL:HG23	2.49	0.43
37:BC:72:VAL:HG21	37:BC:161:ILE:HA	2.00	0.43
38:BD:201:HIS:C	38:BD:203:ASN:N	2.77	0.43
39:BE:51:PHE:H	39:BE:74:PRO:HB2	1.84	0.43
41:BG:18:GLU:O	41:BG:22:ARG:HG3	2.19	0.43
41:BG:97:ASP:HB3	41:BG:98:ARG:NH2	2.20	0.43
41:BG:101:ILE:C	41:BG:101:ILE:CD1	2.91	0.43
41:BG:101:ILE:O	41:BG:101:ILE:HG12	2.19	0.43
44:BJ:21:UNK:HA	44:BJ:88:UNK:HA	2.01	0.43
45:BK:55:VAL:HG22	45:BK:57:ILE:CD1	2.49	0.43
46:BN:19:GLU:O	46:BN:59:LYS:HB3	2.19	0.43
47:BO:104:ARG:CZ	52:BT:33:LYS:HD2	2.49	0.43
47:BO:115:VAL:HG13	47:BO:121:VAL:HG21	2.01	0.43
48:BP:30:THR:O	48:BP:31:ALA:C	2.62	0.43
50:BR:12:ARG:NE	50:BR:16:HIS:CE1	2.84	0.43
54:BV:35:LEU:HB2	54:BV:57:VAL:HG13	2.00	0.43
55:BW:68:ARG:HG3	55:BW:68:ARG:NH1	2.34	0.43
56:BX:57:LEU:N	56:BX:57:LEU:CD1	2.82	0.43
58:BZ:45:ASP:O	58:BZ:49:ARG:N	2.50	0.43
58:BZ:145:GLU:OE1	58:BZ:146:ILE:HG23	2.19	0.43
1:CA:355:C:H4'	1:CA:388:G:HO2'	1.83	0.43
1:CA:474:G:H2'	1:CA:475:G:C8	2.54	0.43
1:CA:1179:A:H2'	1:CA:1180:A:O4'	2.19	0.43
1:CA:1494:G:H2'	1:CA:1495:U:H6	1.83	0.43
2:CB:42:ILE:O	2:CB:42:ILE:HG23	2.19	0.43
2:CB:101:MET:O	2:CB:102:LEU:HD12	2.18	0.43
2:CB:109:SER:O	2:CB:111:ARG:N	2.52	0.43
5:CE:71:LEU:CD2	5:CE:115:VAL:HG22	2.48	0.43
11:CK:115:PRO:C	11:CK:117:ASN:N	2.72	0.43
24:CY:50:GLN:OE1	24:CY:50:GLN:O	2.37	0.43
24:CY:145:GLU:HG3	24:CY:151:VAL:CG2	2.48	0.43
24:CY:341:LEU:O	24:CY:342:MET:C	2.62	0.43
25:D0:49:LYS:H	25:D0:80:HIS:HD1	1.65	0.43
35:DA:480:A:H2'	35:DA:481:G:OP1	2.19	0.43
35:DA:1053:C:O2'	35:DA:1054:A:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.53	0.43
35:DA:1156:A:OP1	53:DU:55:ARG:NH1	2.52	0.43
35:DA:1439:A:H2'	35:DA:1440:G:O4'	2.19	0.43
35:DA:1495:A:H2'	35:DA:1496:A:N3	2.34	0.43
35:DA:1832:C:H2'	35:DA:1833:U:O5'	2.19	0.43
35:DA:2821:A:OP2	50:DR:2:ARG:NH1	2.52	0.43
44:DJ:74:UNK:C	44:DJ:76:UNK:N	2.82	0.43
45:DK:61:ALA:C	45:DK:63:ARG:H	2.26	0.43
45:DK:67:PHE:CD1	45:DK:67:PHE:N	2.85	0.43
51:DS:15:ARG:HA	51:DS:15:ARG:HD3	1.79	0.43
52:DT:30:VAL:CG1	52:DT:84:GLN:HG3	2.27	0.43
54:DV:55:ALA:HA	54:DV:101:GLY:OXT	2.19	0.43
56:DX:57:LEU:N	56:DX:57:LEU:CD1	2.81	0.43
58:DZ:132:ASN:O	58:DZ:133:ILE:C	2.61	0.43
1:AA:308:C:H2'	1:AA:309:G:C8	2.47	0.42
1:AA:484:G:O2'	1:AA:485:G:P	2.77	0.42
1:AA:624:C:H4'	16:AP:10:GLY:O	2.19	0.42
1:AA:994:A:H2'	1:AA:994:A:N3	2.34	0.42
1:AA:1382:C:H4'	7:AG:79:ARG:HH12	1.84	0.42
3:AC:5:ILE:C	3:AC:5:ILE:CD1	2.92	0.42
3:AC:35:GLU:OE2	3:AC:59:ARG:NH2	2.52	0.42
3:AC:118:GLN:O	3:AC:121:ALA:HB3	2.19	0.42
9:AI:85:LEU:HD13	9:AI:92:TYR:HD2	1.84	0.42
10:AJ:13:HIS:C	10:AJ:15:THR:N	2.76	0.42
10:AJ:83:GLU:C	10:AJ:85:LEU:N	2.77	0.42
12:AL:86:ARG:HB3	12:AL:101:VAL:CG2	2.49	0.42
12:AL:119:LYS:HB2	12:AL:120:TYR:HD1	1.84	0.42
18:AR:79:LEU:HA	18:AR:80:PRO:HD3	1.77	0.42
20:AT:50:GLU:CB	20:AT:100:ILE:HG21	2.49	0.42
22:AV:24:G:C6	22:AV:25:C:C4	3.06	0.42
22:AW:70:G:H2'	22:AW:71:G:C5'	2.41	0.42
24:AY:186:VAL:C	24:AY:187:HIS:CD2	2.97	0.42
24:AY:267:SER:HG	24:AY:270:LYS:HB2	1.83	0.42
25:B0:53:MET:HE1	25:B0:57:PHE:HD1	1.83	0.42
31:B6:15:GLU:CD	31:B6:18:ARG:HG3	2.42	0.42
34:B9:15:LYS:HZ3	35:BA:2753:A:H1'	1.80	0.42
35:BA:16:G:H2'	35:BA:17:G:H8	1.84	0.42
35:BA:237:C:H2'	35:BA:238:C:H6	1.84	0.42
35:BA:626:U:N3	48:BP:105:LEU:HB3	2.33	0.42
35:BA:630:G:N2	35:BA:633:A:OP2	2.45	0.42
35:BA:654:A:H1'	35:BA:654(A):G:C1'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:955:C:OP1	49:BQ:87:LYS:HE2	2.19	0.42
35:BA:1999:C:O2'	35:BA:2000:G:H5'	2.19	0.42
35:BA:2419:U:H2'	35:BA:2420:C:C6	2.54	0.42
35:BA:2758:A:C2'	35:BA:2759:G:C5'	2.80	0.42
37:BC:74:VAL:HA	37:BC:119:VAL:O	2.18	0.42
37:BC:83:ILE:O	37:BC:83:ILE:HG22	2.19	0.42
38:BD:35:LYS:HZ1	38:BD:103:ARG:HA	1.83	0.42
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.82	0.42
39:BE:55:ASN:HD22	39:BE:55:ASN:HA	1.57	0.42
39:BE:198:VAL:HG12	39:BE:199:ARG:N	2.34	0.42
40:BF:54:ARG:HB2	40:BF:79:GLY:O	2.19	0.42
40:BF:64:ILE:C	40:BF:65:TRP:CD1	2.97	0.42
41:BG:67:LYS:HA	41:BG:68:PRO:HD3	1.81	0.42
42:BH:86:GLU:H	42:BH:86:GLU:CD	2.27	0.42
45:BK:105:LEU:C	45:BK:105:LEU:HD23	2.44	0.42
48:BP:31:ALA:O	48:BP:32:THR:C	2.62	0.42
48:BP:39:LYS:O	48:BP:40:SER:HB2	2.19	0.42
49:BQ:26:TYR:CD1	49:BQ:26:TYR:C	2.97	0.42
49:BQ:26:TYR:O	49:BQ:26:TYR:HD1	2.01	0.42
51:BS:33:LYS:C	51:BS:34:HIS:CD2	2.97	0.42
53:BU:62:ILE:HD12	53:BU:76:TYR:OH	2.19	0.42
56:BX:43:VAL:O	56:BX:47:PHE:HD1	2.02	0.42
58:BZ:42:VAL:CG2	58:BZ:46:LYS:HE3	2.48	0.42
1:CA:145:G:H2'	1:CA:146:G:O4'	2.19	0.42
1:CA:155:C:H2'	1:CA:156:G:H8	1.84	0.42
1:CA:311:C:O2'	1:CA:312:C:H5'	2.19	0.42
1:CA:539:A:H2'	1:CA:540:G:C8	2.54	0.42
1:CA:738:C:OP2	6:CF:92:LYS:HE2	2.19	0.42
1:CA:1267:C:O2	1:CA:1327:C:H4'	2.19	0.42
1:CA:1457:G:H8	1:CA:1457:G:O5'	2.02	0.42
2:CB:164:VAL:O	2:CB:186:ALA:CB	2.65	0.42
2:CB:204:ASN:ND2	2:CB:207:ALA:CB	2.80	0.42
3:CC:24:ALA:HB1	3:CC:29:TYR:HA	2.00	0.42
3:CC:87:LEU:O	3:CC:88:ARG:C	2.61	0.42
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	2.00	0.42
4:CD:11:LEU:C	4:CD:13:ARG:N	2.72	0.42
5:CE:126:ARG:HH11	5:CE:126:ARG:CG	2.21	0.42
7:CG:91:VAL:O	7:CG:92:SER:C	2.61	0.42
8:CH:97:VAL:HG13	8:CH:98:LYS:HG3	2.01	0.42
9:CI:104:ARG:O	9:CI:105:ASP:HB2	2.18	0.42
10:CJ:24:VAL:C	10:CJ:26:ALA:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:112:THR:HG23	11:CK:113:PRO:HD2	2.01	0.42
11:CK:124:LYS:HB3	11:CK:125:PHE:HD1	1.84	0.42
17:CQ:70:ARG:O	17:CQ:71:PHE:CG	2.72	0.42
20:CT:50:GLU:CB	20:CT:100:ILE:HG21	2.49	0.42
24:CY:339:GLY:C	24:CY:341:LEU:N	2.76	0.42
30:D5:40:LYS:HG2	30:D5:46:CYS:HB2	2.00	0.42
31:D6:11:LEU:CD2	31:D6:26:ASN:N	2.80	0.42
31:D6:52:VAL:CG1	31:D6:53:LYS:N	2.82	0.42
35:DA:247:G:H4'	35:DA:386:G:C6	2.53	0.42
35:DA:460:A:C2	35:DA:470:A:C4	3.07	0.42
35:DA:585:G:H2'	35:DA:1251:C:H42	1.83	0.42
35:DA:717:G:H2'	35:DA:718:A:O4'	2.18	0.42
35:DA:753:C:H6	35:DA:753:C:O5'	2.01	0.42
35:DA:947:G:N3	35:DA:984:A:H2	2.17	0.42
35:DA:1024:G:H21	35:DA:1144:G:C4'	2.32	0.42
35:DA:1208:C:O2'	35:DA:1209:G:H5'	2.19	0.42
35:DA:1427:A:O2'	35:DA:1428:C:OP2	2.36	0.42
35:DA:1472:A:H61	35:DA:1519:G:C2'	2.31	0.42
35:DA:1568:G:H4'	38:DD:59:LYS:HB3	2.00	0.42
35:DA:1887:C:C3'	35:DA:1888:G:H5"	2.47	0.42
35:DA:2138:C:O2	35:DA:2138:C:H2'	2.19	0.42
35:DA:2195:C:H2'	35:DA:2196:C:H6	1.84	0.42
35:DA:2291:U:H5"	35:DA:2380:C:O2'	2.19	0.42
35:DA:2308:G:H2'	35:DA:2309:A:O5'	2.19	0.42
35:DA:2408:U:H2'	35:DA:2409:G:C8	2.54	0.42
35:DA:2603:G:O2'	35:DA:2604:U:H5'	2.19	0.42
35:DA:2745:C:H2'	35:DA:2746:U:H6	1.84	0.42
35:DA:2892:A:H3'	35:DA:2893:G:H5"	2.00	0.42
35:DA:2892:A:N6	35:DA:2893:G:N3	2.67	0.42
36:DB:7:G:H3'	36:DB:8:U:C5'	2.49	0.42
38:DD:133:LEU:HD21	38:DD:191:ALA:HB2	2.00	0.42
38:DD:244:ARG:HG2	38:DD:244:ARG:NH1	2.34	0.42
40:DF:170:LEU:HD12	40:DF:170:LEU:HA	1.86	0.42
41:DG:10:LYS:HE2	41:DG:176:LEU:O	2.19	0.42
59:DI:33:ARG:O	59:DI:35:LEU:HG	2.18	0.42
44:DJ:105:UNK:C	44:DJ:107:UNK:N	2.76	0.42
46:DN:19:GLU:O	46:DN:59:LYS:HB3	2.19	0.42
47:DO:25:LEU:HD11	47:DO:40:VAL:HG23	2.00	0.42
48:DP:87:ASP:C	48:DP:89:ALA:N	2.76	0.42
51:DS:14:VAL:CG1	51:DS:15:ARG:N	2.62	0.42
52:DT:16:ARG:HD3	52:DT:17:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:92:GLY:C	52:DT:94:ALA:N	2.74	0.42
57:DY:4:LYS:NZ	57:DY:5:MET:HE3	2.34	0.42
1:AA:21:G:H2'	1:AA:22:G:C8	2.54	0.42
1:AA:400:C:O2'	1:AA:401:C:H5'	2.19	0.42
1:AA:431:A:O2'	1:AA:432:A:H5'	2.19	0.42
1:AA:477:A:H2'	1:AA:479:C:H6	1.82	0.42
1:AA:801:U:H2'	1:AA:802:A:C8	2.54	0.42
1:AA:1055:A:N7	1:AA:1200:C:N4	2.67	0.42
1:AA:1452:C:H4'	1:AA:1456:G:C2	2.53	0.42
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.19	0.42
2:AB:55:PHE:HA	2:AB:58:ILE:CG1	2.49	0.42
2:AB:115:LEU:HG	2:AB:153:ARG:HH21	1.83	0.42
4:AD:14:ARG:HA	4:AD:39:PRO:CG	2.46	0.42
5:AE:43:LEU:HB3	5:AE:136:MET:HE2	2.01	0.42
5:AE:126:ARG:NH1	5:AE:126:ARG:CG	2.81	0.42
7:AG:91:VAL:O	7:AG:92:SER:C	2.63	0.42
11:AK:69:ALA:O	11:AK:73:MET:HG2	2.19	0.42
12:AL:27:LEU:C	12:AL:29:GLY:N	2.77	0.42
12:AL:74:GLY:O	12:AL:102:ARG:NH1	2.47	0.42
13:AM:14:ARG:HD2	13:AM:42:ALA:HA	2.01	0.42
14:AN:19:ARG:O	14:AN:20:ALA:C	2.62	0.42
15:AO:60:VAL:HG11	35:BA:715:G:O4'	2.19	0.42
20:AT:27:LYS:O	20:AT:27:LYS:HE2	2.19	0.42
22:AV:28:G:N2	22:AV:43:C:H1'	2.34	0.42
25:B0:36:ILE:HD11	35:BA:2355:C:H4'	2.01	0.42
26:B1:62:VAL:HG22	26:B1:63:ALA:N	2.32	0.42
29:B4:41:ILE:HD13	29:B4:47:VAL:HG13	2.01	0.42
33:B8:19:SER:HB2	35:BA:651:G:OP1	2.19	0.42
33:B8:39:LYS:O	33:B8:40:GLU:C	2.62	0.42
35:BA:27:G:N2	35:BA:512:G:O2'	2.53	0.42
35:BA:234:C:H2'	35:BA:235:U:H6	1.84	0.42
35:BA:304:G:H2'	35:BA:305:U:C6	2.54	0.42
35:BA:330:A:O2'	35:BA:331:A:C8	2.64	0.42
35:BA:350:U:H2'	35:BA:351:G:O4'	2.19	0.42
35:BA:370:G:H3'	35:BA:423:A:C6	2.54	0.42
35:BA:504:U:O2	35:BA:504:U:O4'	2.36	0.42
35:BA:609:A:H2'	35:BA:610:G:O4'	2.19	0.42
35:BA:638:G:C5	35:BA:651:G:C2	3.07	0.42
35:BA:709:U:H3	35:BA:722:A:H61	1.66	0.42
35:BA:887:A:N3	35:BA:889:C:OP2	2.52	0.42
35:BA:955:C:H5'	35:BA:956:G:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:981:A:N1	35:BA:2027:G:O2'	2.51	0.42
35:BA:1034:G:C5	35:BA:1035:U:C5	3.07	0.42
35:BA:1300:U:O2	35:BA:1300:U:O4'	2.37	0.42
35:BA:1495:A:N3	35:BA:1495:A:H2'	2.34	0.42
35:BA:1639:U:H4'	35:BA:2699:C:H4'	2.01	0.42
35:BA:1841:U:C2'	38:BD:244:ARG:HH22	2.31	0.42
35:BA:2068:U:N3	35:BA:2430:A:C2	2.65	0.42
35:BA:2107:C:H42	35:BA:2182:G:H1	1.66	0.42
35:BA:2277:G:C2'	35:BA:2278:A:H5'	2.48	0.42
35:BA:2305:A:C2	35:BA:2306:C:H1'	2.54	0.42
35:BA:2605:U:H2'	35:BA:2606:C:H6	1.84	0.42
35:BA:2619:C:H5"	39:BE:152:LYS:HA	2.00	0.42
35:BA:2738:A:C2	35:BA:2739:U:H1'	2.54	0.42
39:BE:3:GLY:O	39:BE:4:ILE:HB	2.19	0.42
40:BF:135:LYS:HB3	40:BF:138:GLU:OE2	2.18	0.42
41:BG:56:ALA:O	41:BG:60:LEU:HB2	2.19	0.42
41:BG:130:ASN:OD1	41:BG:159:VAL:O	2.36	0.42
41:BG:133:LEU:CD1	41:BG:135:LEU:HD11	2.49	0.42
41:BG:138:GLN:C	41:BG:140:ILE:N	2.75	0.42
46:BN:128:HIS:CE1	46:BN:134:ARG:HD3	2.54	0.42
47:BO:34:THR:O	47:BO:35:VAL:C	2.63	0.42
48:BP:125:VAL:O	48:BP:125:VAL:HG13	2.19	0.42
48:BP:128:HIS:O	48:BP:147:LEU:HD22	2.19	0.42
49:BQ:18:LYS:O	49:BQ:19:GLY:O	2.37	0.42
51:BS:26:LEU:HD22	51:BS:26:LEU:O	2.20	0.42
53:BU:64:ARG:HG2	53:BU:64:ARG:HH21	1.83	0.42
54:BV:6:LYS:HE2	54:BV:37:VAL:HG12	2.00	0.42
57:BY:2:ARG:N	57:BY:5:MET:CE	2.81	0.42
57:BY:8:LYS:N	57:BY:8:LYS:CD	2.75	0.42
1:CA:60:A:H8	1:CA:60:A:O5'	2.02	0.42
1:CA:552:U:O2	12:CL:31:PRO:HB3	2.18	0.42
1:CA:625:G:C4	1:CA:626:U:C5	3.07	0.42
1:CA:659:U:O2'	1:CA:660:G:H5'	2.18	0.42
1:CA:1023:G:H2'	1:CA:1023:G:N3	2.34	0.42
1:CA:1073:U:OP2	5:CE:57:LYS:HE3	2.19	0.42
1:CA:1186:G:C2	1:CA:1187:G:H1'	2.54	0.42
1:CA:1415:G:O2'	1:CA:1416:G:H5'	2.18	0.42
1:CA:1498:U:H4'	1:CA:1519:A:H2	1.85	0.42
2:CB:50:GLU:O	2:CB:54:THR:N	2.47	0.42
4:CD:60:GLU:OE1	4:CD:198:VAL:HA	2.19	0.42
4:CD:124:GLY:C	4:CD:126:ILE:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:192:GLU:O	4:CD:193:ASP:C	2.62	0.42
8:CH:10:LEU:O	8:CH:13:ILE:HB	2.18	0.42
9:CI:4:TYR:CE2	9:CI:59:PHE:HE2	2.36	0.42
9:CI:59:PHE:O	9:CI:61:ALA:N	2.52	0.42
10:CJ:56:HIS:C	10:CJ:58:ASP:N	2.74	0.42
11:CK:41:THR:HG22	11:CK:42:TRP:N	2.34	0.42
13:CM:25:ILE:HD12	13:CM:25:ILE:N	2.35	0.42
13:CM:87:TYR:HE1	19:CS:81:ARG:NH2	2.17	0.42
13:CM:108:ARG:NH1	13:CM:111:LYS:HB2	2.33	0.42
17:CQ:5:VAL:HG13	17:CQ:59:ILE:O	2.19	0.42
17:CQ:76:LEU:CG	17:CQ:77:VAL:N	2.81	0.42
18:CR:47:THR:O	18:CR:82:THR:HA	2.19	0.42
18:CR:76:LEU:N	18:CR:76:LEU:HD22	2.35	0.42
19:CS:61:TYR:CD2	19:CS:62:ILE:N	2.87	0.42
24:CY:10:LEU:O	24:CY:11:GLU:C	2.62	0.42
24:CY:11:GLU:O	24:CY:12:GLY:O	2.36	0.42
24:CY:45:ALA:C	24:CY:47:LYS:N	2.76	0.42
28:D3:3:ARG:O	28:D3:4:LEU:O	2.37	0.42
31:D6:20:ASN:CG	31:D6:21:TYR:N	2.77	0.42
31:D6:28:ARG:C	31:D6:32:ASN:HB3	2.41	0.42
35:DA:26:G:C6	35:DA:27:G:N1	2.87	0.42
35:DA:36:G:N3	35:DA:450:G:O2'	2.51	0.42
35:DA:272:G:O6	35:DA:421:U:H2'	2.19	0.42
35:DA:389:G:H22	48:DP:72:PRO:HD3	1.83	0.42
35:DA:654(U):A:H2'	35:DA:654(V):A:H8	1.84	0.42
35:DA:1462:C:H4'	35:DA:2703:C:O4'	2.19	0.42
35:DA:1528(A):A:H3'	35:DA:1529:G:H5"	2.01	0.42
35:DA:1532:C:O2	35:DA:1532:C:O4'	2.36	0.42
35:DA:1839:G:H8	35:DA:1839:G:H5'	1.84	0.42
35:DA:2178:C:H2'	35:DA:2179:C:C6	2.54	0.42
35:DA:2235:G:H2'	35:DA:2236:C:C6	2.54	0.42
35:DA:2789:C:H4'	35:DA:2789:C:OP1	2.20	0.42
37:DC:96:GLY:C	37:DC:98:GLU:N	2.77	0.42
38:DD:30:GLU:CD	38:DD:63:ARG:HH21	2.28	0.42
38:DD:248:SER:O	38:DD:249:PRO:C	2.60	0.42
39:DE:116:VAL:CG2	39:DE:122:PHE:CD2	2.99	0.42
40:DF:178:PRO:C	40:DF:180:GLY:H	2.28	0.42
47:DO:104:ARG:CB	47:DO:104:ARG:NH1	2.82	0.42
48:DP:57:THR:O	48:DP:59:LEU:N	2.47	0.42
50:DR:44:LEU:O	50:DR:45:ARG:C	2.62	0.42
50:DR:101:ALA:O	50:DR:102:GLU:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:3:ARG:O	52:DT:5:ALA:N	2.52	0.42
52:DT:28:VAL:HB	52:DT:88:ILE:HG13	2.01	0.42
55:DW:68:ARG:O	55:DW:110:LYS:N	2.53	0.42
57:DY:81:LYS:HD3	57:DY:97:ARG:CB	2.20	0.42
1:AA:60:A:H8	1:AA:60:A:O5'	2.02	0.42
1:AA:430:A:C2'	1:AA:431:A:H5'	2.49	0.42
1:AA:472:A:C2'	1:AA:473:G:H5'	2.49	0.42
1:AA:600:C:O2'	1:AA:601:C:H5'	2.18	0.42
1:AA:607:A:C2	16:AP:31:LYS:HG3	2.54	0.42
1:AA:930:C:C2'	1:AA:931:C:H5'	2.50	0.42
3:AC:54:ARG:HG2	3:AC:55:VAL:N	2.34	0.42
9:AI:23:ASN:N	9:AI:23:ASN:ND2	2.67	0.42
9:AI:53:VAL:HG23	9:AI:55:ALA:CB	2.49	0.42
14:AN:7:ILE:HA	14:AN:10:ALA:CB	2.49	0.42
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.19	0.42
16:AP:75:ARG:C	16:AP:77:ALA:N	2.71	0.42
24:AY:113:GLU:HA	24:AY:175:ASN:HA	2.02	0.42
24:AY:222:LEU:HD11	24:AY:253:HIS:HE2	1.84	0.42
24:AY:279:LEU:CD2	24:AY:279:LEU:C	2.91	0.42
25:B0:20:ARG:NH1	35:BA:2271:G:H4'	2.34	0.42
32:B7:10:ARG:O	32:B7:14:LYS:HB2	2.19	0.42
35:BA:320:A:H4'	35:BA:322:A:N7	2.34	0.42
35:BA:635:C:O2'	35:BA:639:U:OP1	2.37	0.42
35:BA:665:C:O2'	35:BA:666:G:H5'	2.20	0.42
35:BA:786:C:O2'	35:BA:787:U:H5'	2.19	0.42
35:BA:817:C:O2'	35:BA:839:U:H5"	2.18	0.42
35:BA:1013:C:O2'	35:BA:1014:U:H5'	2.19	0.42
35:BA:1408:C:H2'	35:BA:1409:C:C6	2.54	0.42
35:BA:1453:U:OP1	50:BR:77:ARG:NH1	2.52	0.42
35:BA:2023:G:H4'	35:BA:2617:C:O3'	2.20	0.42
35:BA:2138:C:H2'	35:BA:2138:C:O2	2.19	0.42
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.19	0.42
35:BA:2776:A:H4'	35:BA:2777:G:H5"	2.01	0.42
36:BB:91:C:OP2	49:BQ:16:ARG:NH1	2.51	0.42
37:BC:64:LEU:HA	37:BC:65:PRO:HD2	1.91	0.42
40:BF:185:ASP:OD1	40:BF:188:ARG:NH1	2.52	0.42
42:BH:89:ILE:HD11	42:BH:129:THR:CB	2.50	0.42
42:BH:120:GLY:HA3	42:BH:140:LYS:NZ	2.34	0.42
43:BI:15:VAL:HG12	43:BI:16:GLY:H	1.80	0.42
43:BI:31:LEU:CD2	43:BI:38:LEU:HD23	2.49	0.42
45:BK:61:ALA:C	45:BK:63:ARG:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:40:VAL:CG1	47:BO:41:ALA:N	2.82	0.42
48:BP:23:PRO:HD2	48:BP:33:ARG:HE	1.84	0.42
48:BP:87:ASP:O	48:BP:89:ALA:N	2.51	0.42
49:BQ:1:MET:O	49:BQ:2:LEU:HB3	2.18	0.42
49:BQ:21:THR:HG21	49:BQ:101:ARG:CD	2.49	0.42
50:BR:10:LEU:HD22	50:BR:17:ARG:HG2	2.01	0.42
50:BR:44:LEU:HD12	50:BR:48:VAL:HG23	2.02	0.42
51:BS:49:VAL:HG12	51:BS:50:SER:H	1.83	0.42
53:BU:92:ARG:HH11	54:BV:11:GLN:H	1.67	0.42
54:BV:39:LEU:HA	54:BV:47:VAL:CG2	2.49	0.42
57:BY:45:VAL:HA	57:BY:62:GLU:CB	2.49	0.42
58:BZ:125:LEU:HD12	58:BZ:126:VAL:H	1.84	0.42
1:CA:308:C:H2'	1:CA:309:G:C8	2.49	0.42
1:CA:331:G:OP1	1:CA:332:G:H8	2.03	0.42
1:CA:947:G:C6	1:CA:948:C:C4	3.07	0.42
1:CA:977:A:C2'	1:CA:978:A:H5'	2.48	0.42
1:CA:1147:C:O2	9:CI:16:ARG:CZ	2.67	0.42
1:CA:1152:A:H3'	10:CJ:13:HIS:ND1	2.34	0.42
1:CA:1313:U:O2'	1:CA:1314:C:H5'	2.18	0.42
1:CA:1316:G:C3'	1:CA:1317:C:H5"	2.49	0.42
4:CD:30:LYS:CA	4:CD:35:ARG:HD2	2.49	0.42
4:CD:177:ASP:OD1	4:CD:180:GLY:N	2.52	0.42
5:CE:146:ALA:O	5:CE:148:VAL:N	2.52	0.42
13:CM:15:VAL:CG1	13:CM:45:VAL:HG22	2.46	0.42
13:CM:45:VAL:O	13:CM:45:VAL:HG12	2.19	0.42
16:CP:47:ASP:C	16:CP:49:LEU:N	2.77	0.42
17:CQ:80:GLY:C	17:CQ:82:MET:N	2.77	0.42
19:CS:15:LEU:O	19:CS:18:LYS:HB3	2.20	0.42
20:CT:98:PRO:O	20:CT:99:LEU:O	2.38	0.42
22:CV:68:C:C2'	22:CV:69:G:H5'	2.50	0.42
22:CV:75:C:OP1	35:DA:2602:A:OP1	2.36	0.42
22:CW:64:A:H2'	22:CW:65:G:C8	2.54	0.42
22:CW:70:G:H2'	22:CW:71:G:H5"	2.02	0.42
25:D0:48:GLY:HA3	25:D0:80:HIS:CG	2.54	0.42
35:DA:272(J):C:N4	35:DA:363(A):A:N6	2.67	0.42
35:DA:306:U:C2'	35:DA:307:G:H5'	2.50	0.42
35:DA:350:U:H2'	35:DA:351:G:O4'	2.20	0.42
35:DA:814:C:O2'	35:DA:815:C:H5'	2.19	0.42
35:DA:885:C:C2	35:DA:886:C:N4	2.87	0.42
35:DA:1453:U:H5'	50:DR:63:ARG:NE	2.34	0.42
35:DA:1571:A:H2'	35:DA:1572:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1865:G:H5'	35:DA:1866:C:P	2.59	0.42
35:DA:1902:C:H1'	38:DD:244:ARG:HD3	2.00	0.42
35:DA:1948:G:C2'	35:DA:1949:G:H5'	2.49	0.42
35:DA:1973:G:H2'	35:DA:1974:C:H6	1.85	0.42
35:DA:2125:G:N2	35:DA:2172:U:OP1	2.46	0.42
35:DA:2348:U:C3'	35:DA:2349:G:H5"	2.46	0.42
35:DA:2810:A:C2'	39:DE:61:ARG:CZ	2.97	0.42
36:DB:94:C:H2'	36:DB:95:C:H6	1.84	0.42
37:DC:58:VAL:HG21	37:DC:166:ASP:H	1.84	0.42
38:DD:138:VAL:O	38:DD:138:VAL:HG13	2.19	0.42
40:DF:129:PHE:CE1	40:DF:142:TRP:CH2	3.07	0.42
41:DG:16:ARG:HH11	41:DG:16:ARG:CB	2.30	0.42
41:DG:39:ILE:HG13	41:DG:92:VAL:HG12	2.00	0.42
41:DG:133:LEU:HD21	41:DG:157:ILE:HG12	2.00	0.42
42:DH:123:PHE:O	42:DH:124:GLU:HG2	2.19	0.42
46:DN:7:LYS:O	46:DN:8:GLN:C	2.61	0.42
48:DP:101:VAL:C	48:DP:103:ALA:H	2.27	0.42
51:DS:66:ALA:HA	51:DS:69:VAL:HG12	2.00	0.42
51:DS:70:GLY:C	51:DS:72:ALA:N	2.77	0.42
53:DU:29:SER:C	53:DU:30:LYS:HD3	2.44	0.42
53:DU:70:ARG:HH11	53:DU:70:ARG:HG3	1.84	0.42
53:DU:95:LEU:HD11	54:DV:11:GLN:HG3	1.98	0.42
54:DV:14:VAL:HB	54:DV:96:ILE:HG13	2.02	0.42
56:DX:39:ILE:O	56:DX:40:LYS:C	2.60	0.42
57:DY:35:TYR:CE2	57:DY:69:ALA:HB3	2.55	0.42
57:DY:54:LYS:O	57:DY:55:TYR:HB2	2.18	0.42
58:DZ:4:ARG:HH12	58:DZ:60:GLU:CD	2.27	0.42
1:AA:9:G:C5'	5:AE:122:GLU:OE2	2.67	0.42
1:AA:132:C:N3	1:AA:231:G:C2	2.87	0.42
1:AA:458:C:H2'	1:AA:460:G:H8	1.81	0.42
1:AA:642:A:N3	8:AH:113:SER:OG	2.48	0.42
1:AA:1188:A:H2'	1:AA:1189:C:C5'	2.49	0.42
1:AA:1255:G:H5'	3:AC:26:LYS:HE3	2.01	0.42
1:AA:1415:G:C4	1:AA:1416:G:C8	3.07	0.42
2:AB:142:LEU:O	2:AB:143:GLU:C	2.63	0.42
3:AC:5:ILE:HD13	3:AC:10:PHE:HB2	2.02	0.42
4:AD:3:ARG:HD3	4:AD:5:ILE:HG13	2.00	0.42
4:AD:189:PRO:O	4:AD:190:ASP:C	2.61	0.42
6:AF:2:ARG:HB2	6:AF:4:TYR:CZ	2.54	0.42
8:AH:39:LEU:HD22	8:AH:39:LEU:N	2.34	0.42
11:AK:86:GLY:O	11:AK:91:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:102:ARG:O	13:AM:102:ARG:HG3	2.19	0.42
16:AP:21:VAL:O	16:AP:21:VAL:HG22	2.20	0.42
18:AR:86:VAL:O	18:AR:87:ARG:HD3	2.19	0.42
22:AW:22:G:H5"	22:AW:46:G:O6	2.20	0.42
22:AW:39:U:H3'	22:AW:40:C:H5'	2.00	0.42
24:AY:311:ILE:O	24:AY:312:ARG:HB2	2.18	0.42
25:B0:49:LYS:O	25:B0:50:ASN:HB2	2.20	0.42
35:BA:143:G:O4'	56:BX:37:THR:HG21	2.19	0.42
35:BA:228:A:H5'	35:BA:229:A:OP2	2.20	0.42
35:BA:621:A:H2'	35:BA:622:G:H5'	2.01	0.42
35:BA:775:G:C5	35:BA:794:G:C8	3.07	0.42
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.54	0.42
35:BA:1590:U:C3'	35:BA:1591:G:H5"	2.45	0.42
35:BA:1948:G:C2'	35:BA:1949:G:H5'	2.49	0.42
35:BA:1988:C:O2'	35:BA:1989:G:H5'	2.20	0.42
35:BA:2114:A:H2	35:BA:2168:G:H1'	1.84	0.42
35:BA:2162:G:H2'	35:BA:2163:C:O4'	2.20	0.42
35:BA:2178:C:H2'	35:BA:2179:C:C6	2.53	0.42
35:BA:2370:G:H2'	35:BA:2371:G:O4'	2.19	0.42
35:BA:2862:G:C5	35:BA:2863:C:C5	3.07	0.42
38:BD:172:TYR:HD1	38:BD:185:VAL:C	2.27	0.42
39:BE:178:GLU:HG3	39:BE:179:GLU:N	2.35	0.42
41:BG:97:ASP:C	41:BG:99:MET:N	2.77	0.42
41:BG:105:LYS:HZ1	41:BG:143:GLU:HG3	1.84	0.42
41:BG:144:ILE:HD12	41:BG:145:THR:H	1.84	0.42
44:BJ:74:UNK:C	44:BJ:76:UNK:N	2.82	0.42
46:BN:133:GLN:O	46:BN:134:ARG:CB	2.67	0.42
47:BO:104:ARG:HH21	52:BT:33:LYS:CE	2.31	0.42
48:BP:13:ASN:O	48:BP:14:LYS:C	2.63	0.42
52:BT:31:SER:CB	52:BT:43:GLN:O	2.68	0.42
52:BT:94:ALA:HB1	52:BT:99:LEU:HD23	2.02	0.42
55:BW:28:SER:O	55:BW:29:LEU:C	2.61	0.42
57:BY:10:GLY:C	57:BY:27:VAL:HG13	2.44	0.42
57:BY:27:VAL:CB	57:BY:29:GLU:OE1	2.67	0.42
1:CA:21:G:H2'	1:CA:22:G:C8	2.54	0.42
1:CA:484:G:O2'	1:CA:485:G:P	2.77	0.42
1:CA:542:G:C4	1:CA:543:C:C5	3.08	0.42
1:CA:693:G:H2'	1:CA:694:A:O4'	2.19	0.42
1:CA:939:G:H2'	1:CA:940:C:C6	2.54	0.42
1:CA:993:G:N2	1:CA:1046:A:H1'	2.35	0.42
1:CA:1323:G:H4'	1:CA:1363:C:O2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.49	0.42
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.84	0.42
3:CC:164:ARG:CZ	3:CC:164:ARG:HB2	2.49	0.42
4:CD:61:LYS:NZ	4:CD:62:GLN:NE2	2.68	0.42
4:CD:73:ARG:HB2	4:CD:73:ARG:NH1	2.29	0.42
4:CD:171:GLY:O	4:CD:174:LEU:N	2.53	0.42
4:CD:205:GLU:C	4:CD:207:TYR:N	2.75	0.42
7:CG:6:ARG:NH2	7:CG:94:ARG:HH22	2.15	0.42
7:CG:108:ALA:O	7:CG:119:ARG:HB3	2.19	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	2.01	0.42
12:CL:83:VAL:CG2	12:CL:84:LEU:N	2.81	0.42
16:CP:39:TYR:CD1	16:CP:73:LEU:HD13	2.54	0.42
22:CV:39:U:O2'	22:CV:40:C:H5'	2.19	0.42
24:CY:276:LEU:O	24:CY:277:LYS:C	2.61	0.42
25:D0:41:ARG:HD3	25:D0:44:ARG:CD	2.49	0.42
25:D0:43:THR:HG21	35:DA:2336:A:H61	1.84	0.42
27:D2:40:SER:C	27:D2:42:GLY:H	2.26	0.42
30:D5:4:HIS:CB	30:D5:5:PRO:CD	2.88	0.42
30:D5:16:ARG:NH1	30:D5:17:ASP:OD1	2.52	0.42
32:D7:47:ARG:O	32:D7:48:LYS:HD3	2.19	0.42
35:DA:228:A:H2'	35:DA:230:U:O4'	2.20	0.42
35:DA:466:A:N3	35:DA:683:C:H1'	2.34	0.42
35:DA:958:U:H3'	35:DA:958:U:C6	2.54	0.42
35:DA:2503:A:H4'	35:DA:2504:U:OP1	2.20	0.42
36:DB:14:U:OP2	36:DB:70:C:O2'	2.37	0.42
36:DB:52:A:O2'	36:DB:53:A:C8	2.71	0.42
36:DB:85:G:C2'	36:DB:86:G:H5'	2.50	0.42
37:DC:121:GLY:HA2	37:DC:145:VAL:CB	2.49	0.42
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.55	0.42
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.83	0.42
38:DD:261:LYS:HB2	38:DD:261:LYS:HZ3	1.82	0.42
39:DE:4:ILE:HG21	39:DE:96:PHE:HE2	1.83	0.42
39:DE:17:ASP:OD2	39:DE:17:ASP:C	2.59	0.42
40:DF:64:ILE:O	40:DF:65:TRP:CD1	2.72	0.42
41:DG:27:ASN:C	41:DG:29:TRP:N	2.76	0.42
41:DG:108:ASN:C	41:DG:109:VAL:CG2	2.92	0.42
41:DG:117:PHE:HZ	41:DG:179:PRO:HB2	1.84	0.42
42:DH:125:VAL:O	42:DH:127:GLU:N	2.52	0.42
46:DN:57:ALA:C	46:DN:58:ASP:O	2.60	0.42
48:DP:121:LYS:O	48:DP:123:LEU:HD23	2.19	0.42
56:DX:29:TRP:CZ2	56:DX:76:ARG:NH2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:4:ARG:HH12	58:DZ:60:GLU:CG	2.32	0.42
1:AA:79:G:C4	1:AA:80:G:C8	3.08	0.42
1:AA:80:G:H2'	1:AA:80:G:N3	2.34	0.42
1:AA:169:C:O2'	1:AA:170:U:H5'	2.20	0.42
1:AA:187:C:O2'	20:AT:89:ARG:HD2	2.18	0.42
1:AA:438:G:H4'	4:AD:123:HIS:ND1	2.35	0.42
1:AA:539:A:H2'	1:AA:540:G:H8	1.85	0.42
1:AA:754:C:H3'	1:AA:754:C:O2	2.19	0.42
1:AA:794:A:H2'	1:AA:795:C:C6	2.55	0.42
1:AA:924:C:H5'	1:AA:1399:C:OP2	2.19	0.42
1:AA:1186:G:C2	1:AA:1187:G:H1'	2.54	0.42
1:AA:1346:A:C5	7:AG:10:ARG:NH1	2.88	0.42
2:AB:109:SER:C	2:AB:111:ARG:N	2.77	0.42
3:AC:87:LEU:O	3:AC:88:ARG:C	2.61	0.42
3:AC:156:ARG:O	3:AC:157:ILE:C	2.63	0.42
4:AD:205:GLU:C	4:AD:207:TYR:N	2.76	0.42
5:AE:34:VAL:O	5:AE:41:VAL:HA	2.20	0.42
6:AF:2:ARG:HD2	6:AF:4:TYR:OH	2.19	0.42
8:AH:36:LEU:HA	8:AH:39:LEU:HD23	2.00	0.42
8:AH:103:VAL:C	8:AH:105:ARG:N	2.77	0.42
9:AI:112:LYS:HA	9:AI:119:ALA:HA	2.01	0.42
11:AK:120:ARG:NH1	11:AK:126:ARG:HE	2.18	0.42
13:AM:30:ALA:C	13:AM:32:GLU:H	2.27	0.42
16:AP:82:GLN:O	16:AP:84:ALA:N	2.52	0.42
17:AQ:22:LEU:HD11	17:AQ:39:SER:CB	2.50	0.42
17:AQ:50:LYS:HE3	17:AQ:51:TYR:HE1	1.84	0.42
19:AS:6:LYS:N	19:AS:6:LYS:HD2	2.35	0.42
19:AS:11:VAL:O	19:AS:12:ASP:C	2.62	0.42
24:AY:115:ASN:ND2	24:AY:173:GLY:O	2.52	0.42
25:B0:43:THR:HG21	35:BA:2336:A:H61	1.84	0.42
29:B4:37:PRO:O	29:B4:55:PRO:HB3	2.19	0.42
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.52	0.42
31:B6:15:GLU:CD	31:B6:43:CYS:SG	3.02	0.42
31:B6:15:GLU:OE2	31:B6:41:PRO:CB	2.67	0.42
35:BA:204:A:OP1	35:BA:204:A:H8	2.02	0.42
35:BA:840:C:H2'	35:BA:841:A:C8	2.54	0.42
35:BA:1057:A:O2'	35:BA:1058:G:H5'	2.20	0.42
35:BA:1142(A):A:O2'	35:BA:1143:A:H3'	2.19	0.42
35:BA:2263:C:O2'	35:BA:2264:C:H5'	2.18	0.42
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.20	0.42
36:BB:1:U:O2	36:BB:1:U:H2'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:83:G:C6	36:BB:84:C:C5	3.08	0.42
37:BC:168:THR:HA	37:BC:173:ALA:CB	2.24	0.42
38:BD:270:ILE:C	38:BD:271:ILE:HG13	2.45	0.42
41:BG:125:PHE:O	41:BG:128:ARG:HG2	2.19	0.42
45:BK:21:PRO:CB	45:BK:22:PRO:HD3	2.32	0.42
46:BN:63:THR:O	46:BN:66:LYS:HG2	2.20	0.42
46:BN:90:MET:O	46:BN:91:LEU:C	2.63	0.42
47:BO:104:ARG:NE	52:BT:33:LYS:HD2	2.35	0.42
48:BP:26:GLY:HA2	48:BP:30:THR:CG2	2.48	0.42
48:BP:47:ASP:H	48:BP:48:PRO:HA	1.85	0.42
49:BQ:48:GLU:C	49:BQ:50:ALA:H	2.26	0.42
52:BT:77:PRO:O	52:BT:78:LEU:HB3	2.19	0.42
52:BT:92:GLY:C	52:BT:94:ALA:N	2.75	0.42
54:BV:17:GLY:HA2	54:BV:96:ILE:O	2.19	0.42
54:BV:18:LEU:CD1	54:BV:19:LYS:H	2.32	0.42
58:BZ:121:HIS:C	58:BZ:123:ASP:H	2.27	0.42
1:CA:658:G:O2'	1:CA:659:U:H5'	2.19	0.42
1:CA:720:C:H5"	18:CR:52:PRO:HA	2.01	0.42
1:CA:883:C:O2'	1:CA:884:U:H5'	2.19	0.42
1:CA:979:C:C3'	1:CA:980:C:C5'	2.85	0.42
1:CA:1150:U:O2'	10:CJ:41:PRO:HD3	2.19	0.42
1:CA:1382:C:H4'	7:CG:79:ARG:HH12	1.84	0.42
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.82	0.42
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.48	0.42
2:CB:11:LEU:HD12	2:CB:217:ARG:CZ	2.49	0.42
2:CB:218:ALA:O	2:CB:222:ILE:HG13	2.19	0.42
4:CD:25:ARG:HH12	4:CD:30:LYS:HB2	1.83	0.42
4:CD:58:LEU:HD23	4:CD:206:PHE:CZ	2.54	0.42
6:CF:10:LEU:HA	6:CF:84:ASN:O	2.19	0.42
7:CG:15:ASP:OD2	7:CG:44:TYR:OH	2.38	0.42
7:CG:152:ALA:O	7:CG:155:ARG:NH1	2.51	0.42
8:CH:34:GLU:HA	8:CH:34:GLU:OE1	2.19	0.42
8:CH:119:LEU:HD12	8:CH:124:ALA:HA	2.00	0.42
9:CI:110:GLU:OE2	9:CI:113:LYS:NZ	2.53	0.42
11:CK:21:ILE:HG21	11:CK:94:ALA:CB	2.49	0.42
13:CM:65:LYS:HB3	13:CM:70:LEU:HD12	2.02	0.42
18:CR:70:ILE:HG23	18:CR:79:LEU:HD13	2.01	0.42
19:CS:11:VAL:O	19:CS:12:ASP:C	2.62	0.42
19:CS:43:GLU:O	19:CS:45:VAL:N	2.52	0.42
20:CT:8:ARG:HG3	20:CT:8:ARG:NH1	2.31	0.42
22:CW:8:U:H1'	22:CW:48:C:H1'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:68:ASP:OD1	24:CY:91:LEU:HD11	2.20	0.42
26:D1:53:VAL:CG2	26:D1:74:VAL:HG13	2.44	0.42
32:D7:10:ARG:O	32:D7:14:LYS:HB2	2.19	0.42
33:D8:22:VAL:O	33:D8:49:VAL:HG23	2.20	0.42
35:DA:49:A:H5"	35:DA:51:G:O4'	2.19	0.42
35:DA:271(S):G:C6	35:DA:271(T):C:C4	3.08	0.42
35:DA:283:A:O2'	35:DA:284:U:OP1	2.34	0.42
35:DA:847:U:H2'	35:DA:848:G:C5'	2.45	0.42
35:DA:909:A:H2'	35:DA:912:C:C5	2.54	0.42
35:DA:970:C:H2'	35:DA:971:C:H6	1.84	0.42
35:DA:1227:G:P	53:DU:13:LYS:HZ3	2.43	0.42
35:DA:2136:C:H41	35:DA:2156:G:H21	1.67	0.42
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.19	0.42
35:DA:2262:U:H2'	35:DA:2263:C:H6	1.83	0.42
35:DA:2290:G:H2'	35:DA:2291:U:O4'	2.18	0.42
35:DA:2305:A:H5"	41:DG:134:GLY:HA3	2.00	0.42
35:DA:2801:A:H5"	35:DA:2802:G:C8	2.54	0.42
35:DA:2881:C:C4	35:DA:2882:A:N7	2.87	0.42
36:DB:83:G:C6	36:DB:84:C:C5	3.08	0.42
41:DG:72:ARG:NH1	41:DG:86:MET:O	2.52	0.42
41:DG:133:LEU:HD23	41:DG:133:LEU:N	2.35	0.42
41:DG:152:LEU:HD12	41:DG:152:LEU:HA	1.76	0.42
42:DH:47:GLU:CG	42:DH:51:ARG:HH21	2.33	0.42
42:DH:94:TYR:N	42:DH:94:TYR:CD1	2.87	0.42
59:DI:88:ILE:O	59:DI:90:GLY:N	2.53	0.42
59:DI:126:TYR:N	59:DI:142:VAL:O	2.44	0.42
46:DN:63:THR:O	46:DN:66:LYS:HG2	2.19	0.42
47:DO:10:VAL:CG2	47:DO:16:ALA:O	2.63	0.42
49:DQ:27:VAL:HG23	49:DQ:105:GLU:OE2	2.18	0.42
50:DR:77:ARG:C	50:DR:79:LEU:N	2.77	0.42
52:DT:35:LYS:C	52:DT:37:GLY:N	2.78	0.42
53:DU:15:LYS:O	53:DU:19:LYS:HG3	2.19	0.42
53:DU:62:ILE:HD12	53:DU:76:TYR:OH	2.19	0.42
53:DU:91:ASP:OD2	53:DU:96:ALA:CB	2.62	0.42
54:DV:62:LEU:HD21	54:DV:95:LEU:CB	2.39	0.42
55:DW:5:ALA:O	55:DW:6:ILE:HB	2.20	0.42
57:DY:81:LYS:HZ3	57:DY:97:ARG:HG3	1.84	0.42
1:AA:47:C:H4'	1:AA:48:C:O5'	2.20	0.42
1:AA:125:U:H2'	1:AA:126:G:C8	2.55	0.42
1:AA:881:G:P	12:AL:12:ARG:HH22	2.42	0.42
1:AA:1456:G:H2'	1:AA:1457:G:C5'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	2.00	0.42
4:AD:153:ARG:C	4:AD:155:LEU:H	2.27	0.42
7:AG:145:ALA:C	7:AG:147:ALA:N	2.71	0.42
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	2.33	0.42
12:AL:42:THR:OG1	12:AL:52:LEU:HB3	2.19	0.42
19:AS:61:TYR:CD2	19:AS:62:ILE:N	2.88	0.42
22:AV:72:C:C2'	22:AV:73:A:C5'	2.69	0.42
24:AY:119:THR:O	24:AY:208:VAL:HA	2.20	0.42
27:B2:7:ARG:NH2	35:BA:102:G:OP2	2.53	0.42
27:B2:63:VAL:HA	27:B2:66:GLU:HG2	2.01	0.42
30:B5:2:ALA:HB2	35:BA:2014:A:O2'	2.20	0.42
33:B8:27:THR:HG22	48:BP:62:LEU:CD1	2.50	0.42
34:B9:15:LYS:HZ1	35:BA:2753:A:C1'	2.31	0.42
35:BA:456:C:C4	56:BX:69:TYR:CE2	3.07	0.42
35:BA:507:A:O4'	35:BA:509:C:C2	2.73	0.42
35:BA:534:U:O2'	53:BU:49:HIS:CD2	2.72	0.42
35:BA:1181:C:HO2'	35:BA:1182:A:H5'	1.85	0.42
35:BA:1937:A:N7	35:BA:1939:U:H2'	2.34	0.42
35:BA:1939:U:H3'	35:BA:1940:U:C5'	2.49	0.42
37:BC:79:LYS:HE2	37:BC:97:GLU:CD	2.45	0.42
37:BC:96:GLY:C	37:BC:98:GLU:N	2.76	0.42
38:BD:63:ARG:NH1	38:BD:86:PRO:HD2	2.35	0.42
39:BE:181:LEU:HD11	52:BT:7:ILE:HD13	2.02	0.42
41:BG:111:LEU:CD2	41:BG:117:PHE:HE2	2.24	0.42
41:BG:161:THR:HG22	41:BG:163:ALA:N	2.35	0.42
41:BG:173:LEU:O	41:BG:174:GLU:C	2.61	0.42
42:BH:118:PRO:O	42:BH:119:GLU:C	2.62	0.42
45:BK:104:VAL:HG13	45:BK:105:LEU:N	2.35	0.42
48:BP:32:THR:OG1	48:BP:33:ARG:N	2.48	0.42
49:BQ:114:ALA:C	49:BQ:116:GLU:N	2.78	0.42
52:BT:13:ARG:NH1	52:BT:15:VAL:HG22	2.35	0.42
52:BT:89:VAL:HG12	52:BT:91:ARG:CG	2.49	0.42
53:BU:95:LEU:C	53:BU:97:ASP:H	2.28	0.42
54:BV:46:VAL:CG2	54:BV:47:VAL:H	2.08	0.42
58:BZ:138:GLU:C	58:BZ:139:VAL:HG23	2.45	0.42
1:CA:110:C:O2'	1:CA:111:G:C5'	2.68	0.42
1:CA:127:G:C2	1:CA:128:G:C8	3.07	0.42
1:CA:132:C:O2'	1:CA:133:U:H5'	2.19	0.42
1:CA:364:A:H2'	1:CA:365:U:O2	2.20	0.42
1:CA:404:U:C2	1:CA:405:U:C5	3.07	0.42
1:CA:472:A:H2'	1:CA:473:G:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:690:G:H2'	1:CA:691:G:C8	2.54	0.42
1:CA:939:G:C6	1:CA:940:C:N4	2.88	0.42
1:CA:1508:G:H2'	1:CA:1509:C:O4'	2.20	0.42
2:CB:47:THR:O	2:CB:48:MET:C	2.62	0.42
2:CB:80:ILE:HD12	2:CB:208:ILE:HG23	2.01	0.42
7:CG:141:VAL:O	7:CG:141:VAL:HG12	2.20	0.42
8:CH:5:PRO:HB3	8:CH:32:LYS:NZ	2.34	0.42
8:CH:67:PRO:O	8:CH:68:ARG:C	2.61	0.42
8:CH:91:ARG:NH1	17:CQ:32:TYR:C	2.77	0.42
11:CK:33:THR:HB	11:CK:37:GLY:C	2.44	0.42
11:CK:41:THR:HG21	11:CK:71:LYS:HD3	2.01	0.42
15:CO:39:LEU:HD11	15:CO:56:LEU:HB2	2.01	0.42
17:CQ:74:LEU:HB3	17:CQ:75:ARG:H	1.69	0.42
19:CS:45:VAL:HG11	19:CS:64:GLU:HB3	2.01	0.42
20:CT:74:LYS:O	20:CT:76:ALA:N	2.53	0.42
21:CU:25:LYS:HB2	21:CU:25:LYS:NZ	2.35	0.42
22:CW:25:C:O2'	22:CW:26:A:H5'	2.19	0.42
29:D4:38:ALA:HB2	29:D4:52:SER:N	2.34	0.42
30:D5:4:HIS:O	30:D5:5:PRO:C	2.62	0.42
31:D6:38:LYS:HB2	31:D6:38:LYS:HE2	1.83	0.42
35:DA:6:A:O2'	35:DA:7:G:H5'	2.20	0.42
35:DA:71:A:O2'	35:DA:72:U:OP2	2.27	0.42
35:DA:622:G:O2'	35:DA:623:G:H5'	2.19	0.42
35:DA:1105:U:O2'	35:DA:1106:G:H5'	2.20	0.42
35:DA:1380:G:N2	35:DA:1570:A:C2	2.87	0.42
35:DA:1991:U:C2'	35:DA:1992:G:H5"	2.49	0.42
35:DA:2162:G:O2'	35:DA:2163:C:H5'	2.20	0.42
35:DA:2808:U:H2'	35:DA:2809:A:H5'	2.01	0.42
37:DC:20:TYR:O	37:DC:22:ILE:N	2.52	0.42
38:DD:122:ASP:O	38:DD:123:ALA:O	2.38	0.42
39:DE:3:GLY:C	39:DE:4:ILE:HG22	2.45	0.42
39:DE:117:MET:HE3	39:DE:124:GLY:CA	2.48	0.42
40:DF:54:ARG:HB2	40:DF:79:GLY:O	2.19	0.42
40:DF:117:ARG:HD3	40:DF:117:ARG:HA	1.63	0.42
59:DI:31:LEU:HB2	59:DI:32:PRO:HD3	2.02	0.42
45:DK:77:LEU:CD1	45:DK:107:ILE:HG23	2.49	0.42
45:DK:86:LYS:NZ	45:DK:86:LYS:HB3	2.34	0.42
46:DN:90:MET:HA	46:DN:93:THR:HG22	2.02	0.42
48:DP:23:PRO:HD2	48:DP:33:ARG:NE	2.35	0.42
48:DP:26:GLY:HA2	48:DP:30:THR:CG2	2.49	0.42
48:DP:32:THR:O	48:DP:33:ARG:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:141:GLN:C	58:DZ:53:ILE:O	2.63	0.42
52:DT:48:ILE:HD12	52:DT:48:ILE:N	2.31	0.42
52:DT:94:ALA:HB1	52:DT:99:LEU:HD23	2.02	0.42
55:DW:28:SER:O	55:DW:29:LEU:C	2.63	0.42
1:AA:140:A:H2'	1:AA:141:A:C8	2.53	0.42
1:AA:373:A:C4	1:AA:482:A:N7	2.87	0.42
1:AA:1023:G:H2'	1:AA:1023:G:N3	2.34	0.42
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.54	0.42
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.49	0.42
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	2.02	0.42
3:AC:164:ARG:CZ	3:AC:164:ARG:HB2	2.50	0.42
4:AD:14:ARG:H	4:AD:39:PRO:HA	1.84	0.42
4:AD:61:LYS:NZ	4:AD:62:GLN:NE2	2.67	0.42
5:AE:72:GLN:O	5:AE:73:ASN:HB3	2.19	0.42
5:AE:146:ALA:O	5:AE:148:VAL:N	2.52	0.42
7:AG:145:ALA:O	7:AG:147:ALA:N	2.49	0.42
20:AT:10:LEU:HG	20:AT:12:ALA:HB3	2.02	0.42
20:AT:84:LEU:HD13	20:AT:84:LEU:C	2.44	0.42
22:AV:67:C:H2'	22:AV:68:C:O4'	2.19	0.42
26:B1:81:LYS:HE2	35:BA:271(H):G:H4'	1.96	0.42
27:B2:63:VAL:O	27:B2:67:LYS:HG2	2.19	0.42
31:B6:11:LEU:HD21	31:B6:26:ASN:HB2	2.01	0.42
31:B6:24:GLU:HB3	31:B6:25:LYS:H	1.58	0.42
33:B8:15:LYS:CG	48:BP:65:ARG:HH21	2.32	0.42
33:B8:19:SER:CB	35:BA:651:G:OP1	2.67	0.42
35:BA:195:A:C8	35:BA:197:A:OP1	2.73	0.42
35:BA:470:A:H5'	35:BA:470:A:C8	2.50	0.42
35:BA:718:A:H2'	35:BA:719:C:C5'	2.48	0.42
35:BA:885:C:C2	35:BA:886:C:N4	2.88	0.42
35:BA:924:C:H2'	35:BA:925:C:C6	2.55	0.42
35:BA:1049:C:H2'	35:BA:1050:A:O4'	2.20	0.42
35:BA:2348:U:C3'	35:BA:2349:G:H5"	2.44	0.42
35:BA:2892:A:N6	35:BA:2893:G:N3	2.67	0.42
36:BB:8:U:H5'	36:BB:8:U:C6	2.44	0.42
36:BB:80:U:H2'	36:BB:81:G:C8	2.55	0.42
37:BC:40:THR:O	37:BC:42:GLU:HG3	2.20	0.42
37:BC:79:LYS:HG2	37:BC:97:GLU:HG3	2.02	0.42
38:BD:16:MET:HE1	38:BD:208:LYS:HE2	2.01	0.42
39:BE:116:VAL:CG2	39:BE:122:PHE:CD2	3.00	0.42
40:BF:125:LEU:HD13	40:BF:125:LEU:HA	1.81	0.42
41:BG:123:ASN:C	41:BG:125:PHE:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:19:VAL:HG21	42:BH:44:VAL:CA	2.48	0.42
42:BH:158:HIS:HE2	42:BH:170:ARG:HA	1.74	0.42
43:BI:71:ILE:HG13	43:BI:75:LEU:HD13	2.01	0.42
45:BK:132:ARG:HG3	45:BK:132:ARG:NH1	2.34	0.42
48:BP:11:GLY:O	48:BP:12:ALA:C	2.63	0.42
56:BX:12:VAL:O	56:BX:12:VAL:HG13	2.20	0.42
57:BY:68:HIS:O	57:BY:70:SER:N	2.53	0.42
57:BY:76:CYS:O	57:BY:77:PRO:C	2.62	0.42
58:BZ:104:PHE:O	58:BZ:105:VAL:CG1	2.66	0.42
1:CA:38:G:C2	1:CA:397:A:C2	3.07	0.42
1:CA:40:C:O2'	1:CA:41:G:H5'	2.19	0.42
1:CA:140:A:H2'	1:CA:141:A:C8	2.55	0.42
1:CA:309:G:H2'	1:CA:310:G:H8	1.85	0.42
1:CA:639:G:H2'	1:CA:640:A:C8	2.55	0.42
1:CA:862:C:H2'	1:CA:863:U:C5'	2.48	0.42
1:CA:1083:U:C5	1:CA:1084:G:C6	3.08	0.42
1:CA:1519:A:N7	1:CA:1520:G:H1'	2.34	0.42
2:CB:109:SER:C	2:CB:111:ARG:N	2.77	0.42
3:CC:5:ILE:HD13	3:CC:10:PHE:HB2	2.01	0.42
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.85	0.42
4:CD:14:ARG:HD2	4:CD:59:ARG:NH1	2.34	0.42
6:CF:62:TRP:HE3	6:CF:62:TRP:O	2.03	0.42
9:CI:55:ALA:O	9:CI:56:LEU:C	2.62	0.42
9:CI:85:LEU:HD13	9:CI:92:TYR:HD2	1.84	0.42
14:CN:19:ARG:O	14:CN:21:TYR:HD1	2.02	0.42
16:CP:20:VAL:HG23	16:CP:35:LYS:HA	2.01	0.42
19:CS:9:VAL:C	19:CS:11:VAL:N	2.77	0.42
22:CV:2:C:C2'	22:CV:3:C:C5'	2.98	0.42
26:D1:56:GLN:HA	26:D1:56:GLN:NE2	2.34	0.42
26:D1:56:GLN:OE1	26:D1:85:LEU:HD23	2.20	0.42
29:D4:50:THR:HG23	41:DG:104:GLU:CD	2.45	0.42
31:D6:33:LYS:O	31:D6:34:LEU:CB	2.66	0.42
33:D8:59:LYS:HG3	48:DP:50:ARG:CB	2.50	0.42
33:D8:62:LEU:HG	33:D8:62:LEU:H	1.63	0.42
35:DA:271(F):C:H2'	35:DA:271(G):C:C6	2.55	0.42
35:DA:557:U:H2'	35:DA:558:G:H8	1.84	0.42
35:DA:581:C:O2'	35:DA:582:G:H5'	2.20	0.42
35:DA:661:C:O3'	48:DP:18:ARG:HD2	2.18	0.42
35:DA:910:A:H5'	35:DA:911:A:OP2	2.19	0.42
35:DA:2672:G:C2'	35:DA:2673:G:H5"	2.48	0.42
36:DB:114:C:O2'	51:DS:46:VAL:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:98:GLU:C	37:DC:100:ILE:H	2.27	0.42
38:DD:69:ARG:NH2	38:DD:128:GLY:O	2.52	0.42
38:DD:72:LYS:HE2	38:DD:101:GLU:OE1	2.19	0.42
39:DE:64:LYS:C	39:DE:66:HIS:N	2.77	0.42
39:DE:73:GLU:CG	39:DE:74:PRO:HD2	2.45	0.42
39:DE:149:ARG:NH1	39:DE:149:ARG:HG3	2.34	0.42
40:DF:64:ILE:O	40:DF:65:TRP:HD1	2.03	0.42
42:DH:153:LYS:HA	42:DH:154:PRO:HD2	1.86	0.42
59:DI:54:GLN:O	59:DI:58:LEU:HG	2.20	0.42
46:DN:60:ILE:H	46:DN:60:ILE:HG12	1.64	0.42
46:DN:119:ARG:HH11	46:DN:119:ARG:HG3	1.85	0.42
47:DO:71:ARG:HG3	47:DO:71:ARG:NH1	2.34	0.42
48:DP:39:LYS:O	48:DP:40:SER:CB	2.67	0.42
49:DQ:54:MET:HB3	49:DQ:64:ILE:HD13	2.01	0.42
50:DR:49:ASP:OD2	50:DR:95:THR:HG22	2.19	0.42
51:DS:106:ARG:C	51:DS:106:ARG:CD	2.91	0.42
54:DV:16:PRO:O	54:DV:96:ILE:O	2.37	0.42
54:DV:35:LEU:O	54:DV:37:VAL:N	2.52	0.42
57:DY:37:VAL:HG11	57:DY:72:VAL:HG21	2.01	0.42
57:DY:66:PRO:O	57:DY:67:LEU:HB3	2.19	0.42
58:DZ:17:ALA:O	58:DZ:18:LEU:C	2.62	0.42
58:DZ:56:VAL:HG12	58:DZ:57:ILE:N	2.34	0.42
58:DZ:141:VAL:O	58:DZ:141:VAL:HG13	2.20	0.42
1:AA:102:G:H2'	1:AA:103:C:C6	2.54	0.42
1:AA:155:C:O2'	1:AA:156:G:H5'	2.20	0.42
1:AA:216:G:H2'	1:AA:217:C:O4'	2.19	0.42
1:AA:217:C:H2'	1:AA:218:C:C6	2.54	0.42
1:AA:222:U:O2'	1:AA:223:U:H5'	2.19	0.42
1:AA:335:C:O2'	1:AA:1433:A:H1'	2.19	0.42
1:AA:369:C:N3	1:AA:393:A:C2	2.88	0.42
1:AA:538:G:OP2	12:AL:115:LYS:HG3	2.20	0.42
1:AA:659:U:H2'	1:AA:660:G:C8	2.53	0.42
1:AA:1112:C:O2	3:AC:178:LEU:HB2	2.20	0.42
1:AA:1239:A:H62	1:AA:1299:A:H62	1.67	0.42
2:AB:39:ILE:HG22	2:AB:40:HIS:H	1.85	0.42
2:AB:114:ARG:NH2	2:AB:118:LEU:HD21	2.35	0.42
3:AC:84:ILE:CD1	3:AC:88:ARG:NH2	2.83	0.42
3:AC:111:LEU:HD21	3:AC:145:GLY:O	2.20	0.42
9:AI:32:ASP:HB3	9:AI:35:GLU:HB3	2.00	0.42
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.19	0.42
13:AM:98:VAL:O	13:AM:98:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:83:GLU:C	15:AO:85:LEU:H	2.27	0.42
20:AT:99:LEU:HB3	20:AT:100:ILE:H	1.69	0.42
24:AY:68:ASP:HA	24:AY:71:GLY:HA3	2.02	0.42
25:B0:20:ARG:HG3	35:BA:2356:C:H4'	2.02	0.42
25:B0:27:GLU:HG3	25:B0:68:GLU:HA	2.01	0.42
25:B0:48:GLY:C	25:B0:80:HIS:HB3	2.45	0.42
25:B0:73:GLY:C	25:B0:75:LEU:H	2.27	0.42
27:B2:17:SER:CB	27:B2:18:PRO:HD2	2.47	0.42
28:B3:50:VAL:O	28:B3:52:HIS:N	2.53	0.42
33:B8:34:TRP:CG	33:B8:35:GLN:H	2.37	0.42
33:B8:36:LYS:O	33:B8:37:SER:O	2.37	0.42
35:BA:319:C:H2'	35:BA:320:A:O4'	2.19	0.42
35:BA:432:A:H2'	35:BA:433:C:C6	2.54	0.42
35:BA:654(Q):C:H2'	35:BA:654(R):C:H6	1.81	0.42
35:BA:697:C:H2'	35:BA:698:C:C6	2.54	0.42
35:BA:900:A:H3'	35:BA:901:A:H8	1.85	0.42
35:BA:1010:A:H1'	35:BA:1153:C:H1'	2.02	0.42
35:BA:1022:G:H4'	35:BA:1023:U:O5'	2.19	0.42
35:BA:2345:G:N3	35:BA:2381:C:H2'	2.34	0.42
35:BA:2697:G:H2'	35:BA:2698:U:O4'	2.20	0.42
35:BA:2875:C:O2'	52:BT:3:ARG:HG3	2.20	0.42
37:BC:78:ALA:CA	37:BC:82:LYS:HD2	2.49	0.42
38:BD:76:PRO:HA	38:BD:118:VAL:HB	2.02	0.42
38:BD:111:LEU:HA	38:BD:115:GLN:OE1	2.19	0.42
39:BE:73:GLU:CG	39:BE:74:PRO:HD2	2.48	0.42
40:BF:10:PRO:O	40:BF:11:VAL:O	2.38	0.42
40:BF:40:GLN:OE1	40:BF:184:TYR:CB	2.68	0.42
40:BF:184:TYR:CE1	48:BP:7:ARG:NH2	2.88	0.42
41:BG:7:LEU:O	41:BG:11:TYR:N	2.47	0.42
42:BH:106:THR:O	42:BH:107:VAL:CG1	2.67	0.42
45:BK:11:GLN:HE21	45:BK:11:GLN:HB3	1.66	0.42
46:BN:65:LYS:O	46:BN:66:LYS:C	2.62	0.42
47:BO:72:PRO:C	47:BO:74:GLY:N	2.76	0.42
48:BP:16:ARG:C	48:BP:16:ARG:HE	2.28	0.42
49:BQ:14:ARG:HG2	49:BQ:41:TRP:HH2	1.84	0.42
54:BV:16:PRO:O	54:BV:96:ILE:O	2.37	0.42
54:BV:55:ALA:HA	54:BV:101:GLY:OXT	2.19	0.42
55:BW:4:LYS:HG2	55:BW:106:ILE:CG2	2.47	0.42
58:BZ:42:VAL:O	58:BZ:46:LYS:HG3	2.20	0.42
58:BZ:128:VAL:CG2	58:BZ:132:ASN:HD22	2.32	0.42
58:BZ:170:THR:O	58:BZ:172:ALA:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:102:G:H2'	1:CA:103:C:C6	2.54	0.42
2:CB:115:LEU:HG	2:CB:153:ARG:HH21	1.83	0.42
2:CB:178:ARG:HD2	8:CH:71:GLY:HA2	2.01	0.42
2:CB:204:ASN:HD21	2:CB:207:ALA:N	2.18	0.42
3:CC:28:GLN:HA	3:CC:31:HIS:HD2	1.85	0.42
3:CC:54:ARG:HG2	3:CC:55:VAL:N	2.35	0.42
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.19	0.42
9:CI:83:ARG:HA	9:CI:86:VAL:CG1	2.50	0.42
9:CI:97:LYS:C	9:CI:100:GLY:H	2.28	0.42
12:CL:119:LYS:HB2	12:CL:120:TYR:CD1	2.54	0.42
16:CP:72:ARG:HH21	16:CP:73:LEU:CD2	2.32	0.42
17:CQ:18:THR:HG22	17:CQ:19:VAL:N	2.34	0.42
18:CR:84:LYS:HA	18:CR:84:LYS:HD3	1.89	0.42
24:CY:40:ASN:H	24:CY:42:PRO:HD2	1.84	0.42
24:CY:214:VAL:HG13	24:CY:215:ASP:N	2.35	0.42
24:CY:243:ASN:HD22	24:CY:243:ASN:N	2.17	0.42
26:D1:30:VAL:HG23	26:D1:31:GLY:N	2.35	0.42
26:D1:68:PRO:O	26:D1:71:TYR:N	2.53	0.42
27:D2:25:VAL:O	27:D2:26:ARG:C	2.61	0.42
30:D5:52:TYR:O	30:D5:53:ALA:C	2.61	0.42
35:DA:847:U:C2'	35:DA:848:G:H5"	2.45	0.42
35:DA:912:C:O2	35:DA:912:C:H2'	2.20	0.42
35:DA:1107:G:H2'	35:DA:1108:U:C5	2.55	0.42
35:DA:1721:G:H8	35:DA:1741:A:H62	1.67	0.42
35:DA:1889:A:N1	35:DA:2234:G:H1'	2.34	0.42
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.50	0.42
35:DA:2181:G:O2'	35:DA:2182:G:H5'	2.20	0.42
35:DA:2352:A:C2'	35:DA:2353:G:H5'	2.50	0.42
35:DA:2422:A:H4'	35:DA:2423:U:OP1	2.20	0.42
35:DA:2662:A:H2'	35:DA:2663:G:O4'	2.20	0.42
35:DA:2692:C:H2'	35:DA:2693:A:C8	2.51	0.42
39:DE:11:MET:HB3	39:DE:24:THR:HA	2.01	0.42
39:DE:107:THR:O	39:DE:108:SER:C	2.63	0.42
40:DF:28:ILE:HD11	40:DF:115:ALA:CB	2.50	0.42
41:DG:21:ARG:HD2	41:DG:21:ARG:C	2.45	0.42
42:DH:152:ARG:HD3	42:DH:152:ARG:HA	1.92	0.42
59:DI:69:LYS:HE3	59:DI:136:VAL:O	2.20	0.42
48:DP:7:ARG:HB2	48:DP:8:PRO:CD	2.48	0.42
49:DQ:56:ARG:HH11	49:DQ:56:ARG:CB	2.24	0.42
49:DQ:69:PHE:HA	49:DQ:70:PRO:HD2	1.84	0.42
50:DR:30:THR:HG22	50:DR:31:HIS:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:54:LEU:HD23	50:DR:66:VAL:CG2	2.49	0.42
50:DR:82:GLU:C	50:DR:85:PRO:HD2	2.45	0.42
53:DU:70:ARG:HG3	53:DU:70:ARG:NH1	2.34	0.42
55:DW:61:ASN:HD22	55:DW:61:ASN:N	2.15	0.42
57:DY:27:VAL:CA	57:DY:28:LYS:NZ	2.78	0.42
57:DY:68:HIS:HB3	57:DY:71:LYS:HG2	2.01	0.42
1:AA:802:A:H2'	1:AA:803:G:H5'	2.02	0.42
1:AA:1147:C:O2	9:AI:16:ARG:CZ	2.68	0.42
1:AA:1291:G:OP1	7:AG:37:ASN:ND2	2.52	0.42
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.19	0.42
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.87	0.42
4:AD:156:GLU:O	4:AD:160:GLN:HG3	2.20	0.42
4:AD:171:GLY:C	4:AD:173:TRP:H	2.28	0.42
5:AE:103:GLY:C	5:AE:105:VAL:H	2.27	0.42
6:AF:40:VAL:HG22	6:AF:41:GLU:N	2.34	0.42
8:AH:33:GLU:O	8:AH:35:ILE:N	2.52	0.42
9:AI:4:TYR:CE2	9:AI:59:PHE:HE2	2.37	0.42
10:AJ:44:VAL:HG12	10:AJ:45:ARG:H	1.82	0.42
10:AJ:55:LYS:HE2	10:AJ:55:LYS:HB3	1.91	0.42
11:AK:111:ASP:OD2	11:AK:111:ASP:C	2.63	0.42
12:AL:9:GLN:O	12:AL:12:ARG:N	2.53	0.42
12:AL:50:SER:OG	24:AY:307:TRP:HB3	2.20	0.42
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.27	0.42
15:AO:65:ARG:HG2	15:AO:65:ARG:NH1	2.35	0.42
16:AP:77:ALA:O	16:AP:78:GLY:O	2.38	0.42
17:AQ:74:LEU:HB3	17:AQ:75:ARG:H	1.69	0.42
21:AU:5:ASP:O	21:AU:8:THR:OG1	2.38	0.42
22:AV:74:C:H2'	22:AV:75:C:H5'	2.02	0.42
24:AY:71:GLY:O	24:AY:72:LEU:HD23	2.20	0.42
27:B2:12:GLU:O	27:B2:15:LYS:CG	2.68	0.42
35:BA:205:G:O2'	35:BA:206:U:P	2.78	0.42
35:BA:271(F):C:H2'	35:BA:271(G):C:C6	2.54	0.42
35:BA:480:A:H2'	35:BA:481:G:OP1	2.19	0.42
35:BA:844:C:C2'	35:BA:845:G:H5'	2.50	0.42
35:BA:1053:C:O2'	35:BA:1054:A:H5'	2.19	0.42
35:BA:1287:A:OP1	50:BR:105:ARG:O	2.38	0.42
35:BA:1494:A:HO2'	35:BA:1495:A:H5"	1.82	0.42
35:BA:1754:C:H2'	35:BA:1755:A:O4'	2.19	0.42
35:BA:2125:G:N2	35:BA:2172:U:OP1	2.48	0.42
35:BA:2308:G:H2'	35:BA:2309:A:O5'	2.20	0.42
35:BA:2821:A:OP2	50:BR:2:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2892:A:H3'	35:BA:2893:G:H5"	2.00	0.42
36:BB:31:C:H4'	41:BG:29:TRP:HH2	1.80	0.42
37:BC:98:GLU:C	37:BC:100:ILE:H	2.27	0.42
37:BC:121:GLY:HA2	37:BC:145:VAL:CB	2.49	0.42
38:BD:131:LEU:HD12	38:BD:131:LEU:C	2.45	0.42
39:BE:59:VAL:O	39:BE:60:ASN:CG	2.62	0.42
39:BE:116:VAL:CG2	39:BE:122:PHE:CG	3.03	0.42
40:BF:25:PRO:HG3	40:BF:119:ARG:HB2	2.00	0.42
40:BF:63:LYS:O	40:BF:64:ILE:C	2.63	0.42
40:BF:164:ARG:HG2	40:BF:164:ARG:NH1	2.34	0.42
41:BG:37:VAL:O	41:BG:94:LEU:HB2	2.20	0.42
42:BH:12:PRO:O	42:BH:13:LYS:CB	2.67	0.42
42:BH:66:GLY:HA2	42:BH:69:ARG:CB	2.50	0.42
45:BK:129:GLY:C	45:BK:131:ALA:N	2.77	0.42
46:BN:73:THR:HG22	46:BN:74:ARG:N	2.35	0.42
48:BP:48:PRO:O	48:BP:49:ARG:O	2.37	0.42
50:BR:63:ARG:O	50:BR:67:LEU:HB2	2.20	0.42
51:BS:58:LEU:CD1	51:BS:59:LYS:HG3	2.45	0.42
55:BW:40:ASN:C	55:BW:41:LYS:HG2	2.44	0.42
57:BY:47:LYS:N	57:BY:47:LYS:CD	2.70	0.42
1:CA:39:G:C5	1:CA:498:U:O4	2.73	0.42
1:CA:72:C:C2	1:CA:98:G:N2	2.88	0.42
1:CA:236:G:H2'	1:CA:237:C:C6	2.55	0.42
1:CA:506:G:H2'	1:CA:507:C:H6	1.85	0.42
1:CA:913:A:H1'	1:CA:914:A:O4'	2.20	0.42
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.20	0.42
2:CB:92:TYR:H	2:CB:92:TYR:HD2	1.66	0.42
3:CC:206:GLU:O	3:CC:207:VAL:C	2.62	0.42
8:CH:103:VAL:C	8:CH:105:ARG:H	2.26	0.42
9:CI:104:ARG:HD2	9:CI:104:ARG:HA	1.85	0.42
10:CJ:35:SER:O	10:CJ:36:GLY:O	2.37	0.42
10:CJ:74:ILE:O	10:CJ:74:ILE:HG13	2.20	0.42
12:CL:9:GLN:O	12:CL:12:ARG:N	2.53	0.42
13:CM:81:LEU:O	13:CM:89:GLY:HA3	2.19	0.42
15:CO:39:LEU:HD13	15:CO:43:LEU:HG	2.01	0.42
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	2.20	0.42
18:CR:51:LEU:HD23	18:CR:52:PRO:HD2	2.02	0.42
19:CS:40:ILE:O	19:CS:40:ILE:HG22	2.19	0.42
20:CT:70:SER:HA	20:CT:73:HIS:HD2	1.84	0.42
22:CV:47:U:O2'	22:CV:48:C:OP1	2.37	0.42
22:CW:8:U:O2	22:CW:8:U:C2'	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:274:LEU:O	24:CY:275:ALA:C	2.62	0.42
24:CY:304:PRO:C	24:CY:306:GLU:N	2.77	0.42
32:D7:9:ARG:NH1	35:DA:1310:G:OP2	2.52	0.42
33:D8:27:THR:HG22	48:DP:62:LEU:CD1	2.49	0.42
35:DA:310:A:HO2'	35:DA:311:A:P	2.42	0.42
35:DA:324:A:H2'	35:DA:325:G:C5'	2.50	0.42
35:DA:862:G:H5'	36:DB:79:C:H4'	2.02	0.42
35:DA:1175:U:O5'	35:DA:1176:G:H5'	2.20	0.42
35:DA:1286:A:H2'	35:DA:1288:U:OP2	2.19	0.42
35:DA:1558:A:H1'	35:DA:1559:G:OP2	2.19	0.42
35:DA:1751:C:O2'	35:DA:1752:C:H5'	2.19	0.42
35:DA:2689:U:O2'	35:DA:2690:C:OP2	2.36	0.42
36:DB:106:G:O2'	36:DB:107:G:H5'	2.20	0.42
38:DD:31:LYS:HG3	38:DD:33:LEU:HD21	2.01	0.42
39:DE:103:ASP:CG	39:DE:168:MET:HE2	2.44	0.42
40:DF:116:ASP:OD2	48:DP:5:ASP:N	2.52	0.42
41:DG:96:ARG:O	41:DG:99:MET:HB3	2.19	0.42
41:DG:114:ILE:O	41:DG:116:ASP:N	2.53	0.42
59:DI:1:MET:SD	59:DI:23:PRO:HA	2.60	0.42
45:DK:55:VAL:O	45:DK:55:VAL:HG13	2.19	0.42
46:DN:66:LYS:O	46:DN:67:LEU:C	2.63	0.42
49:DQ:43:THR:OG1	49:DQ:46:GLN:CG	2.67	0.42
53:DU:53:ARG:O	53:DU:54:LYS:C	2.63	0.42
53:DU:65:ILE:HG12	53:DU:96:ALA:CB	2.48	0.42
54:DV:34:GLU:CG	54:DV:56:SER:HB2	2.50	0.42
55:DW:4:LYS:HG2	55:DW:106:ILE:CG2	2.47	0.42
1:AA:37:U:O2'	1:AA:38:G:H5'	2.20	0.42
1:AA:388:G:HO2'	1:AA:389:A:P	2.40	0.42
1:AA:473:G:OP2	16:AP:75:ARG:HD3	2.20	0.42
1:AA:584:G:H2'	1:AA:585:G:H8	1.85	0.42
1:AA:693:G:H2'	1:AA:694:A:O4'	2.20	0.42
1:AA:831:U:H2'	1:AA:832:C:C6	2.51	0.42
1:AA:923:A:OP1	5:AE:21:ALA:HB2	2.19	0.42
1:AA:1053:G:N7	1:AA:1200:C:C5'	2.82	0.42
1:AA:1223:C:H3'	1:AA:1224:G:H5"	2.02	0.42
1:AA:1358:U:H2'	1:AA:1359:C:O4'	2.20	0.42
2:AB:8:LYS:O	2:AB:12:GLU:HG3	2.20	0.42
3:AC:6:HIS:O	3:AC:7:PRO:C	2.61	0.42
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	2.02	0.42
3:AC:206:GLU:O	3:AC:207:VAL:C	2.62	0.42
5:AE:28:PHE:O	5:AE:47:LYS:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:101:ILE:CD1	5:AE:119:LEU:HD23	2.50	0.42
8:AH:25:ASP:C	8:AH:26:VAL:CG1	2.92	0.42
8:AH:73:ASP:C	8:AH:75:ARG:H	2.28	0.42
8:AH:97:VAL:HG13	8:AH:98:LYS:H	1.84	0.42
9:AI:5:TYR:CD1	9:AI:6:GLY:N	2.88	0.42
10:AJ:29:ARG:CZ	10:AJ:29:ARG:HB3	2.49	0.42
13:AM:8:GLU:O	13:AM:9:ILE:HG13	2.20	0.42
19:AS:15:LEU:O	19:AS:18:LYS:HB3	2.20	0.42
19:AS:60:VAL:HG22	19:AS:61:TYR:O	2.19	0.42
25:B0:41:ARG:HD3	25:B0:44:ARG:HD3	2.01	0.42
26:B1:37:ILE:HD12	35:BA:201:C:OP1	2.20	0.42
33:B8:4:MET:HE3	33:B8:4:MET:HB2	1.95	0.42
33:B8:21:LYS:HD3	33:B8:48:PHE:CE1	2.55	0.42
35:BA:432:A:H2'	35:BA:433:C:H6	1.85	0.42
35:BA:661:C:H4'	48:BP:16:ARG:CD	2.45	0.42
35:BA:765:G:H2'	35:BA:766:C:H6	1.85	0.42
35:BA:1034:G:H2'	35:BA:1035:U:H6	1.85	0.42
35:BA:1071:G:C1'	35:BA:1089:G:C8	3.00	0.42
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.84	0.42
35:BA:2468:G:O2'	35:BA:2469:A:P	2.78	0.42
35:BA:2655:G:O2'	35:BA:2656:U:P	2.78	0.42
35:BA:2676:C:O2'	35:BA:2677:G:H5'	2.20	0.42
35:BA:2801:A:H5"	35:BA:2802:G:C8	2.53	0.42
38:BD:131:LEU:HD11	38:BD:136:ILE:HG12	2.02	0.42
39:BE:7:VAL:O	39:BE:7:VAL:HG23	2.20	0.42
39:BE:46:ALA:HB2	39:BE:82:ARG:HA	2.02	0.42
39:BE:188:VAL:O	39:BE:188:VAL:HG13	2.19	0.42
41:BG:99:MET:O	41:BG:100:TRP:C	2.62	0.42
41:BG:110:ALA:O	41:BG:111:LEU:C	2.63	0.42
45:BK:93:ARG:HB2	58:BZ:112:ARG:HB2	2.01	0.42
46:BN:19:GLU:OE2	46:BN:20:GLY:N	2.53	0.42
48:BP:10:PRO:HD2	48:BP:11:GLY:H	1.84	0.42
49:BQ:112:GLU:CG	49:BQ:113:GLN:N	2.83	0.42
53:BU:41:ALA:O	53:BU:42:ALA:C	2.62	0.42
55:BW:9:TYR:H	55:BW:102:HIS:HD2	1.66	0.42
57:BY:17:SER:CB	57:BY:71:LYS:HE2	2.49	0.42
58:BZ:151:HIS:CG	58:BZ:152:ALA:H	2.36	0.42
1:CA:295:C:H2'	1:CA:296:U:H6	1.82	0.42
1:CA:321:A:O2'	1:CA:322:C:H5'	2.20	0.42
1:CA:460:G:C6	1:CA:470:C:H5"	2.55	0.42
1:CA:541:G:HO2'	1:CA:542:G:H5'	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:599:C:H4'	8:CH:130:GLY:C	2.44	0.42
1:CA:626:U:H2'	1:CA:627:G:H8	1.85	0.42
1:CA:754:C:H3'	1:CA:754:C:O2	2.20	0.42
1:CA:802:A:C2'	1:CA:803:G:H5'	2.50	0.42
1:CA:980:C:H3'	1:CA:981:U:C6	2.55	0.42
1:CA:993:G:N3	1:CA:993:G:H2'	2.34	0.42
1:CA:1346:A:C5	7:CG:10:ARG:NH1	2.87	0.42
1:CA:1354:C:H2'	1:CA:1355:G:H8	1.85	0.42
2:CB:16:HIS:ND1	2:CB:16:HIS:N	2.67	0.42
4:CD:156:GLU:O	4:CD:160:GLN:HG3	2.19	0.42
11:CK:80:VAL:O	11:CK:106:LYS:HB2	2.20	0.42
11:CK:96:ARG:HA	11:CK:99:GLN:CG	2.49	0.42
13:CM:72:ALA:O	13:CM:76:ALA:HB2	2.20	0.42
13:CM:100:GLY:C	13:CM:101:GLN:HG2	2.45	0.42
19:CS:9:VAL:C	19:CS:11:VAL:H	2.27	0.42
19:CS:16:LEU:O	19:CS:17:GLU:C	2.63	0.42
24:CY:9:ARG:HH11	24:CY:9:ARG:HG2	1.84	0.42
24:CY:42:PRO:O	24:CY:45:ALA:CB	2.68	0.42
24:CY:158:PRO:HA	24:CY:164:ILE:HA	2.01	0.42
24:CY:291:ARG:NH2	24:CY:295:LEU:HD21	2.34	0.42
26:D1:25:LYS:HE3	26:D1:25:LYS:HB2	1.83	0.42
33:D8:30:ARG:HG3	33:D8:30:ARG:HH11	1.85	0.42
33:D8:50:LEU:C	33:D8:52:LYS:H	2.28	0.42
35:DA:56:A:C2	35:DA:57:C:C2	3.08	0.42
35:DA:271(O):C:O2'	35:DA:271(P):C:P	2.78	0.42
35:DA:271(T):C:H2'	35:DA:271(U):G:C8	2.48	0.42
35:DA:744:G:OP1	39:DE:132:HIS:HD2	2.03	0.42
35:DA:782:A:H5'	35:DA:783:A:C2	2.54	0.42
35:DA:1477:A:H5'	35:DA:1478:G:OP2	2.19	0.42
35:DA:1575:C:H2'	35:DA:1575:C:O2	2.19	0.42
35:DA:1782:C:O2'	35:DA:1783:A:C5'	2.68	0.42
35:DA:2087:G:C2'	35:DA:2088:G:H5'	2.50	0.42
35:DA:2192:G:C2	35:DA:2193:G:C8	3.07	0.42
35:DA:2296:U:O2	35:DA:2333:A:N3	2.53	0.42
38:DD:6:PHE:HE1	38:DD:18:VAL:HG12	1.83	0.42
38:DD:35:LYS:HD2	38:DD:35:LYS:HA	1.71	0.42
38:DD:206:LEU:O	38:DD:211:ARG:HD3	2.19	0.42
40:DF:184:TYR:HE1	48:DP:7:ARG:NH2	2.17	0.42
41:DG:16:ARG:HH11	41:DG:16:ARG:CG	2.32	0.42
41:DG:126:ASP:O	41:DG:128:ARG:HG2	2.19	0.42
41:DG:161:THR:HG22	41:DG:163:ALA:H	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:44:VAL:O	42:DH:46:GLU:HG2	2.20	0.42
42:DH:76:VAL:C	42:DH:78:GLY:N	2.78	0.42
59:DI:52:ARG:HB3	59:DI:56:LYS:CE	2.50	0.42
59:DI:145:VAL:CG1	59:DI:146:ALA:N	2.81	0.42
45:DK:71:THR:HG21	45:DK:110:GLN:O	2.20	0.42
48:DP:60:MET:C	48:DP:61:ARG:O	2.63	0.42
48:DP:147:LEU:CD1	48:DP:148:LEU:HD22	2.45	0.42
48:DP:148:LEU:HD22	48:DP:148:LEU:C	2.45	0.42
52:DT:78:LEU:C	52:DT:79:HIS:HD1	2.28	0.42
52:DT:89:VAL:HG12	52:DT:91:ARG:CG	2.50	0.42
52:DT:100:TYR:C	52:DT:102:ILE:N	2.78	0.42
57:DY:49:VAL:CA	57:DY:53:PRO:HG3	2.43	0.42
57:DY:51:VAL:O	57:DY:52:SER:CB	2.68	0.42
1:AA:141:A:C2	1:AA:142:G:C5	3.08	0.41
1:AA:604:G:C5	1:AA:605:U:C4	3.08	0.41
1:AA:632:A:C8	1:AA:633:G:C8	3.07	0.41
1:AA:1058:G:H2'	1:AA:1059:C:O4'	2.20	0.41
3:AC:113:ALA:O	3:AC:114:PRO:C	2.63	0.41
5:AE:71:LEU:CD2	5:AE:115:VAL:HG22	2.49	0.41
6:AF:12:PRO:C	6:AF:14:LEU:H	2.28	0.41
7:AG:6:ARG:NH2	7:AG:94:ARG:HH22	2.17	0.41
8:AH:67:PRO:O	8:AH:68:ARG:C	2.62	0.41
9:AI:41:VAL:HG12	9:AI:41:VAL:O	2.20	0.41
11:AK:112:THR:HG23	11:AK:113:PRO:HD2	2.01	0.41
13:AM:15:VAL:HG22	13:AM:41:PRO:O	2.20	0.41
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	2.02	0.41
13:AM:77:ASN:O	13:AM:80:ARG:HB3	2.20	0.41
13:AM:88:ARG:O	13:AM:98:VAL:HG11	2.19	0.41
20:AT:40:ALA:C	20:AT:42:GLN:H	2.27	0.41
25:B0:20:ARG:NH1	35:BA:2271:G:C5'	2.83	0.41
26:B1:3:LYS:HB2	35:BA:1364:G:OP2	2.20	0.41
27:B2:6:VAL:O	27:B2:9:GLN:HB2	2.20	0.41
31:B6:9:LEU:C	31:B6:9:LEU:CD2	2.92	0.41
33:B8:29:LYS:HD3	33:B8:44:LYS:CB	2.50	0.41
35:BA:102:G:H4'	35:BA:102:G:OP1	2.20	0.41
35:BA:237:C:O2'	35:BA:238:C:H5'	2.20	0.41
35:BA:271(A):A:H3'	35:BA:271(B):C:H6	1.84	0.41
35:BA:370:G:H8	35:BA:370:G:O5'	2.03	0.41
35:BA:661:C:H4'	48:BP:18:ARG:HG2	2.02	0.41
35:BA:709:U:H2'	35:BA:710:G:C8	2.55	0.41
35:BA:821:A:O2'	35:BA:945:A:O3'	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1097:U:H2'	35:BA:1098:A:O4'	2.20	0.41
35:BA:1142(A):A:C5	35:BA:1144:G:C5	3.08	0.41
35:BA:1495:A:H2'	35:BA:1496:A:N3	2.35	0.41
35:BA:1769:G:O2'	35:BA:1958:C:OP1	2.37	0.41
35:BA:1791:A:C8	35:BA:1792:G:C8	3.07	0.41
35:BA:2118:U:C5	35:BA:2148:G:O2'	2.62	0.41
35:BA:2259:G:O2'	35:BA:2260:C:H5'	2.20	0.41
35:BA:2698:U:H2'	35:BA:2699:C:C6	2.55	0.41
36:BB:21:G:H1	36:BB:62:C:H42	1.67	0.41
36:BB:66:A:O2'	36:BB:67:G:O5'	2.32	0.41
36:BB:106:G:H2'	36:BB:107:G:H8	1.85	0.41
37:BC:67:GLY:O	37:BC:68:LEU:HB2	2.20	0.41
37:BC:132:GLY:O	37:BC:133:PRO:CB	2.67	0.41
43:BI:74:ASN:O	43:BI:74:ASN:CG	2.62	0.41
43:BI:120:ILE:HG22	43:BI:121:LYS:N	2.35	0.41
44:BJ:27:UNK:O	44:BJ:82:UNK:HA	2.20	0.41
44:BJ:102:UNK:C	44:BJ:104:UNK:N	2.83	0.41
46:BN:134:ARG:O	46:BN:135:PRO:C	2.64	0.41
48:BP:121:LYS:O	48:BP:123:LEU:HD23	2.20	0.41
48:BP:122:PRO:O	48:BP:123:LEU:HB3	2.19	0.41
51:BS:66:ALA:C	51:BS:69:VAL:HG12	2.40	0.41
52:BT:50:ILE:HD11	52:BT:64:ARG:CB	2.50	0.41
52:BT:80:SER:O	52:BT:82:LEU:HD12	2.20	0.41
54:BV:35:LEU:O	54:BV:37:VAL:N	2.53	0.41
57:BY:20:TYR:O	57:BY:21:LYS:C	2.62	0.41
58:BZ:104:PHE:O	58:BZ:105:VAL:O	2.38	0.41
58:BZ:118:GLN:C	58:BZ:120:ILE:H	2.26	0.41
1:CA:123:C:H5"	1:CA:311:C:O2'	2.19	0.41
1:CA:125:U:H2'	1:CA:126:G:C8	2.55	0.41
1:CA:282:A:H2'	1:CA:282:A:N3	2.35	0.41
1:CA:624:C:H2'	1:CA:625:G:C8	2.53	0.41
1:CA:738:C:H2'	1:CA:739:C:H6	1.83	0.41
1:CA:802:A:H2'	1:CA:803:G:H5'	2.01	0.41
1:CA:1003:G:O2'	1:CA:1004:A:H4'	2.20	0.41
1:CA:1126:U:C2'	1:CA:1127:G:H5'	2.50	0.41
1:CA:1135:U:H4'	1:CA:1136:U:H5	1.84	0.41
1:CA:1323:G:O3'	1:CA:1363:C:O2	2.38	0.41
1:CA:1353:G:O2'	1:CA:1354:C:H5'	2.20	0.41
1:CA:1403:C:O5'	1:CA:1403:C:H6	2.02	0.41
2:CB:55:PHE:HA	2:CB:58:ILE:CG1	2.49	0.41
2:CB:75:LYS:CA	2:CB:78:GLN:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:131:PRO:C	2:CB:133:LYS:N	2.77	0.41
2:CB:181:PHE:O	2:CB:182:ILE:HG13	2.20	0.41
3:CC:16:ARG:HB2	3:CC:16:ARG:NH1	2.31	0.41
3:CC:18:TRP:C	3:CC:20:SER:H	2.28	0.41
4:CD:79:PHE:CE1	4:CD:204:ILE:HD13	2.55	0.41
4:CD:124:GLY:C	4:CD:126:ILE:N	2.78	0.41
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.84	0.41
5:CE:80:ILE:HG22	8:CH:104:ARG:HH21	1.85	0.41
5:CE:112:LEU:HD23	5:CE:112:LEU:N	2.35	0.41
8:CH:39:LEU:O	8:CH:44:PHE:N	2.49	0.41
9:CI:90:PRO:O	9:CI:92:TYR:N	2.46	0.41
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.20	0.41
11:CK:18:ARG:HB3	11:CK:33:THR:O	2.20	0.41
15:CO:83:GLU:C	15:CO:85:LEU:H	2.28	0.41
24:CY:12:GLY:O	24:CY:13:LEU:C	2.63	0.41
24:CY:351:TRP:O	24:CY:355:ARG:HG3	2.19	0.41
26:D1:13:ILE:HG12	26:D1:42:GLN:HB2	2.01	0.41
26:D1:57:GLU:HG2	26:D1:58:ILE:N	2.35	0.41
28:D3:6:VAL:HG12	28:D3:54:VAL:HG21	2.02	0.41
30:D5:2:ALA:HB3	35:DA:747:U:C2	2.55	0.41
31:D6:36:LEU:C	31:D6:37:ARG:NH1	2.78	0.41
35:DA:470:A:H8	35:DA:470:A:C5'	2.33	0.41
35:DA:535:C:C2'	35:DA:536:A:H5'	2.50	0.41
35:DA:580:C:H2'	35:DA:581:C:C6	2.55	0.41
35:DA:1453:U:OP1	50:DR:77:ARG:NH1	2.53	0.41
35:DA:1658:C:H2'	35:DA:1659:U:H6	1.85	0.41
35:DA:1939:U:OP1	35:DA:2604:U:O2'	2.36	0.41
35:DA:2050:C:H1'	39:DE:156:MET:HE1	2.02	0.41
35:DA:2574:G:O2'	35:DA:2575:C:H5'	2.19	0.41
35:DA:2758:A:C4	42:DH:67:LEU:HD21	2.55	0.41
35:DA:2863:C:H2'	35:DA:2864:G:H8	1.85	0.41
37:DC:79:LYS:HG2	37:DC:97:GLU:HG3	2.01	0.41
38:DD:63:ARG:NH1	38:DD:86:PRO:HD2	2.35	0.41
38:DD:231:HIS:CD2	38:DD:249:PRO:HG3	2.55	0.41
39:DE:116:VAL:O	39:DE:117:MET:CB	2.60	0.41
41:DG:77:ILE:HD13	41:DG:77:ILE:HA	1.88	0.41
41:DG:174:GLU:C	41:DG:176:LEU:H	2.28	0.41
42:DH:25:LYS:CA	42:DH:34:GLU:HA	2.50	0.41
42:DH:106:THR:O	42:DH:107:VAL:HG13	2.19	0.41
59:DI:5:LEU:CD2	59:DI:9:LEU:HD12	2.50	0.41
44:DJ:21:UNK:HA	44:DJ:88:UNK:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:47:ASP:OD1	48:DP:50:ARG:NH1	2.42	0.41
49:DQ:2:LEU:HG	49:DQ:69:PHE:CE1	2.55	0.41
50:DR:54:LEU:HG	50:DR:62:ALA:HB1	2.02	0.41
53:DU:95:LEU:C	53:DU:97:ASP:H	2.28	0.41
55:DW:61:ASN:C	55:DW:62:HIS:ND1	2.78	0.41
56:DX:66:LEU:HD23	56:DX:66:LEU:C	2.44	0.41
57:DY:7:VAL:HG11	57:DY:8:LYS:NZ	2.34	0.41
58:DZ:24:LEU:C	58:DZ:24:LEU:HD23	2.45	0.41
58:DZ:161:VAL:O	58:DZ:161:VAL:HG12	2.20	0.41
1:AA:50:A:N6	1:AA:361:G:H4'	2.35	0.41
1:AA:321:A:N6	1:AA:332:G:H1	2.16	0.41
1:AA:358:U:O2'	1:AA:359:U:H5'	2.20	0.41
1:AA:429:U:H1'	1:AA:430:A:H5"	2.01	0.41
1:AA:659:U:O2'	1:AA:660:G:H5'	2.19	0.41
1:AA:1310:G:OP2	13:AM:88:ARG:NH2	2.47	0.41
1:AA:1396:A:H4'	1:AA:1398:A:H1'	1.98	0.41
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.20	0.41
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.50	0.41
2:AB:71:VAL:CG2	2:AB:164:VAL:HG13	2.47	0.41
5:AE:145:LYS:HD3	5:AE:145:LYS:O	2.19	0.41
7:AG:155:ARG:O	7:AG:156:TRP:O	2.38	0.41
9:AI:104:ARG:HE	9:AI:104:ARG:C	2.28	0.41
9:AI:110:GLU:OE2	9:AI:113:LYS:NZ	2.53	0.41
10:AJ:24:VAL:HG21	10:AJ:37:PRO:HG3	2.02	0.41
17:AQ:32:TYR:O	17:AQ:34:LYS:N	2.53	0.41
18:AR:37:VAL:O	18:AR:41:LYS:HB2	2.20	0.41
19:AS:76:PRO:HB2	19:AS:81:ARG:HD3	2.02	0.41
21:AU:2:GLY:O	21:AU:4:GLY:N	2.53	0.41
22:AW:8:U:O2	22:AW:8:U:H2'	2.20	0.41
24:AY:33:LEU:CD1	35:BA:1095:A:H61	2.33	0.41
24:AY:56:ARG:C	24:AY:58:THR:N	2.76	0.41
24:AY:131:ASP:C	24:AY:133:ALA:N	2.78	0.41
24:AY:203:THR:HB	24:AY:307:TRP:CZ3	2.54	0.41
24:AY:315:VAL:HG21	24:AY:320:TYR:CE2	2.55	0.41
25:B0:20:ARG:NH1	35:BA:2271:G:H5"	2.34	0.41
25:B0:62:LEU:C	25:B0:63:VAL:HG13	2.45	0.41
26:B1:79:GLY:HA3	35:BA:271(Q):G:H1'	2.02	0.41
26:B1:82:LEU:HB3	26:B1:90:ILE:HD12	2.02	0.41
32:B7:9:ARG:NH1	35:BA:1310:G:OP2	2.53	0.41
33:B8:4:MET:HE1	35:BA:593:G:H4'	2.02	0.41
35:BA:436:C:H2'	35:BA:437:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1025:G:C4	35:BA:1135:C:H1'	2.55	0.41
35:BA:1657:C:O2'	35:BA:1658:C:H5'	2.20	0.41
36:BB:60:C:H2'	36:BB:61:G:C8	2.45	0.41
36:BB:94:C:O2'	36:BB:95:C:H5'	2.20	0.41
38:BD:30:GLU:CD	38:BD:63:ARG:HH21	2.28	0.41
38:BD:59:LYS:O	38:BD:60:ARG:HG3	2.20	0.41
38:BD:221:VAL:O	38:BD:221:VAL:HG13	2.21	0.41
38:BD:237:GLU:OE2	38:BD:237:GLU:C	2.63	0.41
39:BE:11:MET:HB3	39:BE:24:THR:HA	2.00	0.41
39:BE:120:TRP:CE3	39:BE:155:LYS:HD3	2.54	0.41
41:BG:34:LEU:HB3	41:BG:99:MET:HE1	2.02	0.41
41:BG:48:GLU:O	41:BG:49:ASP:HB3	2.19	0.41
41:BG:60:LEU:HB3	41:BG:68:PRO:HG2	2.01	0.41
41:BG:108:ASN:O	41:BG:109:VAL:CG2	2.69	0.41
45:BK:71:THR:HG21	45:BK:110:GLN:O	2.20	0.41
45:BK:105:LEU:O	45:BK:108:ALA:HB3	2.20	0.41
50:BR:83:ILE:HD13	50:BR:86:ARG:HH12	1.85	0.41
52:BT:56:GLY:C	52:BT:59:THR:HG22	2.45	0.41
53:BU:95:LEU:HD11	54:BV:11:GLN:HG3	1.98	0.41
54:BV:21:ARG:HB3	54:BV:91:TYR:CD2	2.55	0.41
58:BZ:48:PHE:CA	58:BZ:51:ALA:HB3	2.34	0.41
1:CA:80:G:N3	1:CA:80:G:H2'	2.35	0.41
1:CA:502:G:C6	1:CA:503:C:C4	3.08	0.41
1:CA:955:U:H2'	1:CA:956:U:H6	1.85	0.41
2:CB:161:ALA:HA	2:CB:182:ILE:CG2	2.50	0.41
3:CC:35:GLU:OE2	3:CC:59:ARG:NH2	2.53	0.41
3:CC:156:ARG:O	3:CC:157:ILE:C	2.63	0.41
4:CD:14:ARG:H	4:CD:39:PRO:HA	1.85	0.41
4:CD:103:ASN:O	4:CD:106:TYR:HB3	2.19	0.41
6:CF:12:PRO:C	6:CF:14:LEU:H	2.28	0.41
6:CF:17:SER:C	6:CF:18:GLN:HG3	2.45	0.41
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	2.02	0.41
8:CH:47:GLY:O	8:CH:62:TYR:HD2	2.03	0.41
9:CI:32:ASP:HB3	9:CI:35:GLU:HB3	2.01	0.41
12:CL:6:THR:HG23	12:CL:9:GLN:CD	2.44	0.41
12:CL:113:ARG:HD2	12:CL:116:SER:O	2.20	0.41
13:CM:15:VAL:HG22	13:CM:41:PRO:O	2.20	0.41
13:CM:88:ARG:O	13:CM:98:VAL:HG11	2.19	0.41
17:CQ:32:TYR:O	17:CQ:34:LYS:N	2.53	0.41
19:CS:39:THR:HG22	19:CS:40:ILE:N	2.33	0.41
20:CT:24:LEU:C	20:CT:24:LEU:CD1	2.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:48:LYS:HD2	20:CT:51:GLU:OE2	2.20	0.41
20:CT:73:HIS:O	20:CT:74:LYS:HB2	2.19	0.41
22:CV:75:C:OP2	24:CY:266:ARG:NH2	2.53	0.41
24:CY:57:ARG:O	24:CY:61:THR:HG22	2.21	0.41
24:CY:143:PHE:O	24:CY:144:ALA:C	2.63	0.41
24:CY:343:ASP:O	24:CY:346:TRP:HB2	2.20	0.41
26:D1:7:ILE:HD11	26:D1:70:VAL:HG22	2.02	0.41
26:D1:68:PRO:C	26:D1:70:VAL:H	2.27	0.41
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.20	0.41
35:DA:117:G:C6	35:DA:119:A:C6	3.08	0.41
35:DA:807:U:OP2	48:DP:39:LYS:HG2	2.20	0.41
35:DA:1248:G:N2	40:DF:88:VAL:CG2	2.83	0.41
35:DA:1721:G:H8	35:DA:1741:A:N6	2.18	0.41
35:DA:2086:U:H2'	35:DA:2087:G:C8	2.56	0.41
35:DA:2107:C:H42	35:DA:2182:G:H1	1.66	0.41
35:DA:2295:C:H2'	35:DA:2296:U:H6	1.85	0.41
36:DB:16:G:H2'	36:DB:17:C:C6	2.55	0.41
36:DB:92:C:OP1	49:DQ:19:GLY:HA3	2.21	0.41
37:DC:132:GLY:O	37:DC:133:PRO:CB	2.68	0.41
38:DD:201:HIS:C	38:DD:203:ASN:N	2.76	0.41
38:DD:242:ARG:O	38:DD:244:ARG:N	2.52	0.41
38:DD:242:ARG:C	38:DD:244:ARG:N	2.78	0.41
39:DE:23:VAL:CG1	39:DE:173:VAL:HG21	2.44	0.41
40:DF:25:PRO:CB	40:DF:119:ARG:HH11	2.25	0.41
42:DH:44:VAL:C	42:DH:46:GLU:N	2.78	0.41
42:DH:54:ARG:HB2	42:DH:55:PRO:HD2	2.02	0.41
42:DH:58:GLU:O	42:DH:61:HIS:N	2.52	0.41
42:DH:94:TYR:CA	42:DH:107:VAL:HG12	2.37	0.41
59:DI:101:LEU:C	59:DI:103:ARG:N	2.75	0.41
46:DN:111:PRO:HG3	46:DN:114:ARG:NH2	2.36	0.41
47:DO:79:PHE:HD2	52:DT:72:VAL:HG22	1.84	0.41
47:DO:104:ARG:NE	52:DT:33:LYS:HD2	2.35	0.41
48:DP:75:ILE:O	48:DP:77:ARG:HG3	2.20	0.41
50:DR:10:LEU:HD13	50:DR:17:ARG:HH11	1.82	0.41
50:DR:55:ALA:CB	50:DR:79:LEU:HD22	2.50	0.41
51:DS:106:ARG:O	51:DS:107:GLU:C	2.63	0.41
57:DY:97:ARG:NH2	57:DY:98:VAL:HG23	2.35	0.41
1:AA:260:G:H2'	1:AA:261:U:C6	2.55	0.41
1:AA:624:C:H2'	1:AA:625:G:C8	2.54	0.41
1:AA:966:G:O2'	1:AA:967:C:H6	1.96	0.41
1:AA:1130:A:C2	1:AA:1146:A:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1170:A:H2'	1:AA:1171:G:H5'	2.02	0.41
1:AA:1330:U:H5'	1:AA:1331:G:OP2	2.19	0.41
1:AA:1462:G:O2'	1:AA:1463:C:H5'	2.20	0.41
2:AB:51:LEU:O	2:AB:55:PHE:CD2	2.74	0.41
2:AB:87:ARG:HH12	2:AB:223:ILE:HD13	1.80	0.41
2:AB:101:MET:O	2:AB:102:LEU:HD12	2.19	0.41
2:AB:124:SER:OG	2:AB:126:GLU:HG3	2.21	0.41
4:AD:103:ASN:O	4:AD:106:TYR:HB3	2.19	0.41
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	2.03	0.41
9:AI:14:VAL:C	9:AI:65:VAL:HG23	2.45	0.41
11:AK:41:THR:HG21	11:AK:71:LYS:HD3	2.02	0.41
17:AQ:66:SER:O	17:AQ:67:LYS:C	2.62	0.41
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	2.21	0.41
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.35	0.41
20:AT:25:ARG:HH11	20:AT:25:ARG:HG3	1.85	0.41
22:AV:72:C:C3'	22:AV:73:A:C5'	2.98	0.41
24:AY:33:LEU:HB3	24:AY:36:PRO:CD	2.50	0.41
24:AY:51:GLU:CA	24:AY:54:ARG:NH2	2.80	0.41
24:AY:114:LYS:N	24:AY:114:LYS:HD2	2.35	0.41
27:B2:65:ASN:O	27:B2:69:ARG:HG3	2.20	0.41
31:B6:27:LYS:HD2	35:BA:2285:C:OP2	2.21	0.41
35:BA:34:C:HO2'	35:BA:35:G:H5'	1.80	0.41
35:BA:558:G:OP1	46:BN:111:PRO:HD2	2.20	0.41
35:BA:784:A:C6	38:BD:229:VAL:HG21	2.55	0.41
35:BA:814:C:O2'	35:BA:815:C:H5'	2.21	0.41
35:BA:820:A:N3	35:BA:943:U:H4'	2.35	0.41
35:BA:928:G:H8	35:BA:928:G:O5'	2.04	0.41
35:BA:985:C:H2'	35:BA:986:C:H6	1.86	0.41
35:BA:1452:A:C5	35:BA:2702:U:O2	2.72	0.41
35:BA:1484:G:H2'	35:BA:1484:G:N3	2.36	0.41
35:BA:1826:G:C4'	38:BD:242:ARG:HE	2.24	0.41
35:BA:1902:C:H5'	38:BD:246:PRO:HD3	2.03	0.41
35:BA:2732:G:C3'	35:BA:2733:A:C5'	2.98	0.41
35:BA:2789:C:OP1	35:BA:2789:C:H4'	2.20	0.41
38:BD:69:ARG:NH2	38:BD:128:GLY:O	2.53	0.41
39:BE:25:VAL:HG13	39:BE:183:LEU:HD12	2.01	0.41
40:BF:184:TYR:HE1	48:BP:7:ARG:NH2	2.18	0.41
42:BH:30:LYS:CE	42:BH:81:GLU:HG2	2.49	0.41
42:BH:83:TYR:HA	42:BH:135:GLY:N	2.16	0.41
42:BH:94:TYR:N	42:BH:94:TYR:CD1	2.87	0.41
42:BH:137:ASP:O	42:BH:138:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:75:SER:C	45:BK:78:ILE:HG22	2.45	0.41
48:BP:47:ASP:OD1	48:BP:50:ARG:NH1	2.43	0.41
49:BQ:97:VAL:HG21	49:BQ:103:MET:HE3	2.02	0.41
52:BT:3:ARG:CG	52:BT:6:LEU:H	2.20	0.41
52:BT:35:LYS:C	52:BT:37:GLY:H	2.28	0.41
53:BU:39:LEU:HD23	53:BU:39:LEU:HA	1.86	0.41
57:BY:16:ALA:O	57:BY:21:LYS:HD3	2.19	0.41
57:BY:51:VAL:O	57:BY:52:SER:CB	2.68	0.41
57:BY:88:LYS:NZ	57:BY:93:GLY:CA	2.84	0.41
58:BZ:57:ILE:HG22	58:BZ:58:VAL:N	2.35	0.41
58:BZ:61:LEU:HD21	58:BZ:67:LEU:HD13	2.02	0.41
1:CA:79:G:C4	1:CA:80:G:C8	3.09	0.41
1:CA:505:G:H2'	1:CA:506:G:H8	1.85	0.41
1:CA:613:C:C2	1:CA:628:G:N2	2.89	0.41
1:CA:710:G:O2'	1:CA:711:G:H5'	2.20	0.41
1:CA:922:G:C2	1:CA:923:A:C4	3.08	0.41
1:CA:1188:A:H2'	1:CA:1189:C:C5'	2.50	0.41
1:CA:1231:G:H5"	9:CI:128:ARG:HD3	2.01	0.41
1:CA:1374:A:O2'	7:CG:28:ASN:HB3	2.19	0.41
1:CA:1432:G:P	52:DT:107:ASP:HB2	2.60	0.41
1:CA:1442(B):A:H4'	1:CA:1443:G:OP1	2.19	0.41
2:CB:174:VAL:HG13	2:CB:184:VAL:HG21	2.02	0.41
4:CD:3:ARG:HD3	4:CD:3:ARG:O	2.20	0.41
4:CD:8:VAL:HA	4:CD:11:LEU:HD21	2.02	0.41
8:CH:100:ILE:HA	8:CH:101:PRO:HD3	1.76	0.41
10:CJ:48:THR:HG23	10:CJ:62:HIS:CG	2.56	0.41
10:CJ:68:HIS:CD2	10:CJ:68:HIS:N	2.88	0.41
12:CL:70:ILE:HD13	12:CL:77:LEU:HD12	2.03	0.41
15:CO:9:GLN:O	15:CO:10:LYS:C	2.63	0.41
16:CP:82:GLN:O	16:CP:84:ALA:N	2.53	0.41
17:CQ:48:GLU:HB2	17:CQ:50:LYS:CG	2.49	0.41
20:CT:82:SER:O	20:CT:86:ARG:HD2	2.20	0.41
24:CY:62:PHE:O	24:CY:66:GLU:N	2.53	0.41
24:CY:75:LEU:HD11	24:CY:84:ARG:CB	2.51	0.41
33:D8:15:LYS:CB	48:DP:65:ARG:HH21	2.33	0.41
33:D8:15:LYS:CG	48:DP:65:ARG:HH21	2.30	0.41
33:D8:56:GLU:O	33:D8:59:LYS:HB2	2.21	0.41
35:DA:27:G:C2'	35:DA:28:A:OP2	2.68	0.41
35:DA:449:A:OP1	40:DF:84:VAL:O	2.39	0.41
35:DA:455:C:N3	35:DA:472:A:H2'	2.35	0.41
35:DA:487:C:H2'	35:DA:488:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:613:G:C6	35:DA:614:U:C4	3.08	0.41
35:DA:654(B):C:OP2	35:DA:654(B):C:C6	2.73	0.41
35:DA:665:C:O2'	35:DA:666:G:H5'	2.20	0.41
35:DA:709:U:H2'	35:DA:710:G:C8	2.56	0.41
35:DA:887:A:N3	35:DA:889:C:OP2	2.53	0.41
35:DA:981:A:H2	35:DA:2027:G:N3	2.18	0.41
35:DA:1029:A:H2'	35:DA:1030:G:O4'	2.21	0.41
35:DA:1093:G:C2'	35:DA:1094:U:H5'	2.50	0.41
35:DA:1184:G:C5	35:DA:1185:C:C5	3.08	0.41
35:DA:1827:C:C2'	35:DA:1828:G:C5'	2.91	0.41
35:DA:1992:G:O2'	35:DA:1993:U:OP2	2.33	0.41
35:DA:2579:C:O2'	35:DA:2580:U:H5'	2.20	0.41
36:DB:106:G:H2'	36:DB:107:G:H8	1.85	0.41
37:DC:77:ILE:HG21	37:DC:123:VAL:CB	2.51	0.41
38:DD:32:SER:C	38:DD:33:LEU:O	2.62	0.41
38:DD:118:VAL:N	38:DD:129:ASN:OD1	2.39	0.41
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	2.00	0.41
39:DE:23:VAL:CA	39:DE:184:VAL:O	2.68	0.41
40:DF:139:PHE:CG	40:DF:167:ALA:HB2	2.55	0.41
40:DF:155:LEU:HB2	40:DF:189:THR:OG1	2.19	0.41
41:DG:117:PHE:CZ	41:DG:179:PRO:HB2	2.55	0.41
42:DH:41:MET:HE2	42:DH:55:PRO:CD	2.48	0.41
42:DH:58:GLU:O	42:DH:59:ARG:C	2.62	0.41
44:DJ:102:UNK:C	44:DJ:104:UNK:N	2.83	0.41
46:DN:128:HIS:HA	46:DN:129:PRO:HD2	1.86	0.41
48:DP:30:THR:O	48:DP:31:ALA:C	2.63	0.41
48:DP:56:SER:O	48:DP:57:THR:C	2.62	0.41
48:DP:71:VAL:O	48:DP:72:PRO:C	2.63	0.41
49:DQ:6:ARG:O	49:DQ:7:MET:HB3	2.20	0.41
50:DR:10:LEU:HD22	50:DR:17:ARG:HG2	2.02	0.41
52:DT:125:ARG:O	52:DT:128:GLU:HG3	2.20	0.41
54:DV:6:LYS:HE2	54:DV:37:VAL:HG12	2.02	0.41
55:DW:9:TYR:H	55:DW:102:HIS:HD2	1.66	0.41
58:DZ:98:MET:HE1	58:DZ:100:VAL:HG22	2.02	0.41
1:AA:55:A:N1	59:DI:89:TYR:CG	2.88	0.41
1:AA:72:C:C2	1:AA:98:G:N2	2.88	0.41
1:AA:235:C:H2'	1:AA:236:G:C8	2.53	0.41
1:AA:309:G:H2'	1:AA:310:G:H8	1.85	0.41
1:AA:396:G:O2'	1:AA:398:C:OP1	2.35	0.41
1:AA:1048:G:H4'	14:AN:2:ALA:N	2.36	0.41
1:AA:1191:A:P	3:AC:3:ASN:ND2	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1194:U:H4'	5:AE:22:GLY:O	2.20	0.41
1:AA:1224:G:O2'	1:AA:1225:A:OP1	2.24	0.41
1:AA:1251:A:H5"	9:AI:12:GLU:OE1	2.20	0.41
2:AB:69:LEU:HD22	2:AB:159:PRO:HG2	2.01	0.41
2:AB:118:LEU:O	2:AB:122:PHE:HB2	2.20	0.41
3:AC:175:LEU:H	3:AC:175:LEU:CD1	2.32	0.41
3:AC:188:LEU:HD12	3:AC:195:VAL:HG13	2.01	0.41
4:AD:153:ARG:HH12	4:AD:181:MET:HB2	1.86	0.41
7:AG:75:VAL:HG13	7:AG:145:ALA:HA	2.03	0.41
7:AG:77:SER:HB2	22:AW:32:U:H4'	2.02	0.41
7:AG:140:ASP:C	7:AG:142:GLU:N	2.78	0.41
20:AT:60:GLU:HA	20:AT:63:ILE:HD12	2.01	0.41
32:B7:35:ARG:NH1	32:B7:42:LEU:HD11	2.36	0.41
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	2.21	0.41
35:BA:742:G:O2'	35:BA:743:G:H5'	2.20	0.41
35:BA:910:A:H5'	35:BA:911:A:OP2	2.21	0.41
35:BA:1747(A):G:C2'	35:BA:1748:G:C5'	2.78	0.41
35:BA:1751:C:O2'	35:BA:1752:C:H5'	2.20	0.41
35:BA:2181:G:O2'	35:BA:2182:G:H5'	2.21	0.41
35:BA:2574:G:O2'	35:BA:2575:C:H5'	2.20	0.41
35:BA:2588:G:O2'	35:BA:2589:A:H5'	2.20	0.41
35:BA:2623:G:H4'	35:BA:2825:C:O2	2.19	0.41
35:BA:2683:C:H2'	35:BA:2684:U:C6	2.56	0.41
35:BA:2704:C:H2'	35:BA:2705:A:C8	2.55	0.41
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.55	0.41
35:BA:2870:C:C2'	35:BA:2871:C:H5'	2.51	0.41
36:BB:37:C:C2'	36:BB:38:C:H5'	2.50	0.41
36:BB:79:C:H2'	36:BB:80:U:O4'	2.20	0.41
36:BB:106:G:C2	36:BB:107:G:C8	3.08	0.41
37:BC:20:TYR:O	37:BC:22:ILE:N	2.53	0.41
38:BD:25:THR:HG22	38:BD:82:ILE:N	2.23	0.41
38:BD:31:LYS:HG3	38:BD:33:LEU:HD21	2.02	0.41
39:BE:88:GLY:O	39:BE:89:ASP:CB	2.68	0.41
39:BE:105:THR:OG1	39:BE:199:ARG:NH2	2.40	0.41
39:BE:176:ILE:HG22	39:BE:179:GLU:H	1.85	0.41
41:BG:9:ARG:O	41:BG:11:TYR:N	2.53	0.41
41:BG:83:ARG:HE	41:BG:84:LYS:HZ2	1.68	0.41
42:BH:44:VAL:C	42:BH:46:GLU:N	2.78	0.41
42:BH:153:LYS:HA	42:BH:154:PRO:HD2	1.86	0.41
42:BH:159:GLU:CG	42:BH:160:LYS:HG2	2.28	0.41
44:BJ:39:UNK:C	44:BJ:41:UNK:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:26:LYS:HB3	47:BO:27:GLY:H	1.53	0.41
52:BT:64:ARG:HD2	52:BT:73:GLU:OE2	2.21	0.41
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	2.02	0.41
54:BV:5:VAL:HG21	54:BV:35:LEU:HB3	2.02	0.41
57:BY:48:ALA:O	57:BY:49:VAL:CG1	2.59	0.41
57:BY:84:ARG:NH1	57:BY:84:ARG:HG3	2.36	0.41
58:BZ:71:VAL:HG22	58:BZ:88:PHE:CD2	2.55	0.41
1:CA:96:U:H2'	1:CA:97:G:H8	1.85	0.41
1:CA:263:A:OP1	20:CT:79:ARG:HD3	2.21	0.41
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.35	0.41
1:CA:509:A:C2	1:CA:510:A:C2	3.09	0.41
1:CA:542:G:P	4:CD:10:ARG:HH21	2.43	0.41
1:CA:651:C:H2'	1:CA:652:U:C6	2.54	0.41
1:CA:706:A:O2'	11:CK:31:THR:CG2	2.68	0.41
1:CA:1112:C:O2	3:CC:178:LEU:HB2	2.20	0.41
1:CA:1170:A:H2'	1:CA:1171:G:C5'	2.51	0.41
1:CA:1228:C:P	13:CM:115:LYS:HE3	2.60	0.41
1:CA:1316:G:H2'	1:CA:1317:C:H5"	2.02	0.41
2:CB:51:LEU:O	2:CB:55:PHE:HD2	2.03	0.41
2:CB:82:ARG:HA	2:CB:92:TYR:HE1	1.78	0.41
2:CB:91:PRO:CG	2:CB:155:LEU:HD23	2.50	0.41
2:CB:142:LEU:O	2:CB:143:GLU:C	2.64	0.41
2:CB:236:TYR:HA	2:CB:239:VAL:CG2	2.49	0.41
3:CC:11:ARG:HH11	3:CC:11:ARG:CG	2.34	0.41
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	2.02	0.41
4:CD:57:ARG:HH11	4:CD:57:ARG:CG	2.31	0.41
5:CE:6:PHE:N	5:CE:6:PHE:HD1	2.18	0.41
9:CI:4:TYR:HB2	9:CI:19:LEU:HD12	2.02	0.41
11:CK:27:ASN:HA	11:CK:56:GLY:CA	2.50	0.41
13:CM:48:LEU:O	13:CM:49:THR:C	2.63	0.41
16:CP:8:ARG:CG	16:CP:9:PHE:N	2.83	0.41
18:CR:37:VAL:O	18:CR:41:LYS:HB2	2.20	0.41
19:CS:35:SER:O	19:CS:36:ARG:C	2.61	0.41
20:CT:27:LYS:O	20:CT:27:LYS:HE2	2.20	0.41
24:CY:55:LEU:HA	24:CY:58:THR:OG1	2.20	0.41
24:CY:109:PHE:HZ	24:CY:178:GLY:HA2	1.85	0.41
25:D0:49:LYS:N	25:D0:80:HIS:CB	2.70	0.41
30:D5:7:PRO:HA	35:DA:2615:U:N1	2.34	0.41
33:D8:5:LYS:HG2	35:DA:242:G:C8	2.56	0.41
33:D8:33:ASN:O	35:DA:2420:C:OP1	2.38	0.41
35:DA:183:C:H1'	35:DA:433:C:H1'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:491:G:O2'	35:DA:492:A:H5'	2.21	0.41
35:DA:926:A:H8	35:DA:926:A:H5'	1.85	0.41
35:DA:956:G:N2	35:DA:959:A:H3'	2.36	0.41
35:DA:958:U:C6	35:DA:958:U:C3'	3.03	0.41
35:DA:1028:A:N6	35:DA:1125:G:H2'	2.35	0.41
35:DA:1097:U:H2'	35:DA:1098:A:O4'	2.20	0.41
35:DA:1472:A:H2'	35:DA:1473:G:O4'	2.21	0.41
35:DA:1999:C:O2'	35:DA:2000:G:H5'	2.21	0.41
35:DA:2087:G:O2'	35:DA:2088:G:H5'	2.19	0.41
35:DA:2364:C:O2'	35:DA:2365:G:H5'	2.20	0.41
35:DA:2462:U:H2'	35:DA:2463:C:C6	2.55	0.41
35:DA:2745:C:C4	35:DA:2746:U:C4	3.08	0.41
35:DA:2757:A:H2'	35:DA:2758:A:H5'	2.02	0.41
40:DF:135:LYS:O	40:DF:136:THR:C	2.63	0.41
41:DG:101:ILE:C	41:DG:101:ILE:CD1	2.94	0.41
59:DI:10:GLU:HG2	59:DI:11:ASN:OD1	2.20	0.41
59:DI:109:ILE:HG13	59:DI:130:TYR:HE1	1.85	0.41
45:DK:41:PHE:C	45:DK:43:ALA:N	2.79	0.41
46:DN:90:MET:O	46:DN:91:LEU:C	2.62	0.41
48:DP:47:ASP:H	48:DP:48:PRO:HA	1.85	0.41
48:DP:87:ASP:O	48:DP:89:ALA:N	2.53	0.41
48:DP:107:LYS:C	48:DP:109:GLY:N	2.79	0.41
50:DR:52:ILE:HD13	50:DR:79:LEU:HD21	2.02	0.41
51:DS:88:ASP:O	51:DS:89:ARG:O	2.38	0.41
52:DT:53:ARG:NH1	52:DT:53:ARG:HG2	2.35	0.41
53:DU:8:VAL:CG1	53:DU:12:ARG:HD2	2.50	0.41
53:DU:88:ILE:CG2	54:DV:47:VAL:O	2.68	0.41
55:DW:99:ARG:HG2	55:DW:99:ARG:HH11	1.84	0.41
58:DZ:29:TYR:CE2	58:DZ:87:ASP:HB2	2.55	0.41
58:DZ:39:VAL:HG23	58:DZ:40:ASP:O	2.21	0.41
1:AA:106:C:O2'	1:AA:107:G:H5'	2.20	0.41
1:AA:263:A:OP1	20:AT:79:ARG:HD3	2.20	0.41
1:AA:266:G:O2'	1:AA:267:C:P	2.77	0.41
1:AA:472:A:H2'	1:AA:473:G:H5'	2.03	0.41
1:AA:528:C:O2'	1:AA:529:G:H5'	2.19	0.41
1:AA:624:C:O3'	16:AP:10:GLY:HA2	2.20	0.41
1:AA:993:G:H2'	1:AA:993:G:N3	2.34	0.41
1:AA:1061:G:O4'	10:AJ:56:HIS:CE1	2.74	0.41
1:AA:1150:U:O2'	10:AJ:41:PRO:HD3	2.20	0.41
2:AB:95:GLN:OE1	2:AB:95:GLN:HA	2.20	0.41
3:AC:121:ALA:O	3:AC:125:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:75:VAL:CG1	7:AG:145:ALA:HA	2.50	0.41
16:AP:5:ARG:HE	16:AP:22:THR:CG2	2.32	0.41
16:AP:49:LEU:HD12	16:AP:50:LYS:N	2.33	0.41
22:AW:8:U:H3'	22:AW:13:C:N4	2.35	0.41
24:AY:54:ARG:HH11	24:AY:101:LEU:HD23	1.86	0.41
25:B0:41:ARG:HB2	25:B0:42:GLY:H	1.75	0.41
29:B4:38:ALA:HB2	29:B4:52:SER:N	2.36	0.41
33:B8:62:LEU:HG	33:B8:62:LEU:H	1.62	0.41
35:BA:335:C:H2'	35:BA:336:C:H6	1.86	0.41
35:BA:574:C:H1'	35:BA:2055:C:C6	2.55	0.41
35:BA:1058:G:H21	45:BK:126:MET:HE3	1.85	0.41
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.19	0.41
35:BA:1446:C:H2'	35:BA:1447:G:H8	1.85	0.41
35:BA:1519:G:H5'	35:BA:1520:G:P	2.60	0.41
35:BA:1783:A:C2	35:BA:2587:A:C4	3.08	0.41
35:BA:1841:U:O2	38:BD:244:ARG:NH2	2.53	0.41
35:BA:2189:U:C2'	35:BA:2190:G:C5'	2.90	0.41
36:BB:61:G:C6	36:BB:62:C:C4	3.09	0.41
36:BB:106:G:O2'	36:BB:107:G:H5'	2.21	0.41
39:BE:201:THR:OG1	39:BE:202:LYS:N	2.53	0.41
41:BG:133:LEU:HD11	41:BG:135:LEU:HD11	2.02	0.41
41:BG:161:THR:HG21	41:BG:172:LEU:HD23	2.01	0.41
43:BI:123:LEU:HD23	43:BI:124:GLY:N	2.36	0.41
46:BN:26:LEU:HG	46:BN:30:ILE:HD11	2.02	0.41
46:BN:55:VAL:CG2	46:BN:127:ASP:H	2.33	0.41
48:BP:87:ASP:C	48:BP:89:ALA:H	2.29	0.41
49:BQ:116:GLU:C	49:BQ:118:LEU:N	2.78	0.41
51:BS:90:GLY:C	51:BS:92:TYR:N	2.77	0.41
52:BT:13:ARG:HH12	52:BT:15:VAL:CG1	2.33	0.41
52:BT:35:LYS:C	52:BT:37:GLY:N	2.78	0.41
54:BV:79:VAL:O	54:BV:79:VAL:CG1	2.67	0.41
55:BW:86:LEU:HD12	55:BW:87:PRO:N	2.34	0.41
57:BY:30:VAL:C	57:BY:31:LEU:HD22	2.46	0.41
57:BY:46:LYS:HD3	57:BY:47:LYS:HZ1	1.81	0.41
58:BZ:59:LEU:CD1	58:BZ:69:THR:HG21	2.51	0.41
58:BZ:59:LEU:HD11	58:BZ:69:THR:HG21	2.03	0.41
58:BZ:116:VAL:HG12	58:BZ:117:LEU:N	2.35	0.41
1:CA:37:U:O2'	1:CA:38:G:H5'	2.21	0.41
1:CA:44:G:H2'	1:CA:45:U:O4'	2.21	0.41
1:CA:217:C:H2'	1:CA:218:C:C6	2.55	0.41
1:CA:781:A:H2'	1:CA:782:A:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:851:G:H2'	1:CA:852:G:C8	2.53	0.41
1:CA:1048:G:H4'	14:CN:2:ALA:N	2.36	0.41
1:CA:1054:C:O2	1:CA:1054:C:C3'	2.69	0.41
1:CA:1191:A:H5"	3:CC:4:LYS:NZ	2.35	0.41
1:CA:1329:A:OP1	13:CM:29:ARG:HB2	2.21	0.41
2:CB:71:VAL:HG23	2:CB:164:VAL:CG1	2.46	0.41
2:CB:187:LEU:HD11	2:CB:203:GLY:O	2.19	0.41
2:CB:239:VAL:O	2:CB:240:GLN:HB2	2.21	0.41
3:CC:102:ASN:O	3:CC:103:VAL:CG2	2.68	0.41
6:CF:4:TYR:HD1	6:CF:92:LYS:HA	1.85	0.41
6:CF:19:LEU:CD2	6:CF:23:LYS:HD2	2.51	0.41
9:CI:90:PRO:C	9:CI:92:TYR:N	2.78	0.41
10:CJ:54:PHE:CD2	10:CJ:55:LYS:HG2	2.55	0.41
11:CK:120:ARG:HH22	11:CK:126:ARG:NH2	2.18	0.41
11:CK:120:ARG:HH22	11:CK:126:ARG:HH21	1.68	0.41
13:CM:9:ILE:CG2	13:CM:11:ARG:NE	2.82	0.41
13:CM:90:LEU:O	13:CM:91:ARG:HB2	2.20	0.41
13:CM:98:VAL:HG12	13:CM:98:VAL:O	2.21	0.41
16:CP:6:LEU:HG	16:CP:19:ILE:CD1	2.51	0.41
20:CT:10:LEU:HG	20:CT:12:ALA:HB3	2.02	0.41
24:CY:46:ARG:HH12	24:CY:50:GLN:HG3	1.85	0.41
24:CY:54:ARG:HA	24:CY:57:ARG:CG	2.51	0.41
24:CY:228:ARG:HH11	24:CY:228:ARG:HG2	1.85	0.41
24:CY:288:ARG:HA	24:CY:291:ARG:HB2	1.97	0.41
25:D0:36:ILE:HD11	35:DA:2355:C:H4'	2.02	0.41
25:D0:62:LEU:C	25:D0:63:VAL:HG13	2.45	0.41
26:D1:88:LYS:HZ3	26:D1:92:LYS:CB	2.30	0.41
27:D2:3:LEU:HD23	27:D2:7:ARG:NE	2.23	0.41
28:D3:1:MET:O	28:D3:2:PRO:C	2.60	0.41
34:D9:8:LYS:H	34:D9:34:GLN:HE22	1.68	0.41
35:DA:59:U:O2'	35:DA:73:A:H2'	2.20	0.41
35:DA:304:G:H2'	35:DA:305:U:H6	1.85	0.41
35:DA:666:G:H4'	48:DP:49:ARG:NH1	2.36	0.41
35:DA:928:G:H8	35:DA:928:G:O5'	2.02	0.41
35:DA:1049:C:H2'	35:DA:1050:A:O4'	2.20	0.41
35:DA:1376:C:O2'	35:DA:1377:G:H5'	2.21	0.41
35:DA:1417:C:O2'	35:DA:1418:G:H5'	2.21	0.41
35:DA:1590:U:C3'	35:DA:1591:G:H5"	2.47	0.41
35:DA:2096:U:H2'	35:DA:2097:C:C6	2.46	0.41
35:DA:2260:C:H2'	35:DA:2261:C:C6	2.53	0.41
35:DA:2419:U:H2'	35:DA:2420:C:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2468:G:H8	35:DA:2476:A:H62	1.68	0.41
35:DA:2789:C:N3	35:DA:2894:G:O6	2.54	0.41
35:DA:2801(A):A:H4'	35:DA:2802:G:C5'	2.38	0.41
38:DD:10:THR:C	38:DD:11:PRO:O	2.63	0.41
42:DH:30:LYS:CE	42:DH:81:GLU:HG2	2.50	0.41
59:DI:47:LEU:O	59:DI:49:ALA:N	2.54	0.41
44:DJ:39:UNK:C	44:DJ:41:UNK:N	2.80	0.41
45:DK:12:LEU:C	45:DK:52:ILE:HD12	2.45	0.41
45:DK:75:SER:C	45:DK:78:ILE:HG22	2.45	0.41
46:DN:42:TRP:O	53:DU:64:ARG:NE	2.42	0.41
48:DP:9:ASN:N	48:DP:10:PRO:CD	2.83	0.41
48:DP:99:LEU:HD23	48:DP:102:ARG:NH1	2.35	0.41
49:DQ:137:TYR:HD2	58:DZ:76:LEU:CD2	2.34	0.41
53:DU:49:HIS:C	53:DU:52:ARG:HB2	2.46	0.41
54:DV:38:LEU:O	54:DV:52:VAL:HG12	2.20	0.41
58:DZ:125:LEU:HB3	58:DZ:165:VAL:HG23	2.02	0.41
1:AA:40:C:O2'	1:AA:41:G:H5'	2.21	0.41
1:AA:189(F):U:C2	17:AQ:72:ARG:NH1	2.88	0.41
1:AA:639:G:H2'	1:AA:640:A:C8	2.56	0.41
1:AA:851:G:H2'	1:AA:852:G:C8	2.54	0.41
1:AA:1071:C:H5"	5:AE:49:PRO:HG2	2.01	0.41
2:AB:16:HIS:HB3	2:AB:210:SER:OG	2.20	0.41
2:AB:42:ILE:O	2:AB:42:ILE:HG23	2.20	0.41
2:AB:75:LYS:CA	2:AB:78:GLN:HE21	2.33	0.41
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.35	0.41
3:AC:54:ARG:HD3	3:AC:69:HIS:CD2	2.56	0.41
3:AC:102:ASN:C	3:AC:103:VAL:HG23	2.45	0.41
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.85	0.41
7:AG:118:VAL:HG23	7:AG:119:ARG:H	1.86	0.41
8:AH:128:GLY:O	8:AH:129:VAL:HG13	2.21	0.41
9:AI:40:LEU:C	9:AI:42:ARG:N	2.79	0.41
9:AI:97:LYS:C	9:AI:100:GLY:H	2.27	0.41
10:AJ:37:PRO:O	10:AJ:39:PRO:HD3	2.20	0.41
12:AL:39:VAL:HG12	12:AL:40:VAL:N	2.35	0.41
20:AT:98:PRO:HB2	20:AT:106:ALA:HB1	2.01	0.41
22:AW:18:G:C2	22:AW:56:C:N4	2.89	0.41
24:AY:49:SER:O	24:AY:52:ALA:N	2.54	0.41
26:B1:51:VAL:CG2	26:B1:52:ARG:N	2.84	0.41
26:B1:75:GLU:C	26:B1:77:ALA:H	2.29	0.41
30:B5:37:LYS:O	30:B5:38:ALA:C	2.63	0.41
30:B5:52:TYR:CD1	30:B5:52:TYR:O	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:56:A:C2	35:BA:57:C:C2	3.08	0.41
35:BA:1398:C:O2'	35:BA:1399:C:H5'	2.21	0.41
35:BA:1795:C:H2'	35:BA:1796:U:O4'	2.20	0.41
35:BA:2040:C:H2'	35:BA:2041:U:C6	2.56	0.41
35:BA:2419:U:H2'	35:BA:2420:C:H6	1.85	0.41
35:BA:2563:U:O2'	47:BO:28:SER:HB3	2.20	0.41
36:BB:6:C:O2'	51:BS:29:PHE:HE1	2.04	0.41
38:BD:242:ARG:C	38:BD:244:ARG:N	2.78	0.41
39:BE:120:TRP:CD1	39:BE:155:LYS:HB3	2.56	0.41
40:BF:6:VAL:HG12	40:BF:7:TYR:O	2.21	0.41
40:BF:9:ILE:O	40:BF:10:PRO:O	2.39	0.41
41:BG:109:VAL:O	41:BG:110:ALA:O	2.38	0.41
42:BH:41:MET:CE	42:BH:55:PRO:HD3	2.50	0.41
42:BH:125:VAL:O	42:BH:127:GLU:N	2.52	0.41
43:BI:37:VAL:CG1	43:BI:38:LEU:N	2.83	0.41
49:BQ:54:MET:HE1	49:BQ:104:PHE:CD1	2.56	0.41
49:BQ:56:ARG:HH11	49:BQ:56:ARG:CB	2.24	0.41
50:BR:39:PRO:O	50:BR:41:ALA:N	2.53	0.41
50:BR:72:ASP:CB	50:BR:75:LEU:HB2	2.50	0.41
53:BU:110:VAL:HG12	53:BU:114:LYS:HD2	2.03	0.41
55:BW:99:ARG:HG2	55:BW:99:ARG:HH11	1.86	0.41
58:BZ:57:ILE:O	58:BZ:69:THR:OG1	2.38	0.41
1:CA:187:C:O2'	20:CT:89:ARG:HD2	2.20	0.41
1:CA:229:U:O2'	16:CP:23:ASP:OD2	2.38	0.41
1:CA:328:C:O2'	1:CA:329:A:P	2.79	0.41
1:CA:358:U:O2'	1:CA:359:U:H5'	2.20	0.41
1:CA:1072:G:C5	1:CA:1073:U:C4	3.09	0.41
1:CA:1203:C:H2'	1:CA:1204:A:O4'	2.20	0.41
1:CA:1353:G:H1	1:CA:1369:C:N4	2.18	0.41
2:CB:8:LYS:O	2:CB:12:GLU:HG3	2.20	0.41
3:CC:38:ARG:HE	3:CC:38:ARG:HB3	1.55	0.41
5:CE:6:PHE:HB3	5:CE:35:GLY:C	2.46	0.41
5:CE:32:VAL:HG12	5:CE:33:VAL:N	2.36	0.41
5:CE:139:LEU:O	5:CE:141:GLN:N	2.54	0.41
6:CF:8:ILE:HD12	6:CF:26:ILE:CD1	2.51	0.41
6:CF:39:LYS:O	6:CF:40:VAL:HB	2.20	0.41
6:CF:61:LEU:HD23	6:CF:63:TYR:CZ	2.55	0.41
6:CF:100:ASN:N	6:CF:100:ASN:ND2	2.66	0.41
7:CG:75:VAL:HG13	7:CG:145:ALA:HA	2.03	0.41
8:CH:39:LEU:N	8:CH:39:LEU:HD22	2.36	0.41
9:CI:50:LEU:C	9:CI:52:ALA:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:12:ASP:OD2	10:CJ:13:HIS:N	2.54	0.41
16:CP:21:VAL:O	16:CP:21:VAL:HG22	2.20	0.41
18:CR:33:ASP:HB3	18:CR:36:ASN:ND2	2.35	0.41
20:CT:40:ALA:C	20:CT:42:GLN:N	2.75	0.41
22:CW:19:G:O2'	35:DA:2112:G:H1'	2.21	0.41
22:CW:49:C:H2'	22:CW:50:U:H5'	2.02	0.41
24:CY:188:ARG:HG2	24:CY:189:LEU:N	2.36	0.41
24:CY:332:ASP:N	24:CY:333:PRO:CD	2.84	0.41
30:D5:45:VAL:HG22	30:D5:51:TYR:CD2	2.56	0.41
31:D6:51:GLU:O	31:D6:52:VAL:HG23	2.20	0.41
32:D7:9:ARG:HG3	32:D7:9:ARG:HH11	1.85	0.41
32:D7:29:LYS:HE3	35:DA:210:C:P	2.60	0.41
35:DA:109:G:O2'	35:DA:110:G:H5'	2.21	0.41
35:DA:296:C:H2'	35:DA:297:C:C6	2.56	0.41
35:DA:604:G:H2'	35:DA:605:C:C6	2.55	0.41
35:DA:652:C:O2'	35:DA:653:A:O5'	2.38	0.41
35:DA:661:C:H4'	48:DP:16:ARG:CD	2.46	0.41
35:DA:951:C:O2'	35:DA:952:G:H5'	2.21	0.41
35:DA:995:C:C6	53:DU:57:PHE:HE1	2.39	0.41
35:DA:1018:C:O2'	35:DA:1019:U:H5'	2.20	0.41
35:DA:1452:A:C5	35:DA:2702:U:O2	2.73	0.41
35:DA:1608:A:H1'	35:DA:1610:A:OP2	2.20	0.41
35:DA:1644:C:O2	35:DA:1644:C:C2'	2.68	0.41
35:DA:1817:G:C5	35:DA:1818:U:C5	3.08	0.41
35:DA:2114:A:H2	35:DA:2168:G:H1'	1.84	0.41
35:DA:2787:C:O2	35:DA:2787:C:C2'	2.68	0.41
35:DA:2810:A:O2'	39:DE:61:ARG:HB2	2.20	0.41
35:DA:2883:A:H5'	35:DA:2884:U:H5'	2.02	0.41
36:DB:97:G:H2'	36:DB:98:G:H5'	2.02	0.41
37:DC:68:LEU:CB	37:DC:70:LYS:HZ3	2.33	0.41
39:DE:7:VAL:O	39:DE:7:VAL:HG23	2.20	0.41
41:DG:16:ARG:N	41:DG:17:PRO:HD2	2.36	0.41
41:DG:141:PHE:HB2	41:DG:144:ILE:HG22	2.01	0.41
42:DH:152:ARG:NH1	42:DH:153:LYS:HE3	2.36	0.41
59:DI:88:ILE:C	59:DI:90:GLY:N	2.78	0.41
45:DK:3:LYS:HG2	45:DK:4:VAL:N	2.36	0.41
45:DK:125:ARG:O	45:DK:127:ILE:N	2.53	0.41
49:DQ:26:TYR:HD1	49:DQ:26:TYR:C	2.29	0.41
51:DS:54:LEU:C	51:DS:56:LEU:N	2.78	0.41
51:DS:106:ARG:HD2	51:DS:107:GLU:C	2.45	0.41
52:DT:50:ILE:HD11	52:DT:64:ARG:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:87:ASP:OD1	52:DT:87:ASP:C	2.63	0.41
54:DV:99:ILE:N	54:DV:99:ILE:CD1	2.79	0.41
57:DY:31:LEU:CB	57:DY:32:PRO:CA	2.98	0.41
57:DY:51:VAL:O	57:DY:52:SER:HB3	2.20	0.41
58:DZ:108:PRO:CA	58:DZ:142:SER:HA	2.43	0.41
58:DZ:163:LEU:HD23	58:DZ:163:LEU:C	2.46	0.41
1:AA:236:G:H2'	1:AA:237:C:C6	2.55	0.41
1:AA:354:G:H2'	1:AA:354:G:N3	2.36	0.41
1:AA:423:G:H5"	35:DA:2139:C:P	2.59	0.41
1:AA:452:A:O2'	1:AA:453:A:P	2.78	0.41
1:AA:519:C:OP1	24:AY:188:ARG:NH1	2.53	0.41
1:AA:720:C:H5"	18:AR:52:PRO:HA	2.02	0.41
1:AA:731:G:OP1	1:AA:766:A:H1'	2.19	0.41
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.20	0.41
1:AA:1126:U:P	1:AA:1126:U:H6	2.44	0.41
1:AA:1134:G:N2	1:AA:1141:C:C2	2.88	0.41
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.56	0.41
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.56	0.41
2:AB:47:THR:O	2:AB:48:MET:C	2.64	0.41
2:AB:208:ILE:O	2:AB:209:ARG:C	2.64	0.41
3:AC:22:TRP:CZ2	14:AN:54:PRO:HG2	2.56	0.41
6:AF:69:GLU:O	6:AF:72:VAL:HG12	2.21	0.41
8:AH:65:TYR:CD1	8:AH:65:TYR:N	2.88	0.41
9:AI:50:LEU:HD21	9:AI:81:ILE:CG2	2.50	0.41
9:AI:93:ARG:C	9:AI:95:LYS:N	2.76	0.41
13:AM:48:LEU:O	13:AM:49:THR:C	2.64	0.41
13:AM:84:ILE:HG13	19:AS:66:MET:HE2	2.01	0.41
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.46	0.41
16:AP:20:VAL:HG22	16:AP:21:VAL:H	1.83	0.41
18:AR:40:LEU:C	18:AR:42:ARG:N	2.76	0.41
19:AS:35:SER:O	19:AS:36:ARG:C	2.62	0.41
22:AV:24:G:H1'	35:BA:1923:U:H5"	2.03	0.41
22:AW:63:G:O2'	37:BC:53:ARG:HG2	2.21	0.41
26:B1:7:ILE:CD1	26:B1:70:VAL:HG22	2.51	0.41
28:B3:6:VAL:HG12	28:B3:54:VAL:HG21	2.02	0.41
30:B5:4:HIS:O	30:B5:5:PRO:C	2.64	0.41
33:B8:48:PHE:CE2	35:BA:650:C:OP1	2.61	0.41
34:B9:7:VAL:HG12	34:B9:25:VAL:HG21	2.02	0.41
34:B9:13:LYS:O	34:B9:27:CYS:SG	2.79	0.41
34:B9:30:PRO:HB2	35:BA:2527:C:C5'	2.49	0.41
35:BA:228:A:H2'	35:BA:230:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:258:G:O2'	35:BA:259:G:H5'	2.20	0.41
35:BA:372:G:N2	35:BA:400:G:H2'	2.35	0.41
35:BA:744:G:OP1	39:BE:132:HIS:HD2	2.03	0.41
35:BA:894:C:O2'	35:BA:895:U:H5'	2.21	0.41
35:BA:1423:G:H2'	35:BA:1424:G:H8	1.86	0.41
35:BA:2078:C:N3	35:BA:2079:U:C4	2.89	0.41
35:BA:2295:C:H2'	35:BA:2296:U:H6	1.85	0.41
35:BA:2314:C:H4'	41:BG:38:VAL:HG21	2.01	0.41
36:BB:94:C:H2'	36:BB:95:C:H6	1.86	0.41
37:BC:77:ILE:HG21	37:BC:123:VAL:CB	2.50	0.41
38:BD:78:LYS:O	38:BD:80:ALA:N	2.54	0.41
38:BD:82:ILE:HG12	38:BD:92:ILE:O	2.20	0.41
38:BD:138:VAL:O	38:BD:138:VAL:HG13	2.19	0.41
38:BD:206:LEU:O	38:BD:211:ARG:HD3	2.21	0.41
38:BD:242:ARG:O	38:BD:244:ARG:N	2.53	0.41
40:BF:84:VAL:C	40:BF:86:GLY:N	2.74	0.41
41:BG:31:VAL:HG22	41:BG:32:PRO:CD	2.48	0.41
42:BH:44:VAL:O	42:BH:46:GLU:HG2	2.21	0.41
42:BH:88:LEU:N	42:BH:88:LEU:CD2	2.83	0.41
42:BH:155:SER:OG	42:BH:156:ALA:N	2.52	0.41
43:BI:6:LEU:H	43:BI:36:ALA:HA	1.85	0.41
43:BI:72:LEU:H	43:BI:72:LEU:CD2	2.33	0.41
45:BK:95:LYS:O	45:BK:96:VAL:C	2.63	0.41
48:BP:88:LEU:HD12	48:BP:95:VAL:HG11	2.01	0.41
48:BP:95:VAL:HG23	48:BP:125:VAL:HA	2.02	0.41
48:BP:107:LYS:C	48:BP:109:GLY:N	2.79	0.41
49:BQ:112:GLU:HG3	49:BQ:113:GLN:N	2.35	0.41
50:BR:44:LEU:O	50:BR:45:ARG:C	2.63	0.41
51:BS:70:GLY:C	51:BS:72:ALA:N	2.78	0.41
51:BS:89:ARG:NH1	51:BS:92:TYR:HA	2.11	0.41
51:BS:106:ARG:HD2	51:BS:107:GLU:C	2.45	0.41
52:BT:31:SER:HB3	52:BT:43:GLN:O	2.21	0.41
52:BT:120:ARG:O	52:BT:124:ASP:OD1	2.38	0.41
53:BU:92:ARG:CZ	54:BV:11:GLN:O	2.69	0.41
54:BV:69:LYS:HB2	54:BV:88:ARG:HD3	2.03	0.41
58:BZ:79:ARG:HG3	58:BZ:79:ARG:NH1	2.36	0.41
58:BZ:92:SER:OG	58:BZ:93:ASP:N	2.53	0.41
58:BZ:116:VAL:N	58:BZ:175:VAL:O	2.53	0.41
58:BZ:128:VAL:CG2	58:BZ:129:SER:H	2.31	0.41
58:BZ:166:SER:N	58:BZ:167:PRO:CA	2.82	0.41
1:CA:19:C:H2'	1:CA:20:U:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:42:G:H2'	1:CA:43:C:H6	1.86	0.41
1:CA:178:C:O2'	1:CA:179:A:H5'	2.20	0.41
1:CA:357:G:C3'	1:CA:358:U:H5"	2.50	0.41
1:CA:1298:C:H4'	1:CA:1299:A:C4	2.56	0.41
2:CB:92:TYR:HE2	2:CB:151:GLY:N	2.19	0.41
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.56	0.41
2:CB:144:ARG:O	2:CB:147:LYS:N	2.51	0.41
4:CD:108:LEU:C	4:CD:110:PHE:H	2.29	0.41
5:CE:13:ILE:HG23	5:CE:30:ALA:HB2	2.02	0.41
5:CE:53:LEU:H	5:CE:53:LEU:CD1	2.26	0.41
7:CG:76:ARG:HB2	7:CG:89:MET:SD	2.60	0.41
8:CH:100:ILE:HG23	8:CH:101:PRO:CD	2.51	0.41
8:CH:103:VAL:C	8:CH:105:ARG:N	2.78	0.41
16:CP:20:VAL:CG2	16:CP:21:VAL:N	2.84	0.41
22:CV:2:C:H2'	22:CV:3:C:H5"	1.98	0.41
24:CY:30:GLU:HB3	45:DK:25:PRO:HG3	2.01	0.41
24:CY:268:GLN:O	24:CY:272:LYS:HB2	2.20	0.41
24:CY:283:LEU:C	24:CY:285:GLU:N	2.79	0.41
25:D0:46:LYS:NZ	25:D0:75:LEU:O	2.49	0.41
26:D1:51:VAL:HG21	26:D1:74:VAL:HG21	2.03	0.41
28:D3:45:GLY:HA3	35:DA:851:U:HO2'	1.82	0.41
29:D4:37:PRO:O	29:D4:55:PRO:HB3	2.20	0.41
31:D6:18:ARG:NH2	31:D6:43:CYS:O	2.51	0.41
32:D7:8:ASN:ND2	32:D7:10:ARG:H	2.18	0.41
35:DA:228:A:H5'	35:DA:229:A:OP2	2.20	0.41
35:DA:373:U:H2'	35:DA:374:A:C8	2.56	0.41
35:DA:590:A:H2'	35:DA:591:C:H6	1.85	0.41
35:DA:614:U:O2	35:DA:614:U:O4'	2.37	0.41
35:DA:661:C:H4'	48:DP:18:ARG:HG2	2.03	0.41
35:DA:665:C:H2'	35:DA:666:G:H8	1.85	0.41
35:DA:833:U:H2'	35:DA:834:C:H6	1.83	0.41
35:DA:1120:G:H2'	35:DA:1121:C:C6	2.56	0.41
35:DA:1227:G:OP1	53:DU:13:LYS:CD	2.68	0.41
35:DA:1827:C:H2'	35:DA:1828:G:O4'	2.21	0.41
35:DA:1841:U:O2	38:DD:244:ARG:NH2	2.54	0.41
35:DA:2403:C:N4	35:DA:2414:G:H1	2.17	0.41
35:DA:2785:C:O2'	39:DE:64:LYS:HG3	2.21	0.41
35:DA:2827:C:O2	35:DA:2827:C:C2'	2.69	0.41
36:DB:88:C:H2'	36:DB:89:G:O4'	2.20	0.41
38:DD:227:ASN:OD1	38:DD:227:ASN:N	2.54	0.41
39:DE:144:ARG:HB3	39:DE:145:LYS:H	1.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:55:LYS:O	41:DG:57:ALA:N	2.54	0.41
41:DG:83:ARG:HB2	41:DG:84:LYS:H	1.56	0.41
41:DG:109:VAL:C	41:DG:112:PRO:HD2	2.46	0.41
41:DG:111:LEU:HD23	41:DG:114:ILE:CD1	2.51	0.41
41:DG:153:ARG:HG3	41:DG:153:ARG:HH11	1.84	0.41
41:DG:173:LEU:HD22	41:DG:178:PHE:HE2	1.85	0.41
42:DH:41:MET:CE	42:DH:55:PRO:HD3	2.48	0.41
59:DI:138:ILE:CG2	59:DI:139:GLN:N	2.84	0.41
45:DK:95:LYS:O	45:DK:96:VAL:C	2.63	0.41
47:DO:88:ASN:HD21	47:DO:90:GLN:HB2	1.85	0.41
48:DP:128:HIS:O	48:DP:147:LEU:HD22	2.20	0.41
49:DQ:40:ALA:HB3	49:DQ:127:ILE:HG21	2.03	0.41
50:DR:40:LYS:HE3	50:DR:40:LYS:HB2	1.93	0.41
52:DT:31:SER:CB	52:DT:43:GLN:O	2.69	0.41
52:DT:35:LYS:C	52:DT:37:GLY:H	2.27	0.41
56:DX:63:LYS:HG3	56:DX:63:LYS:O	2.20	0.41
57:DY:27:VAL:HA	57:DY:28:LYS:CE	2.49	0.41
1:AA:474:G:H2'	1:AA:475:G:C8	2.54	0.41
1:AA:495:A:H4'	1:AA:496:A:O5'	2.19	0.41
1:AA:957:U:O2	1:AA:959:A:H8	2.03	0.41
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.69	0.41
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.19	0.41
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.21	0.41
2:AB:177:ALA:O	2:AB:180:LEU:N	2.54	0.41
2:AB:223:ILE:HG22	2:AB:226:ARG:NH2	2.36	0.41
4:AD:92:VAL:O	4:AD:96:LEU:HD13	2.21	0.41
5:AE:11:ILE:HG21	5:AE:105:VAL:HG22	2.03	0.41
7:AG:144:MET:HE1	22:AW:31:A:H1'	2.02	0.41
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HG2	2.56	0.41
11:AK:13:GLN:HB3	11:AK:75:TYR:O	2.20	0.41
16:AP:6:LEU:HG	16:AP:19:ILE:CD1	2.50	0.41
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.20	0.41
16:AP:66:PRO:HB2	16:AP:70:ALA:CB	2.51	0.41
19:AS:43:GLU:O	19:AS:45:VAL:N	2.53	0.41
20:AT:57:ARG:NH1	20:AT:102:GLY:CA	2.82	0.41
23:AX:18:A:N3	23:AX:18:A:C2'	2.84	0.41
24:AY:15:GLY:O	24:AY:19:ILE:N	2.51	0.41
24:AY:37:SER:OG	24:AY:38:LEU:HD13	2.20	0.41
24:AY:46:ARG:NE	35:BA:1067:A:O3'	2.48	0.41
24:AY:160:PRO:HD3	24:AY:165:ASP:OD2	2.20	0.41
26:B1:61:ARG:HH11	26:B1:61:ARG:HG2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:5:GLU:O	27:B2:8:LYS:HB2	2.20	0.41
29:B4:42:CYS:HA	29:B4:59:VAL:C	2.45	0.41
35:BA:271(L):U:H5"	35:BA:271(M):G:OP1	2.21	0.41
35:BA:347:A:H2'	35:BA:348:G:C8	2.54	0.41
35:BA:419:C:H2'	35:BA:420:C:O4'	2.21	0.41
35:BA:699:A:C2'	35:BA:700:G:H5'	2.51	0.41
35:BA:836:G:C5	35:BA:837:C:C4	3.09	0.41
35:BA:1204:A:N1	35:BA:1241:A:H2	2.19	0.41
35:BA:1695:G:N2	35:BA:1696:G:C8	2.89	0.41
35:BA:2136:C:H2'	35:BA:2137:C:C6	2.53	0.41
35:BA:2810:A:C2'	39:BE:61:ARG:CZ	2.98	0.41
37:BC:56:GLN:O	37:BC:57:ASN:HB2	2.20	0.41
38:BD:11:PRO:C	38:BD:13:ARG:N	2.77	0.41
39:BE:18:ASP:OD1	52:BT:81:PRO:HG3	2.21	0.41
41:BG:117:PHE:C	41:BG:118:ARG:HG2	2.46	0.41
42:BH:96:ALA:HB1	42:BH:105:LEU:HA	2.03	0.41
43:BI:22:LYS:O	43:BI:23:PRO:C	2.62	0.41
43:BI:58:LEU:O	43:BI:61:ARG:N	2.53	0.41
46:BN:43:THR:HB	46:BN:46:VAL:HG12	2.02	0.41
48:BP:56:SER:O	48:BP:57:THR:C	2.64	0.41
48:BP:99:LEU:HD23	48:BP:102:ARG:NH1	2.36	0.41
50:BR:10:LEU:HD22	50:BR:17:ARG:CD	2.47	0.41
50:BR:37:THR:OG1	50:BR:39:PRO:HD2	2.21	0.41
52:BT:100:TYR:C	52:BT:102:ILE:N	2.79	0.41
53:BU:107:ALA:O	53:BU:108:GLU:C	2.63	0.41
57:BY:12:THR:O	57:BY:75:ILE:HG22	2.20	0.41
58:BZ:10:ARG:HD2	58:BZ:36:LYS:HD3	2.03	0.41
58:BZ:56:VAL:HG13	58:BZ:69:THR:O	2.21	0.41
1:CA:96:U:H2'	1:CA:97:G:C8	2.56	0.41
1:CA:193:C:H2'	1:CA:194:C:C6	2.55	0.41
1:CA:355:C:H4'	1:CA:388:G:O2'	2.21	0.41
1:CA:392:G:H5'	16:CP:12:LYS:HG3	2.01	0.41
1:CA:861:G:O2'	1:CA:862:C:H5'	2.21	0.41
1:CA:952:U:O2'	1:CA:953:G:H5'	2.21	0.41
1:CA:1134:G:N2	1:CA:1141:C:C2	2.89	0.41
1:CA:1324:A:O4'	1:CA:1362:C:H4'	2.21	0.41
1:CA:1494:G:O2'	1:CA:1495:U:H5'	2.20	0.41
3:CC:5:ILE:C	3:CC:5:ILE:CD1	2.93	0.41
4:CD:23:GLY:HA3	4:CD:113:SER:OG	2.20	0.41
4:CD:73:ARG:O	4:CD:77:ASN:ND2	2.54	0.41
5:CE:6:PHE:CD2	5:CE:36:ASP:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:101:ILE:CD1	5:CE:119:LEU:HD23	2.50	0.41
7:CG:15:ASP:O	7:CG:19:GLY:N	2.54	0.41
7:CG:27:ILE:HA	7:CG:30:ILE:CG1	2.51	0.41
7:CG:40:ALA:O	7:CG:41:ARG:C	2.64	0.41
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	2.19	0.41
8:CH:4:ASP:OD2	8:CH:85:ARG:NH1	2.47	0.41
8:CH:41:ARG:O	8:CH:41:ARG:HG2	2.20	0.41
8:CH:110:ALA:O	8:CH:111:ILE:C	2.63	0.41
9:CI:5:TYR:HD2	9:CI:18:PHE:HD2	1.69	0.41
10:CJ:24:VAL:HG21	10:CJ:37:PRO:HG3	2.02	0.41
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.20	0.41
12:CL:25:PRO:HD2	12:CL:98:TYR:OH	2.21	0.41
12:CL:30:ALA:HA	12:CL:31:PRO:HD3	1.86	0.41
14:CN:6:LEU:O	14:CN:10:ALA:N	2.54	0.41
19:CS:37:ARG:H	19:CS:37:ARG:HG3	1.31	0.41
19:CS:52:TYR:HA	19:CS:56:GLN:O	2.20	0.41
21:CU:13:ILE:HA	21:CU:22:ARG:NH1	2.36	0.41
22:CW:11:C:O2'	22:CW:12:U:H5'	2.21	0.41
24:CY:45:ALA:O	24:CY:47:LYS:N	2.54	0.41
24:CY:92:GLU:O	24:CY:96:LYS:HE3	2.21	0.41
27:D2:17:SER:O	27:D2:18:PRO:C	2.64	0.41
32:D7:45:ALA:C	32:D7:46:VAL:HG23	2.46	0.41
33:D8:48:PHE:CE2	35:DA:650:C:OP1	2.60	0.41
35:DA:252:G:O2'	35:DA:253:C:H5'	2.20	0.41
35:DA:263:C:H2'	35:DA:264:C:O4'	2.21	0.41
35:DA:581:C:H2'	35:DA:582:G:C8	2.56	0.41
35:DA:699:A:C2'	35:DA:700:G:H5'	2.50	0.41
35:DA:783:A:H4'	35:DA:1779:U:O2	2.20	0.41
35:DA:1177:A:H4'	35:DA:1178:C:H6	1.83	0.41
35:DA:1210:A:C5'	35:DA:1211:U:H3'	2.41	0.41
35:DA:2419:U:H2'	35:DA:2420:C:C6	2.55	0.41
35:DA:2507:C:H2'	35:DA:2508:G:C8	2.55	0.41
35:DA:2516:G:C5	35:DA:2517:C:C4	3.09	0.41
35:DA:2698:U:H2'	35:DA:2699:C:C6	2.55	0.41
35:DA:2777:G:H5"	35:DA:2778:A:H5'	2.01	0.41
36:DB:79:C:H2'	36:DB:80:U:O4'	2.21	0.41
38:DD:82:ILE:HG12	38:DD:92:ILE:O	2.21	0.41
38:DD:155:LEU:N	38:DD:155:LEU:CD1	2.84	0.41
39:DE:25:VAL:HG13	39:DE:183:LEU:HD12	2.01	0.41
39:DE:39:PRO:O	39:DE:43:GLY:HA2	2.21	0.41
40:DF:18:ARG:HD3	40:DF:199:TRP:CZ3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:160:ASN:C	40:DF:162:LEU:H	2.28	0.41
41:DG:2:PRO:HG2	41:DG:3:LEU:H	1.86	0.41
59:DI:88:ILE:O	59:DI:89:TYR:C	2.62	0.41
47:DO:44:LYS:O	47:DO:45:GLU:HB3	2.21	0.41
47:DO:115:VAL:HG13	47:DO:121:VAL:HG21	2.03	0.41
49:DQ:48:GLU:O	49:DQ:50:ALA:N	2.54	0.41
50:DR:65:LEU:C	50:DR:67:LEU:N	2.75	0.41
50:DR:116:LEU:HA	50:DR:116:LEU:HD23	1.83	0.41
51:DS:26:LEU:HD22	51:DS:26:LEU:O	2.20	0.41
52:DT:78:LEU:O	52:DT:79:HIS:ND1	2.54	0.41
52:DT:82:LEU:O	52:DT:83:ILE:C	2.62	0.41
54:DV:39:LEU:O	54:DV:40:LEU:HB2	2.20	0.41
58:DZ:111:VAL:CG2	58:DZ:112:ARG:N	2.82	0.41
1:AA:66:G:N3	1:AA:66:G:H2'	2.36	0.41
1:AA:96:U:H2'	1:AA:97:G:H8	1.84	0.41
1:AA:188:C:O2'	1:AA:189:G:H5'	2.20	0.41
1:AA:402:G:C6	1:AA:403:C:C4	3.08	0.41
1:AA:488:C:O2'	1:AA:489:C:H5'	2.21	0.41
1:AA:505:G:H2'	1:AA:506:G:H8	1.84	0.41
1:AA:598:U:H4'	8:AH:94:TYR:CD2	2.56	0.41
1:AA:639:G:O2'	1:AA:640:A:H5'	2.21	0.41
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.51	0.41
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.28	0.41
1:AA:1126:U:C2'	1:AA:1127:G:H5'	2.50	0.41
1:AA:1267:C:O2	1:AA:1327:C:H4'	2.20	0.41
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.85	0.41
1:AA:1505:G:H4'	1:AA:1506:U:H5'	2.03	0.41
2:AB:11:LEU:HD12	2:AB:217:ARG:CZ	2.50	0.41
2:AB:16:HIS:ND1	2:AB:16:HIS:N	2.68	0.41
2:AB:51:LEU:O	2:AB:55:PHE:HD2	2.04	0.41
2:AB:204:ASN:HD22	2:AB:207:ALA:HB3	1.86	0.41
3:AC:6:HIS:CB	14:AN:49:HIS:HB3	2.51	0.41
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	2.02	0.41
3:AC:91:LEU:HD11	3:AC:101:LEU:HD12	2.03	0.41
3:AC:95:THR:HG21	3:AC:97:LYS:HD2	2.03	0.41
5:AE:15:ARG:HG2	5:AE:26:PHE:HD2	1.86	0.41
5:AE:15:ARG:CZ	5:AE:26:PHE:HE2	2.33	0.41
5:AE:56:GLN:CD	5:AE:56:GLN:C	2.89	0.41
5:AE:70:PRO:O	5:AE:77:PRO:HD3	2.21	0.41
6:AF:19:LEU:HD23	6:AF:23:LYS:HG3	2.02	0.41
6:AF:50:TYR:CE2	6:AF:52:ILE:HD11	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:27:ILE:HA	7:AG:30:ILE:CG1	2.51	0.41
7:AG:76:ARG:HB2	7:AG:89:MET:SD	2.61	0.41
7:AG:78:ARG:HG3	7:AG:79:ARG:N	2.36	0.41
8:AH:4:ASP:HA	8:AH:5:PRO:HD3	1.92	0.41
10:AJ:74:ILE:O	10:AJ:74:ILE:HG13	2.21	0.41
12:AL:30:ALA:HA	12:AL:31:PRO:HD3	1.86	0.41
13:AM:40:ASN:HA	13:AM:41:PRO:HD3	1.86	0.41
13:AM:45:VAL:O	13:AM:45:VAL:HG12	2.20	0.41
13:AM:72:ALA:O	13:AM:76:ALA:HB2	2.21	0.41
15:AO:9:GLN:O	15:AO:10:LYS:C	2.64	0.41
16:AP:20:VAL:HG23	16:AP:35:LYS:HA	2.03	0.41
16:AP:39:TYR:CD1	16:AP:73:LEU:HD13	2.56	0.41
16:AP:60:LEU:HD23	16:AP:60:LEU:HA	1.90	0.41
17:AQ:80:GLY:C	17:AQ:82:MET:N	2.78	0.41
18:AR:21:LYS:HZ2	18:AR:57:GLY:N	2.18	0.41
18:AR:86:VAL:HG12	18:AR:87:ARG:N	2.35	0.41
20:AT:38:LYS:HA	20:AT:41:ILE:CG1	2.51	0.41
21:AU:25:LYS:HB2	21:AU:25:LYS:NZ	2.36	0.41
22:AV:72:C:C6	22:AV:72:C:H3'	2.55	0.41
22:AW:8:U:H1'	22:AW:48:C:O2	2.21	0.41
24:AY:38:LEU:HB2	24:AY:40:ASN:HD21	1.86	0.41
24:AY:100:GLU:C	24:AY:102:TYR:N	2.79	0.41
24:AY:227:LEU:O	24:AY:254:LEU:HD11	2.21	0.41
24:AY:341:LEU:HB3	24:AY:345:ILE:HD11	2.02	0.41
27:B2:11:GLU:HG3	27:B2:12:GLU:N	2.35	0.41
27:B2:12:GLU:O	27:B2:16:LEU:HG	2.21	0.41
30:B5:52:TYR:O	30:B5:53:ALA:C	2.63	0.41
31:B6:18:ARG:NH2	31:B6:43:CYS:O	2.51	0.41
32:B7:12:ARG:HD3	32:B7:46:VAL:CG2	2.50	0.41
32:B7:47:ARG:O	32:B7:48:LYS:HD3	2.21	0.41
34:B9:4:ARG:HB2	35:BA:2466:C:OP1	2.21	0.41
35:BA:306:U:O2'	35:BA:307:G:H5'	2.20	0.41
35:BA:412:A:C2'	35:BA:413:C:H5'	2.50	0.41
35:BA:431:U:O2'	35:BA:432:A:H5'	2.20	0.41
35:BA:557:U:O2	46:BN:45:ASN:HB2	2.21	0.41
35:BA:639:U:H2'	35:BA:640:C:C6	2.56	0.41
35:BA:644:A:C2	35:BA:646:A:C4	3.09	0.41
35:BA:783:A:C8	35:BA:784:A:H4'	2.55	0.41
35:BA:970:C:H2'	35:BA:971:C:C6	2.55	0.41
35:BA:984:A:H5"	35:BA:985:C:H5	1.85	0.41
35:BA:1018:C:H2'	35:BA:1019:U:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1093:G:C2'	35:BA:1094:U:H5'	2.51	0.41
35:BA:1175:U:O5'	35:BA:1176:G:H5'	2.21	0.41
35:BA:1426:G:C6	35:BA:1427:A:C6	3.09	0.41
35:BA:1472:A:H61	35:BA:1519:G:C2'	2.33	0.41
35:BA:1493:C:O2	35:BA:1493:C:C2'	2.67	0.41
35:BA:1497:U:O2	35:BA:1497:U:C2'	2.62	0.41
35:BA:1684:C:H2'	35:BA:1685:C:C6	2.56	0.41
35:BA:1782:C:O2'	35:BA:1783:A:C5'	2.68	0.41
35:BA:1899:G:O2'	35:BA:1900:A:OP2	2.35	0.41
35:BA:2086:U:H2'	35:BA:2087:G:C8	2.56	0.41
35:BA:2321:G:N3	35:BA:2321:G:H2'	2.35	0.41
35:BA:2340:G:H2'	35:BA:2341:G:H8	1.86	0.41
35:BA:2450:A:O2'	35:BA:2451:A:H5'	2.20	0.41
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.32	0.41
35:BA:2883:A:H5'	35:BA:2884:U:H5'	2.02	0.41
35:BA:2892:A:H3'	35:BA:2893:G:C4'	2.51	0.41
35:BA:2892:A:N7	35:BA:2893:G:H1'	2.36	0.41
38:BD:6:PHE:HE1	38:BD:18:VAL:HG12	1.85	0.41
38:BD:231:HIS:ND1	38:BD:232:PRO:CD	2.83	0.41
39:BE:63:LEU:O	39:BE:63:LEU:HD23	2.21	0.41
39:BE:65:GLY:HA2	39:BE:70:ALA:HB1	2.01	0.41
39:BE:117:MET:HE3	39:BE:124:GLY:CA	2.46	0.41
41:BG:5:VAL:O	41:BG:6:ALA:O	2.39	0.41
41:BG:16:ARG:O	41:BG:17:PRO:C	2.63	0.41
41:BG:61:ALA:C	41:BG:63:ILE:N	2.78	0.41
41:BG:76:SER:CA	41:BG:83:ARG:HB2	2.42	0.41
41:BG:139:LEU:O	41:BG:141:PHE:N	2.53	0.41
42:BH:54:ARG:HB2	42:BH:55:PRO:HD2	2.03	0.41
42:BH:94:TYR:CA	42:BH:107:VAL:HG12	2.36	0.41
43:BI:29:TYR:O	43:BI:30:LEU:O	2.38	0.41
45:BK:35:MET:C	45:BK:37:PHE:N	2.79	0.41
45:BK:38:VAL:O	45:BK:42:ASN:ND2	2.54	0.41
46:BN:27:ALA:CB	46:BN:106:MET:HE1	2.50	0.41
48:BP:41:ARG:HH22	48:BP:45:LEU:HG	1.85	0.41
48:BP:149:GLU:OE1	48:BP:149:GLU:HA	2.21	0.41
51:BS:17:ARG:O	51:BS:18:ILE:HB	2.20	0.41
52:BT:16:ARG:HD3	52:BT:17:THR:N	2.35	0.41
53:BU:111:GLU:OE2	53:BU:111:GLU:HA	2.21	0.41
54:BV:35:LEU:O	54:BV:36:PRO:C	2.64	0.41
55:BW:29:LEU:O	55:BW:33:ARG:HG3	2.21	0.41
57:BY:98:VAL:O	57:BY:99:CYS:SG	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:70:LEU:O	58:BZ:71:VAL:C	2.64	0.41
58:BZ:80:ARG:NH1	58:BZ:80:ARG:HG3	2.35	0.41
58:BZ:108:PRO:O	58:BZ:109:ALA:O	2.38	0.41
1:CA:101:A:C5	1:CA:102:G:N7	2.89	0.41
1:CA:102:G:O2'	1:CA:151:A:N3	2.41	0.41
1:CA:243:A:C2	1:CA:246:A:C8	3.09	0.41
1:CA:402:G:C6	1:CA:403:C:C4	3.08	0.41
1:CA:402:G:O2'	1:CA:403:C:H5'	2.20	0.41
1:CA:452:A:O2'	1:CA:453:A:P	2.79	0.41
1:CA:519:C:C2'	1:CA:520:A:H5'	2.50	0.41
1:CA:539:A:H2'	1:CA:540:G:H8	1.86	0.41
1:CA:636:U:H2'	1:CA:637:G:H8	1.85	0.41
1:CA:677:U:H2'	1:CA:678:U:C6	2.56	0.41
1:CA:692:U:H2'	1:CA:694:A:OP2	2.21	0.41
1:CA:829:G:H2'	1:CA:830:G:C8	2.54	0.41
1:CA:888:G:H4'	1:CA:1488:G:O2'	2.21	0.41
1:CA:1375:A:H2'	1:CA:1376:U:H6	1.86	0.41
2:CB:16:HIS:HB3	2:CB:210:SER:OG	2.20	0.41
2:CB:69:LEU:HD22	2:CB:159:PRO:HG2	2.02	0.41
2:CB:187:LEU:HD23	2:CB:201:ILE:HG22	2.03	0.41
2:CB:220:ASP:O	2:CB:223:ILE:HG12	2.21	0.41
3:CC:15:THR:CG2	3:CC:181:ASN:N	2.78	0.41
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	2.01	0.41
3:CC:95:THR:HG21	3:CC:97:LYS:HD2	2.03	0.41
3:CC:165:THR:O	3:CC:165:THR:HG22	2.19	0.41
7:CG:20:ASP:HB3	7:CG:23:VAL:HG23	2.02	0.41
7:CG:60:LYS:HD2	7:CG:60:LYS:HA	1.90	0.41
7:CG:155:ARG:O	7:CG:156:TRP:O	2.39	0.41
8:CH:85:ARG:HG3	8:CH:85:ARG:NH1	2.35	0.41
9:CI:55:ALA:O	9:CI:57:GLY:N	2.54	0.41
9:CI:78:LYS:NZ	9:CI:78:LYS:CB	2.84	0.41
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.44	0.41
12:CL:27:LEU:C	12:CL:29:GLY:N	2.77	0.41
12:CL:117:ARG:NH2	12:CL:124:LYS:HA	2.35	0.41
13:CM:40:ASN:OD1	13:CM:41:PRO:HD2	2.21	0.41
13:CM:77:ASN:O	13:CM:80:ARG:HB3	2.21	0.41
16:CP:9:PHE:HB3	16:CP:10:GLY:H	1.70	0.41
16:CP:23:ASP:O	16:CP:24:ALA:C	2.64	0.41
16:CP:64:ALA:C	16:CP:65:GLN:OE1	2.63	0.41
17:CQ:22:LEU:HD11	17:CQ:39:SER:CB	2.51	0.41
18:CR:36:ASN:O	18:CR:37:VAL:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:72:LEU:O	20:CT:76:ALA:HB3	2.21	0.41
22:CW:7:A:H2'	22:CW:49:C:OP2	2.20	0.41
24:CY:51:GLU:CA	24:CY:54:ARG:NH2	2.70	0.41
24:CY:103:HIS:O	24:CY:104:GLN:NE2	2.54	0.41
25:D0:41:ARG:HD3	25:D0:44:ARG:HD3	2.02	0.41
25:D0:73:GLY:O	25:D0:75:LEU:N	2.47	0.41
26:D1:52:ARG:O	26:D1:53:VAL:O	2.39	0.41
26:D1:75:GLU:OE2	59:DI:43:ASN:ND2	2.50	0.41
27:D2:59:ARG:O	27:D2:62:THR:N	2.54	0.41
28:D3:15:TYR:HD2	28:D3:19:GLN:HE22	1.69	0.41
30:D5:37:LYS:O	30:D5:38:ALA:C	2.64	0.41
30:D5:51:TYR:HB3	30:D5:54:GLY:HA3	2.03	0.41
33:D8:29:LYS:HD3	33:D8:44:LYS:CB	2.51	0.41
35:DA:45:C:O2'	35:DA:47:C:H5'	2.21	0.41
35:DA:94:C:H2'	35:DA:94:C:O2	2.20	0.41
35:DA:317:G:C6	35:DA:318:C:C4	3.09	0.41
35:DA:360:G:O2'	35:DA:361:G:H5'	2.21	0.41
35:DA:372:G:N2	35:DA:400:G:H2'	2.36	0.41
35:DA:481:G:O2'	35:DA:482:A:OP2	2.39	0.41
35:DA:611:C:O5'	35:DA:611:C:H6	2.03	0.41
35:DA:649:G:H2'	35:DA:650:C:C6	2.56	0.41
35:DA:691:C:O4'	38:DD:43:ARG:NH2	2.54	0.41
35:DA:792:G:H5"	35:DA:793:A:H5'	2.03	0.41
35:DA:819:A:C4	35:DA:1189:A:C2	3.08	0.41
35:DA:820:A:N3	35:DA:943:U:H4'	2.36	0.41
35:DA:1034:G:C5	35:DA:1035:U:C5	3.09	0.41
35:DA:1042:G:H2'	35:DA:1043:C:O4'	2.21	0.41
35:DA:1446:C:H2'	35:DA:1447:G:H8	1.86	0.41
35:DA:1484:G:H2'	35:DA:1484:G:N3	2.36	0.41
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.35	0.41
35:DA:1764:G:O2'	35:DA:1765:C:H5'	2.20	0.41
35:DA:1899:G:N2	35:DA:1902:C:C5	2.89	0.41
35:DA:2025:C:H2'	35:DA:2026:C:C6	2.56	0.41
35:DA:2287:A:O2'	35:DA:2288:A:H3'	2.20	0.41
37:DC:64:LEU:HA	37:DC:65:PRO:HD2	1.91	0.41
37:DC:72:VAL:HG21	37:DC:160:ARG:O	2.21	0.41
37:DC:83:ILE:O	37:DC:83:ILE:HG22	2.20	0.41
38:DD:211:ARG:C	38:DD:213:ARG:N	2.74	0.41
38:DD:237:GLU:OE2	38:DD:237:GLU:C	2.64	0.41
39:DE:79:ARG:HG2	39:DE:79:ARG:HH11	1.86	0.41
39:DE:88:GLY:O	39:DE:89:ASP:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:110:GLY:O	50:DR:2:ARG:CZ	2.69	0.41
39:DE:181:LEU:HD23	52:DT:11:GLU:OE2	2.21	0.41
40:DF:7:TYR:HB2	40:DF:16:GLY:C	2.46	0.41
40:DF:9:ILE:O	40:DF:10:PRO:O	2.39	0.41
40:DF:110:LEU:O	40:DF:111:ALA:C	2.62	0.41
40:DF:165:ARG:NH1	40:DF:165:ARG:HG3	2.36	0.41
41:DG:19:LEU:O	41:DG:20:ILE:C	2.62	0.41
41:DG:39:ILE:HG22	41:DG:157:ILE:HB	2.02	0.41
41:DG:90:LEU:HD23	41:DG:90:LEU:HA	1.89	0.41
41:DG:147:ASP:OD1	41:DG:148:MET:N	2.54	0.41
41:DG:173:LEU:CD2	41:DG:178:PHE:HE2	2.34	0.41
42:DH:30:LYS:NZ	42:DH:81:GLU:HG2	2.36	0.41
42:DH:118:PRO:O	42:DH:119:GLU:C	2.63	0.41
44:DJ:8:UNK:C	44:DJ:10:UNK:N	2.81	0.41
45:DK:29:GLN:C	45:DK:31:GLY:H	2.29	0.41
45:DK:100:THR:C	45:DK:102:GLU:N	2.79	0.41
45:DK:100:THR:O	45:DK:104:VAL:HG12	2.20	0.41
45:DK:104:VAL:HG13	45:DK:105:LEU:N	2.36	0.41
49:DQ:19:GLY:O	49:DQ:20:ALA:HB3	2.21	0.41
49:DQ:26:TYR:O	49:DQ:26:TYR:CD1	2.73	0.41
49:DQ:32:TYR:CZ	49:DQ:133:ARG:HD3	2.55	0.41
51:DS:26:LEU:HG	51:DS:39:ILE:HD11	2.03	0.41
51:DS:93:LYS:O	51:DS:93:LYS:CG	2.68	0.41
52:DT:13:ARG:NH1	52:DT:15:VAL:HG22	2.36	0.41
52:DT:35:LYS:O	52:DT:37:GLY:N	2.54	0.41
58:DZ:5:LEU:HG	58:DZ:6:LYS:N	2.36	0.41
1:AA:560:U:O2'	1:AA:561:U:OP2	2.27	0.41
1:AA:801:U:H2'	1:AA:802:A:H8	1.86	0.41
1:AA:1456:G:H2'	1:AA:1457:G:H5'	2.02	0.41
3:AC:21:ARG:H	3:AC:21:ARG:HG2	1.77	0.41
9:AI:55:ALA:O	9:AI:56:LEU:C	2.64	0.41
11:AK:61:ALA:CB	11:AK:90:GLY:HA3	2.51	0.41
13:AM:81:LEU:O	13:AM:89:GLY:HA3	2.20	0.41
15:AO:82:ILE:C	15:AO:82:ILE:CD1	2.93	0.41
19:AS:63:THR:H	19:AS:66:MET:CE	2.14	0.41
22:AV:36:A:C2	23:AX:20:U:O2	2.74	0.41
22:AV:62:C:O2	22:AV:62:C:C2'	2.68	0.41
24:AY:88:LYS:N	24:AY:89:PRO:CD	2.84	0.41
24:AY:137:LEU:O	24:AY:138:ARG:C	2.64	0.41
27:B2:2:LYS:HA	27:B2:2:LYS:HZ3	1.85	0.41
35:BA:234:C:H2'	35:BA:235:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:301:G:C6	35:BA:317:G:C5	3.08	0.41
35:BA:585:G:H2'	35:BA:1251:C:H42	1.85	0.41
35:BA:601:C:C5'	40:BF:108:LYS:HZ2	2.34	0.41
35:BA:1544:A:C2	35:BA:1545:A:C2	3.08	0.41
35:BA:1570:A:C6	35:BA:1571:A:C6	3.09	0.41
35:BA:2173:A:H3'	35:BA:2174:C:C6	2.56	0.41
35:BA:2741:A:H2'	35:BA:2742:C:O4'	2.21	0.41
36:BB:111:G:O2'	36:BB:112:U:H5'	2.21	0.41
38:BD:32:SER:C	38:BD:33:LEU:O	2.63	0.41
39:BE:103:ASP:CG	39:BE:168:MET:HE2	2.46	0.41
39:BE:116:VAL:HG22	39:BE:117:MET:N	2.34	0.41
41:BG:15:VAL:C	41:BG:18:GLU:HB3	2.44	0.41
42:BH:154:PRO:O	42:BH:155:SER:HB3	2.20	0.41
47:BO:75:SER:HB2	52:BT:75:ILE:O	2.21	0.41
48:BP:32:THR:O	48:BP:33:ARG:CB	2.69	0.41
48:BP:75:ILE:O	48:BP:77:ARG:HG3	2.20	0.41
48:BP:148:LEU:HD22	48:BP:148:LEU:C	2.46	0.41
50:BR:58:GLY:O	50:BR:59:ASP:C	2.63	0.41
50:BR:103:ARG:HB3	50:BR:110:PRO:HA	2.03	0.41
52:BT:78:LEU:C	52:BT:79:HIS:HD1	2.29	0.41
52:BT:85:LYS:HE3	52:BT:85:LYS:HB3	1.91	0.41
57:BY:9:LYS:CG	57:BY:10:GLY:N	2.85	0.41
57:BY:28:LYS:O	57:BY:38:ILE:HB	2.20	0.41
58:BZ:8:TYR:HB3	58:BZ:38:TYR:CE2	2.56	0.41
58:BZ:104:PHE:C	58:BZ:105:VAL:HG12	2.45	0.41
58:BZ:134:PRO:O	58:BZ:136:PHE:N	2.53	0.41
58:BZ:152:ALA:CB	58:BZ:167:PRO:HG2	2.39	0.41
1:CA:274:A:C4'	1:CA:275:G:OP1	2.69	0.41
1:CA:624:C:O2'	16:CP:10:GLY:HA2	2.21	0.41
1:CA:691:G:O2'	1:CA:797:C:H4'	2.21	0.41
1:CA:848:C:H2'	1:CA:849:C:H6	1.85	0.41
1:CA:878:G:C5'	8:CH:89:PRO:HG2	2.36	0.41
1:CA:1130:A:C2	1:CA:1146:A:C5	3.09	0.41
1:CA:1170:A:H2'	1:CA:1171:G:H5'	2.03	0.41
1:CA:1187:G:O5'	9:CI:113:LYS:HE2	2.21	0.41
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.21	0.41
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.85	0.41
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.21	0.41
2:CB:31:TYR:N	2:CB:31:TYR:CD2	2.88	0.41
3:CC:126:ARG:HB3	3:CC:128:PHE:CE1	2.56	0.41
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:118:VAL:HG23	7:CG:119:ARG:H	1.86	0.41
9:CI:50:LEU:HD21	9:CI:81:ILE:CG2	2.51	0.41
9:CI:80:GLY:O	9:CI:84:ALA:N	2.54	0.41
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.46	0.41
10:CJ:6:ILE:CG2	10:CJ:98:ILE:HG13	2.52	0.41
11:CK:21:ILE:HD13	11:CK:84:VAL:HG13	2.03	0.41
11:CK:24:SER:OG	11:CK:25:TYR:N	2.53	0.41
11:CK:34:ASP:C	11:CK:36:ASP:N	2.79	0.41
11:CK:44:SER:H	11:CK:47:VAL:CG2	2.34	0.41
11:CK:84:VAL:CG1	11:CK:95:ILE:HD11	2.51	0.41
12:CL:42:THR:OG1	12:CL:52:LEU:HB3	2.21	0.41
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.86	0.41
15:CO:36:ILE:HG22	15:CO:37:ASN:N	2.36	0.41
15:CO:37:ASN:HD22	15:CO:37:ASN:N	2.17	0.41
16:CP:66:PRO:HG2	16:CP:71:ARG:HB3	2.03	0.41
16:CP:71:ARG:NH1	16:CP:71:ARG:CB	2.84	0.41
18:CR:86:VAL:HG12	18:CR:87:ARG:N	2.36	0.41
19:CS:6:LYS:CG	19:CS:7:LYS:HE3	2.50	0.41
22:CW:55:U:C5	22:CW:57:G:H5"	2.56	0.41
24:CY:69:LEU:C	24:CY:71:GLY:H	2.28	0.41
24:CY:287:GLU:C	24:CY:289:LYS:N	2.79	0.41
24:CY:340:ASP:O	24:CY:342:MET:N	2.54	0.41
25:D0:20:ARG:NH1	35:DA:2271:G:H5"	2.36	0.41
25:D0:71:ASP:O	25:D0:73:GLY:N	2.49	0.41
26:D1:52:ARG:NH1	35:DA:2218:U:O2'	2.53	0.41
28:D3:4:LEU:O	28:D3:6:VAL:N	2.54	0.41
31:D6:19:ARG:CD	31:D6:19:ARG:N	2.84	0.41
31:D6:19:ARG:HD2	31:D6:19:ARG:N	2.36	0.41
31:D6:24:GLU:HB3	31:D6:25:LYS:H	1.60	0.41
33:D8:2:PRO:HA	35:DA:591:C:H1'	2.03	0.41
33:D8:2:PRO:O	33:D8:3:LYS:HB3	2.20	0.41
35:DA:39:C:O2	40:DF:46:ARG:NH2	2.54	0.41
35:DA:470:A:H5'	35:DA:470:A:C8	2.53	0.41
35:DA:601:C:O2	35:DA:605:C:H4'	2.20	0.41
35:DA:769:G:H5'	35:DA:1379:A:N6	2.36	0.41
35:DA:1241:A:H2'	35:DA:1242:A:O5'	2.21	0.41
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.20	0.41
35:DA:1586:A:C8	35:DA:1587:A:H1'	2.56	0.41
35:DA:1771:C:O2'	35:DA:1786:A:H8	2.04	0.41
35:DA:2070:G:C2	35:DA:2442:C:C2	3.09	0.41
35:DA:2127:G:H5'	37:DC:36:LYS:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2808:U:H2'	35:DA:2809:A:C5'	2.50	0.41
35:DA:2811:G:C2'	35:DA:2812:G:H5'	2.51	0.41
36:DB:94:C:H2'	36:DB:95:C:C6	2.56	0.41
36:DB:95:C:C2	36:DB:96:U:C5	3.09	0.41
38:DD:131:LEU:HD11	38:DD:136:ILE:HG12	2.02	0.41
38:DD:270:ILE:C	38:DD:271:ILE:HG13	2.44	0.41
41:DG:78:SER:C	41:DG:80:PHE:H	2.29	0.41
59:DI:111:PRO:CG	59:DI:112:LYS:H	2.26	0.41
59:DI:133:HIS:NE2	59:DI:135:GLU:HG2	2.36	0.41
44:DJ:125:UNK:C	44:DJ:127:UNK:N	2.84	0.41
45:DK:10:LEU:HD22	45:DK:26:ALA:HB1	2.02	0.41
46:DN:15:LEU:HD13	46:DN:16:ILE:N	2.36	0.41
46:DN:43:THR:HB	46:DN:46:VAL:HG12	2.03	0.41
48:DP:87:ASP:C	48:DP:89:ALA:H	2.29	0.41
49:DQ:69:PHE:CD1	49:DQ:70:PRO:HD2	2.57	0.41
50:DR:29:LEU:O	50:DR:30:THR:C	2.61	0.41
52:DT:31:SER:HB3	52:DT:43:GLN:O	2.21	0.41
53:DU:111:GLU:C	53:DU:113:ALA:N	2.78	0.41
54:DV:5:VAL:HG21	54:DV:35:LEU:HB3	2.03	0.41
54:DV:18:LEU:CD1	54:DV:19:LYS:H	2.34	0.41
55:DW:68:ARG:O	55:DW:109:GLU:HA	2.21	0.41
56:DX:11:PRO:HA	56:DX:28:PHE:CB	2.30	0.41
56:DX:23:GLU:C	56:DX:25:LYS:H	2.27	0.41
56:DX:73:ARG:HB3	56:DX:74:PRO:HD2	2.03	0.41
57:DY:25:GLY:HA3	57:DY:39:VAL:CG1	2.51	0.41
57:DY:84:ARG:HH22	57:DY:97:ARG:NE	2.18	0.41
58:DZ:53:ILE:HD12	58:DZ:53:ILE:N	2.31	0.41
1:AA:373:A:C2	1:AA:482:A:N6	2.89	0.40
1:AA:453:A:O2'	1:AA:454:C:H6	2.00	0.40
1:AA:577:G:C4	1:AA:816:A:C2	3.09	0.40
1:AA:802:A:C2'	1:AA:803:G:H5'	2.51	0.40
1:AA:1060:C:H5'	14:AN:45:ARG:HH22	1.80	0.40
1:AA:1396:A:H4'	1:AA:1398:A:O4'	2.21	0.40
2:AB:111:ARG:HG2	2:AB:111:ARG:NH1	2.37	0.40
2:AB:166:ASP:HA	2:AB:167:PRO:HD2	1.79	0.40
3:AC:3:ASN:OD1	3:AC:3:ASN:N	2.54	0.40
4:AD:79:PHE:CE1	4:AD:204:ILE:HD13	2.56	0.40
8:AH:6:ILE:O	8:AH:7:ALA:C	2.63	0.40
8:AH:9:MET:O	8:AH:10:LEU:C	2.62	0.40
8:AH:88:LYS:HB2	8:AH:88:LYS:NZ	2.37	0.40
8:AH:110:ALA:O	8:AH:111:ILE:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:33:THR:HG22	11:AK:39:PRO:CA	2.46	0.40
11:AK:99:GLN:C	11:AK:101:SER:H	2.29	0.40
12:AL:7:ILE:O	12:AL:11:VAL:HG23	2.20	0.40
14:AN:22:THR:HG22	14:AN:33:VAL:CG1	2.51	0.40
15:AO:25:THR:C	15:AO:27:VAL:N	2.78	0.40
16:AP:5:ARG:C	16:AP:6:LEU:HD12	2.47	0.40
17:AQ:46:ASP:OD2	17:AQ:50:LYS:HG2	2.21	0.40
17:AQ:80:GLY:O	17:AQ:82:MET:N	2.51	0.40
18:AR:33:ASP:HB3	18:AR:36:ASN:ND2	2.36	0.40
20:AT:104:LEU:HD23	20:AT:106:ALA:N	2.35	0.40
24:AY:241:GLY:O	24:AY:243:ASN:N	2.54	0.40
24:AY:302:VAL:HB	24:AY:303:GLU:H	1.66	0.40
25:B0:46:LYS:O	25:B0:78:TYR:HA	2.21	0.40
25:B0:63:VAL:O	25:B0:63:VAL:HG23	2.21	0.40
29:B4:51:TYR:CE2	41:BG:2:PRO:HD3	2.55	0.40
34:B9:19:ARG:O	34:B9:19:ARG:HG3	2.21	0.40
35:BA:189:G:H1	35:BA:205:G:HO2'	1.68	0.40
35:BA:558:G:OP2	46:BN:111:PRO:HD2	2.21	0.40
35:BA:1085:A:O2'	35:BA:1086:A:H5'	2.21	0.40
35:BA:1270:C:H5"	35:BA:1271:G:H5'	2.03	0.40
35:BA:1804:C:O2'	35:BA:1805:U:H5'	2.21	0.40
35:BA:2162:G:H1'	35:BA:2173:A:H1'	2.03	0.40
35:BA:2308:G:C2	35:BA:2309:A:C6	3.09	0.40
35:BA:2494:G:O2'	49:BQ:80:GLU:HA	2.21	0.40
35:BA:2658:C:N4	35:BA:2664:G:N2	2.69	0.40
36:BB:111:G:C2'	36:BB:112:U:H5'	2.51	0.40
38:BD:9:TYR:C	38:BD:10:THR:HG22	2.46	0.40
38:BD:111:LEU:HD13	38:BD:115:GLN:OE1	2.21	0.40
40:BF:66:PRO:O	40:BF:67:GLN:CB	2.53	0.40
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.57	0.40
41:BG:6:ALA:O	41:BG:8:LYS:N	2.54	0.40
41:BG:141:PHE:HA	41:BG:142:PRO:HD3	1.98	0.40
41:BG:171:ALA:O	41:BG:172:LEU:C	2.64	0.40
45:BK:3:LYS:HG2	45:BK:4:VAL:N	2.35	0.40
46:BN:7:LYS:O	46:BN:8:GLN:C	2.62	0.40
46:BN:51:PHE:HA	46:BN:119:ARG:O	2.21	0.40
48:BP:62:LEU:N	48:BP:62:LEU:CD1	2.71	0.40
49:BQ:79:LEU:HD23	49:BQ:80:GLU:N	2.33	0.40
50:BR:81:ASP:O	50:BR:82:GLU:CB	2.62	0.40
51:BS:89:ARG:HH11	51:BS:92:TYR:CA	2.14	0.40
53:BU:59:ARG:O	53:BU:60:LEU:C	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:111:GLU:O	53:BU:112:ARG:C	2.64	0.40
54:BV:62:LEU:HD22	54:BV:62:LEU:N	2.36	0.40
55:BW:107:LEU:HD12	55:BW:107:LEU:HA	1.87	0.40
56:BX:12:VAL:HG13	56:BX:17:ALA:HB1	2.03	0.40
56:BX:30:VAL:CG1	56:BX:31:HIS:N	2.72	0.40
58:BZ:166:SER:OG	58:BZ:167:PRO:HA	2.21	0.40
1:CA:1084:G:C5	1:CA:1085:U:C4	3.10	0.40
1:CA:1456:G:O2'	1:CA:1457:G:H5'	2.21	0.40
2:CB:12:GLU:HB3	2:CB:44:LEU:HD23	2.03	0.40
2:CB:75:LYS:HA	2:CB:78:GLN:HE21	1.86	0.40
3:CC:121:ALA:O	3:CC:125:GLU:HG3	2.21	0.40
4:CD:9:CYS:SG	4:CD:31:CYS:C	3.04	0.40
5:CE:90:VAL:HG23	5:CE:121:LYS:HB3	1.98	0.40
7:CG:75:VAL:CG1	7:CG:145:ALA:HA	2.51	0.40
8:CH:25:ASP:C	8:CH:26:VAL:CG1	2.94	0.40
8:CH:29:SER:O	8:CH:30:ARG:C	2.64	0.40
10:CJ:37:PRO:O	10:CJ:39:PRO:HD3	2.21	0.40
16:CP:77:ALA:O	16:CP:78:GLY:O	2.39	0.40
19:CS:44:MET:HE3	19:CS:44:MET:HA	2.03	0.40
20:CT:99:LEU:O	20:CT:100:ILE:C	2.64	0.40
24:CY:37:SER:O	24:CY:39:TRP:CE3	2.74	0.40
25:D0:20:ARG:NH1	35:DA:2271:G:C5'	2.83	0.40
25:D0:20:ARG:HG3	35:DA:2356:C:H4'	2.02	0.40
26:D1:63:ALA:C	26:D1:65:SER:N	2.78	0.40
27:D2:64:LEU:CD2	27:D2:64:LEU:C	2.94	0.40
33:D8:21:LYS:HD3	33:D8:48:PHE:CE1	2.56	0.40
33:D8:36:LYS:O	33:D8:37:SER:O	2.39	0.40
35:DA:118:A:OP2	35:DA:119:A:H2'	2.21	0.40
35:DA:465:G:C6	35:DA:466:A:N6	2.89	0.40
35:DA:504:U:O2	35:DA:504:U:O4'	2.35	0.40
35:DA:1109:C:O2	35:DA:1109:C:C2'	2.69	0.40
35:DA:1855:G:O2'	35:DA:1856:G:H5'	2.22	0.40
35:DA:2206:G:H3'	35:DA:2206:G:N3	2.37	0.40
35:DA:2862:G:C5	35:DA:2863:C:C5	3.09	0.40
36:DB:8:U:H5'	36:DB:8:U:C6	2.44	0.40
37:DC:18:LYS:O	37:DC:19:VAL:CB	2.69	0.40
39:DE:115:GLY:HA2	39:DE:157:ALA:HB1	2.03	0.40
40:DF:132:VAL:O	40:DF:133:ASN:O	2.39	0.40
59:DI:69:LYS:HE2	59:DI:136:VAL:CG1	2.51	0.40
59:DI:72:LEU:HD21	59:DI:107:ILE:CG1	2.43	0.40
49:DQ:47:ILE:CD1	49:DQ:70:PRO:HD3	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:112:GLU:CG	49:DQ:113:GLN:N	2.84	0.40
53:DU:74:LEU:C	53:DU:74:LEU:HD12	2.46	0.40
54:DV:22:VAL:O	54:DV:22:VAL:CG1	2.68	0.40
54:DV:37:VAL:O	54:DV:37:VAL:HG23	2.21	0.40
56:DX:9:LEU:HD12	56:DX:30:VAL:C	2.45	0.40
58:DZ:11:GLU:HB2	58:DZ:12:GLY:H	1.64	0.40
58:DZ:48:PHE:CE2	58:DZ:71:VAL:HG21	2.56	0.40
58:DZ:140:ASP:OD2	58:DZ:140:ASP:O	2.39	0.40
58:DZ:146:ILE:CG1	58:DZ:147:GLY:H	2.20	0.40
1:AA:226:G:O2'	1:AA:227:G:H5'	2.21	0.40
1:AA:328:C:O2'	1:AA:329:A:OP2	2.37	0.40
1:AA:952:U:O2'	1:AA:953:G:H5'	2.21	0.40
1:AA:1074:G:C2	1:AA:1075:C:C2	3.10	0.40
1:AA:1084:G:C5	1:AA:1085:U:C4	3.09	0.40
1:AA:1170:A:H2'	1:AA:1171:G:C5'	2.51	0.40
2:AB:127:ILE:O	2:AB:127:ILE:HG22	2.22	0.40
3:AC:6:HIS:HE2	3:AC:184:TYR:HD2	1.66	0.40
3:AC:25:GLY:C	3:AC:27:LYS:N	2.79	0.40
3:AC:151:VAL:HA	3:AC:199:LYS:O	2.21	0.40
4:AD:135:LEU:N	4:AD:135:LEU:HD13	2.37	0.40
4:AD:146:ILE:N	4:AD:146:ILE:CD1	2.84	0.40
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.22	0.40
5:AE:139:LEU:O	5:AE:141:GLN:N	2.54	0.40
5:AE:141:GLN:HA	5:AE:143:ARG:HH21	1.87	0.40
7:AG:15:ASP:OD2	7:AG:44:TYR:OH	2.39	0.40
8:AH:134:ILE:HD13	8:AH:134:ILE:HA	1.88	0.40
9:AI:83:ARG:HA	9:AI:86:VAL:CG1	2.51	0.40
11:AK:24:SER:OG	11:AK:25:TYR:N	2.54	0.40
11:AK:33:THR:OG1	11:AK:37:GLY:HA2	2.21	0.40
11:AK:81:ASP:O	11:AK:82:VAL:HG23	2.21	0.40
14:AN:37:PHE:N	14:AN:37:PHE:HD2	2.20	0.40
16:AP:64:ALA:C	16:AP:65:GLN:OE1	2.64	0.40
20:AT:70:SER:HA	20:AT:73:HIS:HD2	1.84	0.40
24:AY:45:ALA:O	24:AY:48:VAL:HG22	2.21	0.40
24:AY:49:SER:O	24:AY:52:ALA:HB3	2.21	0.40
25:B0:40:GLN:NE2	25:B0:59:LEU:HG	2.36	0.40
26:B1:3:LYS:HB2	35:BA:1364:G:P	2.62	0.40
27:B2:3:LEU:HD11	27:B2:7:ARG:NH2	2.35	0.40
35:BA:271(A):A:N1	35:BA:272(D):G:O2'	2.41	0.40
35:BA:666:G:H4'	48:BP:49:ARG:NH1	2.35	0.40
35:BA:919:G:H4'	36:BB:81:G:C4'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1099:G:O2'	35:BA:1100:C:H5'	2.22	0.40
35:BA:1462:C:H4'	35:BA:2703:C:O4'	2.20	0.40
35:BA:2147:G:O2'	35:BA:2148:G:H5'	2.22	0.40
35:BA:2425:A:H5"	35:BA:2427:C:O4'	2.21	0.40
35:BA:2769:C:H2'	35:BA:2770:G:C8	2.57	0.40
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.55	0.40
38:BD:143:HIS:O	38:BD:144:ALA:C	2.64	0.40
38:BD:221:VAL:O	38:BD:222:ARG:C	2.64	0.40
38:BD:223:GLY:O	38:BD:225:ALA:N	2.54	0.40
39:BE:110:GLY:O	50:BR:2:ARG:CZ	2.69	0.40
40:BF:161:GLU:O	40:BF:165:ARG:HB2	2.22	0.40
41:BG:6:ALA:HB3	41:BG:104:GLU:OE1	2.21	0.40
41:BG:67:LYS:HD3	41:BG:67:LYS:H	1.85	0.40
42:BH:26:VAL:O	42:BH:32:GLU:HA	2.20	0.40
42:BH:30:LYS:NZ	42:BH:81:GLU:HG2	2.36	0.40
42:BH:123:PHE:O	42:BH:124:GLU:HG2	2.21	0.40
43:BI:1:MET:CE	43:BI:23:PRO:HA	2.51	0.40
43:BI:72:LEU:HD22	43:BI:72:LEU:H	1.86	0.40
43:BI:130:TYR:CD2	43:BI:132:PRO:HG3	2.56	0.40
46:BN:18:ALA:HB3	46:BN:26:LEU:HD22	2.03	0.40
46:BN:119:ARG:NH1	46:BN:119:ARG:HG3	2.36	0.40
48:BP:60:MET:C	48:BP:61:ARG:O	2.61	0.40
49:BQ:134:ARG:CD	58:BZ:122:ARG:HH11	2.18	0.40
49:BQ:137:TYR:CD1	49:BQ:137:TYR:C	2.99	0.40
50:BR:77:ARG:C	50:BR:79:LEU:N	2.77	0.40
51:BS:89:ARG:O	51:BS:92:TYR:CG	2.74	0.40
52:BT:27:THR:HG23	52:BT:28:VAL:H	1.86	0.40
52:BT:87:ASP:OD1	52:BT:87:ASP:C	2.63	0.40
55:BW:5:ALA:O	55:BW:6:ILE:HB	2.21	0.40
57:BY:35:TYR:CD2	57:BY:35:TYR:O	2.74	0.40
57:BY:97:ARG:NH1	57:BY:98:VAL:HG23	2.36	0.40
1:CA:222:U:O2'	1:CA:223:U:H5'	2.20	0.40
1:CA:224:C:H2'	1:CA:225:C:H6	1.85	0.40
1:CA:301:G:O2'	1:CA:302:G:H5'	2.21	0.40
1:CA:423:G:O2'	1:CA:424:G:H5'	2.21	0.40
1:CA:647:C:O2'	1:CA:648:A:H5'	2.22	0.40
1:CA:865:A:H5'	1:CA:1078:U:C5	2.56	0.40
1:CA:890:G:N2	1:CA:906:G:H2'	2.35	0.40
2:CB:30:ARG:C	2:CB:32:ILE:N	2.77	0.40
2:CB:140:HIS:HA	2:CB:143:GLU:HG2	2.02	0.40
2:CB:220:ASP:CA	2:CB:223:ILE:HG12	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:113:ALA:C	3:CC:115:LEU:N	2.78	0.40
4:CD:159:ARG:O	4:CD:161:ASN:N	2.54	0.40
4:CD:199:ASN:O	4:CD:201:GLN:N	2.54	0.40
7:CG:107:ALA:O	7:CG:110:GLN:N	2.52	0.40
7:CG:143:ARG:O	7:CG:147:ALA:HB2	2.21	0.40
9:CI:27:THR:HG22	9:CI:28:VAL:N	2.36	0.40
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.21	0.40
12:CL:45:PRO:HB3	12:CL:53:ARG:NH1	2.36	0.40
13:CM:102:ARG:O	13:CM:102:ARG:HG3	2.21	0.40
14:CN:22:THR:HG22	14:CN:33:VAL:CG1	2.51	0.40
16:CP:5:ARG:HB3	16:CP:67:THR:OG1	2.21	0.40
16:CP:32:TYR:O	16:CP:32:TYR:HD2	2.03	0.40
17:CQ:60:ILE:HG21	17:CQ:74:LEU:HD23	2.03	0.40
22:CW:52:G:N2	22:CW:53:G:H1'	2.36	0.40
22:CW:71:G:O2'	35:DA:1851:U:O3'	2.39	0.40
24:CY:111:HIS:O	24:CY:177:TYR:HD2	2.04	0.40
24:CY:152:GLU:HB3	24:CY:170:LEU:HB3	2.02	0.40
24:CY:223:LYS:HB2	24:CY:226:GLU:HG3	2.02	0.40
25:D0:55:ARG:CZ	25:D0:55:ARG:HB3	2.51	0.40
28:D3:6:VAL:CG1	28:D3:28:LEU:HD11	2.50	0.40
30:D5:25:LEU:HD23	30:D5:26:THR:H	1.85	0.40
30:D5:46:CYS:HA	30:D5:47:PRO:HD2	1.77	0.40
35:DA:432:A:H2'	35:DA:433:C:C6	2.56	0.40
35:DA:654:A:C5	35:DA:654(V):A:H4'	2.57	0.40
35:DA:857:C:H42	35:DA:920:G:H1	1.69	0.40
35:DA:910:A:N1	35:DA:2277:G:H1'	2.36	0.40
35:DA:1291:C:H2'	35:DA:1292:U:C6	2.56	0.40
35:DA:1465:G:N3	35:DA:1545:A:H2	2.18	0.40
35:DA:1570:A:C6	35:DA:1571:A:C6	3.09	0.40
35:DA:1686:C:HO2'	35:DA:1687:G:H5'	1.86	0.40
35:DA:1817:G:C6	35:DA:1818:U:C4	3.09	0.40
35:DA:2563:U:O2	35:DA:2565:A:C8	2.75	0.40
35:DA:2729:G:H2'	35:DA:2730:C:H6	1.86	0.40
35:DA:2826:A:H3'	35:DA:2827:C:H6	1.86	0.40
39:DE:149:ARG:HG3	39:DE:149:ARG:HH11	1.86	0.40
40:DF:13:SER:HA	40:DF:14:PRO:HD3	1.95	0.40
41:DG:76:SER:C	41:DG:83:ARG:HB3	2.46	0.40
42:DH:88:LEU:N	42:DH:88:LEU:CD2	2.84	0.40
42:DH:115:VAL:CG1	42:DH:116:GLU:H	2.27	0.40
59:DI:144:VAL:HG12	59:DI:145:VAL:O	2.20	0.40
45:DK:16:LYS:O	45:DK:17:ALA:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:18:ALA:C	46:DN:20:GLY:N	2.79	0.40
46:DN:55:VAL:CG2	46:DN:127:ASP:H	2.32	0.40
46:DN:134:ARG:O	46:DN:135:PRO:C	2.65	0.40
49:DQ:21:THR:HG21	49:DQ:101:ARG:CD	2.50	0.40
52:DT:54:ARG:HA	52:DT:59:THR:HB	2.02	0.40
52:DT:128:GLU:HG3	52:DT:128:GLU:H	1.68	0.40
53:DU:62:ILE:CD1	53:DU:93:LYS:HG2	2.51	0.40
53:DU:92:ARG:HH11	54:DV:11:GLN:H	1.64	0.40
54:DV:38:LEU:C	54:DV:39:LEU:HD22	2.47	0.40
54:DV:39:LEU:HA	54:DV:47:VAL:CG2	2.51	0.40
1:AA:370:C:C5	1:AA:392:G:N1	2.89	0.40
1:AA:861:G:O2'	1:AA:862:C:H5'	2.21	0.40
1:AA:896:C:O2'	1:AA:897:C:H5'	2.22	0.40
1:AA:1019:C:H2'	1:AA:1020:U:C6	2.57	0.40
1:AA:1142:G:O2'	1:AA:1143:G:H5'	2.20	0.40
1:AA:1286:A:H2	21:AU:22:ARG:HH22	1.69	0.40
1:AA:1327:C:H5"	21:AU:20:LYS:HB3	2.04	0.40
1:AA:1353:G:O2'	1:AA:1354:C:H5'	2.21	0.40
3:AC:77:ILE:C	3:AC:83:ARG:HB3	2.47	0.40
4:AD:30:LYS:HA	4:AD:35:ARG:HG2	2.04	0.40
7:AG:111:ARG:HB3	7:AG:113:GLU:HG2	2.02	0.40
12:AL:119:LYS:HB2	12:AL:120:TYR:CD1	2.56	0.40
13:AM:28:ALA:C	13:AM:30:ALA:N	2.80	0.40
13:AM:39:ILE:HD12	13:AM:56:LEU:HD23	2.04	0.40
13:AM:67:GLU:OE2	13:AM:71:ARG:NH2	2.53	0.40
13:AM:84:ILE:HG13	19:AS:66:MET:HE1	2.02	0.40
17:AQ:92:ARG:C	17:AQ:94:ASN:N	2.80	0.40
20:AT:99:LEU:O	20:AT:100:ILE:C	2.64	0.40
24:AY:51:GLU:CA	24:AY:54:ARG:HH21	2.29	0.40
24:AY:205:PHE:CZ	24:AY:307:TRP:CE3	3.10	0.40
31:B6:11:LEU:HD23	31:B6:25:LYS:CA	2.52	0.40
31:B6:15:GLU:OE1	31:B6:43:CYS:SG	2.79	0.40
31:B6:25:LYS:O	35:BA:2286:A:C2	2.74	0.40
31:B6:30:THR:O	31:B6:32:ASN:N	2.55	0.40
35:BA:613:G:N2	35:BA:614(C):A:O2'	2.55	0.40
35:BA:626:U:O2	48:BP:105:LEU:HD23	2.22	0.40
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.22	0.40
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.54	0.40
35:BA:1188:U:H5'	54:BV:79:VAL:CG1	2.51	0.40
35:BA:1380:G:N2	35:BA:1570:A:C2	2.88	0.40
35:BA:1961:C:O2'	35:BA:1962:C:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.86	0.40
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.52	0.40
35:BA:2732:G:C2'	35:BA:2733:A:H5'	2.51	0.40
36:BB:13:A:O2'	36:BB:14:U:H3'	2.22	0.40
37:BC:18:LYS:O	37:BC:19:VAL:CB	2.69	0.40
40:BF:25:PRO:CG	40:BF:119:ARG:HG3	2.39	0.40
41:BG:59:GLU:O	41:BG:60:LEU:C	2.65	0.40
42:BH:43:VAL:HB	42:BH:46:GLU:OE2	2.21	0.40
42:BH:86:GLU:HA	42:BH:132:ARG:HB2	2.03	0.40
42:BH:139:GLN:CD	42:BH:139:GLN:C	2.89	0.40
46:BN:89:LYS:O	46:BN:93:THR:CG2	2.68	0.40
50:BR:37:THR:OG1	50:BR:40:LYS:HB2	2.21	0.40
52:BT:56:GLY:O	52:BT:59:THR:CG2	2.70	0.40
53:BU:70:ARG:NH1	53:BU:70:ARG:HG3	2.37	0.40
53:BU:111:GLU:HA	53:BU:114:LYS:HG2	2.04	0.40
54:BV:47:VAL:HG13	54:BV:51:VAL:C	2.47	0.40
56:BX:36:LYS:HA	56:BX:39:ILE:CG1	2.51	0.40
1:CA:155:C:O2'	1:CA:156:G:H5'	2.21	0.40
1:CA:277:C:H2'	1:CA:278:G:H8	1.86	0.40
1:CA:354:G:H2'	1:CA:354:G:N3	2.36	0.40
1:CA:421:U:O2'	1:CA:422:C:H5'	2.21	0.40
1:CA:552:U:C2'	1:CA:553:A:H5'	2.51	0.40
1:CA:725:G:H2'	1:CA:726:C:H6	1.86	0.40
1:CA:992:U:O2'	1:CA:993:G:P	2.79	0.40
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.51	0.40
1:CA:1263:C:H3'	1:CA:1264:C:C6	2.57	0.40
1:CA:1310:G:OP2	13:CM:88:ARG:NH2	2.48	0.40
1:CA:1476:G:H2'	1:CA:1477:C:H6	1.87	0.40
1:CA:1516:G:H2'	1:CA:1518:A:OP2	2.21	0.40
3:CC:73:PRO:HA	3:CC:76:VAL:HG22	2.03	0.40
3:CC:77:ILE:C	3:CC:83:ARG:HB3	2.46	0.40
3:CC:151:VAL:HA	3:CC:199:LYS:O	2.21	0.40
4:CD:14:ARG:C	4:CD:16:GLY:N	2.78	0.40
4:CD:49:ARG:O	4:CD:50:ARG:C	2.64	0.40
5:CE:56:GLN:C	5:CE:56:GLN:CD	2.90	0.40
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	2.03	0.40
7:CG:44:TYR:C	7:CG:46:ALA:N	2.78	0.40
8:CH:10:LEU:HB3	8:CH:83:ILE:HD11	2.03	0.40
9:CI:14:VAL:C	9:CI:65:VAL:HG23	2.45	0.40
12:CL:7:ILE:HD13	12:CL:7:ILE:HA	1.92	0.40
12:CL:105:TYR:C	12:CL:107:ALA:N	2.76	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:16:PHE:C	14:CN:18:VAL:H	2.29	0.40
14:CN:29:ARG:HG2	14:CN:30:ALA:N	2.36	0.40
15:CO:39:LEU:HD13	15:CO:39:LEU:C	2.45	0.40
15:CO:78:TYR:C	15:CO:80:ALA:N	2.76	0.40
19:CS:76:PRO:CB	19:CS:81:ARG:HG3	2.52	0.40
20:CT:84:LEU:C	20:CT:84:LEU:HD13	2.46	0.40
22:CV:53:G:H2'	22:CV:54:U:C6	2.57	0.40
22:CW:16:U:OP1	22:CW:16:U:H4'	2.21	0.40
24:CY:132:TRP:CE2	24:CY:189:LEU:HB2	2.56	0.40
24:CY:145:GLU:HG3	24:CY:151:VAL:HG23	2.04	0.40
26:D1:45:ASN:C	26:D1:45:ASN:HD22	2.30	0.40
31:D6:26:ASN:ND2	31:D6:32:ASN:ND2	2.69	0.40
35:DA:296:C:H2'	35:DA:297:C:H6	1.87	0.40
35:DA:335:C:H2'	35:DA:336:C:H6	1.86	0.40
35:DA:697:C:H2'	35:DA:698:C:C6	2.56	0.40
35:DA:833:U:OP1	48:DP:45:LEU:HD13	2.21	0.40
35:DA:924:C:H2'	35:DA:925:C:H6	1.87	0.40
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.56	0.40
35:DA:1058:G:H21	45:DK:126:MET:HE3	1.86	0.40
35:DA:1286:A:C6	35:DA:1289:C:C2	3.10	0.40
35:DA:1426:G:C6	35:DA:1427:A:C6	3.09	0.40
35:DA:1614:A:H2'	35:DA:1615:C:H5'	2.04	0.40
35:DA:2134:A:H61	35:DA:2157:G:H1'	1.83	0.40
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.70	0.40
35:DA:2668:G:H2'	35:DA:2669:G:H8	1.86	0.40
36:DB:111:G:C2'	36:DB:112:U:H5'	2.51	0.40
37:DC:67:GLY:O	37:DC:68:LEU:HB2	2.21	0.40
38:DD:209:ALA:O	38:DD:210:GLY:C	2.64	0.40
38:DD:234:GLY:O	38:DD:235:GLY:C	2.64	0.40
39:DE:16:ARG:O	39:DE:18:ASP:N	2.55	0.40
39:DE:45:THR:O	39:DE:46:ALA:HB2	2.22	0.40
39:DE:182:LEU:HD12	39:DE:183:LEU:N	2.36	0.40
42:DH:13:LYS:CD	42:DH:14:GLY:N	2.70	0.40
45:DK:5:VAL:O	45:DK:5:VAL:HG22	2.21	0.40
45:DK:54:PRO:HD3	45:DK:72:PRO:HA	2.02	0.40
46:DN:40:PRO:C	46:DN:42:TRP:N	2.80	0.40
48:DP:88:LEU:HD12	48:DP:95:VAL:HG11	2.03	0.40
49:DQ:137:TYR:CD1	49:DQ:137:TYR:C	3.00	0.40
51:DS:49:VAL:HG12	51:DS:50:SER:H	1.85	0.40
52:DT:13:ARG:HH12	52:DT:15:VAL:HG13	1.86	0.40
53:DU:98:LEU:HA	53:DU:101:ARG:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:25:LEU:C	54:DV:27:ALA:N	2.79	0.40
54:DV:39:LEU:O	54:DV:40:LEU:CG	2.69	0.40
58:DZ:41:LEU:O	58:DZ:44:PHE:N	2.54	0.40
1:AA:110:C:O2'	1:AA:111:G:C5'	2.70	0.40
1:AA:122:G:H8	1:AA:122:G:O5'	2.03	0.40
1:AA:357:G:C3'	1:AA:358:U:H5"	2.50	0.40
1:AA:403:C:H2'	1:AA:404:U:C6	2.57	0.40
1:AA:421:U:O2'	1:AA:422:C:H5'	2.21	0.40
1:AA:589:C:O2'	1:AA:590:C:H5'	2.21	0.40
1:AA:643:C:OP1	8:AH:30:ARG:NH2	2.55	0.40
1:AA:658:G:O2'	1:AA:659:U:H5'	2.21	0.40
1:AA:877:C:H2'	1:AA:878:G:C8	2.57	0.40
1:AA:1054:C:O2'	1:AA:1055:A:C5'	2.62	0.40
1:AA:1072:G:C5	1:AA:1073:U:C4	3.09	0.40
1:AA:1263:C:H3'	1:AA:1264:C:C6	2.56	0.40
1:AA:1284:C:H3'	1:AA:1285:A:H8	1.87	0.40
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.22	0.40
1:AA:1502:A:H2	1:AA:1505:G:N1	2.20	0.40
2:AB:29:ALA:O	2:AB:32:ILE:HG22	2.22	0.40
2:AB:92:TYR:HE2	2:AB:151:GLY:N	2.19	0.40
2:AB:97:TRP:O	2:AB:98:LEU:C	2.64	0.40
2:AB:109:SER:O	2:AB:111:ARG:N	2.55	0.40
3:AC:6:HIS:CB	14:AN:49:HIS:CD2	3.05	0.40
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.86	0.40
4:AD:23:GLY:HA3	4:AD:113:SER:OG	2.21	0.40
5:AE:6:PHE:HB2	5:AE:34:VAL:CG1	2.48	0.40
5:AE:6:PHE:N	5:AE:6:PHE:HD1	2.19	0.40
5:AE:13:ILE:HG23	5:AE:30:ALA:HB2	2.03	0.40
6:AF:52:ILE:HG22	6:AF:86:ARG:HD3	2.03	0.40
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.30	0.40
7:AG:15:ASP:H	7:AG:20:ASP:N	2.19	0.40
7:AG:122:HIS:CD2	7:AG:122:HIS:H	2.38	0.40
8:AH:104:ARG:O	8:AH:105:ARG:CB	2.70	0.40
12:AL:70:ILE:HD13	12:AL:77:LEU:HD12	2.02	0.40
16:AP:6:LEU:HG	16:AP:19:ILE:HD13	2.03	0.40
16:AP:9:PHE:HB3	16:AP:10:GLY:H	1.71	0.40
16:AP:71:ARG:NH1	16:AP:71:ARG:CB	2.84	0.40
18:AR:36:ASN:O	18:AR:37:VAL:C	2.63	0.40
19:AS:16:LEU:O	19:AS:17:GLU:C	2.65	0.40
24:AY:245:THR:HA	35:BA:2493:U:OP1	2.21	0.40
25:B0:40:GLN:OE1	25:B0:44:ARG:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:48:GLU:O	28:B3:50:VAL:N	2.54	0.40
30:B5:41:PRO:O	30:B5:44:THR:OG1	2.38	0.40
33:B8:32:LEU:HD13	33:B8:32:LEU:N	2.18	0.40
35:BA:117:G:C6	35:BA:119:A:C6	3.10	0.40
35:BA:306:U:C2'	35:BA:307:G:H5'	2.52	0.40
35:BA:480:A:H1'	57:BY:44:ILE:HG21	2.03	0.40
35:BA:654(U):A:H2'	35:BA:654(V):A:H8	1.86	0.40
35:BA:825:C:C2'	35:BA:826:U:O5'	2.70	0.40
35:BA:868:U:C4	35:BA:869:G:N7	2.89	0.40
35:BA:1211:U:H4'	35:BA:1212:G:OP2	2.22	0.40
35:BA:1528(A):A:H3'	35:BA:1529:G:H5"	2.02	0.40
35:BA:1786:A:C2	35:BA:2606:C:H1'	2.57	0.40
35:BA:1889:A:N1	35:BA:2234:G:H1'	2.36	0.40
35:BA:2114:A:N1	35:BA:2170:A:N6	2.69	0.40
35:BA:2338:G:N1	35:BA:2339:G:C5	2.90	0.40
35:BA:2584:U:H5'	35:BA:2585:U:OP2	2.20	0.40
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.69	0.40
35:BA:2752:C:H2'	35:BA:2753:A:H8	1.87	0.40
36:BB:16:G:H2'	36:BB:17:C:C6	2.57	0.40
38:BD:205:VAL:O	38:BD:206:LEU:C	2.64	0.40
39:BE:119:ARG:HD3	39:BE:120:TRP:CE2	2.55	0.40
39:BE:126:PRO:C	39:BE:128:SER:N	2.79	0.40
39:BE:182:LEU:HD12	39:BE:183:LEU:N	2.36	0.40
40:BF:28:ILE:HD11	40:BF:115:ALA:CB	2.51	0.40
41:BG:180:PHE:C	41:BG:182:LYS:N	2.79	0.40
45:BK:100:THR:C	45:BK:102:GLU:N	2.80	0.40
48:BP:88:LEU:HD11	48:BP:95:VAL:HG11	2.03	0.40
51:BS:14:VAL:CG1	51:BS:15:ARG:N	2.62	0.40
51:BS:29:PHE:CD2	51:BS:30:ARG:N	2.90	0.40
51:BS:77:ALA:C	51:BS:79:ALA:N	2.79	0.40
51:BS:106:ARG:C	51:BS:106:ARG:CD	2.90	0.40
53:BU:25:TRP:CD1	53:BU:26:GLY:H	2.40	0.40
53:BU:111:GLU:C	53:BU:113:ALA:N	2.79	0.40
54:BV:34:GLU:CG	54:BV:56:SER:HB2	2.52	0.40
55:BW:47:VAL:O	55:BW:50:VAL:HG13	2.22	0.40
58:BZ:30:ASN:O	58:BZ:31:ARG:C	2.65	0.40
1:CA:384:G:O2'	1:CA:385:C:H5'	2.21	0.40
1:CA:473:G:OP2	16:CP:75:ARG:HD3	2.21	0.40
1:CA:647:C:H2'	1:CA:648:A:C8	2.57	0.40
1:CA:932:C:O2	1:CA:932:C:H2'	2.21	0.40
1:CA:1058:G:H2'	1:CA:1059:C:O4'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1164:G:C6	1:CA:1173:G:C6	3.09	0.40
1:CA:1255:G:H5"	3:CC:26:LYS:HE3	2.03	0.40
1:CA:1286:A:H2	21:CU:22:ARG:HH22	1.70	0.40
1:CA:1291:G:H2'	1:CA:1292:U:C6	2.57	0.40
1:CA:1473:A:H2'	1:CA:1474:G:H8	1.83	0.40
2:CB:51:LEU:O	2:CB:55:PHE:CD2	2.74	0.40
3:CC:88:ARG:HH11	3:CC:88:ARG:HG2	1.87	0.40
3:CC:92:ALA:N	3:CC:99:VAL:HG11	2.37	0.40
4:CD:6:GLY:O	4:CD:7:PRO:C	2.65	0.40
5:CE:80:ILE:HA	8:CH:104:ARG:NH2	2.37	0.40
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.21	0.40
13:CM:67:GLU:OE2	13:CM:71:ARG:NH2	2.53	0.40
14:CN:7:ILE:HA	14:CN:10:ALA:CB	2.51	0.40
17:CQ:68:ARG:H	17:CQ:70:ARG:HH12	1.66	0.40
19:CS:76:PRO:HB2	19:CS:81:ARG:HD3	2.04	0.40
24:CY:41:ASP:OD1	24:CY:41:ASP:C	2.65	0.40
24:CY:99:ASP:OD2	24:CY:99:ASP:C	2.65	0.40
24:CY:297:ALA:C	24:CY:299:ARG:N	2.77	0.40
24:CY:307:TRP:C	24:CY:309:SER:N	2.79	0.40
24:CY:337:LEU:O	24:CY:338:ASP:OD1	2.39	0.40
27:D2:69:ARG:CZ	35:DA:111:A:H5"	2.51	0.40
33:D8:36:LYS:O	33:D8:37:SER:C	2.64	0.40
33:D8:62:LEU:O	33:D8:63:PRO:C	2.64	0.40
35:DA:191:A:H2'	35:DA:192:C:C6	2.57	0.40
35:DA:197:A:C8	35:DA:197:A:C5'	2.99	0.40
35:DA:271(B):C:O2'	35:DA:271(C):C:H5'	2.21	0.40
35:DA:1708:C:H6	35:DA:1708:C:O5'	2.05	0.40
35:DA:2289:G:C1'	35:DA:2346:A:H2	2.32	0.40
35:DA:2534:A:C2'	35:DA:2535:G:O5'	2.69	0.40
35:DA:2599:G:N7	38:DD:237:GLU:HG3	2.35	0.40
35:DA:2759:G:C2'	35:DA:2760:C:H5'	2.51	0.40
35:DA:2870:C:C2'	35:DA:2871:C:H5'	2.51	0.40
36:DB:111:G:O2'	36:DB:112:U:H5'	2.21	0.40
37:DC:58:VAL:HB	37:DC:59:ARG:H	1.71	0.40
39:DE:117:MET:HE3	39:DE:123:ALA:C	2.46	0.40
40:DF:10:PRO:O	40:DF:11:VAL:O	2.39	0.40
40:DF:11:VAL:CG1	40:DF:12:LEU:H	2.33	0.40
40:DF:160:ASN:HD22	40:DF:161:GLU:N	2.19	0.40
40:DF:171:PRO:C	40:DF:173:VAL:H	2.29	0.40
42:DH:146:ALA:CA	42:DH:149:ARG:HB3	2.50	0.40
59:DI:96:ASP:O	59:DI:100:ALA:N	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:58:THR:O	45:DK:65:PHE:HA	2.22	0.40
46:DN:18:ALA:HB1	46:DN:21:LYS:HB2	2.02	0.40
47:DO:107:ARG:NH1	52:DT:35:LYS:CD	2.82	0.40
48:DP:39:LYS:O	48:DP:40:SER:HB2	2.21	0.40
49:DQ:112:GLU:HG3	49:DQ:113:GLN:N	2.37	0.40
50:DR:44:LEU:HD12	50:DR:48:VAL:HG23	2.04	0.40
50:DR:48:VAL:HG12	50:DR:49:ASP:N	2.37	0.40
51:DS:28:VAL:HB	51:DS:89:ARG:CG	2.52	0.40
51:DS:90:GLY:O	51:DS:92:TYR:N	2.54	0.40
57:DY:76:CYS:O	57:DY:77:PRO:C	2.64	0.40
58:DZ:30:ASN:HB3	58:DZ:90:VAL:O	2.21	0.40
1:AA:96:U:H2'	1:AA:97:G:C8	2.56	0.40
1:AA:450:G:C8	1:AA:481:G:O6	2.74	0.40
1:AA:493:G:P	59:DI:8:PRO:HB3	2.62	0.40
1:AA:1054:C:O2	1:AA:1054:C:C3'	2.70	0.40
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.86	0.40
1:AA:1374:A:O2'	7:AG:28:ASN:HB3	2.21	0.40
1:AA:1401:G:C2	1:AA:1402:C:H1'	2.57	0.40
2:AB:91:PRO:CG	2:AB:155:LEU:HD23	2.51	0.40
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.54	0.40
2:AB:131:PRO:C	2:AB:133:LYS:N	2.77	0.40
3:AC:64:VAL:HG12	3:AC:66:VAL:HG22	2.03	0.40
7:AG:76:ARG:O	7:AG:77:SER:O	2.39	0.40
8:AH:41:ARG:O	8:AH:41:ARG:HG2	2.21	0.40
8:AH:100:ILE:HA	8:AH:101:PRO:HD3	1.77	0.40
9:AI:71:SER:HA	9:AI:74:ILE:HD12	2.04	0.40
9:AI:90:PRO:O	9:AI:92:TYR:N	2.48	0.40
9:AI:92:TYR:CD1	9:AI:92:TYR:N	2.90	0.40
12:AL:5:PRO:HA	12:AL:9:GLN:OE1	2.22	0.40
12:AL:27:LEU:O	12:AL:29:GLY:N	2.54	0.40
12:AL:90:VAL:HG11	12:AL:93:LEU:HD12	2.03	0.40
15:AO:78:TYR:C	15:AO:80:ALA:N	2.77	0.40
18:AR:76:LEU:N	18:AR:76:LEU:HD22	2.36	0.40
19:AS:9:VAL:C	19:AS:11:VAL:N	2.79	0.40
19:AS:11:VAL:CG1	19:AS:16:LEU:HD11	2.51	0.40
20:AT:44:ALA:HB2	20:AT:88:VAL:HG22	2.02	0.40
20:AT:47:GLY:O	20:AT:48:LYS:HD3	2.21	0.40
22:AV:56:C:O2	41:BG:78:SER:HB2	2.21	0.40
22:AV:65:G:C4	22:AV:66:U:C5	3.10	0.40
22:AW:41:C:C2	22:AW:42:C:C5	3.10	0.40
24:AY:20:PRO:C	24:AY:23:GLU:HG2	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:32:ARG:HG3	24:AY:32:ARG:HH11	1.85	0.40
24:AY:90:GLU:HA	24:AY:93:GLU:CD	2.47	0.40
24:AY:249:VAL:HG11	24:AY:271:ASN:O	2.22	0.40
24:AY:251:VAL:HG23	24:AY:275:ALA:HB1	2.02	0.40
35:BA:460:A:C2	35:BA:470:A:C4	3.09	0.40
35:BA:494:G:C8	35:BA:494:G:C5'	3.03	0.40
35:BA:1062:G:O2'	45:BK:133:SER:HB3	2.22	0.40
35:BA:1067:A:H5'	35:BA:1067:A:C8	2.47	0.40
35:BA:1292:U:H2'	35:BA:1293:C:H6	1.81	0.40
35:BA:2290:G:H2'	35:BA:2291:U:O4'	2.21	0.40
35:BA:2522:U:H2'	35:BA:2523:G:C5'	2.51	0.40
35:BA:2522:U:H2'	35:BA:2523:G:H5'	2.03	0.40
35:BA:2789:C:H1'	35:BA:2892:A:C2	2.57	0.40
37:BC:47:LEU:HG	37:BC:48:GLY:H	1.86	0.40
37:BC:48:GLY:H	37:BC:207:THR:CB	2.34	0.40
41:BG:60:LEU:O	41:BG:60:LEU:HD13	2.22	0.40
43:BI:1:MET:HE3	43:BI:23:PRO:HA	2.03	0.40
43:BI:5:LEU:HA	43:BI:36:ALA:HB2	2.03	0.40
43:BI:119:PRO:O	43:BI:120:ILE:C	2.64	0.40
44:BJ:108:UNK:C	44:BJ:110:UNK:N	2.84	0.40
45:BK:10:LEU:HD22	45:BK:26:ALA:HB1	2.04	0.40
45:BK:101:TRP:CD1	45:BK:140:GLY:HA3	2.57	0.40
46:BN:99:LEU:O	46:BN:100:GLU:C	2.65	0.40
47:BO:79:PHE:HD2	52:BT:72:VAL:HG22	1.86	0.40
49:BQ:2:LEU:HG	49:BQ:69:PHE:CE1	2.55	0.40
49:BQ:42:ILE:HG22	49:BQ:47:ILE:HG13	2.03	0.40
50:BR:82:GLU:C	50:BR:85:PRO:HD2	2.47	0.40
51:BS:91:PRO:O	51:BS:92:TYR:C	2.64	0.40
52:BT:125:ARG:O	52:BT:128:GLU:HG3	2.21	0.40
57:BY:16:ALA:HB1	57:BY:21:LYS:HZ3	1.85	0.40
58:BZ:52:SER:C	58:BZ:54:HIS:H	2.29	0.40
58:BZ:133:ILE:O	58:BZ:135:GLU:N	2.53	0.40
1:CA:369:C:N3	1:CA:393:A:C2	2.89	0.40
1:CA:373:A:C2	1:CA:482:A:N6	2.90	0.40
1:CA:390:C:H6	1:CA:390:C:O5'	2.03	0.40
1:CA:515:G:C2'	1:CA:516:U:H5'	2.51	0.40
1:CA:604:G:C5	1:CA:605:U:C4	3.09	0.40
1:CA:938:A:C6	1:CA:939:G:C5	3.10	0.40
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.21	0.40
1:CA:1071:C:O2'	1:CA:1072:G:H5'	2.21	0.40
1:CA:1350:A:OP2	9:CI:118:LYS:HD3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:118:LEU:O	2:CB:122:PHE:HB2	2.21	0.40
2:CB:185:ILE:HD11	2:CB:199:TYR:CD1	2.52	0.40
2:CB:187:LEU:C	2:CB:187:LEU:HD13	2.47	0.40
3:CC:6:HIS:CB	14:CN:49:HIS:HB3	2.52	0.40
5:CE:145:LYS:O	5:CE:145:LYS:HD3	2.22	0.40
6:CF:22:GLU:C	6:CF:24:GLU:N	2.76	0.40
7:CG:103:TRP:HD1	7:CG:106:GLN:HE21	1.70	0.40
8:CH:6:ILE:O	8:CH:7:ALA:C	2.64	0.40
8:CH:35:ILE:O	8:CH:39:LEU:HD23	2.21	0.40
9:CI:43:ALA:CA	9:CI:74:ILE:HD13	2.50	0.40
10:CJ:99:LYS:HD3	10:CJ:99:LYS:HA	1.87	0.40
11:CK:29:ILE:HG22	11:CK:44:SER:HB3	2.02	0.40
11:CK:31:THR:HA	11:CK:42:TRP:HA	2.03	0.40
11:CK:61:ALA:CB	11:CK:90:GLY:HA3	2.52	0.40
12:CL:7:ILE:O	12:CL:11:VAL:HG23	2.22	0.40
12:CL:126:LYS:C	12:CL:128:ALA:N	2.77	0.40
13:CM:14:ARG:HD2	13:CM:42:ALA:HA	2.03	0.40
18:CR:40:LEU:O	18:CR:41:LYS:C	2.65	0.40
21:CU:2:GLY:O	21:CU:4:GLY:N	2.55	0.40
24:CY:10:LEU:O	24:CY:14:ARG:HD3	2.21	0.40
31:D6:18:ARG:H	31:D6:18:ARG:HG2	1.50	0.40
32:D7:3:ARG:HA	32:D7:3:ARG:HD3	1.78	0.40
33:D8:19:SER:CB	35:DA:651:G:OP1	2.70	0.40
33:D8:37:SER:O	33:D8:40:GLU:HB2	2.21	0.40
35:DA:320:A:H4'	35:DA:322:A:N7	2.36	0.40
35:DA:432:A:H2'	35:DA:433:C:H6	1.87	0.40
35:DA:473:G:P	35:DA:508:G:N2	2.93	0.40
35:DA:570:G:H2'	35:DA:2030:A:C5	2.57	0.40
35:DA:1067:A:H5'	35:DA:1067:A:C8	2.47	0.40
35:DA:1754:C:H2'	35:DA:1755:A:O4'	2.22	0.40
35:DA:1888:G:N3	35:DA:1888:G:H5'	2.36	0.40
35:DA:1926:U:H2'	35:DA:1928:A:OP2	2.22	0.40
35:DA:1991:U:H2'	35:DA:1992:G:C5'	2.50	0.40
35:DA:2121:G:C2'	35:DA:2122:U:C5'	2.99	0.40
35:DA:2201:C:H2'	35:DA:2202:C:H6	1.83	0.40
35:DA:2345:G:N3	35:DA:2381:C:H2'	2.36	0.40
35:DA:2621:A:C2'	35:DA:2622:C:H5'	2.52	0.40
37:DC:56:GLN:CD	37:DC:168:THR:CB	2.95	0.40
41:DG:17:PRO:O	41:DG:18:GLU:C	2.64	0.40
41:DG:62:LEU:C	41:DG:64:THR:N	2.78	0.40
41:DG:85:GLY:O	41:DG:86:MET:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:94:TYR:N	42:DH:94:TYR:HD1	2.20	0.40
42:DH:138:LYS:C	42:DH:140:LYS:H	2.29	0.40
59:DI:66:GLU:O	59:DI:66:GLU:HG2	2.21	0.40
59:DI:109:ILE:HB	59:DI:130:TYR:HH	1.83	0.40
59:DI:123:LEU:HD21	59:DI:145:VAL:HA	2.03	0.40
45:DK:38:VAL:O	45:DK:42:ASN:ND2	2.54	0.40
45:DK:94:GLU:HB2	58:DZ:112:ARG:HH12	1.86	0.40
45:DK:97:GLY:O	45:DK:136:VAL:HG23	2.22	0.40
46:DN:62:VAL:O	46:DN:62:VAL:HG13	2.22	0.40
47:DO:11:ALA:O	47:DO:98:VAL:HA	2.22	0.40
47:DO:102:VAL:HG23	47:DO:121:VAL:HG22	2.04	0.40
48:DP:52:GLU:HG3	48:DP:53:GLY:H	1.86	0.40
51:DS:28:VAL:HG12	51:DS:89:ARG:HG2	2.04	0.40
54:DV:18:LEU:CD1	54:DV:96:ILE:CG1	2.99	0.40
54:DV:21:ARG:HB3	54:DV:91:TYR:CD2	2.56	0.40
57:DY:68:HIS:O	57:DY:70:SER:N	2.54	0.40

All (9) 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)
28:B3:48:GLU:O	35:DA:654(L):G:OP2[3_455]	1.99	0.21
36:BB:97:G:N7	35:DA:654(J):A:OP1[3_455]	2.05	0.15
36:BB:97:G:OP2	35:DA:654(I):C:O2'[3_455]	2.06	0.14
36:BB:96:U:C3'	35:DA:654(I):C:O2'[3_455]	2.09	0.11
36:BB:96:U:O2	35:DA:654(K):C:OP1[3_455]	2.10	0.10
28:B3:51:ALA:N	35:DA:654(L):G:OP2[3_455]	2.15	0.05
36:BB:96:U:O2	35:DA:654(J):A:C4'[3_455]	2.16	0.04
36:BB:82:G:N2	35:DA:654(K):C:OP2[3_455]	2.17	0.03
28:B3:2:PRO:CD	35:DA:654(B):C:OP1[3_455]	2.19	0.01

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

The Analysed column shows the number of residues for which the backbone conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	AB	233/256 (91%)	155 (66%)	58 (25%)	20 (9%)	0 7
2	CB	233/256 (91%)	156 (67%)	56 (24%)	21 (9%)	0 7
3	AC	205/239 (86%)	125 (61%)	57 (28%)	23 (11%)	0 5
3	CC	205/239 (86%)	128 (62%)	55 (27%)	22 (11%)	0 5
4	AD	206/209 (99%)	134 (65%)	49 (24%)	23 (11%)	0 5
4	CD	206/209 (99%)	135 (66%)	49 (24%)	22 (11%)	0 5
5	AE	149/162 (92%)	98 (66%)	36 (24%)	15 (10%)	0 6
5	CE	149/162 (92%)	100 (67%)	34 (23%)	15 (10%)	0 6
6	AF	99/101 (98%)	75 (76%)	17 (17%)	7 (7%)	1 10
6	CF	99/101 (98%)	75 (76%)	17 (17%)	7 (7%)	1 10
7	AG	153/156 (98%)	108 (71%)	34 (22%)	11 (7%)	1 9
7	CG	153/156 (98%)	108 (71%)	34 (22%)	11 (7%)	1 9
8	AH	136/138 (99%)	92 (68%)	32 (24%)	12 (9%)	0 7
8	CH	136/138 (99%)	92 (68%)	32 (24%)	12 (9%)	0 7
9	AI	125/128 (98%)	83 (66%)	30 (24%)	12 (10%)	0 6
9	CI	125/128 (98%)	82 (66%)	31 (25%)	12 (10%)	0 6
10	AJ	97/105 (92%)	64 (66%)	21 (22%)	12 (12%)	0 4
10	CJ	97/105 (92%)	64 (66%)	21 (22%)	12 (12%)	0 4
11	AK	117/129 (91%)	89 (76%)	24 (20%)	4 (3%)	3 23
11	CK	117/129 (91%)	89 (76%)	24 (20%)	4 (3%)	3 23
12	AL	124/132 (94%)	89 (72%)	26 (21%)	9 (7%)	1 9
12	CL	124/132 (94%)	90 (73%)	25 (20%)	9 (7%)	1 9
13	AM	119/126 (94%)	82 (69%)	23 (19%)	14 (12%)	0 5
13	CM	119/126 (94%)	84 (71%)	21 (18%)	14 (12%)	0 5
14	AN	58/61 (95%)	39 (67%)	12 (21%)	7 (12%)	0 4
14	CN	58/61 (95%)	38 (66%)	12 (21%)	8 (14%)	0 3
15	AO	86/89 (97%)	59 (69%)	23 (27%)	4 (5%)	2 17
15	CO	86/89 (97%)	57 (66%)	25 (29%)	4 (5%)	2 17
16	AP	82/88 (93%)	51 (62%)	22 (27%)	9 (11%)	0 5
16	CP	82/88 (93%)	53 (65%)	20 (24%)	9 (11%)	0 5
17	AQ	98/105 (93%)	68 (69%)	17 (17%)	13 (13%)	0 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
17	CQ	98/105 (93%)	69 (70%)	17 (17%)	12 (12%)	0 4
18	AR	68/88 (77%)	45 (66%)	16 (24%)	7 (10%)	0 6
18	CR	68/88 (77%)	45 (66%)	16 (24%)	7 (10%)	0 6
19	AS	77/93 (83%)	36 (47%)	30 (39%)	11 (14%)	0 3
19	CS	77/93 (83%)	36 (47%)	30 (39%)	11 (14%)	0 3
20	AT	97/106 (92%)	68 (70%)	18 (19%)	11 (11%)	0 5
20	CT	97/106 (92%)	68 (70%)	18 (19%)	11 (11%)	0 5
21	AU	23/27 (85%)	18 (78%)	3 (13%)	2 (9%)	0 7
21	CU	23/27 (85%)	18 (78%)	3 (13%)	2 (9%)	0 7
24	AY	349/351 (99%)	246 (70%)	70 (20%)	33 (10%)	0 6
24	CY	349/351 (99%)	256 (73%)	61 (18%)	32 (9%)	0 7
25	B0	74/85 (87%)	58 (78%)	10 (14%)	6 (8%)	1 8
25	D0	74/85 (87%)	58 (78%)	10 (14%)	6 (8%)	1 8
26	B1	92/98 (94%)	65 (71%)	15 (16%)	12 (13%)	0 4
26	D1	92/98 (94%)	72 (78%)	12 (13%)	8 (9%)	0 7
27	B2	69/72 (96%)	40 (58%)	17 (25%)	12 (17%)	0 2
27	D2	69/72 (96%)	39 (56%)	20 (29%)	10 (14%)	0 3
28	B3	58/60 (97%)	43 (74%)	9 (16%)	6 (10%)	0 6
28	D3	58/60 (97%)	43 (74%)	9 (16%)	6 (10%)	0 6
29	B4	29/71 (41%)	14 (48%)	11 (38%)	4 (14%)	0 3
29	D4	29/71 (41%)	14 (48%)	11 (38%)	4 (14%)	0 3
30	B5	57/60 (95%)	40 (70%)	7 (12%)	10 (18%)	0 2
30	D5	57/60 (95%)	40 (70%)	7 (12%)	10 (18%)	0 2
31	B6	43/54 (80%)	17 (40%)	12 (28%)	14 (33%)	0 0
31	D6	43/54 (80%)	17 (40%)	13 (30%)	13 (30%)	0 0
32	B7	47/49 (96%)	44 (94%)	3 (6%)	0	100 100
32	D7	47/49 (96%)	44 (94%)	3 (6%)	0	100 100
33	B8	62/65 (95%)	38 (61%)	15 (24%)	9 (14%)	0 3
33	D8	62/65 (95%)	38 (61%)	15 (24%)	9 (14%)	0 3
34	B9	34/37 (92%)	23 (68%)	11 (32%)	0	100 100
34	D9	34/37 (92%)	24 (71%)	10 (29%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
37	BC	183/229 (80%)	64 (35%)	71 (39%)	48 (26%)	0 0
37	DC	183/229 (80%)	65 (36%)	72 (39%)	46 (25%)	0 0
38	BD	270/276 (98%)	199 (74%)	39 (14%)	32 (12%)	0 4
38	DD	270/276 (98%)	198 (73%)	40 (15%)	32 (12%)	0 4
39	BE	203/206 (98%)	124 (61%)	45 (22%)	34 (17%)	0 2
39	DE	203/206 (98%)	123 (61%)	44 (22%)	36 (18%)	0 2
40	BF	206/210 (98%)	149 (72%)	33 (16%)	24 (12%)	0 5
40	DF	206/210 (98%)	149 (72%)	33 (16%)	24 (12%)	0 5
41	BG	179/182 (98%)	92 (51%)	54 (30%)	33 (18%)	0 1
41	DG	179/182 (98%)	107 (60%)	46 (26%)	26 (14%)	0 3
42	BH	158/180 (88%)	90 (57%)	38 (24%)	30 (19%)	0 1
42	DH	158/180 (88%)	91 (58%)	36 (23%)	31 (20%)	0 1
43	BI	144/148 (97%)	100 (69%)	28 (19%)	16 (11%)	0 5
45	BK	139/147 (95%)	88 (63%)	33 (24%)	18 (13%)	0 4
45	DK	139/147 (95%)	87 (63%)	34 (24%)	18 (13%)	0 4
46	BN	137/140 (98%)	97 (71%)	20 (15%)	20 (15%)	0 3
46	DN	137/140 (98%)	99 (72%)	18 (13%)	20 (15%)	0 3
47	BO	120/122 (98%)	97 (81%)	17 (14%)	6 (5%)	1 15
47	DO	120/122 (98%)	98 (82%)	14 (12%)	8 (7%)	1 11
48	BP	144/150 (96%)	68 (47%)	36 (25%)	40 (28%)	0 0
48	DP	144/150 (96%)	68 (47%)	36 (25%)	40 (28%)	0 0
49	BQ	139/141 (99%)	111 (80%)	19 (14%)	9 (6%)	1 11
49	DQ	139/141 (99%)	114 (82%)	16 (12%)	9 (6%)	1 11
50	BR	115/118 (98%)	72 (63%)	29 (25%)	14 (12%)	0 4
50	DR	115/118 (98%)	70 (61%)	31 (27%)	14 (12%)	0 4
51	BS	97/112 (87%)	55 (57%)	22 (23%)	20 (21%)	0 1
51	DS	97/112 (87%)	54 (56%)	22 (23%)	21 (22%)	0 1
52	BT	136/146 (93%)	84 (62%)	23 (17%)	29 (21%)	0 1
52	DT	136/146 (93%)	85 (62%)	22 (16%)	29 (21%)	0 1
53	BU	115/118 (98%)	78 (68%)	27 (24%)	10 (9%)	0 7
53	DU	115/118 (98%)	77 (67%)	28 (24%)	10 (9%)	0 7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
54	BV	99/101 (98%)	72 (73%)	13 (13%)	14 (14%)	0 3
54	DV	99/101 (98%)	72 (73%)	14 (14%)	13 (13%)	0 3
55	BW	111/113 (98%)	83 (75%)	22 (20%)	6 (5%)	1 14
55	DW	111/113 (98%)	83 (75%)	22 (20%)	6 (5%)	1 14
56	BX	91/96 (95%)	75 (82%)	14 (15%)	2 (2%)	5 30
56	DX	91/96 (95%)	74 (81%)	16 (18%)	1 (1%)	11 42
57	BY	99/110 (90%)	46 (46%)	20 (20%)	33 (33%)	0 0
57	DY	99/110 (90%)	47 (48%)	20 (20%)	32 (32%)	0 0
58	BZ	175/206 (85%)	102 (58%)	41 (23%)	32 (18%)	0 1
58	DZ	175/206 (85%)	110 (63%)	36 (21%)	29 (17%)	0 2
59	DI	144/148 (97%)	81 (56%)	42 (29%)	21 (15%)	0 3
All	All	12652/13582 (93%)	8336 (66%)	2725 (22%)	1591 (13%)	0 4

All (1591) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	20	GLU
2	AB	88	ALA
2	AB	95	GLN
2	AB	195	ASP
2	AB	238	LEU
3	AC	157	ILE
3	AC	168	ALA
3	AC	179	ARG
3	AC	207	VAL
4	AD	3	ARG
4	AD	14	ARG
4	AD	29	PRO
4	AD	30	LYS
4	AD	109	GLY
5	AE	73	ASN
5	AE	153	LYS
6	AF	39	LYS
6	AF	62	TRP
7	AG	77	SER
7	AG	155	ARG
8	AH	70	GLN

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Mol	Chain	Res	Type
8	AH	71	GLY
9	AI	105	ASP
10	AJ	56	HIS
10	AJ	57	LYS
10	AJ	75	ILE
11	AK	89	ALA
12	AL	47	LYS
12	AL	106	ASP
13	AM	83	ASP
13	AM	113	PRO
13	AM	117	VAL
14	AN	22	THR
14	AN	23	ARG
16	AP	24	ALA
16	AP	78	GLY
17	AQ	69	LYS
17	AQ	74	LEU
18	AR	45	SER
18	AR	87	ARG
19	AS	5	LEU
19	AS	10	PHE
19	AS	28	LYS
19	AS	80	TYR
20	AT	49	ALA
20	AT	99	LEU
24	AY	33	LEU
24	AY	52	ALA
24	AY	110	PRO
24	AY	160	PRO
24	AY	312	ARG
24	AY	338	ASP
25	B0	55	ARG
26	B1	45	ASN
26	B1	52	ARG
26	B1	83	GLU
26	B1	95	LEU
27	B2	43	GLN
27	B2	44	LEU
27	B2	47	ASN
27	B2	58	ALA
27	B2	68	ARG
28	B3	38	GLU

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Mol	Chain	Res	Type
28	B3	49	LYS
29	B4	61	VAL
30	B5	4	HIS
30	B5	47	PRO
30	B5	49	CYS
30	B5	50	GLY
31	B6	17	LYS
31	B6	20	ASN
31	B6	28	ARG
31	B6	31	PRO
31	B6	33	LYS
31	B6	52	VAL
33	B8	61	LEU
37	BC	38	ASP
37	BC	48	GLY
37	BC	123	VAL
37	BC	133	PRO
37	BC	140	PRO
37	BC	145	VAL
37	BC	151	GLU
37	BC	161	ILE
37	BC	172	HIS
37	BC	173	ALA
37	BC	174	PRO
37	BC	182	PRO
37	BC	195	ALA
37	BC	200	LYS
37	BC	214	VAL
37	BC	220	PRO
38	BD	26	LYS
38	BD	34	VAL
38	BD	35	LYS
38	BD	44	ASN
38	BD	236	GLY
38	BD	239	ARG
38	BD	244	ARG
38	BD	272	ALA
39	BE	4	ILE
39	BE	35	GLN
39	BE	54	GLN
39	BE	66	HIS
39	BE	68	ALA

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Mol	Chain	Res	Type
39	BE	69	LYS
39	BE	83	ASP
39	BE	90	THR
39	BE	131	ALA
39	BE	132	HIS
39	BE	189	PRO
40	BF	2	LYS
40	BF	10	PRO
40	BF	11	VAL
40	BF	132	VAL
40	BF	133	ASN
41	BG	6	ALA
41	BG	12	TYR
41	BG	75	LYS
41	BG	87	PRO
41	BG	109	VAL
41	BG	110	ALA
41	BG	117	PHE
41	BG	142	PRO
41	BG	145	THR
42	BH	20	ALA
42	BH	42	ARG
42	BH	83	TYR
42	BH	89	ILE
42	BH	90	LYS
42	BH	92	ILE
42	BH	127	GLU
42	BH	138	LYS
42	BH	155	SER
42	BH	156	ALA
42	BH	159	GLU
43	BI	14	ASP
43	BI	30	LEU
43	BI	33	ARG
43	BI	35	LEU
43	BI	86	THR
43	BI	89	TYR
43	BI	120	ILE
45	BK	5	VAL
45	BK	14	ALA
45	BK	18	THR
45	BK	88	ALA

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Mol	Chain	Res	Type
45	BK	115	LEU
45	BK	116	ASN
46	BN	8	GLN
46	BN	63	THR
46	BN	83	LYS
46	BN	134	ARG
47	BO	50	GLY
48	BP	15	ARG
48	BP	31	ALA
48	BP	40	SER
48	BP	52	GLU
48	BP	57	THR
48	BP	61	ARG
48	BP	65	ARG
48	BP	70	GLN
48	BP	71	VAL
48	BP	103	ALA
48	BP	108	LYS
48	BP	125	VAL
48	BP	141	ALA
48	BP	147	LEU
49	BQ	2	LEU
49	BQ	19	GLY
49	BQ	62	GLY
50	BR	8	ARG
50	BR	59	ASP
50	BR	82	GLU
50	BR	107	ASP
51	BS	18	ILE
51	BS	23	ARG
51	BS	53	SER
51	BS	59	LYS
51	BS	63	THR
51	BS	92	TYR
51	BS	97	ARG
51	BS	102	ALA
52	BT	18	ASP
52	BT	24	PRO
52	BT	27	THR
52	BT	28	VAL
52	BT	29	ARG
52	BT	30	VAL

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Mol	Chain	Res	Type
52	BT	32	TYR
52	BT	40	THR
52	BT	58	ASN
52	BT	80	SER
52	BT	85	LYS
52	BT	105	LEU
52	BT	107	ASP
52	BT	136	GLN
53	BU	9	VAL
53	BU	25	TRP
53	BU	32	PHE
53	BU	93	LYS
54	BV	16	PRO
54	BV	18	LEU
54	BV	46	VAL
57	BY	3	VAL
57	BY	7	VAL
57	BY	17	SER
57	BY	42	VAL
57	BY	49	VAL
57	BY	50	ARG
57	BY	52	SER
57	BY	63	LYS
57	BY	66	PRO
57	BY	77	PRO
57	BY	78	ALA
57	BY	81	LYS
57	BY	82	PRO
57	BY	96	ILE
58	BZ	64	GLY
58	BZ	81	ARG
58	BZ	105	VAL
58	BZ	108	PRO
58	BZ	109	ALA
58	BZ	135	GLU
58	BZ	141	VAL
58	BZ	152	ALA
58	BZ	171	ILE
2	CB	15	VAL
2	CB	20	GLU
2	CB	88	ALA
2	CB	95	GLN

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Mol	Chain	Res	Type
2	CB	195	ASP
2	CB	238	LEU
3	CC	157	ILE
3	CC	168	ALA
3	CC	179	ARG
3	CC	207	VAL
4	CD	3	ARG
4	CD	14	ARG
4	CD	29	PRO
4	CD	30	LYS
4	CD	109	GLY
5	CE	73	ASN
5	CE	153	LYS
6	CF	39	LYS
6	CF	62	TRP
7	CG	77	SER
7	CG	155	ARG
8	CH	70	GLN
8	CH	71	GLY
9	CI	105	ASP
10	CJ	57	LYS
10	CJ	75	ILE
11	CK	89	ALA
12	CL	47	LYS
12	CL	106	ASP
13	CM	49	THR
13	CM	83	ASP
13	CM	113	PRO
13	CM	117	VAL
14	CN	22	THR
14	CN	23	ARG
16	CP	24	ALA
16	CP	78	GLY
17	CQ	69	LYS
17	CQ	74	LEU
18	CR	45	SER
18	CR	87	ARG
19	CS	5	LEU
19	CS	10	PHE
19	CS	28	LYS
19	CS	80	TYR
20	CT	49	ALA

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Mol	Chain	Res	Type
20	CT	99	LEU
24	CY	13	LEU
24	CY	45	ALA
24	CY	110	PRO
24	CY	264	THR
24	CY	302	VAL
24	CY	319	ASN
25	D0	55	ARG
26	D1	83	GLU
27	D2	44	LEU
27	D2	45	SER
27	D2	47	ASN
27	D2	48	HIS
28	D3	38	GLU
28	D3	49	LYS
29	D4	61	VAL
30	D5	4	HIS
30	D5	38	ALA
30	D5	47	PRO
30	D5	49	CYS
30	D5	50	GLY
31	D6	17	LYS
31	D6	20	ASN
31	D6	28	ARG
31	D6	31	PRO
31	D6	33	LYS
31	D6	52	VAL
33	D8	61	LEU
37	DC	38	ASP
37	DC	48	GLY
37	DC	58	VAL
37	DC	123	VAL
37	DC	133	PRO
37	DC	140	PRO
37	DC	145	VAL
37	DC	151	GLU
37	DC	161	ILE
37	DC	172	HIS
37	DC	173	ALA
37	DC	174	PRO
37	DC	182	PRO
37	DC	195	ALA

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Mol	Chain	Res	Type
37	DC	200	LYS
37	DC	214	VAL
37	DC	220	PRO
38	DD	26	LYS
38	DD	34	VAL
38	DD	35	LYS
38	DD	44	ASN
38	DD	236	GLY
38	DD	239	ARG
38	DD	244	ARG
38	DD	272	ALA
39	DE	4	ILE
39	DE	35	GLN
39	DE	54	GLN
39	DE	66	HIS
39	DE	68	ALA
39	DE	69	LYS
39	DE	83	ASP
39	DE	90	THR
39	DE	131	ALA
39	DE	132	HIS
39	DE	189	PRO
40	DF	2	LYS
40	DF	10	PRO
40	DF	11	VAL
40	DF	132	VAL
40	DF	133	ASN
41	DG	6	ALA
41	DG	14	GLU
41	DG	43	LEU
41	DG	81	LYS
41	DG	84	LYS
41	DG	86	MET
41	DG	87	PRO
41	DG	115	ARG
41	DG	155	MET
41	DG	175	LEU
42	DH	20	ALA
42	DH	42	ARG
42	DH	83	TYR
42	DH	89	ILE
42	DH	90	LYS

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Mol	Chain	Res	Type
42	DH	92	ILE
42	DH	127	GLU
42	DH	138	LYS
42	DH	155	SER
42	DH	156	ALA
42	DH	159	GLU
59	DI	8	PRO
59	DI	11	ASN
59	DI	12	LEU
59	DI	15	VAL
59	DI	17	GLN
59	DI	75	LEU
59	DI	81	VAL
59	DI	97	ILE
59	DI	115	ALA
45	DK	5	VAL
45	DK	14	ALA
45	DK	18	THR
45	DK	88	ALA
45	DK	115	LEU
45	DK	116	ASN
46	DN	8	GLN
46	DN	47	ALA
46	DN	63	THR
46	DN	83	LYS
46	DN	125	GLY
46	DN	134	ARG
47	DO	50	GLY
48	DP	15	ARG
48	DP	31	ALA
48	DP	40	SER
48	DP	52	GLU
48	DP	57	THR
48	DP	61	ARG
48	DP	65	ARG
48	DP	70	GLN
48	DP	71	VAL
48	DP	103	ALA
48	DP	108	LYS
48	DP	125	VAL
48	DP	141	ALA
48	DP	147	LEU

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Mol	Chain	Res	Type
49	DQ	2	LEU
49	DQ	19	GLY
50	DR	8	ARG
50	DR	59	ASP
50	DR	82	GLU
50	DR	107	ASP
51	DS	18	ILE
51	DS	23	ARG
51	DS	53	SER
51	DS	59	LYS
51	DS	63	THR
51	DS	92	TYR
51	DS	97	ARG
51	DS	102	ALA
52	DT	18	ASP
52	DT	24	PRO
52	DT	27	THR
52	DT	28	VAL
52	DT	29	ARG
52	DT	30	VAL
52	DT	32	TYR
52	DT	40	THR
52	DT	58	ASN
52	DT	80	SER
52	DT	85	LYS
52	DT	105	LEU
52	DT	107	ASP
52	DT	136	GLN
53	DU	9	VAL
53	DU	25	TRP
53	DU	90	VAL
53	DU	93	LYS
54	DV	16	PRO
54	DV	18	LEU
54	DV	46	VAL
54	DV	53	GLU
57	DY	3	VAL
57	DY	7	VAL
57	DY	17	SER
57	DY	42	VAL
57	DY	49	VAL
57	DY	50	ARG

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Mol	Chain	Res	Type
57	DY	52	SER
57	DY	63	LYS
57	DY	66	PRO
57	DY	77	PRO
57	DY	78	ALA
57	DY	81	LYS
57	DY	82	PRO
58	DZ	64	GLY
58	DZ	65	GLN
58	DZ	93	ASP
58	DZ	108	PRO
58	DZ	109	ALA
58	DZ	112	ARG
58	DZ	120	ILE
58	DZ	136	PHE
58	DZ	152	ALA
58	DZ	166	SER
2	AB	9	GLU
2	AB	18	GLY
2	AB	24	TRP
2	AB	154	LEU
2	AB	194	PRO
3	AC	12	LEU
3	AC	16	ARG
3	AC	47	LEU
3	AC	51	GLY
3	AC	60	ALA
3	AC	61	ALA
3	AC	103	VAL
3	AC	104	GLN
3	AC	145	GLY
3	AC	181	ASN
4	AD	5	ILE
4	AD	15	GLU
4	AD	84	LYS
4	AD	129	ASN
4	AD	154	ASN
5	AE	11	ILE
5	AE	27	ARG
5	AE	49	PRO
5	AE	108	ALA
5	AE	137	GLU

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Mol	Chain	Res	Type
6	AF	13	ASN
6	AF	34	GLY
7	AG	137	LYS
7	AG	149	ARG
8	AH	6	ILE
8	AH	86	ILE
8	AH	104	ARG
8	AH	111	ILE
9	AI	44	VAL
9	AI	56	LEU
10	AJ	24	VAL
10	AJ	36	GLY
10	AJ	51	ARG
10	AJ	59	SER
12	AL	28	LYS
12	AL	82	VAL
12	AL	89	ARG
12	AL	115	LYS
13	AM	4	ILE
13	AM	6	GLY
13	AM	49	THR
13	AM	100	GLY
13	AM	116	THR
13	AM	120	LYS
14	AN	15	LYS
14	AN	16	PHE
14	AN	29	ARG
14	AN	52	GLN
15	AO	16	ALA
15	AO	26	GLU
16	AP	48	TRP
16	AP	63	GLY
16	AP	65	GLN
17	AQ	33	GLY
17	AQ	34	LYS
17	AQ	82	MET
18	AR	37	VAL
19	AS	26	GLY
19	AS	30	LEU
19	AS	44	MET
20	AT	47	GLY
20	AT	95	ALA

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Mol	Chain	Res	Type
20	AT	100	ILE
24	AY	11	GLU
24	AY	36	PRO
24	AY	53	ALA
24	AY	107	LEU
24	AY	113	GLU
24	AY	159	GLY
24	AY	319	ASN
24	AY	342	MET
24	AY	353	ALA
25	B0	11	ARG
25	B0	13	GLY
25	B0	15	ASP
26	B1	30	VAL
26	B1	84	GLY
26	B1	85	LEU
27	B2	57	ILE
28	B3	3	ARG
28	B3	4	LEU
28	B3	51	ALA
29	B4	50	THR
29	B4	65	CYS
30	B5	38	ALA
30	B5	48	GLU
30	B5	56	LYS
30	B5	57	VAL
31	B6	15	GLU
31	B6	16	CYS
31	B6	23	THR
31	B6	34	LEU
31	B6	35	GLU
31	B6	41	PRO
33	B8	32	LEU
33	B8	34	TRP
33	B8	37	SER
33	B8	40	GLU
33	B8	64	TYR
37	BC	58	VAL
37	BC	77	ILE
37	BC	121	GLY
37	BC	129	ARG
37	BC	131	LEU

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Mol	Chain	Res	Type
37	BC	156	ILE
37	BC	171	ILE
37	BC	175	VAL
37	BC	193	ILE
37	BC	215	THR
38	BD	156	ALA
38	BD	198	ASN
38	BD	202	LYS
38	BD	246	PRO
38	BD	267	SER
39	BE	2	LYS
39	BE	53	PRO
39	BE	57	LYS
39	BE	71	GLY
39	BE	76	ARG
39	BE	77	ILE
39	BE	88	GLY
39	BE	118	LYS
39	BE	186	GLY
39	BE	187	ALA
39	BE	190	GLY
40	BF	3	GLU
40	BF	21	ALA
40	BF	22	ALA
40	BF	24	LEU
40	BF	122	LYS
40	BF	130	ALA
40	BF	131	GLY
40	BF	134	GLY
41	BG	7	LEU
41	BG	13	GLU
41	BG	76	SER
41	BG	83	ARG
41	BG	116	ASP
42	BH	13	LYS
42	BH	36	PRO
42	BH	46	GLU
42	BH	95	ARG
42	BH	114	VAL
42	BH	157	TYR
45	BK	31	GLY
45	BK	50	ASP

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Mol	Chain	Res	Type
46	BN	36	GLY
46	BN	47	ALA
46	BN	57	ALA
46	BN	58	ASP
46	BN	59	LYS
46	BN	64	GLY
46	BN	125	GLY
46	BN	129	PRO
47	BO	26	LYS
47	BO	29	ASN
48	BP	11	GLY
48	BP	17	LYS
48	BP	19	VAL
48	BP	34	GLY
48	BP	46	LYS
48	BP	49	ARG
48	BP	109	GLY
48	BP	139	LYS
49	BQ	115	MET
50	BR	31	HIS
50	BR	42	LYS
51	BS	14	VAL
51	BS	90	GLY
51	BS	96	GLY
51	BS	104	GLY
52	BT	2	ASN
52	BT	35	LYS
52	BT	41	ARG
52	BT	83	ILE
52	BT	101	PHE
52	BT	119	LYS
52	BT	129	ARG
53	BU	90	VAL
54	BV	19	LYS
54	BV	22	VAL
54	BV	40	LEU
54	BV	53	GLU
54	BV	54	GLY
55	BW	11	ARG
55	BW	67	ASP
56	BX	22	ALA
57	BY	29	GLU

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Mol	Chain	Res	Type
57	BY	48	ALA
57	BY	53	PRO
57	BY	69	ALA
57	BY	75	ILE
57	BY	90	LEU
57	BY	92	ASN
58	BZ	12	GLY
58	BZ	31	ARG
58	BZ	122	ARG
58	BZ	139	VAL
58	BZ	151	HIS
58	BZ	165	VAL
2	CB	9	GLU
2	CB	18	GLY
2	CB	24	TRP
2	CB	154	LEU
2	CB	194	PRO
2	CB	221	LEU
3	CC	12	LEU
3	CC	16	ARG
3	CC	47	LEU
3	CC	51	GLY
3	CC	60	ALA
3	CC	61	ALA
3	CC	103	VAL
3	CC	104	GLN
3	CC	145	GLY
3	CC	181	ASN
4	CD	5	ILE
4	CD	15	GLU
4	CD	129	ASN
4	CD	154	ASN
5	CE	11	ILE
5	CE	27	ARG
5	CE	49	PRO
5	CE	108	ALA
5	CE	137	GLU
6	CF	13	ASN
6	CF	34	GLY
7	CG	16	LEU
7	CG	137	LYS
7	CG	149	ARG

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Mol	Chain	Res	Type
8	CH	86	ILE
8	CH	104	ARG
8	CH	111	ILE
9	CI	44	VAL
9	CI	56	LEU
10	CJ	24	VAL
10	CJ	36	GLY
10	CJ	51	ARG
10	CJ	56	HIS
10	CJ	59	SER
12	CL	82	VAL
12	CL	89	ARG
12	CL	115	LYS
13	CM	4	ILE
13	CM	6	GLY
13	CM	100	GLY
13	CM	116	THR
13	CM	120	LYS
14	CN	15	LYS
14	CN	16	PHE
14	CN	29	ARG
14	CN	52	GLN
15	CO	16	ALA
15	CO	26	GLU
16	CP	40	ASP
16	CP	48	TRP
16	CP	63	GLY
16	CP	65	GLN
17	CQ	33	GLY
17	CQ	34	LYS
17	CQ	82	MET
18	CR	37	VAL
19	CS	26	GLY
19	CS	30	LEU
19	CS	44	MET
20	CT	47	GLY
20	CT	95	ALA
20	CT	100	ILE
24	CY	12	GLY
24	CY	126	GLY
24	CY	324	HIS
24	CY	341	LEU

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Mol	Chain	Res	Type
25	D0	11	ARG
25	D0	13	GLY
26	D1	45	ASN
26	D1	53	VAL
26	D1	85	LEU
27	D2	17	SER
27	D2	43	GLN
28	D3	3	ARG
28	D3	4	LEU
28	D3	51	ALA
29	D4	50	THR
29	D4	65	CYS
30	D5	48	GLU
30	D5	56	LYS
30	D5	57	VAL
31	D6	15	GLU
31	D6	16	CYS
31	D6	23	THR
31	D6	34	LEU
31	D6	35	GLU
31	D6	41	PRO
33	D8	32	LEU
33	D8	34	TRP
33	D8	37	SER
33	D8	40	GLU
33	D8	64	TYR
37	DC	77	ILE
37	DC	121	GLY
37	DC	129	ARG
37	DC	131	LEU
37	DC	156	ILE
37	DC	170	ALA
37	DC	171	ILE
37	DC	175	VAL
37	DC	193	ILE
37	DC	215	THR
38	DD	156	ALA
38	DD	198	ASN
38	DD	202	LYS
38	DD	246	PRO
38	DD	267	SER
39	DE	2	LYS

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Mol	Chain	Res	Type
39	DE	53	PRO
39	DE	57	LYS
39	DE	71	GLY
39	DE	76	ARG
39	DE	77	ILE
39	DE	88	GLY
39	DE	118	LYS
39	DE	186	GLY
39	DE	187	ALA
39	DE	190	GLY
40	DF	3	GLU
40	DF	21	ALA
40	DF	22	ALA
40	DF	24	LEU
40	DF	122	LYS
40	DF	130	ALA
40	DF	131	GLY
40	DF	134	GLY
41	DG	21	ARG
41	DG	42	GLY
41	DG	79	ASN
41	DG	126	ASP
42	DH	13	LYS
42	DH	36	PRO
42	DH	46	GLU
42	DH	95	ARG
42	DH	114	VAL
42	DH	157	TYR
59	DI	34	GLY
59	DI	112	LYS
45	DK	31	GLY
45	DK	50	ASP
46	DN	57	ALA
46	DN	58	ASP
46	DN	59	LYS
46	DN	64	GLY
46	DN	129	PRO
47	DO	26	LYS
47	DO	29	ASN
48	DP	11	GLY
48	DP	17	LYS
48	DP	19	VAL

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Mol	Chain	Res	Type
48	DP	34	GLY
48	DP	46	LYS
48	DP	49	ARG
48	DP	109	GLY
48	DP	139	LYS
49	DQ	62	GLY
49	DQ	115	MET
50	DR	42	LYS
51	DS	14	VAL
51	DS	90	GLY
51	DS	96	GLY
52	DT	2	ASN
52	DT	35	LYS
52	DT	41	ARG
52	DT	83	ILE
52	DT	101	PHE
52	DT	119	LYS
52	DT	129	ARG
53	DU	32	PHE
54	DV	19	LYS
54	DV	22	VAL
54	DV	35	LEU
54	DV	40	LEU
54	DV	54	GLY
55	DW	11	ARG
55	DW	67	ASP
56	DX	22	ALA
57	DY	29	GLU
57	DY	48	ALA
57	DY	53	PRO
57	DY	69	ALA
57	DY	75	ILE
57	DY	90	LEU
57	DY	92	ASN
57	DY	96	ILE
58	DZ	56	VAL
58	DZ	62	PRO
58	DZ	63	ASP
58	DZ	110	GLY
58	DZ	168	GLU
58	DZ	177	PRO
2	AB	78	GLN

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Mol	Chain	Res	Type
2	AB	98	LEU
2	AB	110	GLN
2	AB	221	LEU
3	AC	20	SER
3	AC	101	LEU
3	AC	150	LYS
4	AD	40	PRO
4	AD	160	GLN
4	AD	168	ARG
5	AE	136	MET
5	AE	147	ASP
6	AF	43	LEU
7	AG	7	ALA
7	AG	16	LEU
7	AG	58	PRO
7	AG	121	ALA
8	AH	22	GLU
8	AH	34	GLU
8	AH	105	ARG
8	AH	121	ASP
8	AH	133	LEU
9	AI	11	LYS
9	AI	60	ASP
9	AI	90	PRO
9	AI	91	ASP
9	AI	94	ALA
10	AJ	54	PHE
10	AJ	93	GLY
12	AL	27	LEU
13	AM	68	GLY
13	AM	90	LEU
15	AO	86	GLY
16	AP	40	ASP
17	AQ	3	LYS
17	AQ	25	ARG
17	AQ	31	LEU
19	AS	81	ARG
20	AT	74	LYS
20	AT	75	ASN
24	AY	12	GLY
24	AY	28	GLU
24	AY	34	GLU

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Mol	Chain	Res	Type
24	AY	101	LEU
24	AY	139	MET
24	AY	143	PHE
25	B0	41	ARG
25	B0	72	ARG
26	B1	55	GLY
27	B2	10	LEU
27	B2	48	HIS
28	B3	48	GLU
30	B5	36	CYS
33	B8	31	HIS
33	B8	46	ARG
37	BC	57	ASN
37	BC	70	LYS
37	BC	80	GLY
37	BC	153	ILE
37	BC	170	ALA
37	BC	199	HIS
37	BC	203	GLY
37	BC	205	LYS
37	BC	209	LEU
37	BC	213	TYR
38	BD	52	ARG
38	BD	162	SER
38	BD	169	GLU
38	BD	208	LYS
38	BD	224	ALA
38	BD	263	ARG
39	BE	18	ASP
39	BE	29	GLY
39	BE	52	LEU
39	BE	82	ARG
40	BF	26	ALA
40	BF	84	VAL
40	BF	89	VAL
40	BF	145	GLU
41	BG	30	GLU
41	BG	62	LEU
41	BG	106	LEU
41	BG	112	PRO
41	BG	151	ALA
41	BG	179	PRO

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Mol	Chain	Res	Type
42	BH	84	SER
42	BH	115	VAL
43	BI	5	LEU
43	BI	34	GLY
43	BI	114	LEU
45	BK	126	MET
46	BN	88	GLU
46	BN	89	LYS
47	BO	5	GLN
47	BO	48	PRO
48	BP	18	ARG
48	BP	88	LEU
48	BP	90	ARG
48	BP	107	LYS
48	BP	135	LEU
49	BQ	6	ARG
49	BQ	49	ALA
50	BR	14	SER
50	BR	32	GLY
50	BR	78	LYS
50	BR	102	GLU
51	BS	42	ASP
51	BS	88	ASP
51	BS	89	ARG
51	BS	107	GLU
52	BT	33	LYS
52	BT	81	PRO
52	BT	103	ARG
53	BU	87	GLY
54	BV	24	LYS
54	BV	35	LEU
55	BW	111	HIS
57	BY	38	ILE
58	BZ	65	GLN
58	BZ	93	ASP
58	BZ	101	PRO
58	BZ	119	GLU
58	BZ	172	ALA
58	BZ	177	PRO
2	CB	78	GLN
2	CB	98	LEU
2	CB	110	GLN

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Mol	Chain	Res	Type
3	CC	20	SER
3	CC	101	LEU
3	CC	150	LYS
4	CD	40	PRO
4	CD	84	LYS
4	CD	168	ARG
4	CD	200	GLU
5	CE	147	ASP
6	CF	43	LEU
7	CG	7	ALA
7	CG	58	PRO
7	CG	121	ALA
8	CH	6	ILE
8	CH	22	GLU
8	CH	34	GLU
8	CH	105	ARG
8	CH	121	ASP
8	CH	133	LEU
9	CI	11	LYS
9	CI	90	PRO
9	CI	91	ASP
9	CI	94	ALA
10	CJ	46	ARG
10	CJ	54	PHE
12	CL	27	LEU
12	CL	28	LYS
13	CM	90	LEU
15	CO	86	GLY
17	CQ	3	LYS
17	CQ	25	ARG
17	CQ	31	LEU
17	CQ	81	ARG
20	CT	74	LYS
20	CT	75	ASN
24	CY	16	TYR
24	CY	32	ARG
24	CY	69	LEU
24	CY	144	ALA
24	CY	160	PRO
24	CY	199	GLY
24	CY	308	GLY
25	D0	15	ASP

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Mol	Chain	Res	Type
25	D0	41	ARG
25	D0	72	ARG
27	D2	3	LEU
30	D5	36	CYS
37	DC	57	ASN
37	DC	70	LYS
37	DC	80	GLY
37	DC	153	ILE
37	DC	199	HIS
37	DC	203	GLY
37	DC	205	LYS
37	DC	209	LEU
37	DC	213	TYR
38	DD	56	GLY
38	DD	162	SER
38	DD	169	GLU
38	DD	208	LYS
38	DD	224	ALA
38	DD	263	ARG
39	DE	18	ASP
39	DE	29	GLY
39	DE	52	LEU
39	DE	82	ARG
40	DF	26	ALA
40	DF	84	VAL
40	DF	145	GLU
41	DG	117	PHE
41	DG	171	ALA
41	DG	174	GLU
42	DH	84	SER
59	DI	9	LEU
59	DI	14	ASP
59	DI	63	ALA
59	DI	72	LEU
59	DI	116	LEU
59	DI	134	PRO
45	DK	126	MET
46	DN	36	GLY
46	DN	76	SER
46	DN	88	GLU
46	DN	89	LYS
47	DO	5	GLN

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Mol	Chain	Res	Type
48	DP	18	ARG
48	DP	88	LEU
48	DP	90	ARG
48	DP	107	LYS
48	DP	135	LEU
49	DQ	6	ARG
49	DQ	49	ALA
50	DR	14	SER
50	DR	31	HIS
50	DR	32	GLY
50	DR	78	LYS
50	DR	102	GLU
51	DS	88	ASP
51	DS	89	ARG
51	DS	104	GLY
51	DS	107	GLU
52	DT	33	LYS
52	DT	81	PRO
52	DT	103	ARG
52	DT	132	LYS
54	DV	24	LYS
55	DW	111	HIS
57	DY	38	ILE
58	DZ	34	ASN
58	DZ	146	ILE
2	AB	130	ARG
2	AB	189	ASP
3	AC	81	GLY
3	AC	146	ALA
4	AD	9	CYS
4	AD	166	LYS
4	AD	191	ARG
6	AF	14	LEU
10	AJ	46	ARG
12	AL	48	PRO
12	AL	121	GLY
16	AP	26	ARG
16	AP	58	TYR
17	AQ	81	ARG
18	AR	47	THR
20	AT	25	ARG
20	AT	46	GLU

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Mol	Chain	Res	Type
20	AT	96	GLY
21	AU	3	LYS
21	AU	9	ARG
24	AY	43	GLU
24	AY	180	LEU
24	AY	337	LEU
24	AY	340	ASP
26	B1	51	VAL
26	B1	53	VAL
26	B1	54	ALA
37	BC	52	ARG
37	BC	64	LEU
37	BC	208	PHE
38	BD	56	GLY
38	BD	123	ALA
38	BD	132	PRO
38	BD	206	LEU
39	BE	17	ASP
39	BE	61	ARG
41	BG	3	LEU
41	BG	10	LYS
41	BG	16	ARG
41	BG	63	ILE
41	BG	81	LYS
41	BG	86	MET
42	BH	29	PRO
42	BH	119	GLU
42	BH	145	ALA
42	BH	160	LYS
42	BH	166	GLY
43	BI	13	GLY
45	BK	42	ASN
45	BK	63	ARG
45	BK	89	HIS
46	BN	6	PRO
46	BN	66	LYS
46	BN	76	SER
46	BN	127	ASP
48	BP	10	PRO
48	BP	14	LYS
48	BP	42	SER
48	BP	84	ASN

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Mol	Chain	Res	Type
48	BP	99	LEU
49	BQ	20	ALA
50	BR	5	LYS
50	BR	106	GLY
51	BS	17	ARG
51	BS	78	LEU
52	BT	68	TYR
52	BT	82	LEU
52	BT	88	ILE
52	BT	132	LYS
53	BU	86	ALA
54	BV	26	ASP
57	BY	31	LEU
57	BY	39	VAL
57	BY	62	GLU
57	BY	74	PRO
58	BZ	30	ASN
58	BZ	134	PRO
2	CB	130	ARG
2	CB	189	ASP
3	CC	146	ALA
4	CD	9	CYS
4	CD	160	GLN
4	CD	166	LYS
4	CD	191	ARG
5	CE	128	PRO
5	CE	136	MET
6	CF	14	LEU
9	CI	60	ASP
10	CJ	93	GLY
11	CK	48	ILE
12	CL	48	PRO
13	CM	68	GLY
16	CP	58	TYR
18	CR	47	THR
18	CR	66	LEU
19	CS	81	ARG
20	CT	25	ARG
20	CT	46	GLU
20	CT	96	GLY
21	CU	9	ARG
24	CY	11	GLU

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Mol	Chain	Res	Type
24	CY	31	ARG
24	CY	36	PRO
24	CY	46	ARG
24	CY	100	GLU
24	CY	146	ARG
24	CY	191	ARG
24	CY	298	LEU
24	CY	320	TYR
24	CY	328	LEU
26	D1	30	VAL
26	D1	64	ALA
26	D1	69	LYS
27	D2	35	LEU
30	D5	51	TYR
31	D6	22	ALA
33	D8	31	HIS
37	DC	64	LEU
37	DC	208	PHE
38	DD	52	ARG
38	DD	123	ALA
38	DD	132	PRO
38	DD	188	GLU
38	DD	206	LEU
39	DE	17	ASP
39	DE	61	ARG
40	DF	16	GLY
40	DF	89	VAL
41	DG	82	LEU
41	DG	104	GLU
42	DH	29	PRO
42	DH	115	VAL
42	DH	119	GLU
42	DH	145	ALA
42	DH	160	LYS
59	DI	35	LEU
59	DI	48	GLU
59	DI	89	TYR
45	DK	42	ASN
45	DK	63	ARG
45	DK	89	HIS
46	DN	6	PRO
46	DN	62	VAL

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Mol	Chain	Res	Type
46	DN	127	ASP
47	DO	48	PRO
47	DO	101	PRO
48	DP	10	PRO
48	DP	14	LYS
48	DP	42	SER
48	DP	84	ASN
48	DP	99	LEU
48	DP	129	ALA
50	DR	5	LYS
50	DR	106	GLY
51	DS	17	ARG
51	DS	42	ASP
52	DT	68	TYR
52	DT	82	LEU
52	DT	88	ILE
53	DU	86	ALA
53	DU	87	GLY
54	DV	26	ASP
57	DY	26	LYS
57	DY	31	LEU
57	DY	39	VAL
57	DY	62	GLU
57	DY	74	PRO
58	DZ	45	ASP
58	DZ	78	LYS
58	DZ	101	PRO
58	DZ	113	ALA
58	DZ	119	GLU
58	DZ	172	ALA
2	AB	181	PHE
2	AB	236	TYR
3	AC	29	TYR
4	AD	31	CYS
4	AD	99	SER
4	AD	105	VAL
4	AD	172	PRO
4	AD	181	MET
4	AD	200	GLU
5	AE	52	PRO
5	AE	105	VAL
5	AE	128	PRO

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Mol	Chain	Res	Type
5	AE	140	ARG
7	AG	115	ARG
9	AI	38	GLN
9	AI	49	PRO
9	AI	71	SER
10	AJ	33	GLN
10	AJ	82	ILE
11	AK	48	ILE
13	AM	21	TYR
13	AM	60	VAL
13	AM	106	ASN
14	AN	13	THR
15	AO	24	SER
17	AQ	46	ASP
17	AQ	56	VAL
18	AR	36	ASN
18	AR	63	GLN
18	AR	66	LEU
24	AY	14	ARG
27	B2	17	SER
30	B5	51	TYR
31	B6	22	ALA
37	BC	21	THR
37	BC	78	ALA
37	BC	95	GLY
38	BD	64	ILE
38	BD	79	VAL
38	BD	188	GLU
38	BD	222	ARG
39	BE	45	THR
40	BF	9	ILE
40	BF	136	THR
40	BF	165	ARG
41	BG	43	LEU
41	BG	74	LYS
41	BG	140	ILE
42	BH	39	PRO
42	BH	93	GLY
45	BK	8	VAL
45	BK	13	PRO
45	BK	22	PRO
45	BK	36	GLU

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Mol	Chain	Res	Type
45	BK	91	PRO
47	BO	101	PRO
48	BP	9	ASN
48	BP	33	ARG
48	BP	115	LEU
48	BP	129	ALA
49	BQ	136	ALA
50	BR	45	ARG
50	BR	117	VAL
51	BS	83	LYS
53	BU	79	PHE
54	BV	3	ALA
54	BV	23	GLU
54	BV	31	ALA
55	BW	6	ILE
57	BY	9	LYS
57	BY	26	LYS
57	BY	55	TYR
57	BY	67	LEU
58	BZ	27	VAL
58	BZ	166	SER
2	CB	181	PHE
2	CB	236	TYR
3	CC	81	GLY
4	CD	99	SER
4	CD	172	PRO
4	CD	181	MET
5	CE	52	PRO
5	CE	105	VAL
7	CG	115	ARG
9	CI	38	GLN
9	CI	49	PRO
9	CI	71	SER
9	CI	107	ARG
10	CJ	33	GLN
10	CJ	82	ILE
11	CK	121	PRO
12	CL	121	GLY
13	CM	21	TYR
13	CM	60	VAL
13	CM	106	ASN
14	CN	13	THR

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Mol	Chain	Res	Type
15	CO	24	SER
16	CP	26	ARG
17	CQ	46	ASP
17	CQ	56	VAL
18	CR	36	ASN
24	CY	40	ASN
24	CY	255	PRO
24	CY	337	LEU
27	D2	36	ARG
28	D3	48	GLU
33	D8	46	ARG
37	DC	21	THR
37	DC	52	ARG
37	DC	78	ALA
37	DC	95	GLY
38	DD	64	ILE
38	DD	79	VAL
39	DE	45	THR
39	DE	98	PRO
39	DE	185	LYS
40	DF	9	ILE
40	DF	136	THR
40	DF	165	ARG
40	DF	172	TRP
41	DG	30	GLU
41	DG	52	ILE
41	DG	110	ALA
41	DG	127	GLY
42	DH	25	LYS
42	DH	39	PRO
42	DH	93	GLY
42	DH	166	GLY
59	DI	96	ASP
45	DK	13	PRO
45	DK	22	PRO
45	DK	23	VAL
45	DK	36	GLU
46	DN	66	LYS
48	DP	9	ASN
48	DP	35	HIS
48	DP	115	LEU
48	DP	137	LYS

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Mol	Chain	Res	Type
49	DQ	20	ALA
49	DQ	78	PRO
49	DQ	136	ALA
50	DR	45	ARG
51	DS	83	LYS
51	DS	94	TYR
52	DT	36	GLU
53	DU	79	PHE
54	DV	3	ALA
54	DV	23	GLU
55	DW	6	ILE
55	DW	93	ALA
57	DY	55	TYR
57	DY	67	LEU
58	DZ	151	HIS
9	AI	107	ARG
11	AK	121	PRO
17	AQ	30	PRO
19	AS	19	VAL
19	AS	59	PRO
24	AY	81	ALA
24	AY	305	ILE
26	B1	87	PRO
27	B2	71	ASN
31	B6	46	HIS
33	B8	52	LYS
37	BC	19	VAL
37	BC	61	THR
37	BC	89	ALA
37	BC	212	VAL
39	BE	98	PRO
40	BF	172	TRP
41	BG	46	ALA
41	BG	84	LYS
42	BH	25	LYS
42	BH	56	SER
42	BH	101	ARG
43	BI	115	ALA
43	BI	119	PRO
45	BK	23	VAL
46	BN	62	VAL
48	BP	35	HIS

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Mol	Chain	Res	Type
48	BP	68	GLN
48	BP	137	LYS
51	BS	58	LEU
52	BT	36	GLU
53	BU	62	ILE
55	BW	93	ALA
56	BX	40	LYS
58	BZ	14	LYS
58	BZ	80	ARG
58	BZ	115	GLY
4	CD	7	PRO
4	CD	105	VAL
5	CE	140	ARG
14	CN	17	LYS
17	CQ	30	PRO
18	CR	63	GLN
19	CS	19	VAL
19	CS	59	PRO
21	CU	3	LYS
33	D8	52	LYS
37	DC	19	VAL
37	DC	212	VAL
41	DG	12	TYR
41	DG	50	ALA
41	DG	109	VAL
42	DH	56	SER
42	DH	101	ARG
45	DK	8	VAL
45	DK	91	PRO
48	DP	33	ARG
48	DP	68	GLN
50	DR	117	VAL
51	DS	58	LEU
53	DU	62	ILE
57	DY	9	LYS
58	DZ	82	ARG
58	DZ	114	GLY
3	AC	114	PRO
4	AD	7	PRO
8	AH	57	PRO
16	AP	30	GLY
24	AY	214	VAL

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Mol	Chain	Res	Type
24	AY	241	GLY
27	B2	18	PRO
37	BC	103	ILE
38	BD	125	ILE
39	BE	43	GLY
40	BF	16	GLY
41	BG	122	PRO
42	BH	19	VAL
53	BU	65	ILE
58	BZ	61	LEU
58	BZ	110	GLY
3	CC	114	PRO
8	CH	57	PRO
19	CS	45	VAL
37	DC	103	ILE
42	DH	19	VAL
53	DU	65	ILE
55	DW	12	ILE
11	AK	35	PRO
19	AS	45	VAL
20	AT	97	ALA
24	AY	20	PRO
39	BE	56	PRO
39	BE	75	VAL
40	BF	65	TRP
41	BG	101	ILE
43	BI	134	PRO
46	BN	40	PRO
49	BQ	78	PRO
55	BW	12	ILE
57	BY	37	VAL
58	BZ	71	VAL
11	CK	35	PRO
20	CT	97	ALA
24	CY	333	PRO
38	DD	125	ILE
38	DD	271	ILE
39	DE	33	VAL
39	DE	43	GLY
39	DE	56	PRO
39	DE	75	VAL
24	AY	220	VAL

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Mol	Chain	Res	Type
27	B2	6	VAL
37	BC	169	GLY
38	BD	243	GLY
38	BD	271	ILE
58	BZ	111	VAL
7	CG	9	VAL
27	D2	42	GLY
37	DC	169	GLY
38	DD	11	PRO
38	DD	243	GLY
40	DF	65	TRP
46	DN	40	PRO
47	DO	35	VAL
47	DO	98	VAL
57	DY	37	VAL
58	DZ	95	PRO
3	AC	55	VAL
3	AC	174	PRO
5	AE	70	PRO
5	AE	154	GLY
6	AF	96	PRO
7	AG	9	VAL
7	AG	17	VAL
24	AY	199	GLY
38	BD	249	PRO
40	BF	25	PRO
43	BI	16	GLY
57	BY	80	GLY
57	BY	98	VAL
2	CB	159	PRO
2	CB	239	VAL
5	CE	154	GLY
6	CF	96	PRO
24	CY	214	VAL
26	D1	84	GLY
38	DD	249	PRO
39	DE	73	GLU
40	DF	25	PRO
51	DS	108	GLY
57	DY	98	VAL
2	AB	239	VAL
17	AQ	77	VAL

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Mol	Chain	Res	Type
29	B4	37	PRO
39	BE	33	VAL
43	BI	80	PRO
3	CC	55	VAL
3	CC	174	PRO
5	CE	70	PRO
7	CG	17	VAL
16	CP	30	GLY
29	D4	37	PRO
42	DH	52	VAL
58	DZ	130	PRO
48	BP	48	PRO
48	DP	48	PRO
38	BD	245	PRO
38	DD	245	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	190 (94%)	12 (6%)	18	45
2	CB	202/220 (92%)	189 (94%)	13 (6%)	16	43
3	AC	160/188 (85%)	152 (95%)	8 (5%)	22	49
3	CC	160/188 (85%)	151 (94%)	9 (6%)	19	47
4	AD	180/181 (99%)	160 (89%)	20 (11%)	6	26
4	CD	180/181 (99%)	160 (89%)	20 (11%)	6	26
5	AE	115/123 (94%)	98 (85%)	17 (15%)	3	17
5	CE	115/123 (94%)	99 (86%)	16 (14%)	3	19
6	AF	90/90 (100%)	83 (92%)	7 (8%)	11	37
6	CF	90/90 (100%)	83 (92%)	7 (8%)	11	37
7	AG	126/127 (99%)	117 (93%)	9 (7%)	13	40
7	CG	126/127 (99%)	116 (92%)	10 (8%)	11	37

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
8	AH	119/119 (100%)	106 (89%)	13 (11%)	6 27
8	CH	119/119 (100%)	106 (89%)	13 (11%)	6 27
9	AI	98/99 (99%)	87 (89%)	11 (11%)	6 26
9	CI	98/99 (99%)	87 (89%)	11 (11%)	6 26
10	AJ	88/92 (96%)	80 (91%)	8 (9%)	9 32
10	CJ	88/92 (96%)	80 (91%)	8 (9%)	9 32
11	AK	90/99 (91%)	84 (93%)	6 (7%)	15 42
11	CK	90/99 (91%)	84 (93%)	6 (7%)	15 42
12	AL	104/109 (95%)	98 (94%)	6 (6%)	18 45
12	CL	104/109 (95%)	98 (94%)	6 (6%)	18 45
13	AM	96/101 (95%)	83 (86%)	13 (14%)	4 20
13	CM	96/101 (95%)	83 (86%)	13 (14%)	4 20
14	AN	49/50 (98%)	46 (94%)	3 (6%)	17 44
14	CN	49/50 (98%)	46 (94%)	3 (6%)	17 44
15	AO	79/80 (99%)	75 (95%)	4 (5%)	21 49
15	CO	79/80 (99%)	75 (95%)	4 (5%)	21 49
16	AP	72/74 (97%)	63 (88%)	9 (12%)	4 22
16	CP	72/74 (97%)	63 (88%)	9 (12%)	4 22
17	AQ	94/97 (97%)	91 (97%)	3 (3%)	34 60
17	CQ	94/97 (97%)	91 (97%)	3 (3%)	34 60
18	AR	61/77 (79%)	59 (97%)	2 (3%)	33 59
18	CR	61/77 (79%)	59 (97%)	2 (3%)	33 59
19	AS	69/80 (86%)	61 (88%)	8 (12%)	5 25
19	CS	69/80 (86%)	61 (88%)	8 (12%)	5 25
20	AT	76/82 (93%)	70 (92%)	6 (8%)	11 37
20	CT	76/82 (93%)	70 (92%)	6 (8%)	11 37
21	AU	19/22 (86%)	18 (95%)	1 (5%)	20 48
21	CU	19/22 (86%)	18 (95%)	1 (5%)	20 48
24	AY	298/298 (100%)	266 (89%)	32 (11%)	6 27
24	CY	298/298 (100%)	257 (86%)	41 (14%)	3 19
25	B0	61/67 (91%)	57 (93%)	4 (7%)	15 43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
25	D0	61/67 (91%)	57 (93%)	4 (7%)	15 43
26	B1	78/83 (94%)	69 (88%)	9 (12%)	5 25
26	D1	78/83 (94%)	66 (85%)	12 (15%)	2 16
27	B2	66/67 (98%)	56 (85%)	10 (15%)	3 16
27	D2	66/67 (98%)	59 (89%)	7 (11%)	6 27
28	B3	51/52 (98%)	46 (90%)	5 (10%)	7 30
28	D3	51/52 (98%)	46 (90%)	5 (10%)	7 30
29	B4	27/63 (43%)	25 (93%)	2 (7%)	13 39
29	D4	27/63 (43%)	25 (93%)	2 (7%)	13 39
30	B5	51/52 (98%)	45 (88%)	6 (12%)	5 24
30	D5	51/52 (98%)	45 (88%)	6 (12%)	5 24
31	B6	43/52 (83%)	32 (74%)	11 (26%)	0 3
31	D6	43/52 (83%)	32 (74%)	11 (26%)	0 3
32	B7	41/42 (98%)	39 (95%)	2 (5%)	22 50
32	D7	41/42 (98%)	39 (95%)	2 (5%)	22 50
33	B8	53/55 (96%)	40 (76%)	13 (24%)	1 4
33	D8	53/55 (96%)	40 (76%)	13 (24%)	1 4
34	B9	33/34 (97%)	28 (85%)	5 (15%)	3 16
34	D9	33/34 (97%)	28 (85%)	5 (15%)	3 16
37	BC	61/181 (34%)	55 (90%)	6 (10%)	7 30
37	DC	61/181 (34%)	55 (90%)	6 (10%)	7 30
38	BD	213/218 (98%)	191 (90%)	22 (10%)	7 28
38	DD	213/218 (98%)	192 (90%)	21 (10%)	7 30
39	BE	165/166 (99%)	134 (81%)	31 (19%)	1 9
39	DE	165/166 (99%)	133 (81%)	32 (19%)	1 8
40	BF	165/166 (99%)	143 (87%)	22 (13%)	4 21
40	DF	165/166 (99%)	144 (87%)	21 (13%)	4 22
41	BG	155/156 (99%)	134 (86%)	21 (14%)	4 20
41	DG	155/156 (99%)	133 (86%)	22 (14%)	3 18
42	BH	132/148 (89%)	122 (92%)	10 (8%)	12 38
42	DH	132/148 (89%)	122 (92%)	10 (8%)	12 38

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
43	BI	122/124 (98%)	113 (93%)	9 (7%)	13 39
45	BK	106/111 (96%)	98 (92%)	8 (8%)	12 38
45	DK	106/111 (96%)	98 (92%)	8 (8%)	12 38
46	BN	117/119 (98%)	96 (82%)	21 (18%)	2 10
46	DN	117/119 (98%)	98 (84%)	19 (16%)	2 14
47	BO	100/100 (100%)	91 (91%)	9 (9%)	9 33
47	DO	100/100 (100%)	92 (92%)	8 (8%)	11 36
48	BP	112/116 (97%)	83 (74%)	29 (26%)	0 3
48	DP	112/116 (97%)	83 (74%)	29 (26%)	0 3
49	BQ	111/111 (100%)	94 (85%)	17 (15%)	3 16
49	DQ	111/111 (100%)	94 (85%)	17 (15%)	3 16
50	BR	100/101 (99%)	81 (81%)	19 (19%)	1 8
50	DR	100/101 (99%)	81 (81%)	19 (19%)	1 8
51	BS	77/88 (88%)	62 (80%)	15 (20%)	1 8
51	DS	77/88 (88%)	62 (80%)	15 (20%)	1 8
52	BT	120/127 (94%)	101 (84%)	19 (16%)	2 15
52	DT	120/127 (94%)	101 (84%)	19 (16%)	2 15
53	BU	92/94 (98%)	85 (92%)	7 (8%)	12 38
53	DU	92/94 (98%)	85 (92%)	7 (8%)	12 38
54	BV	82/82 (100%)	70 (85%)	12 (15%)	3 17
54	DV	82/82 (100%)	70 (85%)	12 (15%)	3 17
55	BW	91/92 (99%)	78 (86%)	13 (14%)	3 18
55	DW	91/92 (99%)	78 (86%)	13 (14%)	3 18
56	BX	74/78 (95%)	66 (89%)	8 (11%)	6 27
56	DX	74/78 (95%)	66 (89%)	8 (11%)	6 27
57	BY	84/91 (92%)	68 (81%)	16 (19%)	1 8
57	DY	84/91 (92%)	68 (81%)	16 (19%)	1 8
58	BZ	155/179 (87%)	129 (83%)	26 (17%)	2 13
58	DZ	155/179 (87%)	126 (81%)	29 (19%)	1 9
59	DI	122/124 (98%)	113 (93%)	9 (7%)	13 39
All	All	10446/11246 (93%)	9225 (88%)	1221 (12%)	5 25

All (1221) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	16	HIS
2	AB	17	PHE
2	AB	36	ARG
2	AB	71	VAL
2	AB	80	ILE
2	AB	92	TYR
2	AB	103	THR
2	AB	140	HIS
2	AB	145	LEU
2	AB	170	GLU
2	AB	172	ILE
2	AB	178	ARG
3	AC	12	LEU
3	AC	16	ARG
3	AC	34	LEU
3	AC	52	LEU
3	AC	82	GLU
3	AC	90	GLU
3	AC	131	ARG
3	AC	165	THR
4	AD	7	PRO
4	AD	9	CYS
4	AD	11	LEU
4	AD	26	CYS
4	AD	29	PRO
4	AD	31	CYS
4	AD	49	ARG
4	AD	53	ASP
4	AD	58	LEU
4	AD	59	ARG
4	AD	68	TYR
4	AD	73	ARG
4	AD	97	LEU
4	AD	122	ARG
4	AD	132	ARG
4	AD	135	LEU
4	AD	140	VAL
4	AD	150	GLU
4	AD	188	LEU
4	AD	194	LEU
5	AE	6	PHE
5	AE	13	ILE

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Mol	Chain	Res	Type
5	AE	16	THR
5	AE	20	GLN
5	AE	25	ARG
5	AE	28	PHE
5	AE	41	VAL
5	AE	47	LYS
5	AE	51	VAL
5	AE	64	ARG
5	AE	68	GLU
5	AE	79	GLU
5	AE	91	LEU
5	AE	98	THR
5	AE	101	ILE
5	AE	105	VAL
5	AE	112	LEU
6	AF	30	LEU
6	AF	43	LEU
6	AF	73	ASN
6	AF	81	ILE
6	AF	82	ARG
6	AF	96	PRO
6	AF	98	LEU
7	AG	30	ILE
7	AG	50	ILE
7	AG	57	GLU
7	AG	58	PRO
7	AG	113	GLU
7	AG	118	VAL
7	AG	146	GLU
7	AG	148	ASN
7	AG	156	TRP
8	AH	1	MET
8	AH	3	THR
8	AH	4	ASP
8	AH	10	LEU
8	AH	26	VAL
8	AH	63	LEU
8	AH	85	ARG
8	AH	91	ARG
8	AH	102	ARG
8	AH	107	LEU
8	AH	119	LEU

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Mol	Chain	Res	Type
8	AH	120	THR
8	AH	122	ARG
9	AI	4	TYR
9	AI	47	LEU
9	AI	78	LYS
9	AI	85	LEU
9	AI	89	ASN
9	AI	95	LYS
9	AI	102	LEU
9	AI	104	ARG
9	AI	108	VAL
9	AI	114	TYR
9	AI	128	ARG
10	AJ	40	LEU
10	AJ	49	VAL
10	AJ	50	ILE
10	AJ	57	LYS
10	AJ	62	HIS
10	AJ	67	THR
10	AJ	70	ARG
10	AJ	96	ILE
11	AK	21	ILE
11	AK	32	ILE
11	AK	48	ILE
11	AK	82	VAL
11	AK	91	ARG
11	AK	125	PHE
12	AL	7	ILE
12	AL	37	CYS
12	AL	47	LYS
12	AL	48	PRO
12	AL	52	LEU
12	AL	127	GLU
13	AM	35	GLU
13	AM	47	ASP
13	AM	48	LEU
13	AM	56	LEU
13	AM	58	GLU
13	AM	65	LYS
13	AM	66	LEU
13	AM	69	GLU
13	AM	82	MET

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Mol	Chain	Res	Type
13	AM	93	ARG
13	AM	108	ARG
13	AM	113	PRO
13	AM	115	LYS
14	AN	22	THR
14	AN	37	PHE
14	AN	41	ARG
15	AO	3	ILE
15	AO	14	GLU
15	AO	65	ARG
15	AO	82	ILE
16	AP	6	LEU
16	AP	21	VAL
16	AP	27	LYS
16	AP	29	ASP
16	AP	32	TYR
16	AP	34	GLU
16	AP	62	VAL
16	AP	67	THR
16	AP	82	GLN
17	AQ	38	ARG
17	AQ	52	LYS
17	AQ	74	LEU
18	AR	31	LEU
18	AR	88	LYS
19	AS	6	LYS
19	AS	7	LYS
19	AS	15	LEU
19	AS	23	ASN
19	AS	37	ARG
19	AS	43	GLU
19	AS	60	VAL
19	AS	79	THR
20	AT	10	LEU
20	AT	13	LEU
20	AT	26	ASN
20	AT	27	LYS
20	AT	36	LEU
20	AT	93	GLU
21	AU	25	LYS
24	AY	6	LEU
24	AY	28	GLU

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Mol	Chain	Res	Type
24	AY	29	LEU
24	AY	32	ARG
24	AY	38	LEU
24	AY	41	ASP
24	AY	43	GLU
24	AY	62	PHE
24	AY	73	LEU
24	AY	78	GLU
24	AY	82	GLU
24	AY	83	GLU
24	AY	92	GLU
24	AY	110	PRO
24	AY	128	GLU
24	AY	146	ARG
24	AY	165	ASP
24	AY	174	GLU
24	AY	189	LEU
24	AY	211	ILE
24	AY	229	ILE
24	AY	231	VAL
24	AY	240	GLN
24	AY	254	LEU
24	AY	258	ILE
24	AY	259	THR
24	AY	279	LEU
24	AY	283	LEU
24	AY	310	GLN
24	AY	314	TYR
24	AY	344	LEU
24	AY	355	ARG
25	B0	14	ARG
25	B0	20	ARG
25	B0	75	LEU
25	B0	80	HIS
26	B1	5	CYS
26	B1	41	ARG
26	B1	46	LEU
26	B1	56	GLN
26	B1	59	THR
26	B1	73	LEU
26	B1	88	LYS
26	B1	89	GLU

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Mol	Chain	Res	Type
26	B1	94	LEU
27	B2	2	LYS
27	B2	3	LEU
27	B2	7	ARG
27	B2	24	LEU
27	B2	35	LEU
27	B2	47	ASN
27	B2	52	ASP
27	B2	53	LEU
27	B2	61	LEU
27	B2	62	THR
28	B3	8	LEU
28	B3	13	ILE
28	B3	16	PRO
28	B3	50	VAL
28	B3	58	VAL
29	B4	51	TYR
29	B4	64	LYS
30	B5	3	LYS
30	B5	4	HIS
30	B5	25	LEU
30	B5	51	TYR
30	B5	56	LYS
30	B5	60	VAL
31	B6	10	LEU
31	B6	12	GLU
31	B6	18	ARG
31	B6	28	ARG
31	B6	30	THR
31	B6	31	PRO
31	B6	33	LYS
31	B6	36	LEU
31	B6	37	ARG
31	B6	41	PRO
31	B6	48	VAL
32	B7	4	THR
32	B7	8	ASN
33	B8	15	LYS
33	B8	23	VAL
33	B8	30	ARG
33	B8	32	LEU
33	B8	33	ASN

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Mol	Chain	Res	Type
33	B8	34	TRP
33	B8	40	GLU
33	B8	47	LYS
33	B8	49	VAL
33	B8	58	ILE
33	B8	59	LYS
33	B8	61	LEU
33	B8	64	TYR
34	B9	2	LYS
34	B9	17	ILE
34	B9	26	ILE
34	B9	28	GLU
34	B9	29	ASN
37	BC	36	LYS
37	BC	44	HIS
37	BC	56	GLN
37	BC	59	ARG
37	BC	64	LEU
37	BC	77	ILE
38	BD	10	THR
38	BD	28	GLU
38	BD	33	LEU
38	BD	44	ASN
38	BD	69	ARG
38	BD	82	ILE
38	BD	89	SER
38	BD	94	LEU
38	BD	95	LEU
38	BD	103	ARG
38	BD	111	LEU
38	BD	125	ILE
38	BD	126	GLN
38	BD	150	LYS
38	BD	166	GLN
38	BD	175	LEU
38	BD	237	GLU
38	BD	242	ARG
38	BD	246	PRO
38	BD	257	LEU
38	BD	259	THR
38	BD	261	LYS
39	BE	9	VAL

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Mol	Chain	Res	Type
39	BE	12	THR
39	BE	25	VAL
39	BE	33	VAL
39	BE	40	GLU
39	BE	49	LEU
39	BE	55	ASN
39	BE	57	LYS
39	BE	64	LYS
39	BE	66	HIS
39	BE	67	PHE
39	BE	78	LEU
39	BE	79	ARG
39	BE	83	ASP
39	BE	86	PRO
39	BE	93	VAL
39	BE	116	VAL
39	BE	119	ARG
39	BE	129	HIS
39	BE	132	HIS
39	BE	134	ILE
39	BE	144	ARG
39	BE	147	PRO
39	BE	152	LYS
39	BE	154	LYS
39	BE	182	LEU
39	BE	184	VAL
39	BE	189	PRO
39	BE	197	ILE
39	BE	202	LYS
39	BE	203	LYS
40	BF	4	VAL
40	BF	23	ASP
40	BF	24	LEU
40	BF	32	LEU
40	BF	33	LEU
40	BF	57	VAL
40	BF	67	GLN
40	BF	74	ARG
40	BF	83	PHE
40	BF	84	VAL
40	BF	88	VAL
40	BF	110	LEU

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Mol	Chain	Res	Type
40	BF	112	MET
40	BF	117	ARG
40	BF	127	GLU
40	BF	170	LEU
40	BF	175	THR
40	BF	179	GLU
40	BF	192	LEU
40	BF	197	ASP
40	BF	201	VAL
40	BF	205	ARG
41	BG	5	VAL
41	BG	15	VAL
41	BG	21	ARG
41	BG	22	ARG
41	BG	38	VAL
41	BG	60	LEU
41	BG	63	ILE
41	BG	82	LEU
41	BG	83	ARG
41	BG	87	PRO
41	BG	101	ILE
41	BG	107	LEU
41	BG	114	ILE
41	BG	116	ASP
41	BG	132	ASN
41	BG	133	LEU
41	BG	136	ARG
41	BG	138	GLN
41	BG	140	ILE
41	BG	147	ASP
41	BG	157	ILE
42	BH	13	LYS
42	BH	29	PRO
42	BH	45	VAL
42	BH	72	ILE
42	BH	83	TYR
42	BH	86	GLU
42	BH	89	ILE
42	BH	104	GLU
42	BH	153	LYS
42	BH	170	ARG
43	BI	4	ILE

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Mol	Chain	Res	Type
43	BI	35	LEU
43	BI	38	LEU
43	BI	40	THR
43	BI	86	THR
43	BI	87	LYS
43	BI	109	ILE
43	BI	110	ASP
43	BI	134	PRO
45	BK	23	VAL
45	BK	62	ASP
45	BK	67	PHE
45	BK	86	LYS
45	BK	95	LYS
45	BK	102	GLU
45	BK	120	LEU
45	BK	121	GLU
46	BN	1	MET
46	BN	19	GLU
46	BN	23	LEU
46	BN	25	ARG
46	BN	26	LEU
46	BN	28	THR
46	BN	32	THR
46	BN	34	LEU
46	BN	35	ARG
46	BN	37	LYS
46	BN	41	ASP
46	BN	48	MET
46	BN	56	ASN
46	BN	60	ILE
46	BN	78	TYR
46	BN	87	LEU
46	BN	89	LYS
46	BN	99	LEU
46	BN	108	PRO
46	BN	119	ARG
46	BN	120	LEU
47	BO	24	VAL
47	BO	47	ILE
47	BO	48	PRO
47	BO	53	LYS
47	BO	69	ILE

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Mol	Chain	Res	Type
47	BO	89	ASN
47	BO	98	VAL
47	BO	102	VAL
47	BO	105	GLU
48	BP	13	ASN
48	BP	18	ARG
48	BP	27	HIS
48	BP	32	THR
48	BP	39	LYS
48	BP	42	SER
48	BP	45	LEU
48	BP	49	ARG
48	BP	50	ARG
48	BP	52	GLU
48	BP	55	ARG
48	BP	57	THR
48	BP	61	ARG
48	BP	62	LEU
48	BP	67	MET
48	BP	70	GLN
48	BP	75	ILE
48	BP	81	GLN
48	BP	85	LEU
48	BP	92	GLU
48	BP	105	LEU
48	BP	106	LEU
48	BP	112	LEU
48	BP	119	GLU
48	BP	130	PHE
48	BP	135	LEU
48	BP	147	LEU
48	BP	148	LEU
48	BP	149	GLU
49	BQ	21	THR
49	BQ	26	TYR
49	BQ	27	VAL
49	BQ	45	GLN
49	BQ	52	VAL
49	BQ	54	MET
49	BQ	55	VAL
49	BQ	56	ARG
49	BQ	58	PHE

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Mol	Chain	Res	Type
49	BQ	59	ARG
49	BQ	75	THR
49	BQ	79	LEU
49	BQ	81	VAL
49	BQ	89	ASN
49	BQ	96	VAL
49	BQ	110	THR
49	BQ	132	VAL
50	BR	2	ARG
50	BR	6	SER
50	BR	12	ARG
50	BR	17	ARG
50	BR	18	LEU
50	BR	28	LEU
50	BR	29	LEU
50	BR	30	THR
50	BR	37	THR
50	BR	44	LEU
50	BR	48	VAL
50	BR	59	ASP
50	BR	73	VAL
50	BR	74	LYS
50	BR	77	ARG
50	BR	79	LEU
50	BR	104	ARG
50	BR	117	VAL
50	BR	118	GLU
51	BS	11	LYS
51	BS	12	PHE
51	BS	18	ILE
51	BS	26	LEU
51	BS	36	TYR
51	BS	41	ASP
51	BS	43	GLU
51	BS	48	LEU
51	BS	56	LEU
51	BS	73	LEU
51	BS	89	ARG
51	BS	92	TYR
51	BS	97	ARG
51	BS	101	LEU
51	BS	106	ARG

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Mol	Chain	Res	Type
52	BT	13	ARG
52	BT	14	TYR
52	BT	16	ARG
52	BT	24	PRO
52	BT	30	VAL
52	BT	42	ILE
52	BT	44	ASP
52	BT	50	ILE
52	BT	58	ASN
52	BT	59	THR
52	BT	63	VAL
52	BT	73	GLU
52	BT	87	ASP
52	BT	99	LEU
52	BT	108	ARG
52	BT	113	LYS
52	BT	118	ARG
52	BT	121	ILE
52	BT	128	GLU
53	BU	8	VAL
53	BU	20	LEU
53	BU	27	LEU
53	BU	64	ARG
53	BU	89	GLU
53	BU	102	GLU
53	BU	108	GLU
54	BV	18	LEU
54	BV	19	LYS
54	BV	21	ARG
54	BV	22	VAL
54	BV	23	GLU
54	BV	39	LEU
54	BV	57	VAL
54	BV	61	VAL
54	BV	89	GLN
54	BV	91	TYR
54	BV	95	LEU
54	BV	99	ILE
55	BW	9	TYR
55	BW	11	ARG
55	BW	19	LEU
55	BW	50	VAL

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Mol	Chain	Res	Type
55	BW	51	LEU
55	BW	59	VAL
55	BW	65	LEU
55	BW	70	TYR
55	BW	76	VAL
55	BW	86	LEU
55	BW	96	ILE
55	BW	100	THR
55	BW	107	LEU
56	BX	27	THR
56	BX	28	PHE
56	BX	36	LYS
56	BX	37	THR
56	BX	57	LEU
56	BX	68	ARG
56	BX	76	ARG
56	BX	83	VAL
57	BY	5	MET
57	BY	7	VAL
57	BY	8	LYS
57	BY	15	VAL
57	BY	19	LYS
57	BY	28	LYS
57	BY	29	GLU
57	BY	38	ILE
57	BY	47	LYS
57	BY	49	VAL
57	BY	60	PHE
57	BY	62	GLU
57	BY	66	PRO
57	BY	77	PRO
57	BY	83	THR
57	BY	89	PHE
58	BZ	13	GLU
58	BZ	14	LYS
58	BZ	18	LEU
58	BZ	23	LYS
58	BZ	24	LEU
58	BZ	37	VAL
58	BZ	40	ASP
58	BZ	42	VAL
58	BZ	49	ARG

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Mol	Chain	Res	Type
58	BZ	53	ILE
58	BZ	55	HIS
58	BZ	70	LEU
58	BZ	76	LEU
58	BZ	79	ARG
58	BZ	80	ARG
58	BZ	88	PHE
58	BZ	97	GLU
58	BZ	102	LEU
58	BZ	119	GLU
58	BZ	126	VAL
58	BZ	132	ASN
58	BZ	145	GLU
58	BZ	150	LEU
58	BZ	154	ASP
58	BZ	155	LEU
58	BZ	168	GLU
2	CB	16	HIS
2	CB	17	PHE
2	CB	36	ARG
2	CB	39	ILE
2	CB	71	VAL
2	CB	80	ILE
2	CB	92	TYR
2	CB	103	THR
2	CB	140	HIS
2	CB	145	LEU
2	CB	164	VAL
2	CB	172	ILE
2	CB	178	ARG
3	CC	12	LEU
3	CC	16	ARG
3	CC	34	LEU
3	CC	38	ARG
3	CC	52	LEU
3	CC	82	GLU
3	CC	90	GLU
3	CC	131	ARG
3	CC	165	THR
4	CD	7	PRO
4	CD	9	CYS
4	CD	11	LEU

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Mol	Chain	Res	Type
4	CD	26	CYS
4	CD	29	PRO
4	CD	31	CYS
4	CD	49	ARG
4	CD	53	ASP
4	CD	58	LEU
4	CD	59	ARG
4	CD	68	TYR
4	CD	73	ARG
4	CD	97	LEU
4	CD	122	ARG
4	CD	132	ARG
4	CD	135	LEU
4	CD	140	VAL
4	CD	150	GLU
4	CD	188	LEU
4	CD	194	LEU
5	CE	6	PHE
5	CE	13	ILE
5	CE	16	THR
5	CE	20	GLN
5	CE	25	ARG
5	CE	28	PHE
5	CE	41	VAL
5	CE	47	LYS
5	CE	51	VAL
5	CE	64	ARG
5	CE	68	GLU
5	CE	79	GLU
5	CE	91	LEU
5	CE	98	THR
5	CE	101	ILE
5	CE	105	VAL
6	CF	10	LEU
6	CF	30	LEU
6	CF	73	ASN
6	CF	81	ILE
6	CF	82	ARG
6	CF	96	PRO
6	CF	98	LEU
7	CG	30	ILE
7	CG	50	ILE

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Mol	Chain	Res	Type
7	CG	57	GLU
7	CG	58	PRO
7	CG	87	VAL
7	CG	113	GLU
7	CG	118	VAL
7	CG	146	GLU
7	CG	148	ASN
7	CG	156	TRP
8	CH	1	MET
8	CH	3	THR
8	CH	4	ASP
8	CH	10	LEU
8	CH	26	VAL
8	CH	63	LEU
8	CH	85	ARG
8	CH	91	ARG
8	CH	102	ARG
8	CH	107	LEU
8	CH	119	LEU
8	CH	120	THR
8	CH	122	ARG
9	CI	4	TYR
9	CI	47	LEU
9	CI	78	LYS
9	CI	85	LEU
9	CI	89	ASN
9	CI	95	LYS
9	CI	102	LEU
9	CI	104	ARG
9	CI	108	VAL
9	CI	114	TYR
9	CI	128	ARG
10	CJ	40	LEU
10	CJ	49	VAL
10	CJ	50	ILE
10	CJ	57	LYS
10	CJ	62	HIS
10	CJ	67	THR
10	CJ	70	ARG
10	CJ	96	ILE
11	CK	21	ILE
11	CK	32	ILE

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Mol	Chain	Res	Type
11	CK	48	ILE
11	CK	82	VAL
11	CK	91	ARG
11	CK	125	PHE
12	CL	7	ILE
12	CL	37	CYS
12	CL	47	LYS
12	CL	48	PRO
12	CL	52	LEU
12	CL	127	GLU
13	CM	35	GLU
13	CM	47	ASP
13	CM	48	LEU
13	CM	56	LEU
13	CM	58	GLU
13	CM	65	LYS
13	CM	66	LEU
13	CM	69	GLU
13	CM	82	MET
13	CM	93	ARG
13	CM	108	ARG
13	CM	113	PRO
13	CM	115	LYS
14	CN	22	THR
14	CN	37	PHE
14	CN	41	ARG
15	CO	3	ILE
15	CO	14	GLU
15	CO	65	ARG
15	CO	82	ILE
16	CP	6	LEU
16	CP	21	VAL
16	CP	27	LYS
16	CP	29	ASP
16	CP	32	TYR
16	CP	34	GLU
16	CP	62	VAL
16	CP	67	THR
16	CP	82	GLN
17	CQ	38	ARG
17	CQ	52	LYS
17	CQ	74	LEU

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Mol	Chain	Res	Type
18	CR	31	LEU
18	CR	88	LYS
19	CS	6	LYS
19	CS	7	LYS
19	CS	15	LEU
19	CS	23	ASN
19	CS	37	ARG
19	CS	43	GLU
19	CS	60	VAL
19	CS	79	THR
20	CT	10	LEU
20	CT	13	LEU
20	CT	26	ASN
20	CT	27	LYS
20	CT	36	LEU
20	CT	93	GLU
21	CU	25	LYS
24	CY	10	LEU
24	CY	18	ASP
24	CY	28	GLU
24	CY	29	LEU
24	CY	31	ARG
24	CY	35	ASP
24	CY	55	LEU
24	CY	60	ASP
24	CY	82	GLU
24	CY	110	PRO
24	CY	113	GLU
24	CY	130	CYS
24	CY	132	TRP
24	CY	137	LEU
24	CY	138	ARG
24	CY	146	ARG
24	CY	155	ASP
24	CY	157	THR
24	CY	165	ASP
24	CY	174	GLU
24	CY	189	LEU
24	CY	208	VAL
24	CY	219	GLU
24	CY	222	LEU
24	CY	225	GLU

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Mol	Chain	Res	Type
24	CY	232	MET
24	CY	263	GLN
24	CY	274	LEU
24	CY	279	LEU
24	CY	287	GLU
24	CY	291	ARG
24	CY	304	PRO
24	CY	310	GLN
24	CY	319	ASN
24	CY	324	HIS
24	CY	326	THR
24	CY	328	LEU
24	CY	334	GLU
24	CY	338	ASP
24	CY	342	MET
24	CY	344	LEU
25	D0	14	ARG
25	D0	20	ARG
25	D0	75	LEU
25	D0	80	HIS
26	D1	3	LYS
26	D1	11	ARG
26	D1	21	ARG
26	D1	35	THR
26	D1	39	LYS
26	D1	46	LEU
26	D1	53	VAL
26	D1	58	ILE
26	D1	59	THR
26	D1	80	LEU
26	D1	88	LYS
26	D1	94	LEU
27	D2	2	LYS
27	D2	3	LEU
27	D2	53	LEU
27	D2	60	LEU
27	D2	61	LEU
27	D2	62	THR
27	D2	64	LEU
28	D3	8	LEU
28	D3	13	ILE
28	D3	16	PRO

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Mol	Chain	Res	Type
28	D3	50	VAL
28	D3	58	VAL
29	D4	51	TYR
29	D4	64	LYS
30	D5	3	LYS
30	D5	4	HIS
30	D5	25	LEU
30	D5	51	TYR
30	D5	56	LYS
30	D5	60	VAL
31	D6	10	LEU
31	D6	12	GLU
31	D6	18	ARG
31	D6	28	ARG
31	D6	30	THR
31	D6	31	PRO
31	D6	33	LYS
31	D6	36	LEU
31	D6	37	ARG
31	D6	41	PRO
31	D6	48	VAL
32	D7	4	THR
32	D7	8	ASN
33	D8	15	LYS
33	D8	23	VAL
33	D8	30	ARG
33	D8	32	LEU
33	D8	33	ASN
33	D8	34	TRP
33	D8	40	GLU
33	D8	47	LYS
33	D8	49	VAL
33	D8	58	ILE
33	D8	59	LYS
33	D8	61	LEU
33	D8	64	TYR
34	D9	2	LYS
34	D9	17	ILE
34	D9	26	ILE
34	D9	28	GLU
34	D9	29	ASN
37	DC	36	LYS

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Mol	Chain	Res	Type
37	DC	44	HIS
37	DC	56	GLN
37	DC	59	ARG
37	DC	64	LEU
37	DC	77	ILE
38	DD	10	THR
38	DD	28	GLU
38	DD	33	LEU
38	DD	44	ASN
38	DD	69	ARG
38	DD	82	ILE
38	DD	89	SER
38	DD	94	LEU
38	DD	95	LEU
38	DD	103	ARG
38	DD	111	LEU
38	DD	126	GLN
38	DD	150	LYS
38	DD	166	GLN
38	DD	175	LEU
38	DD	242	ARG
38	DD	245	PRO
38	DD	246	PRO
38	DD	257	LEU
38	DD	259	THR
38	DD	261	LYS
39	DE	9	VAL
39	DE	12	THR
39	DE	25	VAL
39	DE	33	VAL
39	DE	39	PRO
39	DE	40	GLU
39	DE	49	LEU
39	DE	55	ASN
39	DE	57	LYS
39	DE	64	LYS
39	DE	66	HIS
39	DE	67	PHE
39	DE	78	LEU
39	DE	79	ARG
39	DE	83	ASP
39	DE	86	PRO

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Mol	Chain	Res	Type
39	DE	93	VAL
39	DE	116	VAL
39	DE	119	ARG
39	DE	129	HIS
39	DE	132	HIS
39	DE	134	ILE
39	DE	144	ARG
39	DE	147	PRO
39	DE	152	LYS
39	DE	154	LYS
39	DE	182	LEU
39	DE	184	VAL
39	DE	189	PRO
39	DE	197	ILE
39	DE	202	LYS
39	DE	203	LYS
40	DF	4	VAL
40	DF	23	ASP
40	DF	24	LEU
40	DF	32	LEU
40	DF	33	LEU
40	DF	57	VAL
40	DF	67	GLN
40	DF	74	ARG
40	DF	83	PHE
40	DF	84	VAL
40	DF	88	VAL
40	DF	110	LEU
40	DF	112	MET
40	DF	127	GLU
40	DF	170	LEU
40	DF	175	THR
40	DF	179	GLU
40	DF	192	LEU
40	DF	197	ASP
40	DF	201	VAL
40	DF	205	ARG
41	DG	16	ARG
41	DG	21	ARG
41	DG	22	ARG
41	DG	26	GLN
41	DG	31	VAL

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Mol	Chain	Res	Type
41	DG	32	PRO
41	DG	39	ILE
41	DG	40	ASN
41	DG	45	GLU
41	DG	51	ARG
41	DG	60	LEU
41	DG	67	LYS
41	DG	79	ASN
41	DG	87	PRO
41	DG	101	ILE
41	DG	108	ASN
41	DG	128	ARG
41	DG	130	ASN
41	DG	155	MET
41	DG	156	ASP
41	DG	157	ILE
41	DG	174	GLU
42	DH	13	LYS
42	DH	29	PRO
42	DH	45	VAL
42	DH	72	ILE
42	DH	83	TYR
42	DH	86	GLU
42	DH	89	ILE
42	DH	104	GLU
42	DH	153	LYS
42	DH	170	ARG
59	DI	18	VAL
59	DI	38	LEU
59	DI	47	LEU
59	DI	75	LEU
59	DI	88	ILE
59	DI	107	ILE
59	DI	109	ILE
59	DI	114	LEU
59	DI	134	PRO
45	DK	23	VAL
45	DK	62	ASP
45	DK	67	PHE
45	DK	86	LYS
45	DK	95	LYS
45	DK	102	GLU

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Mol	Chain	Res	Type
45	DK	120	LEU
45	DK	121	GLU
46	DN	1	MET
46	DN	19	GLU
46	DN	23	LEU
46	DN	25	ARG
46	DN	26	LEU
46	DN	28	THR
46	DN	32	THR
46	DN	34	LEU
46	DN	35	ARG
46	DN	37	LYS
46	DN	41	ASP
46	DN	48	MET
46	DN	60	ILE
46	DN	78	TYR
46	DN	87	LEU
46	DN	89	LYS
46	DN	108	PRO
46	DN	119	ARG
46	DN	120	LEU
47	DO	24	VAL
47	DO	47	ILE
47	DO	53	LYS
47	DO	69	ILE
47	DO	88	ASN
47	DO	89	ASN
47	DO	98	VAL
47	DO	105	GLU
48	DP	13	ASN
48	DP	18	ARG
48	DP	27	HIS
48	DP	32	THR
48	DP	39	LYS
48	DP	42	SER
48	DP	45	LEU
48	DP	49	ARG
48	DP	50	ARG
48	DP	52	GLU
48	DP	55	ARG
48	DP	57	THR
48	DP	61	ARG

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Mol	Chain	Res	Type
48	DP	62	LEU
48	DP	67	MET
48	DP	70	GLN
48	DP	75	ILE
48	DP	81	GLN
48	DP	85	LEU
48	DP	92	GLU
48	DP	105	LEU
48	DP	106	LEU
48	DP	112	LEU
48	DP	119	GLU
48	DP	130	PHE
48	DP	135	LEU
48	DP	147	LEU
48	DP	148	LEU
48	DP	149	GLU
49	DQ	21	THR
49	DQ	26	TYR
49	DQ	27	VAL
49	DQ	45	GLN
49	DQ	52	VAL
49	DQ	54	MET
49	DQ	55	VAL
49	DQ	56	ARG
49	DQ	58	PHE
49	DQ	59	ARG
49	DQ	75	THR
49	DQ	79	LEU
49	DQ	81	VAL
49	DQ	89	ASN
49	DQ	96	VAL
49	DQ	110	THR
49	DQ	132	VAL
50	DR	2	ARG
50	DR	12	ARG
50	DR	17	ARG
50	DR	18	LEU
50	DR	28	LEU
50	DR	29	LEU
50	DR	30	THR
50	DR	37	THR
50	DR	44	LEU

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Mol	Chain	Res	Type
50	DR	48	VAL
50	DR	59	ASP
50	DR	71	GLN
50	DR	73	VAL
50	DR	74	LYS
50	DR	77	ARG
50	DR	79	LEU
50	DR	104	ARG
50	DR	117	VAL
50	DR	118	GLU
51	DS	11	LYS
51	DS	12	PHE
51	DS	18	ILE
51	DS	26	LEU
51	DS	36	TYR
51	DS	41	ASP
51	DS	43	GLU
51	DS	48	LEU
51	DS	56	LEU
51	DS	73	LEU
51	DS	89	ARG
51	DS	92	TYR
51	DS	97	ARG
51	DS	101	LEU
51	DS	106	ARG
52	DT	13	ARG
52	DT	14	TYR
52	DT	16	ARG
52	DT	24	PRO
52	DT	30	VAL
52	DT	42	ILE
52	DT	44	ASP
52	DT	50	ILE
52	DT	58	ASN
52	DT	59	THR
52	DT	63	VAL
52	DT	73	GLU
52	DT	87	ASP
52	DT	99	LEU
52	DT	108	ARG
52	DT	113	LYS
52	DT	118	ARG

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Mol	Chain	Res	Type
52	DT	121	ILE
52	DT	128	GLU
53	DU	8	VAL
53	DU	20	LEU
53	DU	27	LEU
53	DU	64	ARG
53	DU	89	GLU
53	DU	102	GLU
53	DU	108	GLU
54	DV	18	LEU
54	DV	19	LYS
54	DV	21	ARG
54	DV	22	VAL
54	DV	23	GLU
54	DV	39	LEU
54	DV	57	VAL
54	DV	61	VAL
54	DV	89	GLN
54	DV	91	TYR
54	DV	95	LEU
54	DV	99	ILE
55	DW	9	TYR
55	DW	11	ARG
55	DW	19	LEU
55	DW	50	VAL
55	DW	51	LEU
55	DW	59	VAL
55	DW	65	LEU
55	DW	70	TYR
55	DW	76	VAL
55	DW	86	LEU
55	DW	96	ILE
55	DW	100	THR
55	DW	107	LEU
56	DX	27	THR
56	DX	28	PHE
56	DX	36	LYS
56	DX	37	THR
56	DX	57	LEU
56	DX	68	ARG
56	DX	76	ARG
56	DX	83	VAL

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Mol	Chain	Res	Type
57	DY	5	MET
57	DY	7	VAL
57	DY	8	LYS
57	DY	15	VAL
57	DY	19	LYS
57	DY	28	LYS
57	DY	29	GLU
57	DY	38	ILE
57	DY	47	LYS
57	DY	49	VAL
57	DY	60	PHE
57	DY	62	GLU
57	DY	66	PRO
57	DY	77	PRO
57	DY	83	THR
57	DY	89	PHE
58	DZ	3	TYR
58	DZ	4	ARG
58	DZ	5	LEU
58	DZ	8	TYR
58	DZ	11	GLU
58	DZ	13	GLU
58	DZ	19	ARG
58	DZ	24	LEU
58	DZ	30	ASN
58	DZ	35	ARG
58	DZ	37	VAL
58	DZ	39	VAL
58	DZ	41	LEU
58	DZ	53	ILE
58	DZ	61	LEU
58	DZ	72	ARG
58	DZ	79	ARG
58	DZ	80	ARG
58	DZ	91	LEU
58	DZ	98	MET
58	DZ	99	TYR
58	DZ	105	VAL
58	DZ	118	GLN
58	DZ	119	GLU
58	DZ	121	HIS
58	DZ	149	SER

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Mol	Chain	Res	Type
58	DZ	150	LEU
58	DZ	157	LEU
58	DZ	175	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (344) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	78	GLN
2	AB	94	ASN
2	AB	110	GLN
2	AB	135	GLN
2	AB	146	GLN
2	AB	204	ASN
3	AC	28	GLN
3	AC	31	HIS
3	AC	104	GLN
3	AC	170	GLN
3	AC	181	ASN
4	AD	42	GLN
4	AD	62	GLN
4	AD	74	GLN
4	AD	77	ASN
4	AD	201	GLN
5	AE	20	GLN
5	AE	73	ASN
5	AE	78	HIS
6	AF	7	ASN
6	AF	18	GLN
6	AF	32	ASN
6	AF	100	ASN
7	AG	84	ASN
7	AG	96	GLN
7	AG	106	GLN
7	AG	109	ASN
7	AG	110	GLN
7	AG	148	ASN
8	AH	70	GLN
8	AH	82	HIS
9	AI	23	ASN
9	AI	29	ASN
9	AI	38	GLN

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Mol	Chain	Res	Type
9	AI	87	GLN
9	AI	117	HIS
9	AI	124	GLN
10	AJ	13	HIS
10	AJ	56	HIS
10	AJ	76	ASN
10	AJ	78	ASN
11	AK	13	GLN
11	AK	38	ASN
11	AK	117	ASN
12	AL	49	ASN
12	AL	75	HIS
13	AM	92	HIS
13	AM	101	GLN
15	AO	37	ASN
15	AO	71	GLN
16	AP	13	HIS
16	AP	14	ASN
16	AP	82	GLN
17	AQ	16	GLN
17	AQ	93	GLN
18	AR	36	ASN
19	AS	23	ASN
19	AS	57	HIS
19	AS	69	HIS
20	AT	16	HIS
20	AT	26	ASN
20	AT	73	HIS
24	AY	40	ASN
24	AY	115	ASN
24	AY	147	GLN
24	AY	175	ASN
24	AY	187	HIS
24	AY	243	ASN
24	AY	263	GLN
24	AY	319	ASN
25	B0	12	ASN
25	B0	29	GLN
25	B0	35	ASN
25	B0	50	ASN
25	B0	70	GLN
26	B1	45	ASN

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Mol	Chain	Res	Type
26	B1	56	GLN
27	B2	38	GLN
27	B2	56	GLN
27	B2	65	ASN
28	B3	19	GLN
28	B3	46	ASN
28	B3	52	HIS
29	B4	46	ASN
30	B5	4	HIS
30	B5	23	HIS
30	B5	43	HIS
31	B6	20	ASN
31	B6	26	ASN
31	B6	32	ASN
32	B7	8	ASN
33	B8	33	ASN
34	B9	29	ASN
34	B9	34	GLN
38	BD	58	HIS
38	BD	116	GLN
38	BD	126	GLN
38	BD	166	GLN
38	BD	186	HIS
38	BD	201	HIS
38	BD	227	ASN
38	BD	253	GLN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	66	HIS
39	BE	121	ASN
39	BE	129	HIS
39	BE	143	ASN
39	BE	169	ASN
39	BE	192	ASN
40	BF	31	HIS
40	BF	69	HIS
40	BF	160	ASN
40	BF	169	ASN
41	BG	27	ASN
41	BG	40	ASN
41	BG	41	GLN

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Mol	Chain	Res	Type
41	BG	66	GLN
41	BG	132	ASN
42	BH	65	HIS
42	BH	111	HIS
42	BH	139	GLN
42	BH	147	ASN
43	BI	11	ASN
43	BI	17	GLN
45	BK	11	GLN
45	BK	29	GLN
45	BK	89	HIS
45	BK	116	ASN
46	BN	56	ASN
46	BN	130	HIS
47	BO	13	ASN
47	BO	82	ASN
48	BP	9	ASN
48	BP	13	ASN
48	BP	38	GLN
48	BP	81	GLN
49	BQ	12	GLN
49	BQ	13	GLN
49	BQ	45	GLN
49	BQ	141	GLN
50	BR	3	HIS
50	BR	13	HIS
50	BR	16	HIS
50	BR	23	ASN
50	BR	71	GLN
51	BS	16	ASN
51	BS	34	HIS
51	BS	68	GLN
52	BT	43	GLN
52	BT	58	ASN
52	BT	84	GLN
52	BT	90	GLN
52	BT	123	GLN
53	BU	14	HIS
53	BU	49	HIS
53	BU	81	HIS
53	BU	94	ASN
53	BU	104	GLN

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Mol	Chain	Res	Type
54	BV	11	GLN
55	BW	34	ASN
55	BW	40	ASN
55	BW	57	ASN
55	BW	61	ASN
56	BX	55	ASN
56	BX	82	GLN
56	BX	87	GLN
58	BZ	34	ASN
58	BZ	54	HIS
58	BZ	65	GLN
58	BZ	75	ASN
58	BZ	118	GLN
58	BZ	132	ASN
2	CB	37	ASN
2	CB	78	GLN
2	CB	94	ASN
2	CB	110	GLN
2	CB	135	GLN
2	CB	146	GLN
2	CB	204	ASN
3	CC	28	GLN
3	CC	31	HIS
3	CC	104	GLN
3	CC	170	GLN
3	CC	181	ASN
4	CD	42	GLN
4	CD	62	GLN
4	CD	74	GLN
4	CD	77	ASN
4	CD	201	GLN
5	CE	20	GLN
5	CE	73	ASN
6	CF	7	ASN
6	CF	18	GLN
6	CF	32	ASN
6	CF	100	ASN
7	CG	84	ASN
7	CG	96	GLN
7	CG	97	GLN
7	CG	106	GLN
7	CG	109	ASN

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Mol	Chain	Res	Type
7	CG	110	GLN
7	CG	148	ASN
8	CH	70	GLN
8	CH	82	HIS
9	CI	23	ASN
9	CI	29	ASN
9	CI	38	GLN
9	CI	87	GLN
9	CI	117	HIS
9	CI	124	GLN
10	CJ	56	HIS
10	CJ	76	ASN
10	CJ	78	ASN
11	CK	13	GLN
11	CK	117	ASN
12	CL	49	ASN
12	CL	75	HIS
13	CM	77	ASN
13	CM	92	HIS
13	CM	101	GLN
15	CO	37	ASN
15	CO	71	GLN
16	CP	13	HIS
16	CP	82	GLN
17	CQ	16	GLN
17	CQ	93	GLN
18	CR	36	ASN
19	CS	23	ASN
19	CS	69	HIS
20	CT	16	HIS
20	CT	26	ASN
20	CT	73	HIS
24	CY	50	GLN
24	CY	104	GLN
24	CY	115	ASN
24	CY	121	GLN
24	CY	147	GLN
24	CY	175	ASN
24	CY	187	HIS
24	CY	243	ASN
24	CY	268	GLN
24	CY	319	ASN

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Mol	Chain	Res	Type
24	CY	331	HIS
24	CY	335	ASN
25	D0	12	ASN
25	D0	29	GLN
25	D0	35	ASN
25	D0	70	GLN
26	D1	45	ASN
27	D2	9	GLN
27	D2	38	GLN
27	D2	47	ASN
28	D3	19	GLN
28	D3	46	ASN
28	D3	52	HIS
29	D4	46	ASN
30	D5	4	HIS
30	D5	23	HIS
30	D5	43	HIS
31	D6	20	ASN
31	D6	26	ASN
31	D6	32	ASN
32	D7	8	ASN
33	D8	33	ASN
34	D9	29	ASN
34	D9	34	GLN
38	DD	58	HIS
38	DD	116	GLN
38	DD	126	GLN
38	DD	166	GLN
38	DD	186	HIS
38	DD	201	HIS
38	DD	227	ASN
38	DD	253	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	66	HIS
39	DE	129	HIS
39	DE	143	ASN
39	DE	169	ASN
39	DE	192	ASN
40	DF	29	ASN
40	DF	31	HIS

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Mol	Chain	Res	Type
40	DF	69	HIS
40	DF	160	ASN
40	DF	169	ASN
41	DG	40	ASN
41	DG	79	ASN
42	DH	65	HIS
42	DH	111	HIS
42	DH	147	ASN
45	DK	11	GLN
45	DK	29	GLN
45	DK	89	HIS
45	DK	116	ASN
46	DN	56	ASN
46	DN	94	HIS
46	DN	128	HIS
46	DN	131	GLN
47	DO	13	ASN
47	DO	82	ASN
48	DP	13	ASN
48	DP	38	GLN
48	DP	81	GLN
49	DQ	12	GLN
49	DQ	13	GLN
49	DQ	45	GLN
50	DR	3	HIS
50	DR	13	HIS
50	DR	16	HIS
50	DR	23	ASN
50	DR	71	GLN
51	DS	16	ASN
51	DS	34	HIS
51	DS	68	GLN
52	DT	43	GLN
52	DT	58	ASN
52	DT	84	GLN
52	DT	90	GLN
52	DT	123	GLN
53	DU	14	HIS
53	DU	49	HIS
53	DU	71	GLN
53	DU	81	HIS
53	DU	94	ASN

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Mol	Chain	Res	Type
53	DU	104	GLN
54	DV	11	GLN
55	DW	34	ASN
55	DW	40	ASN
55	DW	57	ASN
55	DW	61	ASN
56	DX	41	ASN
56	DX	55	ASN
56	DX	82	GLN
58	DZ	30	ASN
58	DZ	34	ASN
58	DZ	50	GLN
58	DZ	73	GLN
58	DZ	75	ASN
58	DZ	118	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	223 (14%)	34 (2%)
1	CA	1503/1522 (98%)	218 (14%)	34 (2%)
22	AV	75/76 (98%)	17 (22%)	1 (1%)
22	AW	75/76 (98%)	15 (20%)	3 (4%)
22	CV	75/76 (98%)	18 (24%)	0
22	CW	75/76 (98%)	16 (21%)	4 (5%)
23	AX	7/8 (87%)	1 (14%)	1 (14%)
23	CX	7/8 (87%)	1 (14%)	0
35	BA	2885/2901 (99%)	521 (18%)	58 (2%)
35	DA	2885/2901 (99%)	522 (18%)	57 (1%)
36	BB	118/122 (96%)	15 (12%)	3 (2%)
36	DB	118/122 (96%)	14 (11%)	3 (2%)
All	All	9326/9410 (99%)	1581 (16%)	198 (2%)

All (1581) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C

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Mol	Chain	Res	Type
1	AA	48	C
1	AA	51	A
1	AA	59	A
1	AA	60	A
1	AA	61	G
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	84	U
1	AA	88	A
1	AA	89	C
1	AA	92	C
1	AA	111	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G
1	AA	129(A)	G
1	AA	131	C
1	AA	142	G
1	AA	144	G
1	AA	172	A
1	AA	182	U
1	AA	195	A
1	AA	197	A
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	220	G
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	275	G
1	AA	289	G
1	AA	306	G
1	AA	321	A
1	AA	329	A
1	AA	332	G
1	AA	352	C
1	AA	353	A

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Mol	Chain	Res	Type
1	AA	354	G
1	AA	358	U
1	AA	367	U
1	AA	368	U
1	AA	370	C
1	AA	373	A
1	AA	389	A
1	AA	390	C
1	AA	392	G
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	414	A
1	AA	421	U
1	AA	423	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	439	A
1	AA	452	A
1	AA	453	A
1	AA	482	A
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	499	A
1	AA	500	G
1	AA	508	C
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	547	A
1	AA	559	A
1	AA	561	U
1	AA	562	C

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Mol	Chain	Res	Type
1	AA	572	A
1	AA	573	A
1	AA	576	G
1	AA	577	G
1	AA	596	C
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	653	A
1	AA	665	A
1	AA	687	A
1	AA	688	G
1	AA	723	U
1	AA	749	C
1	AA	755	G
1	AA	793	U
1	AA	817	C
1	AA	818	G
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	859	A
1	AA	885	G
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	966	G
1	AA	967	C
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C

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Mol	Chain	Res	Type
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1001	A
1	AA	1004	A
1	AA	1026	G
1	AA	1030(B)	C
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1117	G
1	AA	1118	C
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1141	C
1	AA	1146	A
1	AA	1153	C
1	AA	1159	U
1	AA	1182	G
1	AA	1183	A
1	AA	1184	G
1	AA	1187	G
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G

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Mol	Chain	Res	Type
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	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1280	A
1	AA	1281	U
1	AA	1286	A
1	AA	1287	A
1	AA	1299	A
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1319	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1335	C
1	AA	1338	G
1	AA	1347	G
1	AA	1364	U
1	AA	1370	G
1	AA	1398	A
1	AA	1419	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1492	A
1	AA	1493	A
1	AA	1494	G
1	AA	1499	A
1	AA	1503	A
1	AA	1504	G

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Mol	Chain	Res	Type
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
22	AV	7	A
22	AV	17	C
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	22	G
22	AV	41	C
22	AV	42	C
22	AV	47	U
22	AV	48	C
22	AV	56	C
22	AV	63	G
22	AV	69	G
22	AV	72	C
22	AV	73	A
22	AV	75	C
22	AV	76	A
22	AW	9	A
22	AW	10	G
22	AW	16	U
22	AW	17	C
22	AW	18	G
22	AW	19	G
22	AW	21	A
22	AW	39	U
22	AW	40	C
22	AW	41	C
22	AW	42	C
22	AW	43	C
22	AW	52	G
22	AW	70	G
22	AW	71	G
23	AX	20	U
35	BA	10	G

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Mol	Chain	Res	Type
35	BA	28	A
35	BA	34	C
35	BA	45	C
35	BA	51	G
35	BA	55	G
35	BA	59	U
35	BA	61	G
35	BA	69	C
35	BA	71	A
35	BA	72	U
35	BA	75	G
35	BA	84	A
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	94	C
35	BA	99	U
35	BA	100	G
35	BA	102	G
35	BA	118	A
35	BA	119	A
35	BA	120	U
35	BA	139(A)	G
35	BA	140	G
35	BA	141	A
35	BA	142	A
35	BA	154	G
35	BA	154(A)	C
35	BA	157	U
35	BA	158	U
35	BA	175	G
35	BA	182	A
35	BA	196	A
35	BA	197	A
35	BA	199	A
35	BA	204	A
35	BA	205	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	228	A

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Mol	Chain	Res	Type
35	BA	229	A
35	BA	230	U
35	BA	248	G
35	BA	252	G
35	BA	261	G
35	BA	266	G
35	BA	271(J)	C
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(M)	G
35	BA	271(N)	U
35	BA	271(O)	C
35	BA	271(P)	C
35	BA	271(T)	C
35	BA	271(Y)	U
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	275	G
35	BA	279	C
35	BA	284	U
35	BA	286	C
35	BA	287	C
35	BA	311	A
35	BA	316	C
35	BA	329	G
35	BA	330	A
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	362	U
35	BA	363	G
35	BA	363(B)	G
35	BA	363(E)	U
35	BA	370	G
35	BA	371	A
35	BA	372	G
35	BA	386	G
35	BA	396	G
35	BA	405	U
35	BA	411	G
35	BA	412	A
35	BA	428	A

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Mol	Chain	Res	Type
35	BA	444	C
35	BA	448	U
35	BA	454	A
35	BA	456	C
35	BA	457	A
35	BA	470	A
35	BA	475	U
35	BA	481	G
35	BA	494	G
35	BA	495	G
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	528	A
35	BA	529	A
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	545	C
35	BA	548	A
35	BA	551	G
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	586	A
35	BA	588	U
35	BA	603	A
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614	U
35	BA	614(B)	G
35	BA	614(C)	A
35	BA	615	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	653	A
35	BA	654	A
35	BA	654(B)	C

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Mol	Chain	Res	Type
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(M)	C
35	BA	656	G
35	BA	686	G
35	BA	708	C
35	BA	722	A
35	BA	730	C
35	BA	740	U
35	BA	741	G
35	BA	753	C
35	BA	764	A
35	BA	765	G
35	BA	776	G
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	790	C
35	BA	792	G
35	BA	805	G
35	BA	812	C
35	BA	819	A
35	BA	827	U
35	BA	828	U
35	BA	830	G
35	BA	848	G
35	BA	856	C
35	BA	857	C
35	BA	859	G
35	BA	866	A
35	BA	878	A
35	BA	879	G
35	BA	886	C
35	BA	890	A
35	BA	896	A
35	BA	897	C
35	BA	910	A
35	BA	914	C
35	BA	915	C
35	BA	917	A
35	BA	926	A

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Mol	Chain	Res	Type
35	BA	932	G
35	BA	941	A
35	BA	945	A
35	BA	946	G
35	BA	958	U
35	BA	959	A
35	BA	961	C
35	BA	965	C
35	BA	974	G
35	BA	975	C
35	BA	975(A)	G
35	BA	983	A
35	BA	991	C
35	BA	996	A
35	BA	999	U
35	BA	1000	A
35	BA	1012	U
35	BA	1013	C
35	BA	1022	G
35	BA	1023	U
35	BA	1025	G
35	BA	1026	U
35	BA	1039	G
35	BA	1043	C
35	BA	1046	A
35	BA	1047	G
35	BA	1048	A
35	BA	1067	A
35	BA	1070	A
35	BA	1088	A
35	BA	1108	U
35	BA	1111	A
35	BA	1112	G
35	BA	1116	C
35	BA	1126	A
35	BA	1127	A
35	BA	1129	A
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1155	A
35	BA	1170	G

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Mol	Chain	Res	Type
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1177	A
35	BA	1195	G
35	BA	1204	A
35	BA	1205	U
35	BA	1211	U
35	BA	1220	A
35	BA	1221	C
35	BA	1241	A
35	BA	1250	G
35	BA	1253	A
35	BA	1256	G
35	BA	1271	G
35	BA	1272	A
35	BA	1281	G
35	BA	1286	A
35	BA	1300	U
35	BA	1301	A
35	BA	1314	C
35	BA	1319	G
35	BA	1321	A
35	BA	1329	U
35	BA	1332	G
35	BA	1345	C
35	BA	1349	A
35	BA	1352	U
35	BA	1359	A
35	BA	1368	G
35	BA	1379	A
35	BA	1384	A
35	BA	1385	G
35	BA	1407	C
35	BA	1416	G
35	BA	1417	C
35	BA	1420	U
35	BA	1427	A
35	BA	1428	C
35	BA	1437	C
35	BA	1445	A

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Mol	Chain	Res	Type
35	BA	1449	A
35	BA	1450	G
35	BA	1452	A
35	BA	1459	G
35	BA	1461	G
35	BA	1467	C
35	BA	1471	A
35	BA	1478	G
35	BA	1481	U
35	BA	1482	G
35	BA	1484	G
35	BA	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A
35	BA	1496	A
35	BA	1497	U
35	BA	1498	C
35	BA	1502	C
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1512	U
35	BA	1520	G
35	BA	1528(A)	A
35	BA	1529	G
35	BA	1532	C
35	BA	1533	G
35	BA	1543	C
35	BA	1547	C
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1566	A
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1587	A

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Mol	Chain	Res	Type
35	BA	1588	C
35	BA	1591	G
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1616	A
35	BA	1617	C
35	BA	1618	A
35	BA	1640	C
35	BA	1648	C
35	BA	1653	G
35	BA	1654	A
35	BA	1674	G
35	BA	1686	C
35	BA	1700	A
35	BA	1701	A
35	BA	1718	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1744	C
35	BA	1746	G
35	BA	1748	G
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1782	C
35	BA	1785	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1816	G
35	BA	1820	U
35	BA	1829	A
35	BA	1835	G
35	BA	1838	C
35	BA	1839	G
35	BA	1847	A
35	BA	1858	G
35	BA	1865	G

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Mol	Chain	Res	Type
35	BA	1866	C
35	BA	1877	A
35	BA	1878	G
35	BA	1880	C
35	BA	1882	C
35	BA	1885	A
35	BA	1888	G
35	BA	1900	A
35	BA	1906	G
35	BA	1912	A
35	BA	1913	A
35	BA	1914	C
35	BA	1929	G
35	BA	1930	G
35	BA	1936	A
35	BA	1938	A
35	BA	1939	U
35	BA	1940	U
35	BA	1941	C
35	BA	1955	U
35	BA	1963	U
35	BA	1967	C
35	BA	1969	A
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1982	C
35	BA	1993	U
35	BA	2020	A
35	BA	2023	G
35	BA	2031	A
35	BA	2032	G
35	BA	2033	A
35	BA	2036	C
35	BA	2037	G
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2059	A
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A

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Mol	Chain	Res	Type
35	BA	2069	G
35	BA	2092	U
35	BA	2093	G
35	BA	2103	C
35	BA	2104	G
35	BA	2116	G
35	BA	2117	A
35	BA	2120	G
35	BA	2122	U
35	BA	2127	G
35	BA	2131	G
35	BA	2133	G
35	BA	2147	G
35	BA	2172	U
35	BA	2173	A
35	BA	2175	C
35	BA	2176	A
35	BA	2179	C
35	BA	2185	C
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2192	G
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2207	G
35	BA	2208	A
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2243	U
35	BA	2263	C
35	BA	2264	C
35	BA	2275	C
35	BA	2283	C
35	BA	2287	A
35	BA	2289	G
35	BA	2290	G

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Mol	Chain	Res	Type
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2325	G
35	BA	2336	A
35	BA	2345	G
35	BA	2347	C
35	BA	2349	G
35	BA	2350	C
35	BA	2383	G
35	BA	2385	C
35	BA	2402	C
35	BA	2403	C
35	BA	2406	U
35	BA	2423	U
35	BA	2425	A
35	BA	2429	G
35	BA	2430	A
35	BA	2439	A
35	BA	2440	C
35	BA	2441	C
35	BA	2448	A
35	BA	2468	G
35	BA	2469	A
35	BA	2470	G
35	BA	2475	C
35	BA	2476	A
35	BA	2482	G
35	BA	2484	G
35	BA	2491	U
35	BA	2502	G
35	BA	2505	G
35	BA	2506	U
35	BA	2518	A
35	BA	2520	C
35	BA	2523	G
35	BA	2529	G
35	BA	2534	A

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Mol	Chain	Res	Type
35	BA	2542	A
35	BA	2543	G
35	BA	2554	U
35	BA	2566	A
35	BA	2567	G
35	BA	2569	G
35	BA	2573	C
35	BA	2574	G
35	BA	2585	U
35	BA	2586	C
35	BA	2602	A
35	BA	2612	C
35	BA	2614	A
35	BA	2615	U
35	BA	2630	G
35	BA	2654	A
35	BA	2655	G
35	BA	2673	G
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2714	G
35	BA	2720	U
35	BA	2726	U
35	BA	2733	A
35	BA	2748	A
35	BA	2754	U
35	BA	2755	C
35	BA	2757	A
35	BA	2759	G
35	BA	2765	A
35	BA	2778	A
35	BA	2781	A
35	BA	2787	C
35	BA	2789	C
35	BA	2790	A
35	BA	2802	G
35	BA	2803	C

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Mol	Chain	Res	Type
35	BA	2804	C
35	BA	2808	U
35	BA	2820	A
35	BA	2821	A
35	BA	2823	A
35	BA	2827	C
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2849	U
35	BA	2872	G
35	BA	2873	A
35	BA	2874	C
35	BA	2879	C
35	BA	2892	A
35	BA	2893	G
36	BB	8	U
36	BB	12	C
36	BB	13	A
36	BB	27	C
36	BB	33	G
36	BB	42	C
36	BB	45	A
36	BB	52	A
36	BB	53	A
36	BB	57	A
36	BB	67	G
36	BB	73	A
36	BB	85	G
36	BB	86	G
36	BB	110	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	59	A
1	CA	60	A
1	CA	61	G
1	CA	79	G

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Mol	Chain	Res	Type
1	CA	80	G
1	CA	81	U
1	CA	84	U
1	CA	88	A
1	CA	89	C
1	CA	92	C
1	CA	111	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	122	G
1	CA	129(A)	G
1	CA	131	C
1	CA	142	G
1	CA	144	G
1	CA	172	A
1	CA	182	U
1	CA	195	A
1	CA	197	A
1	CA	203	U
1	CA	204	U
1	CA	216	G
1	CA	220	G
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	275	G
1	CA	289	G
1	CA	306	G
1	CA	321	A
1	CA	329	A
1	CA	332	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	358	U
1	CA	367	U
1	CA	368	U
1	CA	370	C
1	CA	373	A

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Mol	Chain	Res	Type
1	CA	389	A
1	CA	390	C
1	CA	392	G
1	CA	397	A
1	CA	398	C
1	CA	412	A
1	CA	414	A
1	CA	421	U
1	CA	423	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	439	A
1	CA	452	A
1	CA	453	A
1	CA	482	A
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	499	A
1	CA	500	G
1	CA	508	C
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	518	C
1	CA	527	G
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	547	A
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	576	G
1	CA	577	G
1	CA	596	C
1	CA	630	G
1	CA	631	G

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Mol	Chain	Res	Type
1	CA	632	A
1	CA	653	A
1	CA	665	A
1	CA	687	A
1	CA	688	G
1	CA	723	U
1	CA	749	C
1	CA	755	G
1	CA	793	U
1	CA	817	C
1	CA	819	A
1	CA	828	A
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	859	A
1	CA	885	G
1	CA	902	G
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	966	G
1	CA	967	C
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1001	A
1	CA	1004	A
1	CA	1026	G
1	CA	1030(B)	C

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Mol	Chain	Res	Type
1	CA	1050	G
1	CA	1054	C
1	CA	1055	A
1	CA	1066	C
1	CA	1067	A
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1117	G
1	CA	1118	C
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1141	C
1	CA	1146	A
1	CA	1153	C
1	CA	1159	U
1	CA	1182	G
1	CA	1183	A
1	CA	1184	G
1	CA	1187	G
1	CA	1196	U
1	CA	1197	G
1	CA	1200	C
1	CA	1201	A
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1224	G
1	CA	1225	A
1	CA	1227	A
1	CA	1238	A
1	CA	1249	C

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Mol	Chain	Res	Type
1	CA	1256	A
1	CA	1257	U
1	CA	1280	A
1	CA	1281	U
1	CA	1286	A
1	CA	1287	A
1	CA	1299	A
1	CA	1301	U
1	CA	1302	U
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	1331	G
1	CA	1335	C
1	CA	1338	G
1	CA	1347	G
1	CA	1364	U
1	CA	1370	G
1	CA	1398	A
1	CA	1419	G
1	CA	1436	U
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1447	A
1	CA	1456	G
1	CA	1492	A
1	CA	1497	G
1	CA	1499	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
22	CV	3	C
22	CV	4	C
22	CV	17	C

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Mol	Chain	Res	Type
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	22	G
22	CV	37	A
22	CV	42	C
22	CV	45	U
22	CV	46	G
22	CV	47	U
22	CV	48	C
22	CV	63	G
22	CV	72	C
22	CV	75	C
22	CV	76	A
22	CW	9	A
22	CW	16	U
22	CW	17	C
22	CW	18	G
22	CW	19	G
22	CW	21	A
22	CW	22	G
22	CW	39	U
22	CW	40	C
22	CW	43	C
22	CW	48	C
22	CW	52	G
22	CW	58	A
22	CW	61	C
22	CW	70	G
22	CW	71	G
23	CX	24	A
35	DA	10	G
35	DA	28	A
35	DA	34	C
35	DA	45	C
35	DA	51	G
35	DA	55	G
35	DA	59	U
35	DA	61	G
35	DA	69	C
35	DA	71	A

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Mol	Chain	Res	Type
35	DA	72	U
35	DA	75	G
35	DA	84	A
35	DA	85	G
35	DA	88	G
35	DA	90	U
35	DA	94	C
35	DA	99	U
35	DA	100	G
35	DA	102	G
35	DA	118	A
35	DA	119	A
35	DA	120	U
35	DA	139(A)	G
35	DA	140	G
35	DA	141	A
35	DA	142	A
35	DA	154	G
35	DA	154(A)	C
35	DA	157	U
35	DA	158	U
35	DA	175	G
35	DA	181	A
35	DA	182	A
35	DA	196	A
35	DA	197	A
35	DA	199	A
35	DA	204	A
35	DA	205	G
35	DA	215	G
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	228	A
35	DA	229	A
35	DA	230	U
35	DA	248	G
35	DA	252	G
35	DA	261	G
35	DA	266	G
35	DA	271(J)	C
35	DA	271(K)	U

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Mol	Chain	Res	Type
35	DA	271(L)	U
35	DA	271(M)	G
35	DA	271(N)	U
35	DA	271(O)	C
35	DA	271(P)	C
35	DA	271(T)	C
35	DA	271(Y)	U
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	275	G
35	DA	279	C
35	DA	284	U
35	DA	286	C
35	DA	287	C
35	DA	311	A
35	DA	316	C
35	DA	329	G
35	DA	330	A
35	DA	352	G
35	DA	353	G
35	DA	356	G
35	DA	362	U
35	DA	363	G
35	DA	363(B)	G
35	DA	363(E)	U
35	DA	370	G
35	DA	371	A
35	DA	372	G
35	DA	386	G
35	DA	396	G
35	DA	405	U
35	DA	411	G
35	DA	412	A
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	454	A
35	DA	456	C
35	DA	457	A
35	DA	470	A
35	DA	475	U
35	DA	481	G

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Mol	Chain	Res	Type
35	DA	494	G
35	DA	495	G
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	528	A
35	DA	529	A
35	DA	531	C
35	DA	532	A
35	DA	533	G
35	DA	545	C
35	DA	548	A
35	DA	551	G
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	586	A
35	DA	588	U
35	DA	603	A
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614	U
35	DA	614(B)	G
35	DA	614(C)	A
35	DA	615	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	651	G
35	DA	653	A
35	DA	654	A
35	DA	654(B)	C
35	DA	654(I)	C
35	DA	654(J)	A
35	DA	654(K)	C
35	DA	654(M)	C
35	DA	656	G
35	DA	686	G
35	DA	708	C
35	DA	722	A

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Mol	Chain	Res	Type
35	DA	730	C
35	DA	740	U
35	DA	741	G
35	DA	753	C
35	DA	764	A
35	DA	765	G
35	DA	776	G
35	DA	782	A
35	DA	784	A
35	DA	785	G
35	DA	790	C
35	DA	792	G
35	DA	805	G
35	DA	812	C
35	DA	819	A
35	DA	827	U
35	DA	828	U
35	DA	830	G
35	DA	848	G
35	DA	856	C
35	DA	857	C
35	DA	859	G
35	DA	866	A
35	DA	878	A
35	DA	879	G
35	DA	886	C
35	DA	890	A
35	DA	896	A
35	DA	897	C
35	DA	910	A
35	DA	914	C
35	DA	915	C
35	DA	917	A
35	DA	926	A
35	DA	932	G
35	DA	941	A
35	DA	945	A
35	DA	946	G
35	DA	958	U
35	DA	959	A
35	DA	961	C
35	DA	965	C

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Mol	Chain	Res	Type
35	DA	974	G
35	DA	975	C
35	DA	975(A)	G
35	DA	983	A
35	DA	991	C
35	DA	996	A
35	DA	999	U
35	DA	1000	A
35	DA	1012	U
35	DA	1013	C
35	DA	1022	G
35	DA	1023	U
35	DA	1025	G
35	DA	1026	U
35	DA	1039	G
35	DA	1043	C
35	DA	1046	A
35	DA	1047	G
35	DA	1048	A
35	DA	1067	A
35	DA	1070	A
35	DA	1088	A
35	DA	1108	U
35	DA	1111	A
35	DA	1112	G
35	DA	1116	C
35	DA	1126	A
35	DA	1127	A
35	DA	1129	A
35	DA	1130	U
35	DA	1135	C
35	DA	1136	G
35	DA	1155	A
35	DA	1170	G
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1177	A
35	DA	1195	G
35	DA	1204	A
35	DA	1205	U

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Mol	Chain	Res	Type
35	DA	1211	U
35	DA	1220	A
35	DA	1221	C
35	DA	1241	A
35	DA	1250	G
35	DA	1253	A
35	DA	1256	G
35	DA	1271	G
35	DA	1272	A
35	DA	1281	G
35	DA	1286	A
35	DA	1300	U
35	DA	1301	A
35	DA	1314	C
35	DA	1319	G
35	DA	1321	A
35	DA	1329	U
35	DA	1332	G
35	DA	1345	C
35	DA	1349	A
35	DA	1352	U
35	DA	1359	A
35	DA	1368	G
35	DA	1379	A
35	DA	1384	A
35	DA	1385	G
35	DA	1407	C
35	DA	1416	G
35	DA	1417	C
35	DA	1420	U
35	DA	1427	A
35	DA	1428	C
35	DA	1437	C
35	DA	1445	A
35	DA	1449	A
35	DA	1450	G
35	DA	1452	A
35	DA	1459	G
35	DA	1461	G
35	DA	1467	C
35	DA	1471	A
35	DA	1478	G

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Mol	Chain	Res	Type
35	DA	1481	U
35	DA	1482	G
35	DA	1484	G
35	DA	1485	G
35	DA	1488	G
35	DA	1490	A
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1496	A
35	DA	1497	U
35	DA	1498	C
35	DA	1502	C
35	DA	1505	C
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1512	U
35	DA	1520	G
35	DA	1528(A)	A
35	DA	1529	G
35	DA	1532	C
35	DA	1533	G
35	DA	1543	C
35	DA	1547	C
35	DA	1554	A
35	DA	1558	A
35	DA	1559	G
35	DA	1566	A
35	DA	1569	A
35	DA	1578	U
35	DA	1579	A
35	DA	1584	C
35	DA	1586	A
35	DA	1587	A
35	DA	1588	C
35	DA	1591	G
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1616	A
35	DA	1617	C

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Mol	Chain	Res	Type
35	DA	1618	A
35	DA	1640	C
35	DA	1648	C
35	DA	1653	G
35	DA	1654	A
35	DA	1674	G
35	DA	1686	C
35	DA	1700	A
35	DA	1701	A
35	DA	1718	G
35	DA	1722	A
35	DA	1739	U
35	DA	1740	G
35	DA	1744	C
35	DA	1746	G
35	DA	1748	G
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1782	C
35	DA	1785	A
35	DA	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1816	G
35	DA	1820	U
35	DA	1829	A
35	DA	1835	G
35	DA	1838	C
35	DA	1839	G
35	DA	1847	A
35	DA	1858	G
35	DA	1865	G
35	DA	1866	C
35	DA	1877	A
35	DA	1878	G
35	DA	1880	C
35	DA	1882	C
35	DA	1885	A
35	DA	1888	G
35	DA	1900	A

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Mol	Chain	Res	Type
35	DA	1906	G
35	DA	1912	A
35	DA	1913	A
35	DA	1914	C
35	DA	1929	G
35	DA	1930	G
35	DA	1936	A
35	DA	1938	A
35	DA	1939	U
35	DA	1940	U
35	DA	1941	C
35	DA	1955	U
35	DA	1963	U
35	DA	1967	C
35	DA	1969	A
35	DA	1970	A
35	DA	1971	A
35	DA	1972	A
35	DA	1982	C
35	DA	1993	U
35	DA	2020	A
35	DA	2023	G
35	DA	2031	A
35	DA	2032	G
35	DA	2033	A
35	DA	2036	C
35	DA	2037	G
35	DA	2043	C
35	DA	2055	C
35	DA	2056	G
35	DA	2059	A
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2069	G
35	DA	2092	U
35	DA	2093	G
35	DA	2103	C
35	DA	2104	G
35	DA	2116	G
35	DA	2117	A
35	DA	2120	G

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Mol	Chain	Res	Type
35	DA	2122	U
35	DA	2127	G
35	DA	2131	G
35	DA	2133	G
35	DA	2147	G
35	DA	2172	U
35	DA	2173	A
35	DA	2175	C
35	DA	2176	A
35	DA	2179	C
35	DA	2185	C
35	DA	2187	G
35	DA	2189	U
35	DA	2190	G
35	DA	2192	G
35	DA	2193	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2207	G
35	DA	2208	A
35	DA	2219	G
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2243	U
35	DA	2263	C
35	DA	2275	C
35	DA	2283	C
35	DA	2287	A
35	DA	2289	G
35	DA	2290	G
35	DA	2305	A
35	DA	2307	G
35	DA	2308	G
35	DA	2309	A
35	DA	2313	C
35	DA	2319	G
35	DA	2320	A
35	DA	2325	G
35	DA	2336	A

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Mol	Chain	Res	Type
35	DA	2345	G
35	DA	2347	C
35	DA	2349	G
35	DA	2350	C
35	DA	2383	G
35	DA	2385	C
35	DA	2402	C
35	DA	2403	C
35	DA	2406	U
35	DA	2423	U
35	DA	2425	A
35	DA	2429	G
35	DA	2430	A
35	DA	2439	A
35	DA	2440	C
35	DA	2441	C
35	DA	2448	A
35	DA	2468	G
35	DA	2469	A
35	DA	2470	G
35	DA	2475	C
35	DA	2476	A
35	DA	2482	G
35	DA	2484	G
35	DA	2491	U
35	DA	2502	G
35	DA	2505	G
35	DA	2506	U
35	DA	2518	A
35	DA	2520	C
35	DA	2523	G
35	DA	2529	G
35	DA	2534	A
35	DA	2542	A
35	DA	2543	G
35	DA	2554	U
35	DA	2566	A
35	DA	2567	G
35	DA	2569	G
35	DA	2573	C
35	DA	2574	G
35	DA	2585	U

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Mol	Chain	Res	Type
35	DA	2586	C
35	DA	2602	A
35	DA	2612	C
35	DA	2614	A
35	DA	2615	U
35	DA	2630	G
35	DA	2636	U
35	DA	2654	A
35	DA	2655	G
35	DA	2673	G
35	DA	2682	U
35	DA	2690	C
35	DA	2691	C
35	DA	2702	U
35	DA	2703	C
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2714	G
35	DA	2720	U
35	DA	2726	U
35	DA	2733	A
35	DA	2748	A
35	DA	2754	U
35	DA	2755	C
35	DA	2757	A
35	DA	2759	G
35	DA	2765	A
35	DA	2778	A
35	DA	2781	A
35	DA	2787	C
35	DA	2789	C
35	DA	2790	A
35	DA	2802	G
35	DA	2803	C
35	DA	2804	C
35	DA	2808	U
35	DA	2820	A
35	DA	2821	A
35	DA	2823	A
35	DA	2827	C
35	DA	2833	G
35	DA	2834	G

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Mol	Chain	Res	Type
35	DA	2835	A
35	DA	2849	U
35	DA	2872	G
35	DA	2873	A
35	DA	2874	C
35	DA	2879	C
35	DA	2892	A
35	DA	2893	G
36	DB	8	U
36	DB	12	C
36	DB	13	A
36	DB	27	C
36	DB	33	G
36	DB	42	C
36	DB	45	A
36	DB	52	A
36	DB	53	A
36	DB	57	A
36	DB	67	G
36	DB	73	A
36	DB	85	G
36	DB	110	G

All (198) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	79	G
1	AA	115	G
1	AA	119	A
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	274	A
1	AA	328	C
1	AA	372	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	495	A
1	AA	508	C

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Mol	Chain	Res	Type
1	AA	509	A
1	AA	533	A
1	AA	560	U
1	AA	687	A
1	AA	748	C
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1065	U
1	AA	1067	A
1	AA	1145	C
1	AA	1182	G
1	AA	1200	C
1	AA	1201	A
1	AA	1224	G
1	AA	1285	A
1	AA	1300	G
1	AA	1504	G
22	AV	75	C
22	AW	17	C
22	AW	47	U
22	AW	70	G
23	AX	19	U
35	BA	27	G
35	BA	71	A
35	BA	74	A
35	BA	199	A
35	BA	221	A
35	BA	272	G
35	BA	283	A
35	BA	370	G
35	BA	474	G
35	BA	494	G
35	BA	507	A
35	BA	587	C
35	BA	603	A
35	BA	613	G
35	BA	614(A)	U
35	BA	614(B)	G
35	BA	654(J)	A
35	BA	740	U
35	BA	752	A

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Mol	Chain	Res	Type
35	BA	764	A
35	BA	856	C
35	BA	945	A
35	BA	1022	G
35	BA	1126	A
35	BA	1210	A
35	BA	1286	A
35	BA	1300	U
35	BA	1332	G
35	BA	1427	A
35	BA	1558	A
35	BA	1608	A
35	BA	1653	G
35	BA	1686	C
35	BA	1782	C
35	BA	1784	A
35	BA	1799	G
35	BA	1819	A
35	BA	1899	G
35	BA	1912	A
35	BA	1992	G
35	BA	2036	C
35	BA	2092	U
35	BA	2126	A
35	BA	2172	U
35	BA	2225	A
35	BA	2263	C
35	BA	2282	G
35	BA	2290	G
35	BA	2308	G
35	BA	2422	A
35	BA	2439	A
35	BA	2468	G
35	BA	2481	G
35	BA	2542	A
35	BA	2613	U
35	BA	2689	U
35	BA	2756	U
35	BA	2873	A
36	BB	12	C
36	BB	56	G
36	BB	66	A

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Mol	Chain	Res	Type
1	CA	30	U
1	CA	60	A
1	CA	79	G
1	CA	115	G
1	CA	119	A
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	274	A
1	CA	328	C
1	CA	372	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	495	A
1	CA	508	C
1	CA	509	A
1	CA	533	A
1	CA	560	U
1	CA	687	A
1	CA	748	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1065	U
1	CA	1067	A
1	CA	1145	C
1	CA	1182	G
1	CA	1200	C
1	CA	1201	A
1	CA	1224	G
1	CA	1285	A
1	CA	1300	G
1	CA	1504	G
22	CW	15	G
22	CW	17	C
22	CW	47	U
22	CW	70	G
35	DA	27	G
35	DA	71	A
35	DA	74	A
35	DA	197	A

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Mol	Chain	Res	Type
35	DA	199	A
35	DA	221	A
35	DA	272	G
35	DA	283	A
35	DA	370	G
35	DA	474	G
35	DA	494	G
35	DA	507	A
35	DA	587	C
35	DA	603	A
35	DA	613	G
35	DA	614(A)	U
35	DA	614(B)	G
35	DA	654(J)	A
35	DA	740	U
35	DA	752	A
35	DA	764	A
35	DA	827	U
35	DA	856	C
35	DA	945	A
35	DA	1022	G
35	DA	1126	A
35	DA	1210	A
35	DA	1286	A
35	DA	1300	U
35	DA	1332	G
35	DA	1427	A
35	DA	1558	A
35	DA	1608	A
35	DA	1653	G
35	DA	1782	C
35	DA	1784	A
35	DA	1799	G
35	DA	1819	A
35	DA	1912	A
35	DA	1992	G
35	DA	2036	C
35	DA	2092	U
35	DA	2126	A
35	DA	2172	U
35	DA	2225	A
35	DA	2263	C

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Mol	Chain	Res	Type
35	DA	2282	G
35	DA	2308	G
35	DA	2422	A
35	DA	2439	A
35	DA	2468	G
35	DA	2481	G
35	DA	2542	A
35	DA	2613	U
35	DA	2689	U
35	DA	2756	U
35	DA	2873	A
36	DB	12	C
36	DB	56	G
36	DB	66	A

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 1098 ligands modelled in this entry, 1098 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	1504/1522 (98%)	0.21	41 (2%) 56 33	43, 106, 183, 201	0
1	CA	1504/1522 (98%)	0.01	43 (2%) 53 32	35, 87, 183, 201	0
2	AB	235/256 (91%)	0.45	6 (2%) 57 34	76, 137, 191, 201	0
2	CB	235/256 (91%)	0.28	10 (4%) 40 23	51, 117, 180, 201	0
3	AC	207/239 (86%)	0.47	9 (4%) 40 23	71, 130, 177, 201	0
3	CC	207/239 (86%)	0.39	11 (5%) 32 20	48, 96, 159, 200	0
4	AD	208/209 (99%)	0.80	22 (10%) 11 9	53, 116, 168, 199	0
4	CD	208/209 (99%)	0.56	18 (8%) 16 11	41, 95, 158, 183	0
5	AE	151/162 (93%)	0.41	5 (3%) 49 29	48, 102, 156, 179	0
5	CE	151/162 (93%)	0.16	3 (1%) 65 41	29, 86, 145, 193	0
6	AF	101/101 (100%)	0.36	1 (0%) 79 56	75, 120, 170, 189	0
6	CF	101/101 (100%)	0.15	0 100 100	60, 116, 162, 184	0
7	AG	155/156 (99%)	0.62	14 (9%) 15 11	64, 137, 182, 201	0
7	CG	155/156 (99%)	0.23	6 (3%) 43 25	42, 89, 143, 193	0
8	AH	138/138 (100%)	0.57	13 (9%) 14 10	50, 101, 152, 201	0
8	CH	138/138 (100%)	0.31	8 (5%) 29 18	50, 97, 148, 188	0
9	AI	127/128 (99%)	1.09	18 (14%) 6 6	66, 148, 192, 201	0
9	CI	127/128 (99%)	0.57	8 (6%) 26 17	43, 97, 148, 183	0
10	AJ	99/105 (94%)	1.02	15 (15%) 5 5	64, 154, 198, 201	0
10	CJ	99/105 (94%)	0.66	10 (10%) 12 9	44, 122, 197, 201	0
11	AK	119/129 (92%)	0.40	8 (6%) 24 16	52, 100, 155, 172	0
11	CK	119/129 (92%)	0.32	6 (5%) 34 20	49, 89, 165, 183	0
12	AL	126/132 (95%)	0.47	10 (7%) 18 13	42, 81, 146, 193	0
12	CL	126/132 (95%)	0.36	8 (6%) 26 17	37, 75, 148, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AM	121/126 (96%)	0.80	13 (10%) 11 9	69, 133, 191, 201	0
13	CM	121/126 (96%)	0.35	8 (6%) 24 16	26, 96, 156, 189	0
14	AN	60/61 (98%)	0.94	9 (15%) 5 5	76, 124, 173, 187	0
14	CN	60/61 (98%)	0.23	3 (5%) 34 20	40, 82, 118, 155	0
15	AO	88/89 (98%)	0.23	1 (1%) 78 54	43, 100, 153, 177	0
15	CO	88/89 (98%)	0.27	4 (4%) 38 22	55, 92, 138, 155	0
16	AP	84/88 (95%)	0.88	11 (13%) 7 6	59, 104, 142, 201	0
16	CP	84/88 (95%)	0.94	10 (11%) 9 7	56, 106, 157, 201	0
17	AQ	100/105 (95%)	0.52	5 (5%) 34 20	54, 96, 137, 165	0
17	CQ	100/105 (95%)	0.57	6 (6%) 27 17	53, 99, 152, 162	0
18	AR	70/88 (79%)	0.25	0 100 100	62, 116, 160, 183	0
18	CR	70/88 (79%)	0.06	0 100 100	51, 101, 157, 183	0
19	AS	79/93 (84%)	1.05	12 (15%) 5 5	91, 140, 191, 201	0
19	CS	79/93 (84%)	0.63	7 (8%) 15 11	51, 103, 193, 201	0
20	AT	99/106 (93%)	0.88	18 (18%) 3 4	55, 112, 165, 201	0
20	CT	99/106 (93%)	1.22	24 (24%) 2 2	68, 115, 177, 201	0
21	AU	25/27 (92%)	2.10	11 (44%) 0 1	78, 131, 167, 178	0
21	CU	25/27 (92%)	1.08	5 (20%) 3 3	58, 85, 117, 123	0
22	AV	76/76 (100%)	-0.27	0 100 100	42, 85, 152, 176	0
22	AW	76/76 (100%)	1.13	13 (17%) 4 4	48, 184, 201, 201	0
22	CV	76/76 (100%)	-0.59	1 (1%) 75 51	35, 65, 135, 185	0
22	CW	76/76 (100%)	0.18	3 (3%) 43 25	30, 166, 198, 201	0
23	AX	8/8 (100%)	0.89	2 (25%) 2 2	67, 76, 160, 166	0
23	CX	8/8 (100%)	0.98	2 (25%) 2 2	46, 62, 153, 170	0
24	AY	351/351 (100%)	0.17	16 (4%) 37 21	31, 109, 190, 201	0
24	CY	351/351 (100%)	0.12	14 (3%) 42 25	25, 95, 188, 201	0
25	B0	76/85 (89%)	0.24	5 (6%) 24 16	25, 64, 105, 177	0
25	D0	76/85 (89%)	-0.15	3 (3%) 43 25	10, 43, 103, 179	0
26	B1	94/98 (95%)	-0.02	3 (3%) 50 30	23, 61, 123, 173	0
26	D1	94/98 (95%)	-0.10	3 (3%) 50 30	18, 52, 109, 155	0
27	B2	71/72 (98%)	0.14	0 100 100	36, 85, 156, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
27	D2	71/72 (98%)	0.34	5 (7%) 22 15	27, 76, 144, 186	0
28	B3	60/60 (100%)	0.04	2 (3%) 49 29	19, 56, 131, 197	0
28	D3	60/60 (100%)	-0.09	2 (3%) 49 29	20, 51, 112, 201	0
29	B4	31/71 (43%)	0.74	2 (6%) 25 17	99, 184, 201, 201	0
29	D4	31/71 (43%)	0.96	5 (16%) 4 5	51, 140, 184, 200	0
30	B5	59/60 (98%)	0.25	2 (3%) 48 29	22, 74, 170, 190	0
30	D5	59/60 (98%)	0.24	4 (6%) 23 16	7, 55, 183, 201	0
31	B6	45/54 (83%)	0.91	7 (15%) 5 5	39, 85, 140, 198	0
31	D6	45/54 (83%)	0.90	7 (15%) 5 5	24, 65, 117, 183	0
32	B7	49/49 (100%)	0.22	2 (4%) 41 24	7, 48, 129, 165	0
32	D7	49/49 (100%)	0.14	2 (4%) 41 24	7, 37, 113, 189	0
33	B8	64/65 (98%)	0.44	6 (9%) 14 10	17, 51, 125, 160	0
33	D8	64/65 (98%)	0.31	5 (7%) 19 13	8, 40, 120, 162	0
34	B9	36/37 (97%)	0.42	2 (5%) 30 19	45, 69, 127, 147	0
34	D9	36/37 (97%)	1.01	6 (16%) 4 4	40, 74, 133, 162	0
35	BA	2886/2901 (99%)	-0.30	77 (2%) 56 33	16, 58, 179, 201	0
35	DA	2886/2901 (99%)	-0.34	90 (3%) 51 31	14, 51, 181, 201	0
36	BB	119/122 (97%)	0.24	1 (0%) 82 61	46, 105, 160, 186	0
36	DB	119/122 (97%)	-0.40	0 100 100	34, 65, 99, 129	0
37	BC	191/229 (83%)	1.38	52 (27%) 1 2	91, 174, 201, 201	0
37	DC	191/229 (83%)	1.35	53 (27%) 1 2	104, 177, 201, 201	0
38	BD	272/276 (98%)	0.57	20 (7%) 20 14	27, 71, 122, 165	0
38	DD	272/276 (98%)	0.53	22 (8%) 18 13	25, 66, 108, 168	0
39	BE	205/206 (99%)	0.15	10 (4%) 35 21	22, 69, 152, 201	0
39	DE	205/206 (99%)	0.19	6 (2%) 53 32	16, 67, 144, 197	0
40	BF	208/210 (99%)	0.02	3 (1%) 73 49	9, 52, 134, 194	0
40	DF	208/210 (99%)	0.02	5 (2%) 59 37	9, 48, 140, 179	0
41	BG	181/182 (99%)	0.53	14 (7%) 19 14	64, 118, 173, 200	0
41	DG	181/182 (99%)	-0.02	5 (2%) 55 33	30, 76, 137, 201	0
42	BH	160/180 (88%)	0.83	24 (15%) 5 5	50, 123, 181, 201	0
42	DH	160/180 (88%)	1.08	33 (20%) 2 3	63, 137, 186, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
43	BI	146/148 (98%)	0.64	10 (6%) 23 16	41, 138, 187, 200	0
44	BJ	0/130	-	-	-	-
44	DJ	0/130	-	-	-	-
45	BK	141/147 (95%)	0.73	15 (10%) 11 9	85, 158, 195, 201	0
45	DK	141/147 (95%)	0.69	12 (8%) 16 12	99, 158, 197, 201	0
46	BN	139/140 (99%)	0.08	3 (2%) 62 39	30, 70, 129, 164	0
46	DN	139/140 (99%)	0.14	3 (2%) 62 39	24, 62, 122, 186	0
47	BO	122/122 (100%)	-0.09	2 (1%) 70 46	28, 64, 101, 158	0
47	DO	122/122 (100%)	-0.17	0 100 100	25, 68, 101, 120	0
48	BP	146/150 (97%)	1.32	35 (23%) 2 2	27, 89, 163, 200	0
48	DP	146/150 (97%)	1.25	34 (23%) 2 3	25, 72, 147, 201	0
49	BQ	141/141 (100%)	0.25	7 (4%) 34 20	23, 65, 127, 198	0
49	DQ	141/141 (100%)	0.10	7 (4%) 34 20	14, 53, 105, 196	0
50	BR	117/118 (99%)	0.32	4 (3%) 48 29	33, 72, 126, 156	0
50	DR	117/118 (99%)	0.16	8 (6%) 23 16	26, 68, 122, 150	0
51	BS	99/112 (88%)	1.12	20 (20%) 3 3	60, 104, 165, 188	0
51	DS	99/112 (88%)	0.49	11 (11%) 10 8	25, 61, 120, 171	0
52	BT	138/146 (94%)	0.42	8 (5%) 29 18	44, 87, 164, 201	0
52	DT	138/146 (94%)	0.57	13 (9%) 14 10	39, 87, 172, 199	0
53	BU	117/118 (99%)	-0.02	1 (0%) 81 58	18, 55, 112, 140	0
53	DU	117/118 (99%)	-0.09	1 (0%) 81 58	12, 45, 111, 190	0
54	BV	101/101 (100%)	0.39	3 (2%) 52 31	34, 79, 137, 185	0
54	DV	101/101 (100%)	0.41	9 (8%) 15 11	25, 66, 141, 201	0
55	BW	113/113 (100%)	-0.03	1 (0%) 81 58	25, 57, 114, 201	0
55	DW	113/113 (100%)	-0.18	1 (0%) 81 58	16, 47, 115, 170	0
56	BX	93/96 (96%)	0.39	2 (2%) 62 39	31, 74, 129, 155	0
56	DX	93/96 (96%)	0.06	4 (4%) 40 23	33, 67, 114, 160	0
57	BY	101/110 (91%)	1.19	21 (20%) 2 3	27, 84, 157, 201	0
57	DY	101/110 (91%)	0.87	13 (12%) 7 6	25, 81, 162, 201	0
58	BZ	177/206 (85%)	0.41	13 (7%) 21 15	36, 98, 156, 201	0
58	DZ	177/206 (85%)	0.00	5 (2%) 55 33	30, 83, 130, 192	0
59	DI	146/148 (98%)	0.10	1 (0%) 84 64	28, 109, 155, 183	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
All	All	22210/23252 (95%)	0.19	1246 (5%)	30	19	7, 84, 181, 201	0

All (1246) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
49	BQ	140	ALA	12.0
35	DA	654(A)	G	10.9
20	CT	9	ASN	10.0
57	BY	59	GLY	9.7
37	BC	43	VAL	9.5
19	CS	82	GLY	9.4
35	BA	2119	A	7.4
11	CK	129	SER	7.3
8	AH	131	GLY	7.2
19	AS	81	ARG	7.2
4	AD	42	GLN	6.9
20	CT	12	ALA	6.9
20	AT	9	ASN	6.6
35	DA	2154	G	6.6
9	AI	12	GLU	6.6
58	BZ	179	ASP	6.4
19	AS	82	GLY	6.4
10	AJ	46	ARG	6.4
20	AT	106	ALA	6.3
35	BA	2173	A	6.3
35	BA	2118	U	6.1
35	BA	2128	C	6.1
1	CA	91	C	6.1
21	AU	14	TRP	6.0
1	CA	83	U	6.0
35	DA	654(M)	C	5.9
37	BC	214	VAL	5.9
37	BC	166	ASP	5.8
35	DA	654(B)	C	5.8
23	CX	17	A	5.8
29	D4	51	TYR	5.8
48	BP	110	TYR	5.7
38	DD	34	VAL	5.7
49	BQ	141	GLN	5.6
35	BA	275	G	5.5
21	AU	2	GLY	5.5
16	AP	8	ARG	5.5

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Mol	Chain	Res	Type	RSRZ
35	DA	654(N)	G	5.5
52	DT	25	GLY	5.5
4	CD	3	ARG	5.4
41	DG	2	PRO	5.4
35	DA	654(U)	A	5.3
8	AH	128	GLY	5.3
20	AT	12	ALA	5.3
48	BP	35	HIS	5.3
17	CQ	11	VAL	5.3
35	DA	654(O)	G	5.2
48	DP	35	HIS	5.2
35	BA	2156	G	5.1
52	BT	27	THR	5.1
35	DA	2144	U	5.0
37	BC	178	ALA	5.0
1	AA	1001(A)	G	5.0
1	AA	90	U	5.0
35	DA	2155	G	5.0
34	D9	37	GLY	5.0
35	BA	92	A	5.0
35	DA	654(V)	A	5.0
35	DA	654(D)	G	4.9
8	CH	1	MET	4.9
33	B8	64	TYR	4.9
37	DC	141	LYS	4.8
1	AA	89	C	4.8
37	DC	169	GLY	4.8
33	D8	48	PHE	4.8
9	AI	14	VAL	4.8
37	BC	165	ASN	4.7
1	CA	82	U	4.7
1	CA	89	C	4.7
20	CT	73	HIS	4.7
35	DA	654(E)	G	4.7
35	DA	654(H)	G	4.7
35	DA	2129	C	4.7
37	BC	49	ILE	4.7
51	DS	60	GLY	4.6
9	AI	121	ARG	4.6
19	CS	81	ARG	4.6
38	BD	40	THR	4.6
13	AM	100	GLY	4.6

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Mol	Chain	Res	Type	RSRZ
35	BA	2117	A	4.6
58	BZ	55	HIS	4.6
1	AA	82	U	4.5
38	DD	267	SER	4.5
57	BY	61	ILE	4.5
1	CA	80	G	4.5
1	CA	1030(C)	G	4.5
38	DD	42	GLY	4.5
11	CK	128	ALA	4.4
51	DS	22	GLY	4.4
19	CS	80	TYR	4.4
42	DH	50	VAL	4.4
9	AI	115	GLY	4.3
9	AI	128	ARG	4.3
35	DA	2801	A	4.3
42	BH	153	LYS	4.3
48	DP	121	LYS	4.3
48	BP	28	GLY	4.3
9	AI	66	ARG	4.3
52	DT	115	ARG	4.3
8	AH	73	ASP	4.3
48	DP	110	TYR	4.3
16	CP	25	ARG	4.3
35	BA	2120	G	4.3
35	DA	654(G)	C	4.3
8	AH	1	MET	4.2
42	DH	158	HIS	4.2
13	AM	31	LYS	4.2
42	DH	44	VAL	4.2
28	B3	3	ARG	4.2
10	AJ	59	SER	4.2
52	BT	105	LEU	4.2
57	BY	102	CYS	4.2
38	BD	42	GLY	4.2
49	DQ	80	GLU	4.2
1	CA	81	U	4.2
33	B8	48	PHE	4.2
24	AY	197	ALA	4.2
35	DA	2177	C	4.2
39	DE	193	GLY	4.2
35	DA	654(L)	G	4.2
35	BA	2157	G	4.1

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Mol	Chain	Res	Type	RSRZ
42	BH	100	GLY	4.1
1	AA	83	U	4.1
42	BH	104	GLU	4.1
4	AD	3	ARG	4.1
4	AD	124	GLY	4.1
50	DR	3	HIS	4.1
35	BA	2111	C	4.1
31	B6	39	TYR	4.1
38	BD	28	GLU	4.1
11	CK	127	LYS	4.0
16	CP	7	ALA	4.0
21	AU	15	ARG	4.0
20	AT	10	LEU	4.0
52	DT	105	LEU	4.0
1	CA	1036	G	4.0
58	DZ	179	ASP	4.0
35	DA	2143	C	4.0
38	BD	34	VAL	4.0
35	BA	2130	U	4.0
42	BH	116	GLU	4.0
38	DD	262	ARG	4.0
21	CU	6	ARG	4.0
35	BA	2131	G	4.0
35	BA	2108	C	4.0
37	BC	197	GLU	4.0
38	BD	32	SER	4.0
12	AL	47	LYS	4.0
49	BQ	7	MET	3.9
51	BS	32	LEU	3.9
22	AW	18	G	3.9
35	DA	272(B)	G	3.9
17	AQ	101	ARG	3.9
25	B0	74	ARG	3.9
10	CJ	59	SER	3.9
13	AM	102	ARG	3.9
37	DC	179	SER	3.9
35	DA	2175	C	3.9
10	CJ	85	LEU	3.9
19	AS	80	TYR	3.9
42	DH	43	VAL	3.9
35	DA	2176	A	3.9
38	DD	273	ARG	3.9

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Mol	Chain	Res	Type	RSRZ
35	BA	2148	G	3.9
1	AA	84	U	3.9
38	BD	236	GLY	3.9
24	CY	87	LEU	3.9
1	AA	1397	C	3.8
4	CD	21	LEU	3.8
11	AK	114	VAL	3.8
57	DY	28	LYS	3.8
42	BH	106	THR	3.8
35	DA	654	A	3.8
37	DC	43	VAL	3.8
35	DA	2116	G	3.8
46	BN	1	MET	3.8
48	BP	67	MET	3.8
31	D6	12	GLU	3.8
43	BI	108	THR	3.8
1	AA	1244	C	3.8
35	BA	2139	C	3.8
35	DA	2802	G	3.8
50	BR	3	HIS	3.8
2	AB	68	ILE	3.8
37	BC	48	GLY	3.8
37	DC	203	GLY	3.8
35	BA	2310	A	3.8
1	CA	92	C	3.7
35	BA	2129	C	3.7
35	DA	2162	G	3.7
37	DC	190	ARG	3.7
51	BS	47	THR	3.7
57	DY	102	CYS	3.7
51	DS	16	ASN	3.7
9	CI	66	ARG	3.7
7	CG	82	GLY	3.7
9	AI	102	LEU	3.7
48	BP	88	LEU	3.7
48	DP	53	GLY	3.7
16	CP	22	THR	3.7
4	AD	203	VAL	3.7
10	CJ	46	ARG	3.7
48	DP	9	ASN	3.7
38	DD	32	SER	3.7
42	DH	42	ARG	3.7

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Mol	Chain	Res	Type	RSRZ
38	DD	39	LYS	3.7
45	BK	75	SER	3.7
35	DA	2108	C	3.7
41	BG	16	ARG	3.7
10	CJ	58	ASP	3.6
57	BY	2	ARG	3.6
1	AA	88	A	3.6
48	DP	68	GLN	3.6
35	BA	1532	C	3.6
53	DU	58	ARG	3.6
20	AT	75	ASN	3.6
9	AI	125	TYR	3.6
10	AJ	73	ASP	3.6
35	BA	2112	G	3.6
35	DA	92	A	3.6
49	DQ	10	ARG	3.6
12	AL	89	ARG	3.5
35	DA	654(C)	G	3.5
35	DA	2149	G	3.5
35	BA	1543	C	3.5
35	DA	2161	C	3.5
14	AN	2	ALA	3.5
20	AT	27	LYS	3.5
21	AU	3	LYS	3.5
37	DC	144	THR	3.5
21	CU	11	GLY	3.5
54	DV	48	GLY	3.5
30	B5	60	VAL	3.5
10	AJ	19	SER	3.5
19	AS	4	SER	3.5
35	BA	2109	U	3.5
35	BA	2132	U	3.5
51	BS	14	VAL	3.5
3	CC	188	LEU	3.5
50	BR	8	ARG	3.5
22	CW	44	G	3.5
48	DP	28	GLY	3.5
24	AY	69	LEU	3.5
50	DR	2	ARG	3.5
57	DY	2	ARG	3.5
48	BP	68	GLN	3.5
19	AS	15	LEU	3.5

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Mol	Chain	Res	Type	RSRZ
24	CY	69	LEU	3.5
16	CP	23	ASP	3.5
35	BA	272(B)	G	3.5
35	BA	2110	G	3.5
35	BA	2165	G	3.5
37	BC	215	THR	3.4
12	AL	128	ALA	3.4
27	D2	70	GLN	3.4
49	DQ	140	ALA	3.4
49	DQ	141	GLN	3.4
51	BS	53	SER	3.4
35	BA	1544	A	3.4
35	DA	654(P)	C	3.4
58	BZ	84	GLU	3.4
31	D6	26	ASN	3.4
37	BC	219	GLY	3.4
38	DD	40	THR	3.4
45	BK	93	ARG	3.4
52	BT	1	MET	3.4
14	AN	17	LYS	3.4
48	BP	76	LYS	3.4
8	AH	4	ASP	3.4
12	CL	73	GLU	3.4
1	CA	88	A	3.4
24	AY	123	GLY	3.4
35	DA	654(K)	C	3.4
37	DC	204	ALA	3.4
37	BC	99	ILE	3.4
48	BP	25	SER	3.4
48	DP	40	SER	3.4
37	DC	183	GLU	3.4
2	CB	96	ARG	3.4
24	AY	7	ALA	3.4
23	AX	17	A	3.4
22	AW	61	C	3.4
35	BA	2107	C	3.4
51	BS	87	PHE	3.4
37	BC	210	ARG	3.4
52	DT	93	ARG	3.4
35	DA	654(S)	G	3.4
13	CM	112	GLY	3.4
37	DC	45	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
9	AI	11	LYS	3.4
38	BD	38	LYS	3.4
51	DS	12	PHE	3.3
35	BA	2140	C	3.3
21	AU	5	ASP	3.3
35	DA	2160	G	3.3
51	BS	54	LEU	3.3
57	BY	39	VAL	3.3
17	CQ	96	GLU	3.3
37	BC	176	GLY	3.3
1	AA	1364	U	3.3
1	CA	204	U	3.3
35	BA	2161	C	3.3
14	AN	61	TRP	3.3
45	DK	104	VAL	3.3
20	AT	14	LYS	3.3
22	AW	19	G	3.3
41	BG	2	PRO	3.3
29	D4	61	VAL	3.3
20	CT	75	ASN	3.3
24	AY	39	TRP	3.3
4	AD	43	HIS	3.3
35	BA	1026	U	3.3
35	BA	2174	C	3.3
42	BH	78	GLY	3.3
20	CT	58	LYS	3.2
51	BS	12	PHE	3.2
37	BC	170	ALA	3.2
37	DC	189	ILE	3.2
1	AA	306	G	3.2
20	AT	70	SER	3.2
37	BC	177	LYS	3.2
48	BP	40	SER	3.2
52	DT	113	LYS	3.2
38	BD	263	ARG	3.2
5	AE	55	VAL	3.2
1	CA	176	C	3.2
1	CA	979	C	3.2
57	BY	28	LYS	3.2
57	BY	31	LEU	3.2
13	CM	7	VAL	3.2
4	CD	118	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
20	CT	25	ARG	3.2
32	D7	49	ARG	3.2
48	DP	65	ARG	3.2
53	BU	58	ARG	3.2
34	D9	15	LYS	3.2
35	BA	2160	G	3.2
35	DA	1532	C	3.2
37	DC	75	LEU	3.2
43	BI	35	LEU	3.2
4	CD	8	VAL	3.2
31	B6	52	VAL	3.2
57	BY	51	VAL	3.2
10	CJ	4	ILE	3.2
20	CT	64	ASP	3.1
43	BI	16	GLY	3.1
37	DC	139	ASN	3.1
1	CA	1190	G	3.1
22	AW	6	G	3.1
35	DA	2152	G	3.1
54	DV	21	ARG	3.1
28	B3	1	MET	3.1
48	BP	27	HIS	3.1
45	DK	11	GLN	3.1
4	CD	69	GLY	3.1
7	AG	16	LEU	3.1
5	CE	83	GLU	3.1
24	AY	306	GLU	3.1
35	DA	2150	U	3.1
37	BC	77	ILE	3.1
30	D5	2	ALA	3.1
35	BA	654(I)	C	3.1
35	DA	654(F)	C	3.1
35	DA	654(T)	C	3.1
35	DA	2139	C	3.1
35	BA	2147	G	3.1
37	DC	132	GLY	3.1
24	AY	68	ASP	3.1
57	BY	3	VAL	3.1
20	AT	80	ARG	3.1
45	BK	73	PRO	3.1
1	CA	1281	U	3.1
37	BC	218	MET	3.1

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Mol	Chain	Res	Type	RSRZ
16	AP	13	HIS	3.1
38	DD	41	GLY	3.1
48	BP	53	GLY	3.1
21	AU	9	ARG	3.1
9	AI	37	PHE	3.1
37	BC	42	GLU	3.1
42	DH	167	GLU	3.1
38	BD	29	PRO	3.1
7	AG	44	TYR	3.1
24	CY	72	LEU	3.1
8	CH	24	THR	3.1
24	CY	244	THR	3.1
19	CS	10	PHE	3.1
35	BA	2169	A	3.1
36	BB	6	C	3.0
27	D2	72	ALA	3.0
2	AB	175	ARG	3.0
4	AD	115	ARG	3.0
35	BA	1533	G	3.0
35	BA	2802	G	3.0
38	DD	236	GLY	3.0
45	BK	92	GLY	3.0
51	DS	89	ARG	3.0
58	DZ	82	ARG	3.0
37	BC	72	VAL	3.0
10	AJ	47	PHE	3.0
37	BC	140	PRO	3.0
33	D8	64	TYR	3.0
51	BS	36	TYR	3.0
41	DG	82	LEU	3.0
35	DA	2135	A	3.0
37	BC	76	ALA	3.0
51	BS	102	ALA	3.0
48	BP	34	GLY	3.0
4	AD	165	MET	3.0
35	BA	2141	G	3.0
54	BV	20	LEU	3.0
41	BG	69	ALA	3.0
52	BT	93	ARG	3.0
35	BA	2170	A	3.0
42	BH	12	PRO	3.0
45	BK	27	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
3	AC	201	TYR	3.0
48	BP	65	ARG	3.0
48	DP	89	ALA	3.0
42	DH	153	LYS	3.0
51	BS	33	LYS	3.0
19	AS	72	GLY	3.0
51	BS	22	GLY	3.0
17	AQ	5	VAL	3.0
45	BK	4	VAL	3.0
31	D6	23	THR	3.0
42	DH	70	THR	3.0
4	CD	156	GLU	3.0
17	CQ	101	ARG	3.0
1	AA	1243	C	3.0
35	DA	654(I)	C	3.0
35	DA	2136	C	3.0
38	DD	230	ASP	3.0
39	BE	10	GLY	3.0
42	DH	169	VAL	3.0
3	AC	208	ILE	3.0
34	D9	17	ILE	3.0
37	DC	61	THR	3.0
57	BY	82	PRO	2.9
37	DC	76	ALA	2.9
35	DA	1744	C	2.9
16	AP	1	MET	2.9
48	BP	9	ASN	2.9
37	DC	216	THR	2.9
48	BP	41	ARG	2.9
37	DC	140	PRO	2.9
46	DN	44	PRO	2.9
3	AC	71	ALA	2.9
58	BZ	164	ALA	2.9
24	AY	8	GLN	2.9
45	BK	1	MET	2.9
1	AA	1001	A	2.9
8	CH	2	LEU	2.9
13	AM	96	LEU	2.9
35	DA	1544	A	2.9
48	BP	105	LEU	2.9
50	BR	2	ARG	2.9
51	BS	73	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
48	BP	17	LYS	2.9
48	DP	17	LYS	2.9
1	AA	723	U	2.9
51	DS	14	VAL	2.9
57	BY	55	TYR	2.9
57	DY	27	VAL	2.9
48	DP	133	SER	2.9
50	DR	108	GLY	2.9
58	DZ	55	HIS	2.9
43	BI	120	ILE	2.9
4	AD	21	LEU	2.9
17	CQ	26	GLN	2.9
52	DT	1	MET	2.9
1	CA	378	G	2.9
31	B6	12	GLU	2.9
35	BA	2115	G	2.9
35	BA	2152	G	2.9
1	CA	330	C	2.9
8	AH	130	GLY	2.9
31	D6	39	TYR	2.9
35	DA	2140	C	2.9
4	CD	209	ARG	2.9
37	BC	194	ARG	2.9
39	DE	76	ARG	2.9
28	D3	1	MET	2.9
51	BS	52	SER	2.9
42	BH	156	ALA	2.9
12	CL	65	GLU	2.9
20	CT	69	GLY	2.9
57	BY	60	PHE	2.9
58	BZ	88	PHE	2.9
51	DS	54	LEU	2.9
1	CA	1030(B)	C	2.8
35	DA	2142	C	2.8
8	AH	3	THR	2.8
55	BW	2	GLU	2.8
9	AI	9	ARG	2.8
3	AC	197	GLY	2.8
13	CM	122	LYS	2.8
42	DH	66	GLY	2.8
13	CM	84	ILE	2.8
38	BD	12	SER	2.8

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Mol	Chain	Res	Type	RSRZ
1	CA	1031	G	2.8
35	BA	2162	G	2.8
35	DA	2165	G	2.8
55	DW	22	ASP	2.8
2	CB	12	GLU	2.8
4	CD	80	GLU	2.8
13	AM	98	VAL	2.8
13	CM	104	ARG	2.8
45	BK	3	LYS	2.8
21	AU	16	GLY	2.8
58	BZ	113	ALA	2.8
9	AI	116	LYS	2.8
40	DF	175	THR	2.8
48	DP	74	GLU	2.8
48	DP	136	GLU	2.8
4	AD	67	ILE	2.8
22	AW	56	C	2.8
45	DK	89	HIS	2.8
3	AC	169	ALA	2.8
14	AN	58	LYS	2.8
20	CT	70	SER	2.8
37	BC	119	VAL	2.8
19	CS	43	GLU	2.8
24	AY	87	LEU	2.8
48	BP	52	GLU	2.8
20	CT	85	MET	2.8
35	BA	2172	U	2.8
30	B5	2	ALA	2.8
25	B0	46	LYS	2.8
38	BD	261	LYS	2.8
43	BI	95	LYS	2.8
1	CA	1024	G	2.8
22	AW	1	G	2.8
35	BA	2116	G	2.8
54	DV	36	PRO	2.8
58	BZ	86	VAL	2.8
8	AH	2	LEU	2.8
14	AN	60	SER	2.8
13	AM	20	THR	2.8
42	DH	68	THR	2.8
48	DP	117	GLU	2.8
37	DC	50	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
41	BG	11	TYR	2.7
38	DD	261	LYS	2.7
22	AW	21	A	2.7
1	AA	979	C	2.7
1	CA	1027	C	2.7
4	AD	156	GLU	2.7
14	CN	13	THR	2.7
37	DC	217	THR	2.7
48	BP	116	GLY	2.7
35	BA	171	G	2.7
35	BA	2151	G	2.7
16	CP	71	ARG	2.7
38	BD	262	ARG	2.7
39	BE	75	VAL	2.7
2	CB	155	LEU	2.7
42	DH	33	LEU	2.7
2	CB	163	PHE	2.7
35	DA	2109	U	2.7
46	BN	139	GLU	2.7
1	CA	1035	A	2.7
37	DC	168	THR	2.7
39	DE	65	GLY	2.7
42	DH	166	GLY	2.7
50	DR	8	ARG	2.7
1	CA	1397	C	2.7
35	BA	1049	C	2.7
35	DA	2164	C	2.7
30	D5	57	VAL	2.7
12	AL	27	LEU	2.7
24	CY	73	LEU	2.7
35	BA	2133	G	2.7
35	DA	2159	G	2.7
2	AB	70	PHE	2.7
38	DD	237	GLU	2.7
9	CI	7	THR	2.7
11	AK	126	ARG	2.7
37	BC	61	THR	2.7
38	DD	263	ARG	2.7
48	BP	14	LYS	2.7
48	DP	25	SER	2.7
57	DY	52	SER	2.7
1	CA	1125	U	2.7

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Mol	Chain	Res	Type	RSRZ
35	BA	2122	U	2.7
1	AA	975	A	2.7
4	AD	164	ALA	2.7
42	DH	20	ALA	2.7
14	AN	18	VAL	2.7
37	BC	64	LEU	2.7
42	BH	114	VAL	2.7
4	AD	66	ARG	2.7
9	CI	128	ARG	2.7
57	BY	50	ARG	2.7
33	D8	54	GLU	2.7
56	BX	33	LYS	2.7
22	CW	34	G	2.7
35	DA	275	G	2.7
11	CK	114	VAL	2.7
20	CT	72	LEU	2.7
43	BI	29	TYR	2.7
1	AA	1151	A	2.6
39	BE	77	ILE	2.6
14	AN	31	ARG	2.6
37	DC	110	PHE	2.6
48	DP	79	ARG	2.6
38	BD	30	GLU	2.6
54	DV	45	THR	2.6
24	CY	91	LEU	2.6
14	AN	21	TYR	2.6
1	AA	57	G	2.6
42	DH	137	ASP	2.6
48	BP	50	ARG	2.6
56	BX	60	ARG	2.6
3	CC	162	GLN	2.6
48	BP	38	GLN	2.6
15	CO	20	GLY	2.6
39	BE	186	GLY	2.6
42	DH	48	GLY	2.6
1	CA	1531	A	2.6
41	DG	48	GLU	2.6
52	DT	36	GLU	2.6
9	CI	41	VAL	2.6
14	CN	20	ALA	2.6
35	DA	654(R)	C	2.6
37	BC	108	MET	2.6

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Mol	Chain	Res	Type	RSRZ
37	DC	157	LYS	2.6
41	BG	88	ILE	2.6
48	DP	14	LYS	2.6
57	DY	61	ILE	2.6
2	AB	152	PHE	2.6
5	AE	45	PHE	2.6
6	AF	60	PHE	2.6
33	D8	63	PRO	2.6
8	CH	25	ASP	2.6
10	CJ	17	ASP	2.6
49	BQ	25	ASP	2.6
49	DQ	138	ASP	2.6
41	DG	129	GLY	2.6
35	BA	2150	U	2.6
1	AA	1190	G	2.6
7	CG	16	LEU	2.6
20	CT	36	LEU	2.6
58	BZ	144	LEU	2.6
9	AI	122	ALA	2.6
10	AJ	34	VAL	2.6
32	B7	46	VAL	2.6
51	DS	98	VAL	2.6
12	CL	47	LYS	2.6
20	CT	83	ARG	2.6
35	BA	1050	A	2.6
48	BP	47	ASP	2.6
48	DP	47	ASP	2.6
58	BZ	63	ASP	2.6
40	BF	19	GLU	2.6
8	AH	129	VAL	2.6
31	D6	22	ALA	2.6
38	BD	73	VAL	2.6
1	AA	1281	U	2.6
20	CT	14	LYS	2.6
22	AW	55	U	2.6
26	B1	81	LYS	2.6
1	CA	380	G	2.6
27	D2	17	SER	2.6
35	BA	2127	G	2.6
35	DA	1533	G	2.6
4	AD	45	GLN	2.6
35	DA	654(J)	A	2.6

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Mol	Chain	Res	Type	RSRZ
54	DV	101	GLY	2.6
48	DP	84	ASN	2.6
20	AT	62	LEU	2.6
38	DD	33	LEU	2.6
41	BG	34	LEU	2.6
59	DI	12	LEU	2.6
1	CA	352	C	2.6
37	BC	162	GLU	2.6
10	AJ	7	LYS	2.6
16	AP	31	LYS	2.6
38	DD	19	ALA	2.6
41	BG	98	ARG	2.6
42	BH	101	ARG	2.6
48	BP	107	LYS	2.6
48	BP	108	LYS	2.6
48	DP	41	ARG	2.6
3	AC	167	TRP	2.5
3	AC	182	ILE	2.5
57	DY	96	ILE	2.5
42	DH	65	HIS	2.5
11	AK	129	SER	2.5
19	AS	56	GLN	2.5
16	AP	6	LEU	2.5
20	CT	10	LEU	2.5
1	CA	1030(A)	G	2.5
35	BA	2121	G	2.5
35	DA	2151	G	2.5
35	DA	2182	G	2.5
42	DH	156	ALA	2.5
45	DK	85	GLU	2.5
57	BY	63	LYS	2.5
37	BC	78	ALA	2.5
52	DT	116	ALA	2.5
2	CB	140	HIS	2.5
7	AG	93	PRO	2.5
16	AP	39	TYR	2.5
58	BZ	62	PRO	2.5
1	CA	1025	U	2.5
12	AL	29	GLY	2.5
30	D5	58	LEU	2.5
33	D8	35	GLN	2.5
37	BC	90	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
48	DP	143	GLY	2.5
42	DH	69	ARG	2.5
7	CG	141	VAL	2.5
9	AI	15	ALA	2.5
37	DC	142	ALA	2.5
10	AJ	38	ILE	2.5
11	AK	21	ILE	2.5
37	DC	152	ILE	2.5
48	DP	67	MET	2.5
1	AA	1531	A	2.5
35	BA	1051	G	2.5
35	BA	2894	G	2.5
4	CD	2	GLY	2.5
13	AM	27	LYS	2.5
35	DA	2178	C	2.5
35	DA	2803	C	2.5
37	BC	124	GLY	2.5
39	BE	193	GLY	2.5
16	AP	24	ALA	2.5
20	CT	59	ALA	2.5
16	CP	68	ASP	2.5
31	B6	26	ASN	2.5
9	CI	33	PHE	2.5
5	AE	121	LYS	2.5
37	DC	136	LEU	2.5
21	CU	2	GLY	2.5
22	AW	73	A	2.5
37	DC	143	GLY	2.5
7	AG	106	GLN	2.5
10	CJ	35	SER	2.5
35	BA	2106	G	2.5
12	AL	73	GLU	2.5
42	BH	136	ILE	2.5
35	BA	2175	C	2.5
35	DA	1179	C	2.5
49	BQ	139	GLU	2.5
7	AG	33	ASP	2.5
51	BS	16	ASN	2.5
1	AA	81	U	2.5
35	DA	1420	U	2.5
12	AL	28	LYS	2.5
34	B9	2	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
42	DH	149	ARG	2.5
43	BI	25	TYR	2.5
58	DZ	110	GLY	2.5
9	AI	41	VAL	2.5
37	BC	41	VAL	2.5
57	BY	78	ALA	2.4
10	AJ	50	ILE	2.4
37	BC	211	SER	2.4
42	DH	16	SER	2.4
4	AD	80	GLU	2.4
8	CH	99	GLU	2.4
16	AP	29	ASP	2.4
1	AA	1260	C	2.4
2	CB	118	LEU	2.4
17	CQ	43	LEU	2.4
29	D4	53	THR	2.4
35	DA	2148	G	2.4
37	DC	34	THR	2.4
37	DC	109	ASP	2.4
35	BA	2104	G	2.4
35	DA	2402	C	2.4
48	DP	105	LEU	2.4
51	BS	26	LEU	2.4
42	BH	117	PRO	2.4
42	DH	21	PRO	2.4
22	AW	54	U	2.4
35	DA	2130	U	2.4
3	CC	207	VAL	2.4
29	B4	61	VAL	2.4
9	CI	81	ILE	2.4
45	DK	34	ILE	2.4
38	DD	12	SER	2.4
7	AG	94	ARG	2.4
20	CT	30	LYS	2.4
31	D6	17	LYS	2.4
34	D9	18	ARG	2.4
48	BP	7	ARG	2.4
1	AA	632	A	2.4
1	AA	1252	A	2.4
1	CA	1286	A	2.4
35	DA	2310	A	2.4
45	BK	21	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
7	AG	151	TYR	2.4
13	AM	87	TYR	2.4
48	DP	109	GLY	2.4
13	AM	75	ALA	2.4
1	AA	1219	U	2.4
1	CA	93	G	2.4
35	BA	2125	G	2.4
45	BK	29	GLN	2.4
10	AJ	63	PHE	2.4
31	B6	24	GLU	2.4
45	DK	37	PHE	2.4
49	DQ	139	GLU	2.4
43	BI	123	LEU	2.4
51	BS	24	LEU	2.4
19	AS	77	THR	2.4
8	AH	8	ASP	2.4
50	DR	69	ASP	2.4
38	BD	74	GLY	2.4
52	BT	4	GLY	2.4
4	AD	204	ILE	2.4
24	CY	44	ALA	2.4
23	CX	18	A	2.4
37	DC	22	ILE	2.4
48	BP	77	ARG	2.4
1	AA	173	U	2.4
1	CA	84	U	2.4
58	DZ	169	GLU	2.4
42	DH	135	GLY	2.4
50	BR	11	ASN	2.4
38	BD	122	ASP	2.4
48	DP	27	HIS	2.4
7	AG	120	ILE	2.4
7	CG	7	ALA	2.4
52	DT	32	TYR	2.4
32	B7	48	LYS	2.4
52	DT	85	LYS	2.4
54	DV	68	LYS	2.4
46	DN	115	ARG	2.4
4	AD	206	PHE	2.4
8	CH	133	LEU	2.4
35	DA	653	A	2.4
41	BG	48	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
48	BP	94	GLU	2.4
35	DA	1026	U	2.4
57	BY	56	PRO	2.4
57	BY	72	VAL	2.4
1	AA	1113	C	2.3
9	AI	64	THR	2.3
37	BC	95	GLY	2.3
38	BD	41	GLY	2.3
48	BP	43	GLY	2.3
57	DY	59	GLY	2.3
3	AC	3	ASN	2.3
13	CM	27	LYS	2.3
20	AT	73	HIS	2.3
37	BC	171	ILE	2.3
42	BH	65	HIS	2.3
42	BH	158	HIS	2.3
21	AU	24	ARG	2.3
31	D6	21	TYR	2.3
34	D9	12	ASP	2.3
39	BE	151	TYR	2.3
42	BH	60	ARG	2.3
48	DP	90	ARG	2.3
49	DQ	7	MET	2.3
35	DA	2153	G	2.3
4	AD	11	LEU	2.3
17	AQ	35	VAL	2.3
2	CB	132	LYS	2.3
37	DC	69	GLY	2.3
38	DD	38	LYS	2.3
40	DF	208	GLY	2.3
57	BY	88	LYS	2.3
13	AM	88	ARG	2.3
25	B0	41	ARG	2.3
39	BE	14	ILE	2.3
54	BV	21	ARG	2.3
9	AI	46	ALA	2.3
17	CQ	44	ALA	2.3
1	AA	1194	U	2.3
35	BA	90	U	2.3
35	DA	90	U	2.3
37	BC	139	ASN	2.3
1	AA	1149	C	2.3

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Mol	Chain	Res	Type	RSRZ
24	CY	246	ASP	2.3
35	BA	2402	C	2.3
35	DA	1072	C	2.3
35	DA	2107	C	2.3
35	DA	2174	C	2.3
12	CL	16	GLU	2.3
1	CA	111	G	2.3
22	AW	5	G	2.3
35	DA	2141	G	2.3
38	DD	127	VAL	2.3
42	DH	35	VAL	2.3
12	CL	28	LYS	2.3
38	DD	244	ARG	2.3
52	BT	83	ILE	2.3
20	AT	16	HIS	2.3
46	DN	1	MET	2.3
57	BY	76	CYS	2.3
2	CB	70	PHE	2.3
16	CP	80	PHE	2.3
37	BC	163	PHE	2.3
37	DC	187	ASP	2.3
22	CW	45	U	2.3
25	D0	17	GLN	2.3
45	BK	110	GLN	2.3
10	AJ	64	GLU	2.3
10	CJ	24	VAL	2.3
13	CM	121	LYS	2.3
42	BH	52	VAL	2.3
11	CK	126	ARG	2.3
37	DC	164	ARG	2.3
43	BI	90	GLY	2.3
25	B0	10	THR	2.3
37	BC	40	THR	2.3
42	BH	61	HIS	2.3
50	DR	6	SER	2.3
33	B8	50	LEU	2.3
1	AA	79	G	2.3
16	CP	32	TYR	2.3
4	CD	12	CYS	2.3
29	B4	65	CYS	2.3
54	DV	19	LYS	2.3
3	AC	172	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
4	AD	24	GLU	2.3
4	AD	122	ARG	2.3
20	CT	80	ARG	2.3
21	CU	24	ARG	2.3
24	CY	90	GLU	2.3
35	BA	2176	A	2.3
35	DA	2158	A	2.3
38	DD	28	GLU	2.3
42	DH	47	GLU	2.3
50	DR	104	ARG	2.3
35	BA	614(A)	U	2.3
35	DA	614(A)	U	2.3
39	DE	77	ILE	2.3
48	DP	43	GLY	2.3
48	DP	120	ALA	2.3
51	BS	86	ALA	2.3
54	DV	42	GLY	2.3
45	BK	101	TRP	2.3
3	CC	91	LEU	2.3
42	DH	171	LEU	2.3
31	B6	21	TYR	2.3
37	BC	213	TYR	2.3
37	DC	180	PHE	2.3
40	DF	7	TYR	2.3
4	CD	119	GLN	2.3
21	AU	10	ARG	2.3
10	AJ	58	ASP	2.3
12	AL	18	VAL	2.3
17	AQ	57	VAL	2.3
4	CD	15	GLU	2.2
33	B8	54	GLU	2.2
1	AA	388	G	2.2
1	CA	1001(A)	G	2.2
1	CA	1026	G	2.2
35	BA	274	G	2.2
10	CJ	38	ILE	2.2
16	AP	19	ILE	2.2
37	BC	193	ILE	2.2
12	CL	88	GLY	2.2
39	BE	53	PRO	2.2
42	DH	165	ALA	2.2
40	DF	24	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
31	B6	53	LYS	2.2
8	CH	84	ARG	2.2
5	AE	65	ASN	2.2
7	AG	9	VAL	2.2
8	AH	118	VAL	2.2
45	DK	8	VAL	2.2
12	AL	16	GLU	2.2
15	CO	26	GLU	2.2
26	D1	27	GLU	2.2
2	CB	131	PRO	2.2
20	AT	69	GLY	2.2
24	AY	89	PRO	2.2
24	CY	95	ALA	2.2
39	DE	131	ALA	2.2
41	BG	82	LEU	2.2
1	CA	354	G	2.2
1	CA	1456	G	2.2
20	CT	68	LYS	2.2
21	AU	26	LYS	2.2
21	CU	25	LYS	2.2
24	AY	88	LYS	2.2
37	DC	207	THR	2.2
51	DS	34	HIS	2.2
25	D0	41	ARG	2.2
28	D3	3	ARG	2.2
35	DA	2118	U	2.2
35	DA	2796	U	2.2
35	BA	2892	A	2.2
35	DA	2892	A	2.2
37	DC	119	VAL	2.2
45	BK	104	VAL	2.2
24	AY	82	GLU	2.2
43	BI	7	GLU	2.2
1	AA	369	C	2.2
1	AA	1363	C	2.2
22	AW	17	C	2.2
4	AD	64	LEU	2.2
10	AJ	8	LEU	2.2
19	AS	76	PRO	2.2
20	CT	62	LEU	2.2
37	DC	68	LEU	2.2
37	DC	178	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
37	DC	218	MET	2.2
42	BH	36	PRO	2.2
20	AT	68	LYS	2.2
20	CT	74	LYS	2.2
24	CY	88	LYS	2.2
26	B1	96	LYS	2.2
32	D7	48	LYS	2.2
40	DF	18	ARG	2.2
51	BS	89	ARG	2.2
37	DC	215	THR	2.2
57	DY	6	HIS	2.2
45	DK	76	TYR	2.2
42	BH	63	SER	2.2
39	BE	54	GLN	2.2
1	AA	1124	G	2.2
1	CA	108	G	2.2
3	CC	110	ASN	2.2
33	B8	40	GLU	2.2
35	BA	2155	G	2.2
35	DA	2123	G	2.2
37	DC	64	LEU	2.2
37	DC	197	GLU	2.2
47	BO	45	GLU	2.2
48	BP	84	ASN	2.2
4	CD	7	PRO	2.2
4	CD	16	GLY	2.2
4	CD	26	CYS	2.2
29	D4	45	GLY	2.2
41	BG	65	GLY	2.2
52	BT	25	GLY	2.2
54	DV	63	GLY	2.2
5	AE	25	ARG	2.2
16	CP	26	ARG	2.2
25	D0	74	ARG	2.2
48	DP	16	ARG	2.2
1	CA	962	C	2.2
35	BA	2799	C	2.2
35	DA	2145	C	2.2
42	BH	169	VAL	2.2
8	AH	99	GLU	2.2
9	CI	35	GLU	2.2
38	BD	148	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
2	AB	179	LYS	2.2
4	CD	167	GLY	2.2
9	AI	72	GLY	2.2
10	AJ	37	PRO	2.2
20	AT	21	LYS	2.2
37	BC	205	LYS	2.2
50	DR	11	ASN	2.2
57	DY	43	ASN	2.2
34	B9	37	GLY	2.2
45	BK	22	PRO	2.2
45	DK	79	ARG	2.2
42	DH	123	PHE	2.2
23	AX	18	A	2.2
35	BA	896	A	2.2
35	BA	1046	A	2.2
19	AS	34	TRP	2.2
35	BA	11	G	2.2
35	DA	2120	G	2.2
35	DA	2156	G	2.2
35	DA	2894	G	2.2
42	DH	61	HIS	2.2
45	BK	8	VAL	2.1
13	CM	56	LEU	2.1
14	CN	2	ALA	2.1
37	DC	221	SER	2.1
4	CD	76	ARG	2.1
17	AQ	24	GLU	2.1
24	AY	30	GLU	2.1
25	B0	68	GLU	2.1
27	D2	22	GLU	2.1
37	DC	51	PRO	2.1
37	DC	159	GLY	2.1
39	BE	76	ARG	2.1
52	BT	91	ARG	2.1
22	CV	20	U	2.1
42	DH	26	VAL	2.1
42	DH	111	HIS	2.1
52	DT	30	VAL	2.1
57	DY	3	VAL	2.1
9	CI	64	THR	2.1
37	BC	207	THR	2.1
3	CC	193	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
15	CO	69	TYR	2.1
45	DK	52	ILE	2.1
10	CJ	8	LEU	2.1
24	AY	65	LEU	2.1
26	D1	95	LEU	2.1
48	BP	100	LEU	2.1
1	AA	1355	G	2.1
3	CC	71	ALA	2.1
20	AT	8	ARG	2.1
34	D9	22	ARG	2.1
35	BA	2793	G	2.1
38	BD	273	ARG	2.1
38	DD	46	GLN	2.1
16	AP	63	GLY	2.1
42	BH	124	GLU	2.1
58	BZ	145	GLU	2.1
7	AG	84	ASN	2.1
52	DT	2	ASN	2.1
11	AK	119	CYS	2.1
37	BC	187	ASP	2.1
42	DH	52	VAL	2.1
1	AA	1150	U	2.1
10	AJ	74	ILE	2.1
19	AS	5	LEU	2.1
20	CT	21	LYS	2.1
20	CT	27	LYS	2.1
24	CY	6	LEU	2.1
37	BC	161	ILE	2.1
41	BG	3	LEU	2.1
48	DP	107	LYS	2.1
57	DY	46	LYS	2.1
58	BZ	112	ARG	2.1
46	BN	132	ALA	2.1
1	AA	1493	A	2.1
3	CC	46	GLU	2.1
35	DA	1528(A)	A	2.1
37	DC	39	GLU	2.1
37	DC	48	GLY	2.1
42	BH	14	GLY	2.1
58	BZ	97	GLU	2.1
7	AG	62	PHE	2.1
7	CG	62	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
37	BC	63	SER	2.1
45	DK	130	SER	2.1
1	AA	112	G	2.1
35	BA	2123	G	2.1
37	DC	41	VAL	2.1
54	BV	33	VAL	2.1
40	BF	23	ASP	2.1
48	DP	76	LYS	2.1
41	BG	7	LEU	2.1
7	AG	5	ARG	2.1
2	AB	148	TYR	2.1
15	AO	25	THR	2.1
19	AS	39	THR	2.1
47	BO	49	ARG	2.1
49	BQ	60	ARG	2.1
57	BY	86	ARG	2.1
11	AK	128	ALA	2.1
7	CG	13	GLN	2.1
14	AN	52	GLN	2.1
22	AW	39	U	2.1
39	DE	54	GLN	2.1
4	CD	183	GLY	2.1
11	AK	118	GLY	2.1
12	CL	29	GLY	2.1
37	BC	121	GLY	2.1
37	BC	169	GLY	2.1
48	BP	51	PHE	2.1
57	DY	66	PRO	2.1
48	DP	71	VAL	2.1
12	CL	8	ASN	2.1
21	AU	25	LYS	2.1
27	D2	65	ASN	2.1
35	BA	2171	A	2.1
35	DA	529	A	2.1
37	DC	200	LYS	2.1
4	AD	158	ILE	2.1
37	BC	100	ILE	2.1
51	BS	18	ILE	2.1
37	BC	172	HIS	2.1
35	DA	2128	C	2.1
35	BA	2166	G	2.1
35	DA	2184	G	2.1

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Mol	Chain	Res	Type	RSRZ
40	BF	128	ALA	2.1
30	D5	54	GLY	2.1
38	BD	235	GLY	2.1
41	BG	66	GLN	2.1
24	AY	195	PHE	2.1
7	AG	21	VAL	2.0
35	DA	2702	U	2.0
42	DH	113	VAL	2.0
16	AP	25	ARG	2.0
19	CS	65	ASN	2.0
24	CY	79	LEU	2.0
26	B1	95	LEU	2.0
48	BP	59	LEU	2.0
51	DS	101	LEU	2.0
56	DX	60	ARG	2.0
56	DX	92	LEU	2.0
33	B8	34	TRP	2.0
19	CS	44	MET	2.0
1	AA	389	A	2.0
1	AA	1146	A	2.0
24	AY	165	ASP	2.0
24	CY	7	ALA	2.0
11	CK	125	PHE	2.0
15	CO	28	GLN	2.0
48	BP	118	GLY	2.0
16	CP	41	PRO	2.0
37	BC	133	PRO	2.0
4	AD	81	GLU	2.0
13	AM	32	GLU	2.0
20	AT	74	LYS	2.0
37	DC	24	GLU	2.0
51	DS	99	LYS	2.0
13	AM	7	VAL	2.0
29	D4	36	VAL	2.0
42	BH	115	VAL	2.0
1	CA	388	G	2.0
5	CE	126	ARG	2.0
12	AL	19	ARG	2.0
20	AT	24	LEU	2.0
35	BA	2795	G	2.0
35	DA	2157	G	2.0
41	DG	128	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
48	BP	90	ARG	2.0
51	BS	101	LEU	2.0
56	DX	73	ARG	2.0
37	DC	211	SER	2.0
1	CA	1148	U	2.0
7	AG	156	TRP	2.0
8	AH	58	TYR	2.0
13	AM	21	TYR	2.0
11	AK	125	PHE	2.0
37	DC	60	GLY	2.0
41	BG	177	GLY	2.0
49	BQ	23	GLY	2.0
45	DK	2	LYS	2.0
56	DX	72	LYS	2.0
1	CA	1030(D)	A	2.0
3	CC	161	GLU	2.0
8	CH	129	VAL	2.0
20	CT	23	ARG	2.0
26	D1	26	ARG	2.0
37	BC	74	VAL	2.0
37	BC	164	ARG	2.0
42	BH	97	ARG	2.0
48	DP	19	VAL	2.0
52	DT	112	ARG	2.0
3	CC	42	LEU	2.0
3	CC	204	LEU	2.0
5	CE	43	LEU	2.0
37	BC	136	LEU	2.0
2	CB	185	ILE	2.0
37	DC	99	ILE	2.0
57	BY	44	ILE	2.0
1	CA	1037	C	2.0
35	BA	2143	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
60	MG	DA	3240	1/1	0.33	0.10	55,55,55,55	1
60	MG	CA	1687	1/1	0.51	0.13	58,58,58,58	0
60	MG	CA	1641	1/1	0.53	0.13	55,55,55,55	0
60	MG	DA	3294	1/1	0.58	0.15	49,49,49,49	1
60	MG	BA	3161	1/1	0.59	0.23	47,47,47,47	0
60	MG	CW	101	1/1	0.59	0.12	56,56,56,56	1
60	MG	CA	1652	1/1	0.60	0.37	60,60,60,60	0
60	MG	DA	3219	1/1	0.61	0.25	66,66,66,66	0
60	MG	DA	3327	1/1	0.63	0.33	55,55,55,55	0
60	MG	CA	1719	1/1	0.65	0.09	55,55,55,55	1
60	MG	BA	3105	1/1	0.65	0.39	47,47,47,47	0
60	MG	AA	1688	1/1	0.67	0.35	63,63,63,63	1
60	MG	DA	3193	1/1	0.67	0.14	65,65,65,65	0
60	MG	AA	1642	1/1	0.68	0.08	55,55,55,55	0
60	MG	DA	3202	1/1	0.68	0.17	52,52,52,52	1
60	MG	BA	3292	1/1	0.69	0.45	55,55,55,55	0
60	MG	CA	1660	1/1	0.69	0.14	58,58,58,58	0
60	MG	DA	3239	1/1	0.69	0.13	67,67,67,67	1
60	MG	CW	105	1/1	0.70	0.14	53,53,53,53	0
60	MG	AA	1689	1/1	0.70	0.12	59,59,59,59	1
60	MG	DD	301	1/1	0.70	0.48	47,47,47,47	0
60	MG	DA	3265	1/1	0.71	0.40	53,53,53,53	0
60	MG	DA	3106	1/1	0.71	0.38	47,47,47,47	0
60	MG	BA	3102	1/1	0.71	0.57	47,47,47,47	0
60	MG	CA	1679	1/1	0.71	0.12	53,53,53,53	1
60	MG	DA	3295	1/1	0.72	0.56	55,55,55,55	0
60	MG	DA	3181	1/1	0.72	0.25	59,59,59,59	0
60	MG	BA	3153	1/1	0.72	0.39	53,53,53,53	0
60	MG	DA	3252	1/1	0.73	0.14	61,61,61,61	1
60	MG	AA	1698	1/1	0.73	0.09	53,53,53,53	1
60	MG	BA	3082	1/1	0.73	0.29	51,51,51,51	0
60	MG	BA	3024	1/1	0.74	0.41	56,56,56,56	0
60	MG	AA	1720	1/1	0.74	0.09	58,58,58,58	1
60	MG	AA	1739	1/1	0.75	0.10	55,55,55,55	1
60	MG	AA	1628	1/1	0.75	0.23	70,70,70,70	0
60	MG	BA	3307	1/1	0.75	0.28	55,55,55,55	0
60	MG	CA	1605	1/1	0.76	0.40	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	1716	1/1	0.76	0.22	52,52,52,52	0
60	MG	BA	3248	1/1	0.76	0.10	56,56,56,56	1
60	MG	AA	1718	1/1	0.76	0.14	55,55,55,55	0
60	MG	DA	3099	1/1	0.76	0.27	54,54,54,54	0
60	MG	AA	1648	1/1	0.76	0.14	62,62,62,62	0
60	MG	DA	3225	1/1	0.77	0.26	51,51,51,51	0
60	MG	DA	3098	1/1	0.77	0.28	47,47,47,47	0
60	MG	BA	3106	1/1	0.77	0.38	51,51,51,51	0
60	MG	BA	3120	1/1	0.77	0.41	50,50,50,50	0
60	MG	DA	3107	1/1	0.77	0.47	51,51,51,51	0
60	MG	CA	1729	1/1	0.77	0.15	55,55,55,55	1
60	MG	CA	1670	1/1	0.77	0.20	69,69,69,69	0
60	MG	DA	3300	1/1	0.77	0.10	55,55,55,55	0
60	MG	AA	1668	1/1	0.77	0.23	58,58,58,58	0
60	MG	DA	3009	1/1	0.77	0.30	55,55,55,55	0
60	MG	AA	1655	1/1	0.78	0.22	52,52,52,52	0
60	MG	CW	104	1/1	0.78	0.12	56,56,56,56	0
60	MG	BA	3204	1/1	0.78	0.28	57,57,57,57	0
60	MG	BA	3241	1/1	0.78	0.10	61,61,61,61	1
60	MG	DA	3068	1/1	0.78	0.24	50,50,50,50	0
60	MG	DA	3078	1/1	0.78	0.46	51,51,51,51	0
60	MG	DA	3303	1/1	0.78	0.50	55,55,55,55	0
60	MG	BA	3137	1/1	0.78	0.27	52,52,52,52	0
60	MG	AA	1673	1/1	0.78	0.13	52,52,52,52	0
60	MG	AA	1675	1/1	0.79	0.11	48,48,48,48	0
60	MG	AA	1714	1/1	0.79	0.27	59,59,59,59	0
60	MG	BC	301	1/1	0.79	0.22	52,52,52,52	1
60	MG	CA	1688	1/1	0.79	0.14	48,48,48,48	0
60	MG	CA	1705	1/1	0.79	0.20	49,49,49,49	1
60	MG	BA	3099	1/1	0.79	0.35	55,55,55,55	0
60	MG	BA	3240	1/1	0.79	0.07	58,58,58,58	1
60	MG	CA	1740	1/1	0.79	0.09	55,55,55,55	0
60	MG	CA	1643	1/1	0.79	0.13	49,49,49,49	0
60	MG	AA	1696	1/1	0.79	0.12	62,62,62,62	0
60	MG	BA	3140	1/1	0.79	0.24	56,56,56,56	0
60	MG	DA	3100	1/1	0.80	0.20	55,55,55,55	0
60	MG	AA	1601	1/1	0.80	0.16	56,56,56,56	0
60	MG	BA	3229	1/1	0.80	0.16	49,49,49,49	0
60	MG	DA	3254	1/1	0.80	0.24	54,54,54,54	0
60	MG	DA	3117	1/1	0.80	0.28	47,47,47,47	0
60	MG	DA	3272	1/1	0.80	0.11	59,59,59,59	1
60	MG	BD	301	1/1	0.80	0.53	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3073	1/1	0.80	0.29	53,53,53,53	0
60	MG	BA	3264	1/1	0.80	0.33	53,53,53,53	0
60	MG	BA	3186	1/1	0.80	0.33	51,51,51,51	0
60	MG	BA	3301	1/1	0.80	0.15	55,55,55,55	0
60	MG	DA	3229	1/1	0.80	0.18	52,52,52,52	0
60	MG	AA	1694	1/1	0.81	0.12	56,56,56,56	0
60	MG	AA	1666	1/1	0.81	0.11	57,57,57,57	0
60	MG	AA	1686	1/1	0.81	0.17	58,58,58,58	1
60	MG	AA	1637	1/1	0.81	0.14	53,53,53,53	0
60	MG	DA	3134	1/1	0.81	0.18	64,64,64,64	0
60	MG	DA	3177	1/1	0.81	0.14	49,49,49,49	0
60	MG	BA	3108	1/1	0.81	0.44	52,52,52,52	0
60	MG	CA	1613	1/1	0.81	0.16	52,52,52,52	0
60	MG	CA	1698	1/1	0.81	0.08	52,52,52,52	0
60	MG	BA	3265	1/1	0.81	0.33	47,47,47,47	0
60	MG	CA	1642	1/1	0.81	0.20	56,56,56,56	0
60	MG	DA	3337	1/1	0.81	0.10	55,55,55,55	0
60	MG	AA	1616	1/1	0.81	0.13	64,64,64,64	0
60	MG	AL	201	1/1	0.82	0.35	51,51,51,51	1
60	MG	AA	1693	1/1	0.82	0.14	61,61,61,61	0
60	MG	CA	1744	1/1	0.82	0.20	55,55,55,55	0
60	MG	CA	1756	1/1	0.82	0.19	55,55,55,55	1
60	MG	DA	3260	1/1	0.82	0.25	59,59,59,59	0
60	MG	AA	1647	1/1	0.82	0.09	62,62,62,62	0
60	MG	CA	1684	1/1	0.82	0.23	49,49,49,49	0
60	MG	BA	3183	1/1	0.82	0.32	56,56,56,56	0
60	MG	AA	1653	1/1	0.82	0.25	60,60,60,60	0
60	MG	BA	3188	1/1	0.82	0.35	57,57,57,57	0
60	MG	BA	3135	1/1	0.82	0.21	58,58,58,58	0
60	MG	CA	1712	1/1	0.82	0.21	47,47,47,47	0
60	MG	DA	3082	1/1	0.82	0.39	47,47,47,47	0
60	MG	AA	1743	1/1	0.82	0.24	55,55,55,55	0
60	MG	AA	1608	1/1	0.83	0.25	47,47,47,47	0
60	MG	BA	3237	1/1	0.83	0.17	67,67,67,67	0
60	MG	DA	3136	1/1	0.83	0.34	58,58,58,58	0
60	MG	AA	1692	1/1	0.83	0.31	59,59,59,59	0
60	MG	AA	1747	1/1	0.83	0.14	55,55,55,55	1
60	MG	CA	1753	1/1	0.83	0.21	55,55,55,55	1
60	MG	AA	1645	1/1	0.83	0.11	57,57,57,57	0
60	MG	BA	3253	1/1	0.83	0.32	54,54,54,54	0
60	MG	CW	103	1/1	0.83	0.06	54,54,54,54	1
60	MG	BA	3256	1/1	0.83	0.37	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	1704	1/1	0.83	0.26	49,49,49,49	1
60	MG	BA	3116	1/1	0.83	0.31	47,47,47,47	0
60	MG	BA	3052	1/1	0.83	0.34	47,47,47,47	0
60	MG	AA	1732	1/1	0.83	0.24	55,55,55,55	0
60	MG	BA	3214	1/1	0.83	0.19	48,48,48,48	0
60	MG	BA	3318	1/1	0.83	0.10	55,55,55,55	0
60	MG	DA	3266	1/1	0.83	0.42	47,47,47,47	0
60	MG	DA	3087	1/1	0.83	0.36	48,48,48,48	0
60	MG	DA	3088	1/1	0.83	0.26	49,49,49,49	0
60	MG	BA	3329	1/1	0.83	0.10	55,55,55,55	1
60	MG	BA	3336	1/1	0.83	0.34	55,55,55,55	0
60	MG	BA	3351	1/1	0.83	0.36	55,55,55,55	0
60	MG	DA	3309	1/1	0.83	0.09	55,55,55,55	1
60	MG	DA	3101	1/1	0.83	0.31	51,51,51,51	0
60	MG	DA	3334	1/1	0.83	0.18	55,55,55,55	0
60	MG	CA	1710	1/1	0.83	0.21	50,50,50,50	0
60	MG	BB	203	1/1	0.83	0.41	55,55,55,55	0
60	MG	BA	3206	1/1	0.84	0.23	47,47,47,47	0
60	MG	DA	3205	1/1	0.84	0.42	57,57,57,57	0
60	MG	DA	3206	1/1	0.84	0.20	50,50,50,50	0
60	MG	DA	3211	1/1	0.84	0.36	57,57,57,57	0
60	MG	DA	3025	1/1	0.84	0.43	56,56,56,56	0
60	MG	BA	3212	1/1	0.84	0.12	55,55,55,55	0
60	MG	DA	3228	1/1	0.84	0.20	55,55,55,55	0
60	MG	AA	1722	1/1	0.84	0.26	55,55,55,55	0
60	MG	DA	3238	1/1	0.84	0.35	47,47,47,47	0
60	MG	BA	3040	1/1	0.84	0.26	47,47,47,47	0
60	MG	BA	3338	1/1	0.84	0.28	55,55,55,55	0
60	MG	BA	3235	1/1	0.84	0.17	60,60,60,60	0
60	MG	AA	1621	1/1	0.84	0.15	56,56,56,56	0
60	MG	BA	3068	1/1	0.84	0.40	47,47,47,47	0
60	MG	AA	1659	1/1	0.84	0.25	57,57,57,57	0
60	MG	BA	3143	1/1	0.84	0.13	57,57,57,57	0
60	MG	CA	1607	1/1	0.84	0.31	47,47,47,47	0
60	MG	DA	3284	1/1	0.84	0.46	57,57,57,57	0
60	MG	BA	3094	1/1	0.84	0.28	47,47,47,47	0
60	MG	CA	1615	1/1	0.84	0.21	64,64,64,64	0
60	MG	AA	1613	1/1	0.84	0.10	56,56,56,56	0
60	MG	AA	1746	1/1	0.84	0.12	55,55,55,55	1
60	MG	AA	1677	1/1	0.84	0.08	55,55,55,55	1
60	MG	DA	3313	1/1	0.84	0.30	55,55,55,55	0
60	MG	AA	1703	1/1	0.84	0.18	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AV	107	1/1	0.84	0.22	54,54,54,54	1
60	MG	DA	3183	1/1	0.84	0.12	53,53,53,53	0
60	MG	DC	301	1/1	0.84	0.09	52,52,52,52	1
60	MG	CA	1668	1/1	0.84	0.35	58,58,58,58	0
60	MG	BA	3187	1/1	0.85	0.22	48,48,48,48	0
60	MG	BA	3148	1/1	0.85	0.20	47,47,47,47	0
60	MG	AA	1697	1/1	0.85	0.10	52,52,52,52	0
60	MG	AW	101	1/1	0.85	0.18	56,56,56,56	1
60	MG	CA	1716	1/1	0.85	0.07	55,55,55,55	0
60	MG	BA	3209	1/1	0.85	0.30	66,66,66,66	0
60	MG	DA	3095	1/1	0.85	0.40	47,47,47,47	0
60	MG	BA	3341	1/1	0.85	0.23	55,55,55,55	0
60	MG	BA	3342	1/1	0.85	0.25	55,55,55,55	0
60	MG	BA	3175	1/1	0.85	0.28	49,49,49,49	1
60	MG	CA	1669	1/1	0.85	0.27	47,47,47,47	0
60	MG	DA	3103	1/1	0.85	0.38	47,47,47,47	0
60	MG	BA	3179	1/1	0.85	0.20	59,59,59,59	0
60	MG	CV	102	1/1	0.85	0.45	54,54,54,54	0
60	MG	CV	106	1/1	0.85	0.07	57,57,57,57	1
60	MG	DA	3133	1/1	0.85	0.08	57,57,57,57	0
60	MG	CA	1675	1/1	0.85	0.11	48,48,48,48	1
60	MG	B5	101	1/1	0.85	0.25	49,49,49,49	0
60	MG	DA	3159	1/1	0.85	0.59	49,49,49,49	0
60	MG	DA	3172	1/1	0.85	0.27	50,50,50,50	0
60	MG	AM	201	1/1	0.85	0.09	47,47,47,47	0
60	MG	BA	3295	1/1	0.85	0.17	49,49,49,49	0
60	MG	BA	3236	1/1	0.85	0.23	47,47,47,47	0
60	MG	DA	3328	1/1	0.85	0.34	55,55,55,55	1
60	MG	CA	1690	1/1	0.85	0.09	59,59,59,59	0
60	MG	DA	3201	1/1	0.85	0.26	60,60,60,60	0
60	MG	DA	3033	1/1	0.85	0.22	53,53,53,53	0
60	MG	DA	3060	1/1	0.85	0.34	48,48,48,48	0
60	MG	DY	201	1/1	0.85	0.28	55,55,55,55	0
60	MG	CA	1661	1/1	0.86	0.29	52,52,52,52	0
60	MG	DA	3176	1/1	0.86	0.10	58,58,58,58	0
60	MG	AA	1618	1/1	0.86	0.08	51,51,51,51	1
60	MG	DA	3178	1/1	0.86	0.43	48,48,48,48	0
60	MG	BA	3100	1/1	0.86	0.37	51,51,51,51	0
60	MG	BA	3339	1/1	0.86	0.12	55,55,55,55	0
60	MG	CA	1674	1/1	0.86	0.22	50,50,50,50	0
60	MG	BA	3026	1/1	0.86	0.30	47,47,47,47	0
60	MG	AA	1643	1/1	0.86	0.11	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3346	1/1	0.86	0.48	55,55,55,55	0
60	MG	BA	3047	1/1	0.86	0.31	47,47,47,47	0
60	MG	DA	3036	1/1	0.86	0.27	55,55,55,55	0
60	MG	DA	3215	1/1	0.86	0.19	48,48,48,48	0
60	MG	DA	3040	1/1	0.86	0.14	68,68,68,68	0
60	MG	DA	3043	1/1	0.86	0.58	47,47,47,47	0
60	MG	DA	3045	1/1	0.86	0.22	56,56,56,56	0
60	MG	AA	1611	1/1	0.86	0.19	48,48,48,48	0
60	MG	DA	3231	1/1	0.86	0.09	54,54,54,54	1
60	MG	AA	1735	1/1	0.86	0.23	55,55,55,55	0
60	MG	CA	1695	1/1	0.86	0.06	56,56,56,56	0
60	MG	AA	1755	1/1	0.86	0.06	55,55,55,55	0
60	MG	DA	3247	1/1	0.86	0.16	55,55,55,55	1
60	MG	BA	3234	1/1	0.86	0.33	52,52,52,52	0
60	MG	DA	3083	1/1	0.86	0.14	51,51,51,51	0
60	MG	BA	3181	1/1	0.86	0.07	53,53,53,53	0
60	MG	CA	1612	1/1	0.86	0.19	56,56,56,56	0
60	MG	DA	3090	1/1	0.86	0.38	48,48,48,48	0
60	MG	CA	1715	1/1	0.86	0.22	59,59,59,59	0
60	MG	BA	3304	1/1	0.86	0.51	55,55,55,55	0
60	MG	BA	3018	1/1	0.86	0.30	54,54,54,54	0
60	MG	CA	1720	1/1	0.86	0.09	56,56,56,56	0
60	MG	DA	3299	1/1	0.86	0.26	55,55,55,55	0
60	MG	CA	1721	1/1	0.86	0.06	58,58,58,58	0
60	MG	BA	3314	1/1	0.86	0.10	55,55,55,55	0
60	MG	CA	1733	1/1	0.86	0.18	55,55,55,55	0
60	MG	BA	3136	1/1	0.86	0.39	50,50,50,50	0
60	MG	DA	3316	1/1	0.86	0.16	55,55,55,55	0
60	MG	DA	3324	1/1	0.86	0.25	55,55,55,55	0
60	MG	CA	1741	1/1	0.86	0.15	55,55,55,55	0
60	MG	BA	3319	1/1	0.86	0.08	55,55,55,55	0
60	MG	CA	1752	1/1	0.86	0.25	55,55,55,55	1
60	MG	DA	3335	1/1	0.86	0.29	55,55,55,55	0
60	MG	BA	3238	1/1	0.86	0.10	55,55,55,55	1
60	MG	DA	3143	1/1	0.86	0.19	47,47,47,47	1
60	MG	BA	3331	1/1	0.86	0.15	55,55,55,55	0
60	MG	DA	3164	1/1	0.86	0.37	53,53,53,53	0
60	MG	AA	1736	1/1	0.87	0.11	55,55,55,55	0
60	MG	DA	3001	1/1	0.87	0.18	57,57,57,57	0
60	MG	DA	3180	1/1	0.87	0.15	52,52,52,52	0
60	MG	BA	3320	1/1	0.87	0.21	55,55,55,55	0
60	MG	BA	3083	1/1	0.87	0.36	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3185	1/1	0.87	0.37	56,56,56,56	0
60	MG	DA	3191	1/1	0.87	0.19	54,54,54,54	0
60	MG	BA	3087	1/1	0.87	0.27	49,49,49,49	0
60	MG	DA	3034	1/1	0.87	0.66	47,47,47,47	0
60	MG	BA	3332	1/1	0.87	0.05	55,55,55,55	0
60	MG	AA	1635	1/1	0.87	0.08	47,47,47,47	0
60	MG	DA	3042	1/1	0.87	0.51	47,47,47,47	0
60	MG	BA	3337	1/1	0.87	0.12	55,55,55,55	0
60	MG	BA	3016	1/1	0.87	0.47	47,47,47,47	0
60	MG	DA	3048	1/1	0.87	0.26	47,47,47,47	0
60	MG	DA	3052	1/1	0.87	0.32	51,51,51,51	0
60	MG	DA	3059	1/1	0.87	0.52	55,55,55,55	0
60	MG	BA	3173	1/1	0.87	0.31	56,56,56,56	0
60	MG	CA	1693	1/1	0.87	0.42	59,59,59,59	0
60	MG	AA	1699	1/1	0.87	0.12	54,54,54,54	1
60	MG	AA	1667	1/1	0.87	0.10	47,47,47,47	0
60	MG	AA	1679	1/1	0.87	0.08	53,53,53,53	0
60	MG	DA	3245	1/1	0.87	0.43	53,53,53,53	0
60	MG	BA	3251	1/1	0.87	0.09	61,61,61,61	0
60	MG	DA	3084	1/1	0.87	0.30	47,47,47,47	0
60	MG	DA	3085	1/1	0.87	0.35	47,47,47,47	0
60	MG	BA	3029	1/1	0.87	0.25	55,55,55,55	0
60	MG	BA	3034	1/1	0.87	0.21	50,50,50,50	0
60	MG	AA	1724	1/1	0.87	0.37	59,59,59,59	0
60	MG	AA	1683	1/1	0.87	0.14	47,47,47,47	0
60	MG	DA	3274	1/1	0.87	0.15	63,63,63,63	0
60	MG	DA	3276	1/1	0.87	0.45	58,58,58,58	0
60	MG	CA	1606	1/1	0.87	0.19	58,58,58,58	0
60	MG	DA	3292	1/1	0.87	0.40	55,55,55,55	0
60	MG	BA	3273	1/1	0.87	0.18	58,58,58,58	0
60	MG	CA	1725	1/1	0.87	0.36	59,59,59,59	0
60	MG	BA	3280	1/1	0.87	0.23	57,57,57,57	0
60	MG	BA	3289	1/1	0.87	0.27	54,54,54,54	0
60	MG	BA	3189	1/1	0.87	0.13	59,59,59,59	0
60	MG	BA	3200	1/1	0.87	0.17	60,60,60,60	0
60	MG	BA	3300	1/1	0.87	0.19	55,55,55,55	0
60	MG	BA	3133	1/1	0.87	0.14	64,64,64,64	0
60	MG	DA	3321	1/1	0.87	0.22	55,55,55,55	0
60	MG	CA	1651	1/1	0.87	0.27	47,47,47,47	0
60	MG	BA	3048	1/1	0.87	0.48	47,47,47,47	0
60	MG	CA	1655	1/1	0.87	0.31	52,52,52,52	0
60	MG	DA	3154	1/1	0.87	0.29	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3156	1/1	0.87	0.28	51,51,51,51	0
60	MG	DA	3336	1/1	0.87	0.22	55,55,55,55	1
60	MG	CA	1659	1/1	0.87	0.15	57,57,57,57	0
60	MG	DA	3348	1/1	0.87	0.32	55,55,55,55	0
60	MG	AA	1733	1/1	0.87	0.22	55,55,55,55	0
60	MG	AA	1715	1/1	0.87	0.11	55,55,55,55	0
60	MG	BA	3138	1/1	0.87	0.12	50,50,50,50	0
60	MG	AA	1713	1/1	0.88	0.06	64,64,64,64	0
60	MG	BA	3170	1/1	0.88	0.29	50,50,50,50	0
60	MG	BA	3328	1/1	0.88	0.27	55,55,55,55	0
60	MG	DA	3005	1/1	0.88	0.27	53,53,53,53	0
60	MG	AA	1700	1/1	0.88	0.10	51,51,51,51	0
60	MG	DA	3017	1/1	0.88	0.43	47,47,47,47	0
60	MG	BA	3103	1/1	0.88	0.37	50,50,50,50	0
60	MG	DA	3026	1/1	0.88	0.30	55,55,55,55	0
60	MG	DA	3188	1/1	0.88	0.21	48,48,48,48	0
60	MG	DA	3027	1/1	0.88	0.41	47,47,47,47	0
60	MG	DA	3028	1/1	0.88	0.26	50,50,50,50	0
60	MG	DA	3196	1/1	0.88	0.32	52,52,52,52	0
60	MG	BA	3041	1/1	0.88	0.33	47,47,47,47	0
60	MG	BA	3046	1/1	0.88	0.38	47,47,47,47	0
60	MG	CA	1676	1/1	0.88	0.21	58,58,58,58	0
60	MG	BA	3246	1/1	0.88	0.12	55,55,55,55	0
60	MG	AA	1687	1/1	0.88	0.17	48,48,48,48	0
60	MG	BA	3112	1/1	0.88	0.35	48,48,48,48	0
60	MG	DA	3217	1/1	0.88	0.08	49,49,49,49	0
60	MG	AA	1695	1/1	0.88	0.11	62,62,62,62	0
60	MG	AV	101	1/1	0.88	0.21	49,49,49,49	0
60	MG	BA	3057	1/1	0.88	0.34	47,47,47,47	0
60	MG	DA	3053	1/1	0.88	0.33	47,47,47,47	0
60	MG	BA	3349	1/1	0.88	0.21	55,55,55,55	0
60	MG	DA	3234	1/1	0.88	0.41	47,47,47,47	0
60	MG	BA	3025	1/1	0.88	0.34	55,55,55,55	0
60	MG	BA	3203	1/1	0.88	0.29	52,52,52,52	0
60	MG	BA	3278	1/1	0.88	0.21	51,51,51,51	0
60	MG	DA	3244	1/1	0.88	0.24	47,47,47,47	0
60	MG	DA	3075	1/1	0.88	0.29	47,47,47,47	0
60	MG	BA	3072	1/1	0.88	0.28	53,53,53,53	0
60	MG	BD	302	1/1	0.88	0.39	47,47,47,47	0
60	MG	CA	1601	1/1	0.88	0.25	56,56,56,56	0
60	MG	DA	3259	1/1	0.88	0.28	58,58,58,58	0
60	MG	CA	1718	1/1	0.88	0.14	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3079	1/1	0.88	0.35	49,49,49,49	0
60	MG	BA	3291	1/1	0.88	0.23	54,54,54,54	0
60	MG	DA	3268	1/1	0.88	0.42	59,59,59,59	0
60	MG	AV	102	1/1	0.88	0.36	54,54,54,54	0
60	MG	CA	1610	1/1	0.88	0.27	48,48,48,48	0
60	MG	DA	3093	1/1	0.88	0.43	50,50,50,50	0
60	MG	DA	3278	1/1	0.88	0.32	51,51,51,51	0
60	MG	DA	3283	1/1	0.88	0.21	65,65,65,65	0
60	MG	BA	3027	1/1	0.88	0.20	50,50,50,50	0
60	MG	BA	3299	1/1	0.88	0.23	55,55,55,55	0
60	MG	CA	1738	1/1	0.88	0.27	55,55,55,55	0
60	MG	AA	1708	1/1	0.88	0.17	65,65,65,65	0
60	MG	CA	1617	1/1	0.88	0.09	51,51,51,51	0
60	MG	DA	3102	1/1	0.88	0.38	47,47,47,47	0
60	MG	CA	1618	1/1	0.88	0.23	49,49,49,49	0
60	MG	DA	3304	1/1	0.88	0.37	55,55,55,55	0
60	MG	CA	1747	1/1	0.88	0.21	55,55,55,55	1
60	MG	BA	3215	1/1	0.88	0.44	60,60,60,60	0
60	MG	BA	3216	1/1	0.88	0.09	49,49,49,49	0
60	MG	DA	3126	1/1	0.88	0.51	47,47,47,47	0
60	MG	BA	3227	1/1	0.88	0.24	55,55,55,55	0
60	MG	CN	101	1/1	0.88	0.19	55,55,55,55	0
60	MG	CV	101	1/1	0.88	0.37	49,49,49,49	0
60	MG	DA	3137	1/1	0.88	0.44	50,50,50,50	0
60	MG	DA	3139	1/1	0.88	0.24	50,50,50,50	0
60	MG	DA	3142	1/1	0.88	0.32	49,49,49,49	0
60	MG	BA	3309	1/1	0.88	0.16	55,55,55,55	0
60	MG	DA	3339	1/1	0.88	0.13	55,55,55,55	0
60	MG	CV	103	1/1	0.88	0.14	54,54,54,54	0
60	MG	DA	3349	1/1	0.88	0.28	55,55,55,55	0
60	MG	DA	3353	1/1	0.88	0.23	55,55,55,55	0
60	MG	BA	3031	1/1	0.88	0.25	50,50,50,50	0
60	MG	BA	3315	1/1	0.88	0.18	55,55,55,55	1
60	MG	BA	3033	1/1	0.88	0.62	47,47,47,47	0
60	MG	AA	1639	1/1	0.89	0.09	53,53,53,53	0
60	MG	B7	101	1/1	0.89	0.26	49,49,49,49	0
60	MG	BA	3064	1/1	0.89	0.42	53,53,53,53	0
60	MG	CA	1730	1/1	0.89	0.06	55,55,55,55	0
60	MG	BA	3303	1/1	0.89	0.21	55,55,55,55	0
60	MG	BA	3013	1/1	0.89	0.33	47,47,47,47	0
60	MG	CA	1626	1/1	0.89	0.12	53,53,53,53	0
60	MG	CA	1627	1/1	0.89	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
60	MG	CA	1635	1/1	0.89	0.35	49,49,49,49	0
60	MG	CA	1639	1/1	0.89	0.22	48,48,48,48	0
60	MG	BA	3220	1/1	0.89	0.26	54,54,54,54	0
60	MG	AA	1644	1/1	0.89	0.18	49,49,49,49	0
60	MG	AA	1745	1/1	0.89	0.46	55,55,55,55	0
60	MG	AA	1705	1/1	0.89	0.20	51,51,51,51	0
60	MG	AA	1640	1/1	0.89	0.31	48,48,48,48	0
60	MG	AA	1748	1/1	0.89	0.17	55,55,55,55	0
60	MG	DA	3257	1/1	0.89	0.33	55,55,55,55	0
60	MG	BA	3168	1/1	0.89	0.33	47,47,47,47	0
60	MG	AA	1709	1/1	0.89	0.32	50,50,50,50	0
60	MG	DA	3261	1/1	0.89	0.25	57,57,57,57	0
60	MG	BA	3239	1/1	0.89	0.09	55,55,55,55	0
60	MG	DA	3116	1/1	0.89	0.26	50,50,50,50	0
60	MG	AA	1757	1/1	0.89	0.20	55,55,55,55	0
60	MG	AA	1727	1/1	0.89	0.23	55,55,55,55	0
60	MG	BA	3242	1/1	0.89	0.20	47,47,47,47	0
60	MG	CY	401	1/1	0.89	0.35	55,55,55,55	0
60	MG	BA	3101	1/1	0.89	0.40	47,47,47,47	0
60	MG	DA	3282	1/1	0.89	0.24	57,57,57,57	0
60	MG	AA	1729	1/1	0.89	0.17	55,55,55,55	0
60	MG	AA	1711	1/1	0.89	0.17	47,47,47,47	0
60	MG	BA	3185	1/1	0.89	0.43	50,50,50,50	0
60	MG	DA	3018	1/1	0.89	0.36	52,52,52,52	0
60	MG	DA	3144	1/1	0.89	0.24	57,57,57,57	0
60	MG	BA	3036	1/1	0.89	0.21	53,53,53,53	0
60	MG	BA	3263	1/1	0.89	0.14	56,56,56,56	0
60	MG	AA	1670	1/1	0.89	0.16	69,69,69,69	0
60	MG	AV	104	1/1	0.89	0.06	54,54,54,54	0
60	MG	DA	3032	1/1	0.89	0.26	50,50,50,50	0
60	MG	CA	1692	1/1	0.89	0.32	59,59,59,59	0
60	MG	BA	3266	1/1	0.89	0.27	59,59,59,59	0
60	MG	CA	1694	1/1	0.89	0.08	61,61,61,61	0
60	MG	BB	204	1/1	0.89	0.09	55,55,55,55	0
60	MG	CA	1697	1/1	0.89	0.07	62,62,62,62	0
60	MG	DA	3182	1/1	0.89	0.11	56,56,56,56	0
60	MG	DA	3329	1/1	0.89	0.20	55,55,55,55	0
60	MG	BA	3043	1/1	0.89	0.54	47,47,47,47	0
60	MG	AA	1684	1/1	0.89	0.14	49,49,49,49	0
60	MG	BA	3118	1/1	0.89	0.30	49,49,49,49	0
60	MG	DA	3050	1/1	0.89	0.42	47,47,47,47	0
60	MG	BA	3287	1/1	0.89	0.14	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	1622	1/1	0.89	0.16	48,48,48,48	0
60	MG	BA	3132	1/1	0.89	0.07	57,57,57,57	0
60	MG	BA	3208	1/1	0.89	0.24	51,51,51,51	0
60	MG	DB	201	1/1	0.89	0.20	67,67,67,67	0
60	MG	DA	3065	1/1	0.89	0.45	53,53,53,53	0
60	MG	CA	1608	1/1	0.89	0.22	52,52,52,52	0
60	MG	AW	105	1/1	0.89	0.06	53,53,53,53	0
60	MG	DA	3076	1/1	0.90	0.22	47,47,47,47	0
60	MG	CA	1628	1/1	0.90	0.17	56,56,56,56	0
60	MG	BA	3207	1/1	0.90	0.22	60,60,60,60	0
60	MG	CA	1638	1/1	0.90	0.33	53,53,53,53	0
60	MG	BA	3325	1/1	0.90	0.22	55,55,55,55	0
60	MG	BA	3158	1/1	0.90	0.58	49,49,49,49	0
60	MG	BA	3113	1/1	0.90	0.45	47,47,47,47	0
60	MG	DA	3237	1/1	0.90	0.22	60,60,60,60	0
60	MG	AA	1656	1/1	0.90	0.17	47,47,47,47	0
60	MG	CA	1647	1/1	0.90	0.06	62,62,62,62	0
60	MG	DA	3092	1/1	0.90	0.12	51,51,51,51	1
60	MG	AA	1658	1/1	0.90	0.06	49,49,49,49	0
60	MG	BA	3335	1/1	0.90	0.29	55,55,55,55	0
60	MG	AA	1636	1/1	0.90	0.20	49,49,49,49	0
60	MG	AA	1652	1/1	0.90	0.23	47,47,47,47	0
60	MG	BA	3219	1/1	0.90	0.23	49,49,49,49	0
60	MG	DA	3256	1/1	0.90	0.29	55,55,55,55	0
60	MG	BA	3276	1/1	0.90	0.31	58,58,58,58	0
60	MG	CV	105	1/1	0.90	0.10	50,50,50,50	0
60	MG	CA	1665	1/1	0.90	0.24	50,50,50,50	0
60	MG	BA	3277	1/1	0.90	0.51	57,57,57,57	0
60	MG	BA	3176	1/1	0.90	0.39	48,48,48,48	0
60	MG	BA	3279	1/1	0.90	0.10	55,55,55,55	0
60	MG	CA	1672	1/1	0.90	0.27	53,53,53,53	0
60	MG	DA	3269	1/1	0.90	0.43	52,52,52,52	0
60	MG	BA	3224	1/1	0.90	0.21	51,51,51,51	0
60	MG	BA	3283	1/1	0.90	0.31	65,65,65,65	0
60	MG	DA	3275	1/1	0.90	0.30	59,59,59,59	0
60	MG	AA	1753	1/1	0.90	0.15	55,55,55,55	1
60	MG	DA	3277	1/1	0.90	0.53	57,57,57,57	0
60	MG	AA	1754	1/1	0.90	0.09	55,55,55,55	0
60	MG	DA	3013	1/1	0.90	0.45	49,49,49,49	0
60	MG	DA	3138	1/1	0.90	0.22	52,52,52,52	0
60	MG	BA	3290	1/1	0.90	0.34	57,57,57,57	0
60	MG	DA	3289	1/1	0.90	0.35	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3231	1/1	0.90	0.28	51,51,51,51	0
60	MG	DA	3019	1/1	0.90	0.28	54,54,54,54	0
60	MG	BA	3233	1/1	0.90	0.45	47,47,47,47	0
60	MG	BF	301	1/1	0.90	0.35	47,47,47,47	0
60	MG	BS	201	1/1	0.90	0.20	55,55,55,55	0
60	MG	BA	3055	1/1	0.90	0.32	47,47,47,47	0
60	MG	DA	3030	1/1	0.90	0.24	55,55,55,55	0
60	MG	DA	3171	1/1	0.90	0.44	51,51,51,51	0
60	MG	CA	1602	1/1	0.90	0.19	52,52,52,52	0
60	MG	CA	1604	1/1	0.90	0.22	50,50,50,50	0
60	MG	AA	1719	1/1	0.90	0.17	56,56,56,56	0
60	MG	AA	1620	1/1	0.90	0.26	55,55,55,55	0
60	MG	DA	3325	1/1	0.90	0.26	55,55,55,55	0
60	MG	DA	3326	1/1	0.90	0.25	55,55,55,55	0
60	MG	CA	1699	1/1	0.90	0.10	53,53,53,53	1
60	MG	CA	1702	1/1	0.90	0.19	51,51,51,51	0
60	MG	BA	3012	1/1	0.90	0.41	49,49,49,49	0
60	MG	BA	3141	1/1	0.90	0.27	49,49,49,49	0
60	MG	BA	3070	1/1	0.90	0.37	50,50,50,50	0
60	MG	CA	1713	1/1	0.90	0.09	54,54,54,54	0
60	MG	BA	3305	1/1	0.90	0.35	55,55,55,55	0
60	MG	BA	3192	1/1	0.90	0.13	65,65,65,65	0
60	MG	DA	3058	1/1	0.90	0.41	47,47,47,47	0
60	MG	BA	3144	1/1	0.90	0.34	49,49,49,49	0
60	MG	DA	3351	1/1	0.90	0.19	55,55,55,55	0
60	MG	AA	1681	1/1	0.90	0.15	66,66,66,66	0
60	MG	BA	3149	1/1	0.90	0.32	54,54,54,54	0
60	MG	DB	202	1/1	0.90	0.32	55,55,55,55	0
60	MG	DB	203	1/1	0.90	0.38	55,55,55,55	0
60	MG	CA	1621	1/1	0.90	0.09	48,48,48,48	0
60	MG	AA	1627	1/1	0.90	0.10	53,53,53,53	0
60	MG	BA	3250	1/1	0.90	0.22	52,52,52,52	0
60	MG	CA	1749	1/1	0.91	0.07	55,55,55,55	0
60	MG	DA	3079	1/1	0.91	0.30	56,56,56,56	0
60	MG	CA	1751	1/1	0.91	0.06	55,55,55,55	0
60	MG	CA	1663	1/1	0.91	0.23	51,51,51,51	0
60	MG	B7	102	1/1	0.91	0.14	54,54,54,54	0
60	MG	BA	3311	1/1	0.91	0.18	55,55,55,55	0
60	MG	BA	3092	1/1	0.91	0.38	50,50,50,50	0
60	MG	BA	3093	1/1	0.91	0.29	51,51,51,51	0
60	MG	BA	3134	1/1	0.91	0.09	54,54,54,54	0
60	MG	DA	3091	1/1	0.91	0.28	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3178	1/1	0.91	0.12	52,52,52,52	0
60	MG	BA	3002	1/1	0.91	0.17	67,67,67,67	0
60	MG	DA	3094	1/1	0.91	0.29	51,51,51,51	0
60	MG	DA	3248	1/1	0.91	0.11	59,59,59,59	1
60	MG	DA	3250	1/1	0.91	0.20	56,56,56,56	0
60	MG	DA	3251	1/1	0.91	0.14	52,52,52,52	0
60	MG	BA	3324	1/1	0.91	0.11	55,55,55,55	0
60	MG	BA	3032	1/1	0.91	0.15	53,53,53,53	0
60	MG	CA	1681	1/1	0.91	0.13	66,66,66,66	0
60	MG	CA	1611	1/1	0.91	0.14	52,52,52,52	0
60	MG	BA	3326	1/1	0.91	0.33	55,55,55,55	0
60	MG	AA	1669	1/1	0.91	0.21	47,47,47,47	0
60	MG	D1	101	1/1	0.91	0.37	55,55,55,55	0
60	MG	DA	3104	1/1	0.91	0.24	50,50,50,50	0
60	MG	BA	3059	1/1	0.91	0.28	48,48,48,48	0
60	MG	CA	1616	1/1	0.91	0.20	54,54,54,54	0
60	MG	DA	3006	1/1	0.91	0.62	47,47,47,47	0
60	MG	BA	3060	1/1	0.91	0.37	47,47,47,47	0
60	MG	AA	1651	1/1	0.91	0.41	54,54,54,54	0
60	MG	DA	3128	1/1	0.91	0.23	56,56,56,56	0
60	MG	DA	3130	1/1	0.91	0.33	56,56,56,56	0
60	MG	DA	3015	1/1	0.91	0.38	53,53,53,53	0
60	MG	CA	1619	1/1	0.91	0.27	55,55,55,55	0
60	MG	BA	3285	1/1	0.91	0.19	55,55,55,55	0
60	MG	CA	1622	1/1	0.91	0.46	57,57,57,57	0
60	MG	DA	3020	1/1	0.91	0.30	47,47,47,47	0
60	MG	DA	3285	1/1	0.91	0.27	55,55,55,55	0
60	MG	DA	3021	1/1	0.91	0.43	47,47,47,47	0
60	MG	CA	1625	1/1	0.91	0.23	53,53,53,53	0
60	MG	AA	1646	1/1	0.91	0.18	50,50,50,50	0
60	MG	BA	3069	1/1	0.91	0.31	48,48,48,48	0
60	MG	DA	3298	1/1	0.91	0.25	55,55,55,55	0
60	MG	BA	3145	1/1	0.91	0.26	47,47,47,47	0
60	MG	CA	1630	1/1	0.91	0.23	47,47,47,47	0
60	MG	BA	3195	1/1	0.91	0.34	52,52,52,52	0
60	MG	BA	3147	1/1	0.91	0.30	51,51,51,51	0
60	MG	BA	3294	1/1	0.91	0.12	52,52,52,52	0
60	MG	AA	1607	1/1	0.91	0.29	58,58,58,58	0
60	MG	DA	3038	1/1	0.91	0.39	47,47,47,47	0
60	MG	DA	3319	1/1	0.91	0.12	55,55,55,55	0
60	MG	BA	3296	1/1	0.91	0.37	55,55,55,55	0
60	MG	AA	1641	1/1	0.91	0.20	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BB	202	1/1	0.91	0.34	55,55,55,55	0
60	MG	CA	1723	1/1	0.91	0.05	55,55,55,55	0
60	MG	DA	3047	1/1	0.91	0.37	47,47,47,47	0
60	MG	CA	1724	1/1	0.91	0.11	57,57,57,57	1
60	MG	CA	1648	1/1	0.91	0.11	53,53,53,53	1
60	MG	CA	1649	1/1	0.91	0.29	47,47,47,47	0
60	MG	DA	3190	1/1	0.91	0.20	59,59,59,59	0
60	MG	BA	3151	1/1	0.91	0.15	47,47,47,47	0
60	MG	BA	3152	1/1	0.91	0.16	50,50,50,50	0
60	MG	DA	3195	1/1	0.91	0.23	53,53,53,53	0
60	MG	DA	3340	1/1	0.91	0.24	55,55,55,55	0
60	MG	CA	1736	1/1	0.91	0.21	55,55,55,55	0
60	MG	DA	3198	1/1	0.91	0.44	58,58,58,58	0
60	MG	AY	401	1/1	0.91	0.39	55,55,55,55	0
60	MG	DA	3064	1/1	0.91	0.34	56,56,56,56	0
60	MG	CA	1658	1/1	0.91	0.07	49,49,49,49	0
60	MG	BA	3114	1/1	0.91	0.20	48,48,48,48	0
60	MG	DA	3207	1/1	0.91	0.27	47,47,47,47	0
60	MG	AA	1734	1/1	0.91	0.08	55,55,55,55	0
60	MG	AA	1650	1/1	0.91	0.34	47,47,47,47	0
60	MG	CA	1748	1/1	0.91	0.27	55,55,55,55	1
60	MG	DA	3213	1/1	0.92	0.14	55,55,55,55	0
60	MG	DA	3081	1/1	0.92	0.31	52,52,52,52	0
60	MG	DA	3216	1/1	0.92	0.36	60,60,60,60	0
60	MG	AA	1701	1/1	0.92	0.12	51,51,51,51	0
60	MG	CA	1683	1/1	0.92	0.15	47,47,47,47	0
60	MG	DA	3223	1/1	0.92	0.18	49,49,49,49	0
60	MG	DA	3224	1/1	0.92	0.14	52,52,52,52	0
60	MG	CV	107	1/1	0.92	0.19	54,54,54,54	0
60	MG	BA	3316	1/1	0.92	0.17	55,55,55,55	0
60	MG	AA	1624	1/1	0.92	0.08	48,48,48,48	0
60	MG	BA	3254	1/1	0.92	0.38	60,60,60,60	0
60	MG	DA	3233	1/1	0.92	0.35	53,53,53,53	0
60	MG	CA	1614	1/1	0.92	0.41	53,53,53,53	0
60	MG	AA	1630	1/1	0.92	0.37	51,51,51,51	0
60	MG	BA	3322	1/1	0.92	0.35	55,55,55,55	0
60	MG	AA	1632	1/1	0.92	0.22	53,53,53,53	0
60	MG	BA	3023	1/1	0.92	0.46	49,49,49,49	0
60	MG	DA	3241	1/1	0.92	0.06	55,55,55,55	0
60	MG	AA	1706	1/1	0.92	0.08	51,51,51,51	0
60	MG	BA	3327	1/1	0.92	0.23	55,55,55,55	0
60	MG	DA	3011	1/1	0.92	0.24	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3012	1/1	0.92	0.23	47,47,47,47	0
60	MG	AV	105	1/1	0.92	0.21	50,50,50,50	1
60	MG	BA	3058	1/1	0.92	0.43	55,55,55,55	0
60	MG	DA	3016	1/1	0.92	0.25	47,47,47,47	0
60	MG	CA	1704	1/1	0.92	0.27	62,62,62,62	0
60	MG	DA	3105	1/1	0.92	0.40	48,48,48,48	0
60	MG	AA	1707	1/1	0.92	0.27	49,49,49,49	0
60	MG	BA	3155	1/1	0.92	0.26	51,51,51,51	0
60	MG	DA	3109	1/1	0.92	0.29	52,52,52,52	0
60	MG	DA	3112	1/1	0.92	0.32	52,52,52,52	0
60	MG	DA	3264	1/1	0.92	0.19	56,56,56,56	0
60	MG	BA	3333	1/1	0.92	0.44	55,55,55,55	0
60	MG	AA	1663	1/1	0.92	0.17	51,51,51,51	0
60	MG	DA	3119	1/1	0.92	0.34	49,49,49,49	0
60	MG	DA	3121	1/1	0.92	0.28	50,50,50,50	0
60	MG	DA	3271	1/1	0.92	0.43	51,51,51,51	0
60	MG	BA	3110	1/1	0.92	0.27	49,49,49,49	0
60	MG	DA	3273	1/1	0.92	0.16	58,58,58,58	0
60	MG	CA	1637	1/1	0.92	0.22	52,52,52,52	0
60	MG	BA	3061	1/1	0.92	0.33	48,48,48,48	0
60	MG	AA	1674	1/1	0.92	0.07	50,50,50,50	0
60	MG	BA	3030	1/1	0.92	0.39	47,47,47,47	0
60	MG	AA	1710	1/1	0.92	0.06	55,55,55,55	0
60	MG	DA	3280	1/1	0.92	0.16	57,57,57,57	0
60	MG	CA	1722	1/1	0.92	0.13	55,55,55,55	0
60	MG	BA	3230	1/1	0.92	0.20	54,54,54,54	0
60	MG	DA	3035	1/1	0.92	0.26	50,50,50,50	0
60	MG	DA	3141	1/1	0.92	0.15	56,56,56,56	0
60	MG	DA	3287	1/1	0.92	0.33	51,51,51,51	0
60	MG	DA	3288	1/1	0.92	0.15	66,66,66,66	0
60	MG	CA	1645	1/1	0.92	0.16	50,50,50,50	0
60	MG	DA	3290	1/1	0.92	0.40	57,57,57,57	0
60	MG	DA	3037	1/1	0.92	0.27	53,53,53,53	0
60	MG	AA	1664	1/1	0.92	0.10	60,60,60,60	0
60	MG	DA	3149	1/1	0.92	0.17	47,47,47,47	0
60	MG	DA	3297	1/1	0.92	0.40	55,55,55,55	0
60	MG	BA	3071	1/1	0.92	0.28	47,47,47,47	0
60	MG	BA	3126	1/1	0.92	0.17	52,52,52,52	0
60	MG	DA	3157	1/1	0.92	0.43	48,48,48,48	0
60	MG	BB	201	1/1	0.92	0.10	67,67,67,67	0
60	MG	DA	3162	1/1	0.92	0.16	47,47,47,47	0
60	MG	DA	3044	1/1	0.92	0.39	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	1604	1/1	0.92	0.20	61,61,61,61	0
60	MG	DA	3046	1/1	0.92	0.44	47,47,47,47	0
60	MG	DA	3317	1/1	0.92	0.14	55,55,55,55	0
60	MG	DA	3173	1/1	0.92	0.26	58,58,58,58	0
60	MG	DA	3175	1/1	0.92	0.35	56,56,56,56	0
60	MG	BA	3077	1/1	0.92	0.24	51,51,51,51	0
60	MG	BA	3184	1/1	0.92	0.28	47,47,47,47	0
60	MG	BA	3298	1/1	0.92	0.27	55,55,55,55	0
60	MG	AA	1649	1/1	0.92	0.13	53,53,53,53	0
60	MG	AE	201	1/1	0.92	0.21	57,57,57,57	0
60	MG	BA	3003	1/1	0.92	0.18	61,61,61,61	0
60	MG	DA	3333	1/1	0.92	0.14	55,55,55,55	0
60	MG	BA	3084	1/1	0.92	0.32	47,47,47,47	0
60	MG	DA	3184	1/1	0.92	0.41	49,49,49,49	0
60	MG	BA	3007	1/1	0.92	0.34	52,52,52,52	0
60	MG	DA	3061	1/1	0.92	0.35	47,47,47,47	0
60	MG	DA	3062	1/1	0.92	0.34	48,48,48,48	0
60	MG	BA	3243	1/1	0.92	0.38	53,53,53,53	0
60	MG	DA	3343	1/1	0.92	0.10	55,55,55,55	0
60	MG	BA	3245	1/1	0.92	0.11	53,53,53,53	0
60	MG	DA	3067	1/1	0.92	0.50	50,50,50,50	0
60	MG	BA	3091	1/1	0.92	0.14	51,51,51,51	0
60	MG	DA	3071	1/1	0.92	0.28	50,50,50,50	0
60	MG	BA	3042	1/1	0.92	0.54	47,47,47,47	0
60	MG	BA	3312	1/1	0.92	0.27	55,55,55,55	0
60	MG	BA	3198	1/1	0.92	0.28	53,53,53,53	0
60	MG	CA	1609	1/1	0.92	0.20	55,55,55,55	0
60	MG	CV	104	1/1	0.92	0.05	54,54,54,54	0
60	MG	DQ	201	1/1	0.92	0.19	55,55,55,55	0
60	MG	DU	201	1/1	0.92	0.42	48,48,48,48	0
60	MG	DA	3080	1/1	0.92	0.39	49,49,49,49	0
60	MG	BA	3066	1/1	0.93	0.53	50,50,50,50	0
60	MG	CA	1629	1/1	0.93	0.25	51,51,51,51	0
60	MG	DA	3123	1/1	0.93	0.32	64,64,64,64	1
60	MG	CA	1717	1/1	0.93	0.11	52,52,52,52	0
60	MG	DA	3249	1/1	0.93	0.06	56,56,56,56	0
60	MG	DA	3127	1/1	0.93	0.22	52,52,52,52	0
60	MG	BA	3272	1/1	0.93	0.07	59,59,59,59	1
60	MG	BA	3210	1/1	0.93	0.27	57,57,57,57	0
60	MG	DA	3131	1/1	0.93	0.13	48,48,48,48	0
60	MG	BA	3107	1/1	0.93	0.20	51,51,51,51	0
60	MG	BA	3011	1/1	0.93	0.20	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3160	1/1	0.93	0.18	47,47,47,47	0
60	MG	CA	1640	1/1	0.93	0.29	47,47,47,47	0
60	MG	BA	3035	1/1	0.93	0.19	55,55,55,55	0
60	MG	DA	3262	1/1	0.93	0.10	52,52,52,52	0
60	MG	DA	3263	1/1	0.93	0.19	63,63,63,63	0
60	MG	BA	3165	1/1	0.93	0.37	47,47,47,47	0
60	MG	BA	3282	1/1	0.93	0.28	57,57,57,57	0
60	MG	AA	1756	1/1	0.93	0.09	55,55,55,55	1
60	MG	BA	3038	1/1	0.93	0.27	51,51,51,51	0
60	MG	CA	1734	1/1	0.93	0.04	55,55,55,55	1
60	MG	DA	3148	1/1	0.93	0.26	51,51,51,51	0
60	MG	BA	3350	1/1	0.93	0.23	55,55,55,55	0
60	MG	DA	3049	1/1	0.93	0.35	47,47,47,47	0
60	MG	BA	3226	1/1	0.93	0.17	56,56,56,56	0
60	MG	CA	1650	1/1	0.93	0.41	54,54,54,54	0
60	MG	BA	3352	1/1	0.93	0.22	55,55,55,55	0
60	MG	AA	1682	1/1	0.93	0.18	53,53,53,53	0
60	MG	BA	3228	1/1	0.93	0.34	52,52,52,52	0
60	MG	DA	3279	1/1	0.93	0.11	55,55,55,55	0
60	MG	DA	3169	1/1	0.93	0.29	47,47,47,47	0
60	MG	DA	3281	1/1	0.93	0.13	57,57,57,57	0
60	MG	BA	3015	1/1	0.93	0.32	47,47,47,47	0
60	MG	AW	102	1/1	0.93	0.04	60,60,60,60	1
60	MG	BA	3080	1/1	0.93	0.34	52,52,52,52	0
60	MG	BA	3232	1/1	0.93	0.23	53,53,53,53	0
60	MG	BA	3081	1/1	0.93	0.26	47,47,47,47	0
60	MG	BA	3180	1/1	0.93	0.13	56,56,56,56	0
60	MG	CA	1666	1/1	0.93	0.11	57,57,57,57	0
60	MG	DA	3070	1/1	0.93	0.20	48,48,48,48	0
60	MG	DA	3291	1/1	0.93	0.32	54,54,54,54	0
60	MG	BA	3017	1/1	0.93	0.28	52,52,52,52	0
60	MG	BU	201	1/1	0.93	0.20	48,48,48,48	0
60	MG	BA	3044	1/1	0.93	0.39	56,56,56,56	0
60	MG	AA	1691	1/1	0.93	0.21	59,59,59,59	0
60	MG	CA	1673	1/1	0.93	0.10	52,52,52,52	1
60	MG	DA	3186	1/1	0.93	0.44	50,50,50,50	0
60	MG	CA	1603	1/1	0.93	0.20	61,61,61,61	0
60	MG	BA	3086	1/1	0.93	0.34	48,48,48,48	0
60	MG	AA	1657	1/1	0.93	0.09	54,54,54,54	0
60	MG	CA	1678	1/1	0.93	0.12	49,49,49,49	0
60	MG	BA	3090	1/1	0.93	0.25	48,48,48,48	0
60	MG	B1	101	1/1	0.93	0.39	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3197	1/1	0.93	0.39	47,47,47,47	0
60	MG	DA	3318	1/1	0.93	0.07	55,55,55,55	0
60	MG	BA	3049	1/1	0.93	0.35	47,47,47,47	0
60	MG	AA	1728	1/1	0.93	0.14	55,55,55,55	0
60	MG	BA	3193	1/1	0.93	0.15	53,53,53,53	0
60	MG	DA	3204	1/1	0.93	0.29	52,52,52,52	0
60	MG	DA	3003	1/1	0.93	0.10	67,67,67,67	0
60	MG	B5	102	1/1	0.93	0.24	53,53,53,53	0
60	MG	BA	3247	1/1	0.93	0.07	59,59,59,59	0
60	MG	BA	3095	1/1	0.93	0.42	60,60,60,60	0
60	MG	DA	3331	1/1	0.93	0.05	55,55,55,55	1
60	MG	DA	3010	1/1	0.93	0.48	47,47,47,47	0
60	MG	DA	3214	1/1	0.93	0.26	58,58,58,58	0
60	MG	BA	3249	1/1	0.93	0.22	56,56,56,56	0
60	MG	AA	1750	1/1	0.93	0.11	55,55,55,55	0
60	MG	BA	3202	1/1	0.93	0.35	47,47,47,47	0
60	MG	DA	3338	1/1	0.93	0.38	55,55,55,55	0
60	MG	AA	1606	1/1	0.93	0.14	59,59,59,59	0
60	MG	AA	1741	1/1	0.93	0.42	55,55,55,55	0
60	MG	BA	3205	1/1	0.93	0.08	50,50,50,50	0
60	MG	CA	1620	1/1	0.93	0.12	56,56,56,56	0
60	MG	BA	3259	1/1	0.93	0.18	59,59,59,59	0
60	MG	DA	3350	1/1	0.93	0.33	55,55,55,55	0
60	MG	BA	3260	1/1	0.93	0.21	57,57,57,57	0
60	MG	DA	3230	1/1	0.93	0.08	49,49,49,49	0
60	MG	CA	1707	1/1	0.93	0.30	51,51,51,51	0
60	MG	DA	3023	1/1	0.93	0.45	47,47,47,47	0
60	MG	CA	1709	1/1	0.93	0.13	65,65,65,65	0
60	MG	AA	1721	1/1	0.93	0.15	55,55,55,55	1
60	MG	DA	3115	1/1	0.93	0.19	48,48,48,48	0
60	MG	BA	3004	1/1	0.93	0.18	53,53,53,53	0
60	MG	AV	106	1/1	0.93	0.13	57,57,57,57	0
60	MG	DA	3118	1/1	0.93	0.28	52,52,52,52	0
60	MG	BA	3271	1/1	0.94	0.45	51,51,51,51	0
60	MG	BA	3321	1/1	0.94	0.19	55,55,55,55	0
60	MG	DA	3140	1/1	0.94	0.12	50,50,50,50	1
60	MG	AA	1752	1/1	0.94	0.06	55,55,55,55	0
60	MG	DA	3255	1/1	0.94	0.32	60,60,60,60	0
60	MG	BA	3150	1/1	0.94	0.33	51,51,51,51	0
60	MG	AA	1680	1/1	0.94	0.15	49,49,49,49	0
60	MG	BA	3050	1/1	0.94	0.33	47,47,47,47	0
60	MG	DA	3146	1/1	0.94	0.39	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3054	1/1	0.94	0.20	51,51,51,51	0
60	MG	DA	3056	1/1	0.94	0.30	47,47,47,47	0
60	MG	DA	3153	1/1	0.94	0.14	50,50,50,50	0
60	MG	DA	3057	1/1	0.94	0.42	47,47,47,47	0
60	MG	CA	1677	1/1	0.94	0.46	55,55,55,55	1
60	MG	BA	3074	1/1	0.94	0.24	47,47,47,47	0
60	MG	DA	3267	1/1	0.94	0.33	54,54,54,54	0
60	MG	BA	3097	1/1	0.94	0.28	47,47,47,47	0
60	MG	DA	3161	1/1	0.94	0.15	47,47,47,47	0
60	MG	BA	3194	1/1	0.94	0.29	53,53,53,53	0
60	MG	BA	3129	1/1	0.94	0.25	56,56,56,56	0
60	MG	DA	3167	1/1	0.94	0.16	47,47,47,47	0
60	MG	BA	3196	1/1	0.94	0.32	47,47,47,47	0
60	MG	CA	1686	1/1	0.94	0.14	57,57,57,57	0
60	MG	BA	3021	1/1	0.94	0.30	47,47,47,47	0
60	MG	AA	1726	1/1	0.94	0.10	56,56,56,56	0
60	MG	DA	3069	1/1	0.94	0.25	47,47,47,47	0
60	MG	BA	3162	1/1	0.94	0.39	50,50,50,50	0
60	MG	BA	3163	1/1	0.94	0.26	53,53,53,53	0
60	MG	BA	3037	1/1	0.94	0.30	47,47,47,47	0
60	MG	DA	3074	1/1	0.94	0.27	52,52,52,52	0
60	MG	BA	3166	1/1	0.94	0.10	47,47,47,47	0
60	MG	BA	3340	1/1	0.94	0.24	55,55,55,55	0
60	MG	AA	1615	1/1	0.94	0.43	53,53,53,53	0
60	MG	D3	101	1/1	0.94	0.35	58,58,58,58	0
60	MG	D5	101	1/1	0.94	0.15	49,49,49,49	0
60	MG	BA	3169	1/1	0.94	0.36	51,51,51,51	0
60	MG	DA	3187	1/1	0.94	0.20	51,51,51,51	0
60	MG	BA	3344	1/1	0.94	0.26	55,55,55,55	0
60	MG	DA	3189	1/1	0.94	0.26	57,57,57,57	0
60	MG	DA	3293	1/1	0.94	0.17	52,52,52,52	0
60	MG	DA	3004	1/1	0.94	0.18	61,61,61,61	0
60	MG	AA	1690	1/1	0.94	0.42	52,52,52,52	0
60	MG	DA	3192	1/1	0.94	0.06	61,61,61,61	1
60	MG	BA	3348	1/1	0.94	0.40	55,55,55,55	0
60	MG	DA	3194	1/1	0.94	0.24	53,53,53,53	0
60	MG	DA	3008	1/1	0.94	0.24	52,52,52,52	0
60	MG	DA	3301	1/1	0.94	0.24	55,55,55,55	0
60	MG	BA	3297	1/1	0.94	0.24	55,55,55,55	0
60	MG	BA	3104	1/1	0.94	0.41	48,48,48,48	0
60	MG	DA	3306	1/1	0.94	0.14	55,55,55,55	0
60	MG	CA	1708	1/1	0.94	0.19	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3311	1/1	0.94	0.27	55,55,55,55	0
60	MG	DA	3200	1/1	0.94	0.41	58,58,58,58	0
60	MG	DA	3314	1/1	0.94	0.19	55,55,55,55	1
60	MG	AA	1631	1/1	0.94	0.18	47,47,47,47	0
60	MG	BA	3139	1/1	0.94	0.06	50,50,50,50	0
60	MG	CA	1711	1/1	0.94	0.05	55,55,55,55	0
60	MG	BA	3353	1/1	0.94	0.28	55,55,55,55	0
60	MG	BA	3354	1/1	0.94	0.09	55,55,55,55	0
60	MG	DA	3323	1/1	0.94	0.17	55,55,55,55	0
60	MG	BA	3213	1/1	0.94	0.15	58,58,58,58	0
60	MG	BA	3302	1/1	0.94	0.22	55,55,55,55	0
60	MG	AA	1660	1/1	0.94	0.09	58,58,58,58	0
60	MG	AA	1676	1/1	0.94	0.16	58,58,58,58	0
60	MG	AA	1614	1/1	0.94	0.11	52,52,52,52	0
60	MG	DA	3024	1/1	0.94	0.57	49,49,49,49	0
60	MG	BA	3089	1/1	0.94	0.33	48,48,48,48	0
60	MG	BA	3257	1/1	0.94	0.09	51,51,51,51	0
60	MG	DA	3220	1/1	0.94	0.29	49,49,49,49	0
60	MG	DA	3221	1/1	0.94	0.26	54,54,54,54	0
60	MG	BA	3182	1/1	0.94	0.33	49,49,49,49	0
60	MG	BP	201	1/1	0.94	0.16	49,49,49,49	0
60	MG	DA	3029	1/1	0.94	0.23	52,52,52,52	0
60	MG	CA	1656	1/1	0.94	0.36	47,47,47,47	0
60	MG	DA	3031	1/1	0.94	0.52	47,47,47,47	0
60	MG	BQ	201	1/1	0.94	0.29	55,55,55,55	0
60	MG	DA	3344	1/1	0.94	0.57	55,55,55,55	0
60	MG	DA	3346	1/1	0.94	0.54	55,55,55,55	0
60	MG	DA	3347	1/1	0.94	0.12	55,55,55,55	0
60	MG	BA	3222	1/1	0.94	0.18	49,49,49,49	0
60	MG	BA	3313	1/1	0.94	0.18	55,55,55,55	0
60	MG	CA	1731	1/1	0.94	0.16	55,55,55,55	0
60	MG	BA	3223	1/1	0.94	0.09	52,52,52,52	0
60	MG	CA	1662	1/1	0.94	0.26	52,52,52,52	0
60	MG	BA	3111	1/1	0.94	0.21	52,52,52,52	0
60	MG	CA	1737	1/1	0.94	0.12	55,55,55,55	1
60	MG	DA	3041	1/1	0.94	0.18	47,47,47,47	0
60	MG	AA	1749	1/1	0.94	0.24	55,55,55,55	0
60	MG	BA	3317	1/1	0.94	0.18	55,55,55,55	0
60	MG	DF	302	1/1	0.94	0.07	53,53,53,53	0
60	MG	AA	1623	1/1	0.94	0.15	57,57,57,57	0
60	MG	CA	1742	1/1	0.94	0.49	55,55,55,55	0
60	MG	BA	3268	1/1	0.94	0.42	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3130	1/1	0.95	0.12	48,48,48,48	0
60	MG	BA	3201	1/1	0.95	0.12	52,52,52,52	0
60	MG	DA	3174	1/1	0.95	0.22	52,52,52,52	0
60	MG	AA	1702	1/1	0.95	0.22	47,47,47,47	0
60	MG	BA	3281	1/1	0.95	0.16	57,57,57,57	0
60	MG	AA	1730	1/1	0.95	0.29	55,55,55,55	0
60	MG	DA	3086	1/1	0.95	0.13	47,47,47,47	0
60	MG	DA	3179	1/1	0.95	0.38	47,47,47,47	0
60	MG	CA	1664	1/1	0.95	0.21	60,60,60,60	0
60	MG	BA	3167	1/1	0.95	0.22	53,53,53,53	0
60	MG	DA	3089	1/1	0.95	0.51	48,48,48,48	0
60	MG	CA	1728	1/1	0.95	0.23	55,55,55,55	0
60	MG	AA	1626	1/1	0.95	0.20	53,53,53,53	0
60	MG	BA	3098	1/1	0.95	0.18	54,54,54,54	0
60	MG	BA	3288	1/1	0.95	0.14	66,66,66,66	0
60	MG	BA	3334	1/1	0.95	0.19	55,55,55,55	0
60	MG	AA	1633	1/1	0.95	0.06	55,55,55,55	0
60	MG	CA	1735	1/1	0.95	0.06	55,55,55,55	1
60	MG	AW	104	1/1	0.95	0.04	56,56,56,56	0
60	MG	AA	1672	1/1	0.95	0.14	53,53,53,53	0
60	MG	AA	1634	1/1	0.95	0.30	52,52,52,52	0
60	MG	DA	3286	1/1	0.95	0.30	60,60,60,60	0
60	MG	CA	1739	1/1	0.95	0.10	55,55,55,55	0
60	MG	BA	3211	1/1	0.95	0.14	59,59,59,59	1
60	MG	BA	3075	1/1	0.95	0.20	47,47,47,47	0
60	MG	AA	1662	1/1	0.95	0.14	52,52,52,52	0
60	MG	B3	101	1/1	0.95	0.41	58,58,58,58	0
60	MG	CA	1745	1/1	0.95	0.14	55,55,55,55	0
60	MG	DA	3199	1/1	0.95	0.28	53,53,53,53	0
60	MG	CA	1680	1/1	0.95	0.15	49,49,49,49	0
60	MG	BA	3343	1/1	0.95	0.27	55,55,55,55	0
60	MG	DA	3114	1/1	0.95	0.28	47,47,47,47	0
60	MG	CA	1624	1/1	0.95	0.22	51,51,51,51	0
60	MG	CA	1750	1/1	0.95	0.20	55,55,55,55	0
60	MG	AA	1603	1/1	0.95	0.09	57,57,57,57	0
60	MG	CA	1685	1/1	0.95	0.15	47,47,47,47	0
60	MG	DA	3209	1/1	0.95	0.20	51,51,51,51	0
60	MG	BA	3252	1/1	0.95	0.29	49,49,49,49	0
60	MG	DA	3120	1/1	0.95	0.44	49,49,49,49	0
60	MG	CA	1754	1/1	0.95	0.10	55,55,55,55	0
60	MG	DA	3310	1/1	0.95	0.15	55,55,55,55	0
60	MG	DA	3122	1/1	0.95	0.12	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	CA	1755	1/1	0.95	0.16	55,55,55,55	0
60	MG	AA	1740	1/1	0.95	0.09	55,55,55,55	0
60	MG	BA	3217	1/1	0.95	0.30	51,51,51,51	0
60	MG	AA	1617	1/1	0.95	0.04	54,54,54,54	0
60	MG	DA	3129	1/1	0.95	0.14	50,50,50,50	0
60	MG	AA	1629	1/1	0.95	0.07	56,56,56,56	0
60	MG	DA	3051	1/1	0.95	0.23	47,47,47,47	0
60	MG	BA	3258	1/1	0.95	0.21	58,58,58,58	0
60	MG	DA	3226	1/1	0.95	0.14	51,51,51,51	0
60	MG	BA	3028	1/1	0.95	0.25	52,52,52,52	0
60	MG	BA	3085	1/1	0.95	0.15	47,47,47,47	0
60	MG	BA	3261	1/1	0.95	0.29	52,52,52,52	0
60	MG	BA	3310	1/1	0.95	0.14	55,55,55,55	0
60	MG	BA	3262	1/1	0.95	0.12	63,63,63,63	1
60	MG	CW	102	1/1	0.95	0.04	60,60,60,60	0
60	MG	DA	3332	1/1	0.95	0.33	55,55,55,55	0
60	MG	DA	3236	1/1	0.95	0.41	52,52,52,52	0
60	MG	CA	1701	1/1	0.95	0.12	51,51,51,51	0
60	MG	AA	1725	1/1	0.95	0.38	54,54,54,54	0
60	MG	AA	1602	1/1	0.95	0.22	52,52,52,52	0
60	MG	AA	1712	1/1	0.95	0.14	54,54,54,54	0
60	MG	CA	1706	1/1	0.95	0.13	51,51,51,51	0
60	MG	DA	3243	1/1	0.95	0.07	61,61,61,61	1
60	MG	BA	3190	1/1	0.95	0.27	54,54,54,54	0
60	MG	BA	3154	1/1	0.95	0.21	48,48,48,48	0
60	MG	DA	3150	1/1	0.95	0.45	54,54,54,54	0
60	MG	D5	102	1/1	0.95	0.24	53,53,53,53	0
60	MG	BA	3269	1/1	0.95	0.25	52,52,52,52	0
60	MG	BA	3117	1/1	0.95	0.21	52,52,52,52	0
60	MG	DA	3072	1/1	0.95	0.21	47,47,47,47	0
60	MG	AA	1612	1/1	0.95	0.09	52,52,52,52	0
60	MG	DA	3253	1/1	0.95	0.26	49,49,49,49	0
60	MG	BA	3008	1/1	0.95	0.34	55,55,55,55	0
60	MG	CA	1654	1/1	0.95	0.26	57,57,57,57	0
60	MG	BA	3009	1/1	0.95	0.46	47,47,47,47	0
60	MG	DA	3165	1/1	0.95	0.22	47,47,47,47	0
60	MG	DA	3258	1/1	0.95	0.17	51,51,51,51	1
60	MG	DA	3166	1/1	0.95	0.35	47,47,47,47	0
60	MG	BA	3010	1/1	0.95	0.24	52,52,52,52	0
60	MG	DA	3168	1/1	0.95	0.22	53,53,53,53	0
60	MG	DR	201	1/1	0.95	0.25	47,47,47,47	0
60	MG	CA	1657	1/1	0.95	0.20	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DX	101	1/1	0.95	0.09	55,55,55,55	0
60	MG	BA	3323	1/1	0.95	0.47	55,55,55,55	0
60	MG	CA	1732	1/1	0.96	0.19	55,55,55,55	0
60	MG	CA	1634	1/1	0.96	0.20	47,47,47,47	0
60	MG	BA	3156	1/1	0.96	0.39	48,48,48,48	0
60	MG	AA	1717	1/1	0.96	0.15	66,66,66,66	0
60	MG	BA	3159	1/1	0.96	0.31	55,55,55,55	0
60	MG	DA	3014	1/1	0.96	0.28	47,47,47,47	0
60	MG	DA	3135	1/1	0.96	0.33	54,54,54,54	0
60	MG	BA	3218	1/1	0.96	0.25	66,66,66,66	0
60	MG	AA	1671	1/1	0.96	0.19	47,47,47,47	0
60	MG	DA	3210	1/1	0.96	0.25	66,66,66,66	0
60	MG	BA	3286	1/1	0.96	0.26	60,60,60,60	0
60	MG	AA	1723	1/1	0.96	0.07	57,57,57,57	0
60	MG	CA	1691	1/1	0.96	0.42	52,52,52,52	0
60	MG	DA	3077	1/1	0.96	0.26	48,48,48,48	0
60	MG	BA	3221	1/1	0.96	0.31	53,53,53,53	0
60	MG	CA	1743	1/1	0.96	0.10	55,55,55,55	0
60	MG	AA	1685	1/1	0.96	0.09	57,57,57,57	0
60	MG	AW	103	1/1	0.96	0.04	54,54,54,54	0
60	MG	CA	1746	1/1	0.96	0.23	55,55,55,55	0
60	MG	DA	3222	1/1	0.96	0.31	53,53,53,53	0
60	MG	BA	3255	1/1	0.96	0.21	55,55,55,55	0
60	MG	BA	3330	1/1	0.96	0.10	55,55,55,55	0
60	MG	DA	3151	1/1	0.96	0.35	51,51,51,51	0
60	MG	DA	3302	1/1	0.96	0.24	55,55,55,55	0
60	MG	DA	3152	1/1	0.96	0.23	47,47,47,47	0
60	MG	DA	3227	1/1	0.96	0.14	56,56,56,56	0
60	MG	DA	3305	1/1	0.96	0.22	55,55,55,55	0
60	MG	BA	3067	1/1	0.96	0.17	50,50,50,50	0
60	MG	DA	3308	1/1	0.96	0.20	55,55,55,55	0
60	MG	BA	3293	1/1	0.96	0.14	55,55,55,55	1
60	MG	DA	3155	1/1	0.96	0.25	48,48,48,48	0
60	MG	CA	1700	1/1	0.96	0.09	54,54,54,54	0
60	MG	DA	3232	1/1	0.96	0.04	51,51,51,51	0
60	MG	BA	3088	1/1	0.96	0.54	48,48,48,48	0
60	MG	DA	3158	1/1	0.96	0.18	53,53,53,53	0
60	MG	DA	3235	1/1	0.96	0.23	49,49,49,49	0
60	MG	BA	3109	1/1	0.96	0.31	48,48,48,48	0
60	MG	CA	1703	1/1	0.96	0.20	47,47,47,47	0
60	MG	BA	3045	1/1	0.96	0.44	47,47,47,47	0
60	MG	DA	3322	1/1	0.96	0.42	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	DA	3163	1/1	0.96	0.31	50,50,50,50	0
60	MG	BA	3199	1/1	0.96	0.34	58,58,58,58	0
60	MG	CA	1757	1/1	0.96	0.09	55,55,55,55	0
60	MG	AA	1744	1/1	0.96	0.19	55,55,55,55	0
60	MG	AA	1665	1/1	0.96	0.27	50,50,50,50	0
60	MG	DA	3096	1/1	0.96	0.33	60,60,60,60	0
60	MG	DA	3246	1/1	0.96	0.23	60,60,60,60	0
60	MG	DA	3097	1/1	0.96	0.24	56,56,56,56	0
60	MG	DA	3170	1/1	0.96	0.27	49,49,49,49	1
60	MG	DA	3039	1/1	0.96	0.43	51,51,51,51	0
60	MG	BA	3005	1/1	0.96	0.56	47,47,47,47	0
60	MG	BA	3174	1/1	0.96	0.20	58,58,58,58	0
60	MG	BA	3019	1/1	0.96	0.38	47,47,47,47	0
60	MG	BA	3006	1/1	0.96	0.34	53,53,53,53	0
60	MG	BA	3267	1/1	0.96	0.25	54,54,54,54	0
60	MG	BA	3177	1/1	0.96	0.39	47,47,47,47	0
60	MG	BA	3345	1/1	0.96	0.08	55,55,55,55	0
60	MG	DA	3342	1/1	0.96	0.09	55,55,55,55	0
60	MG	AV	103	1/1	0.96	0.14	54,54,54,54	1
60	MG	BA	3270	1/1	0.96	0.33	67,67,67,67	0
60	MG	DA	3108	1/1	0.96	0.17	51,51,51,51	0
60	MG	BA	3076	1/1	0.96	0.15	48,48,48,48	0
60	MG	DA	3110	1/1	0.96	0.35	48,48,48,48	0
60	MG	DA	3111	1/1	0.96	0.20	49,49,49,49	0
60	MG	BA	3053	1/1	0.96	0.09	51,51,51,51	0
60	MG	DA	3113	1/1	0.96	0.21	48,48,48,48	0
60	MG	DA	3352	1/1	0.96	0.14	55,55,55,55	0
60	MG	CA	1671	1/1	0.96	0.13	47,47,47,47	0
60	MG	CA	1623	1/1	0.96	0.18	48,48,48,48	0
60	MG	BA	3124	1/1	0.96	0.20	49,49,49,49	0
60	MG	BA	3274	1/1	0.96	0.21	63,63,63,63	0
60	MG	DB	204	1/1	0.96	0.13	55,55,55,55	0
60	MG	BA	3275	1/1	0.96	0.17	59,59,59,59	0
60	MG	AA	1737	1/1	0.96	0.16	55,55,55,55	0
60	MG	DD	302	1/1	0.96	0.33	47,47,47,47	0
60	MG	DF	301	1/1	0.96	0.28	47,47,47,47	0
60	MG	DA	3002	1/1	0.96	0.39	54,54,54,54	1
60	MG	DF	303	1/1	0.96	0.38	59,59,59,59	0
60	MG	CA	1726	1/1	0.96	0.30	54,54,54,54	0
60	MG	AA	1738	1/1	0.96	0.10	55,55,55,55	0
60	MG	BA	3039	1/1	0.96	0.10	68,68,68,68	0
60	MG	BA	3131	1/1	0.96	0.27	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	CA	1631	1/1	0.96	0.37	53,53,53,53	0
60	MG	DA	3063	1/1	0.97	0.37	47,47,47,47	0
60	MG	DA	3312	1/1	0.97	0.17	55,55,55,55	0
60	MG	CA	1714	1/1	0.97	0.09	64,64,64,64	0
60	MG	AA	1731	1/1	0.97	0.24	55,55,55,55	0
60	MG	DA	3208	1/1	0.97	0.15	60,60,60,60	0
60	MG	DA	3160	1/1	0.97	0.24	55,55,55,55	0
60	MG	DA	3022	1/1	0.97	0.16	47,47,47,47	0
60	MG	AA	1742	1/1	0.97	0.06	55,55,55,55	0
60	MG	DA	3212	1/1	0.97	0.08	59,59,59,59	0
60	MG	BA	3078	1/1	0.97	0.37	56,56,56,56	0
60	MG	CL	201	1/1	0.97	0.20	51,51,51,51	1
60	MG	BA	3014	1/1	0.97	0.42	53,53,53,53	0
60	MG	BA	3096	1/1	0.97	0.24	56,56,56,56	0
60	MG	BA	3306	1/1	0.97	0.17	55,55,55,55	0
60	MG	DA	3218	1/1	0.97	0.34	51,51,51,51	0
60	MG	BA	3063	1/1	0.97	0.22	56,56,56,56	0
60	MG	BA	3308	1/1	0.97	0.33	55,55,55,55	0
60	MG	DA	3330	1/1	0.97	0.09	55,55,55,55	0
60	MG	CA	1644	1/1	0.97	0.05	57,57,57,57	0
60	MG	BA	3164	1/1	0.97	0.20	47,47,47,47	0
60	MG	CA	1646	1/1	0.97	0.26	62,62,62,62	0
60	MG	BA	3191	1/1	0.97	0.10	61,61,61,61	0
60	MG	DA	3125	1/1	0.97	0.20	49,49,49,49	0
60	MG	CA	1727	1/1	0.97	0.07	56,56,56,56	0
60	MG	AA	1609	1/1	0.97	0.07	52,52,52,52	0
60	MG	BA	3065	1/1	0.97	0.07	52,52,52,52	0
60	MG	CA	1689	1/1	0.97	0.13	63,63,63,63	1
60	MG	BA	3142	1/1	0.97	0.09	47,47,47,47	0
60	MG	DA	3341	1/1	0.97	0.23	55,55,55,55	0
60	MG	AA	1610	1/1	0.97	0.05	55,55,55,55	0
60	MG	BA	3347	1/1	0.97	0.29	55,55,55,55	0
60	MG	AA	1751	1/1	0.97	0.05	55,55,55,55	0
60	MG	DA	3345	1/1	0.97	0.36	55,55,55,55	0
60	MG	BA	3284	1/1	0.97	0.26	57,57,57,57	0
60	MG	BA	3225	1/1	0.97	0.07	51,51,51,51	0
60	MG	BA	3197	1/1	0.97	0.29	58,58,58,58	0
60	MG	BA	3122	1/1	0.97	0.25	64,64,64,64	1
60	MG	BA	3171	1/1	0.97	0.20	58,58,58,58	0
60	MG	BA	3172	1/1	0.97	0.24	52,52,52,52	0
60	MG	BA	3146	1/1	0.97	0.39	47,47,47,47	0
60	MG	BA	3051	1/1	0.97	0.20	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3125	1/1	0.97	0.47	47,47,47,47	0
60	MG	DA	3296	1/1	0.97	0.23	55,55,55,55	0
60	MG	BA	3001	1/1	0.97	0.09	54,54,54,54	0
60	MG	DA	3145	1/1	0.97	0.42	49,49,49,49	0
60	MG	BA	3127	1/1	0.97	0.10	56,56,56,56	0
60	MG	BA	3128	1/1	0.97	0.11	50,50,50,50	0
60	MG	DA	3055	1/1	0.97	0.26	47,47,47,47	0
60	MG	CA	1667	1/1	0.97	0.23	47,47,47,47	0
60	MG	AA	1625	1/1	0.97	0.16	51,51,51,51	0
60	MG	BA	3020	1/1	0.97	0.38	47,47,47,47	0
60	MG	BA	3056	1/1	0.97	0.39	47,47,47,47	0
60	MG	AA	1619	1/1	0.97	0.39	49,49,49,49	0
60	MG	CA	1633	1/1	0.97	0.49	52,52,52,52	0
60	MG	DA	3203	1/1	0.97	0.38	47,47,47,47	0
60	MG	BA	3022	1/1	0.97	0.40	47,47,47,47	0
60	MG	BA	3062	1/1	0.98	0.40	47,47,47,47	0
60	MG	BA	3119	1/1	0.98	0.46	49,49,49,49	0
60	MG	DA	3007	1/1	0.98	0.31	53,53,53,53	0
60	MG	AA	1605	1/1	0.98	0.07	50,50,50,50	0
60	MG	CA	1632	1/1	0.98	0.03	55,55,55,55	0
60	MG	AA	1661	1/1	0.98	0.16	52,52,52,52	0
60	MG	BA	3123	1/1	0.98	0.23	53,53,53,53	0
60	MG	DA	3242	1/1	0.98	0.03	58,58,58,58	1
60	MG	DA	3147	1/1	0.98	0.35	47,47,47,47	0
60	MG	BA	3054	1/1	0.98	0.34	47,47,47,47	0
60	MG	DA	3307	1/1	0.98	0.29	55,55,55,55	0
60	MG	BH	201	1/1	0.98	0.24	50,50,50,50	0
60	MG	AA	1638	1/1	0.98	0.12	52,52,52,52	0
60	MG	DA	3132	1/1	0.98	0.23	59,59,59,59	0
60	MG	CA	1653	1/1	0.98	0.03	53,53,53,53	0
60	MG	BA	3244	1/1	0.98	0.23	60,60,60,60	0
60	MG	DA	3270	1/1	0.98	0.37	67,67,67,67	0
60	MG	BA	3115	1/1	0.98	0.22	50,50,50,50	0
60	MG	DA	3315	1/1	0.98	0.09	55,55,55,55	0
60	MG	DH	201	1/1	0.98	0.17	50,50,50,50	0
60	MG	DA	3066	1/1	0.98	0.28	52,52,52,52	0
60	MG	BA	3157	1/1	0.98	0.11	53,53,53,53	0
60	MG	BA	3073	1/1	0.98	0.21	52,52,52,52	0
60	MG	AA	1678	1/1	0.98	0.04	49,49,49,49	0
60	MG	DA	3320	1/1	0.98	0.10	55,55,55,55	0
60	MG	BA	3121	1/1	0.99	0.14	50,50,50,50	0
60	MG	CA	1696	1/1	0.99	0.07	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	D7	101	1/1	0.99	0.15	54,54,54,54	0
60	MG	AA	1654	1/1	0.99	0.06	53,53,53,53	0
60	MG	CA	1636	1/1	0.99	0.23	53,53,53,53	0
60	MG	CA	1682	1/1	0.99	0.05	53,53,53,53	0
60	MG	DA	3124	1/1	0.99	0.17	53,53,53,53	0
61	ZN	AD	301	1/1	0.99	0.09	52,52,52,52	0
61	ZN	AN	101	1/1	0.99	0.02	60,60,60,60	1
61	ZN	B9	101	1/1	0.99	0.02	55,55,55,55	0
61	ZN	CD	301	1/1	0.99	0.17	52,52,52,52	0
61	ZN	D9	101	1/1	0.99	0.06	55,55,55,55	1
61	ZN	CN	102	1/1	1.00	0.02	60,60,60,60	0

6.5 Other polymers (i)

There are no such residues in this entry.